CADDO PARISH REGIONAL WATER/UTILITY DISTRICT
Master Plan
FINAL REPORT
Phase I Identify and Define Existing Water Resources
Caddo Parish
Shreveport, Louisiana

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Phase I Identify and Define Existing Water Resources

1.0 Introduction

The purpose of this Regional Water/Utility District Master Plan (Master Plan) is to provide Caddo and Bossier Parish officials with a comprehensive planning document. This document provides information and guidance necessary for the sound stewardship of the water resources within the Caddo and Bossier Parish region.

To date, both parishes have been able to manage and sustain growth with their existing water supplies. However, both parishes are now nearing the capacity of existing treatment and transmission facilities. Previous efforts have been made by both parishes to study existing and future needs of both Caddo and Bossier Parishes. However, the rural areas of both parishes are still in desperate need of a viable and reliable drinking water supply including system redundancy. This is especially critical during extended dry weather conditions such as the summers of 2010 and 2011. This plan will provide alternatives for supplying safe and reliable drinking water for the short and long term needs of each parish.

Driving factors identified by this Master Plan

- *Increasingly Limited Raw Water Opportunities*
- *Population and Economic Growth*
- *Aging and limited Infrastructure*
- *Local Public Officials*

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1.1 Master Plan Objectives

When all Phases are complete, the Master Plan will address the following components:

- Information relevant to the existing water systems in Caddo and Bossier Parishes.
- Amount of surface water the region must use in conjunction with or in-lieu of groundwater to maintain a stable and predictable groundwater supply.
- Planning and analysis criteria for system improvements and expansions.
- Identification and discussion of known system deficiencies.
- Identification of any system connectivity and redundancy.
- Illustrate recommended improvements.
- Basic cost information for general budgeting and the development of an adoptable 25-year capital improvements program.
- Provides a physical tool for informing customers and other interested parties of the existing system and proposed improvements.
- Serves as a valuable resource for gaining public support for needed improvements and to facilitate logical planning decisions relative to other regional programs.

1.2 Master Plan Approach

The approach for developing the Master Plan consists of first defining the region's natural groundwater and surface water supply. The water supply resources are defined in terms of current amount available in wet, average and dry climate years and consideration of potential new supplies. The groundwater supply is evaluated to determine a long-term groundwater pumping target to maintain a stable groundwater supply. Then the region's current and future demands are determined. The water needs and supply results will be used to define the region's excess water supply capacity, which includes quantifying the region's predictable, reliable and potential excess water capacity. This will be followed by identifying and discussing conjunctive use strategies and water supply alternatives that both meet the region's current and expected needs and identify future water sources. Figure 1-1 depicts a flowchart of the approach used to develop the water resources portion of the plan. The approach that will be used for evaluating the existing water infrastructure within Caddo and Bossier Parishes includes preparing regional water mapping for use to evaluate system capacity, system deficiencies, and as a planning and analysis tool for system improvements.

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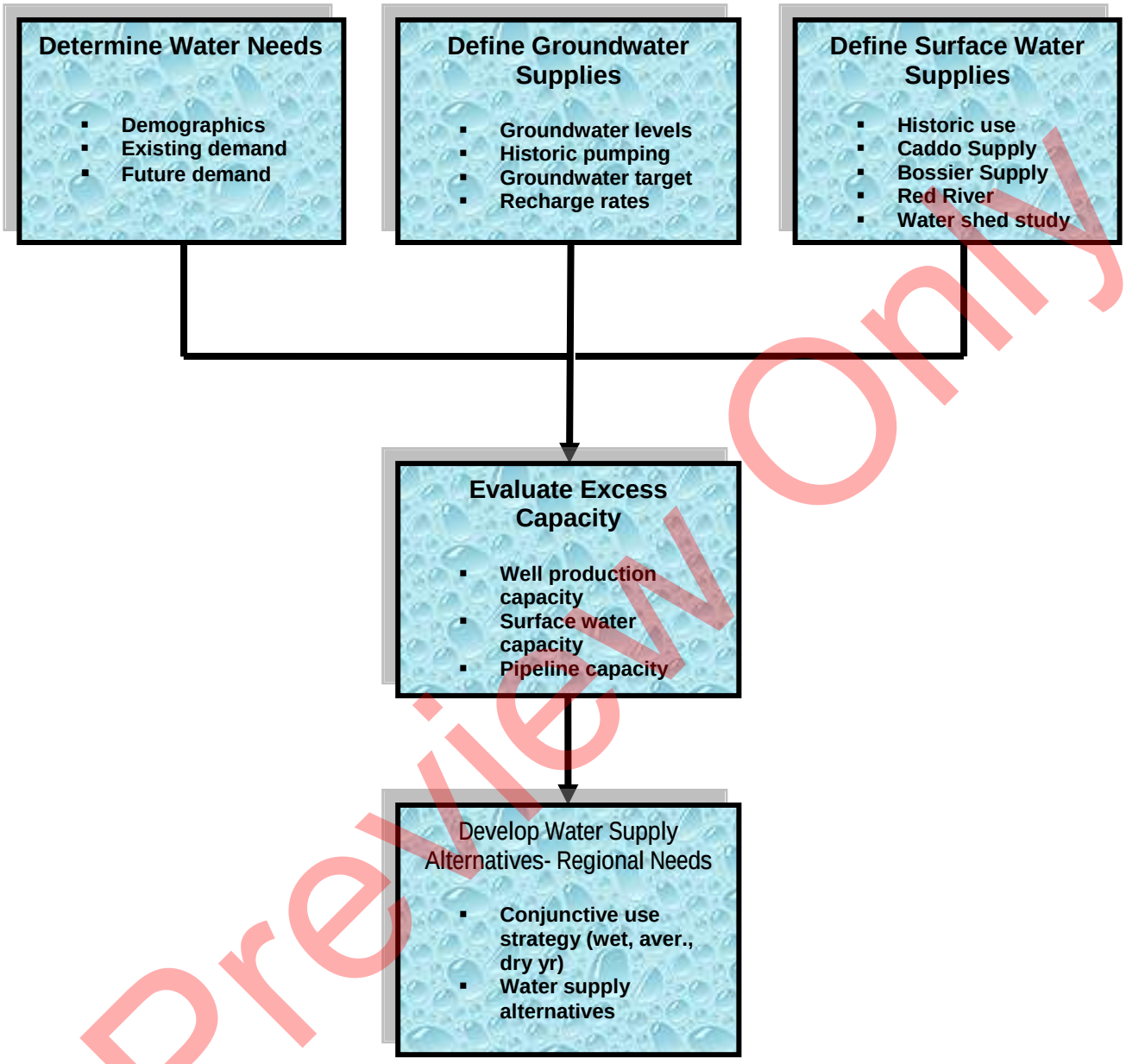
Figure 1-1, Process Flowchart for Regional Water/Utility District Master Plan



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2.0 Scope Phase I

Shaw is in the process of preparing a Regional Water/Utility District Master Plan (Master Plan) for Caddo and Bossier Parishes. The Master Plan will encompass both parishes concerning the regional water requirements and will reflect regional water needs. The Master plan is structured to meet current demand and imminent need to support future growth in the region.

The scope of Phase I is to identify the historical water usage, water resources, and the laws, compacts and regulations that affect the available water resources in Caddo and Bossier Parishes.

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3.0 Water Systems Overview

3.1 General

This section will provide a general overview of Caddo and Bossier Parish populations and water systems within each parish. Detailed descriptions of each individual water system will be provided in Phase II of this study.

3.2 Caddo Parish

Caddo Parish is located in the northwest corner of Louisiana and is bordered by Bossier Parish, Louisiana to the east, Miller County, Arkansas to the north, Desoto and Red River Parishes, Louisiana to the south, and Marion, Panola, Harrison and Cass Counties, Texas to the west. Caddo Parish had a population of approximately 255,000 people according to the 2010 census. The historical census population of Caddo Parish is shown in Table 3-1.

Caddo Parish has experienced significant economic growth and development in recent years and Caddo Parish officials believe this growth will continue. Construction is currently ongoing on the extension of Interstate 49 (I-49) North and development is expected and planned along the future interstate corridor. Caddo Parish officials believe that the interstate construction and development along the interstate corridor will lead to population growth. In addition, another major factor that will affect Caddo Parish population growth is the Haynesville Shale and its impact on the economic development of Caddo Parish. Population projections will be presented as part of Phase III. Caddo Parish and the City of Shreveport recently prepared a Master Plan for growth within Caddo Parish. Those planning efforts will be incorporated into Phase III of the study in addition to population projections for Caddo Parish.

Table 3-1, Caddo Parish Census Information

YEAR	CADDO PARISH
1920	83,265
1930	124,670
1940	150,203
1950	176,547
1960	223,859
1970	230,184
1980	252,358
1990	248,253
2000	252,161
2010	254,969

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Currently, Caddo Parish has approximately 40 community/public drinking water systems. The size and sources of the community drinking water systems range from small groundwater systems that serve small towns, rural areas, subdivisions and mobile home parks to larger surface water systems serving cities and larger towns. The water systems and the populations served in Caddo Parish are listed in Table 3-2. The locations of these water systems and their approximate service areas are shown in Figure 1-2. Well locations and surface water intakes are shown in Figure 1-4 and Figure 1-6. (Figures 1-2, 1-4, and 1-6 can be found in the Figures Tab of this report)

The City of Shreveport has the largest community drinking water system and serves the majority of the population in Caddo Parish. In addition, the City of Shreveport provides water to several smaller systems in Caddo Parish and to Barksdale Air force Base which is located across the Red River in Bossier Parish. The Blanchard Water System is the second largest community system in Caddo Parish and is currently planning to expand its treatment system and provide water to several water systems in the vicinity of Caddo Lake.

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Table 3-2, Caddo Parish Community Water Systems and Population Served

WATER SYSTEM NAME	POP. SERVED
AUTUMN ACRES MHP WATER SYSTEM	90
BARRON RIDGE SUBDIVISION WATER SYSTEM	135
BEL-DI-GIL WATER SYSTEM	1,132
BELLA VISTA MHP WATER SYSTEM	330
BIG OAKS WATER SYSTEM	93
BLANCHARD WATER SYSTEM	11,700
COLWORTH PLACE WATER SUPPLY	120
COUNTRY LIVING ESTATES WATER SYSTEM	25
DEEPWOODS UTILITIES, INC.	657
DENNY DRIVE WATER SYSTEM	48
DIXIE GARDEN WATER SUPPLY	597
EAGLE WATER, INC.	1,488
EAST COVE UTILITIES	450
EAST MOORINGSPORT WATER SYSTEM	255
EVERGREEN ESTATES WATER SYSTEM	162
FORCHT WADE CORRECTIONAL CENTER	560
FOUR FORKS WATER SYSTEM	472
GREENWOOD, TOWN OF	5,116
HILLSIDE MHP WATER SYSTEM	324
HOSSTON MIRA WATER SYSTEM	804
HUNTINGTON MOBILE HOME PARK WATER SYSTEM	291
IDA WATER SYSTEM	402
JONES ROLLING RIDGE WATER COMPANY	117
LAKE SHREVE ESTATES WATER SYSTEM	75
LAKEVIEW WATER SYSTEM	1,971
LINDA LANE WATER SYSTEM	141
MEADOWWOOD ESTATES WATER SYSTEM	144
MOORINGSPORT WATER SYSTEM	956
OIL CITY WATER WORKS	2,250
PINEHILL WATERWORKS DISTRICT	4,425
RODESSA WATER SYSTEM	336
SHADOW LAKE MHP WATER SYSTEM	90
SHERWOOD APTS. W. SYS.	50
SHREVEPORT WATER SYSTEM	201,000
SILENT CEDARS MHP WATER SYSTEM	66
SOUTH SHREVEPORT MOBILE VILLA	50
SOUTHVIEW ESTATES WATER SYSTEM	204
SPRINGLAKE MHP WATER SYSTEM	369
TWM MOBILE HOME COMMUNITY WATER SYSTEM	141
TYSON COMMUNITY WATER SYSTEM	180
VIVIAN WATER SYSTEM	4,425
WATERWORKS DISTRICT #7	6,490
WILDWOOD FOREST SUBDIVISION WATER SYSTEM	447
WILDWOOD SOUTH WATER SYSTEM	426

Source: Louisiana Department of Health and Hospitals

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The systems listed in Table 3-2 are classified as active community public systems by the Louisiana Department of Health and Hospitals Systems and these systems will be the focus of this phase of the master plan.

There are also numerous non-active community, non-community, private and commercial systems within Caddo Parish that provide water to subdivisions, mobile home parks, institutions and facilities. These systems are listed in Table 3-3.

Table 3-3, Caddo Parish Inactive Community, Non-community, Non-Transient Non-Community Water Systems and Population Served

WATER SYSTEM NAME	POP. SERVED
DAVIDSON LANE WATER SYSTEM	30
LOU ANN FARM SUBD. W.S.	112
MCADAMS MHP WATER SYSTEM	60
WALNUT HILL WATER SYSTEM	72
ZION RIDGE WATER SYSTEM	33
CAMP BETHANY WATER SYSTEM	999
CIRCLE K # 2700881	400
CRAWDADDYS TRUCK STOP WATER SYSTEM	999
CYPRESS GARDENS MARINA WATER SYSTEM	51
PELICAN LODGE WATER SYSTEM	70
RELAY STATION	999
THUNDER ROAD RACEWAY PARK	999
AMERICAN ROSE CENTER	150
TRAVEL CENTERS OF AMERICA	15 Non-Transient/ 1,500 Transient
KEITHVILLE ELEMENTARY AND MIDDLE SCHOOL	1,500
LOUISIANA CLARKLIFT	45
BAYOU PIERRE WATER SYSTEM	

Source: Louisiana Department of Health and Hospitals

The water systems listed in Table 3-2 and Table 3-3 will be discussed in greater detail in Phase II. Phase II will identify the water sources, treatment capabilities, storage volumes, infrastructure, service areas, etc. of each of the water systems in Caddo Parish.

3.3 Bossier Parish

Bossier Parish is located in the northwest corner of Louisiana and is east of the Red River from Caddo Parish, Louisiana. The Red River outlines the western border, while Red River Parish is to the east, and Lafayette County, Arkansas borders to the north. The Red River forms most of the western and southern limits of the Parish. The eastern boundary is formed by Bodcau Bayou,

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Lake Bistineau, and Loggy Bayou. Bossier Parish had a population of approximately 117,000 people according to the 2010 census. The historical census population of Bossier Parish is shown in Table 3-4.

Like Caddo Parish, Bossier Parish has experienced significant economic growth and development in recent years and Bossier Parish officials anticipate that this growth will continue. With the forthcoming construction of I-69 along the eastern limits of Bossier Parish, officials estimate that development along this corridor will lead to continued population growth within the parish. In addition, another major factor that continues to affect Bossier Parish population growth is the Haynesville Shale exploration and its economic impact on both Bossier and Caddo Parish. A planning effort was recently completed that indicates growth from within Bossier City eastward and north along I-20 and Benton Road and Airline Drive. These planning efforts will be incorporated into Phase III of the study in addition to population projections for Bossier Parish.

Table 3-4, Bossier Parish Census Information

YEAR	BOSSIER PARISH
1920	22,266
1930	28,388
1940	33,162
1950	40,139
1960	57,622
1970	64,519
1980	80,721
1990	86,088
2000	98,310
2010	116,979

Bossier Parish currently consists of approximately 23 community drinking water systems. The size and sources of the community drinking water systems range from small groundwater systems that serve small towns, rural areas, subdivisions and mobile home parks to larger surface water systems serving cities and larger towns. The water systems and the populations served in Bossier Parish are listed in Table 3-5. The locations of these water systems and their approximate service areas are shown in Figure 1-3. Well locations and surface water intakes are shown in Figure 1-5 and Figure 1-6. (Figures 1-3, 1-5, and 1-6 can be found in the Figures Tab of this report)

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Bossier City has the largest drinking water system and serves over half of Bossier Parish's population either directly or by providing water to other water systems in Bossier Parish. Bossier City Water currently has a Water System Improvement plan to possibly expand its current water treatment capacity to serve additional customers within Bossier Parish. This plan is in conjunction with the Bossier City/Bossier Parish Master planning efforts.

Barksdale Air Force Base (Barksdale) is located in Bossier Parish and is the largest employer within the parish. In addition, Barksdale is the second largest provider of water within Bossier Parish but receives its water from the City of Shreveport in Caddo Parish.

Table 3-5, Bossier Parish Community Water Systems and Population Served

WATER SYSTEM NAME	POP. SERVED
BARKSDALE AFB WATER SYSTEM	13,000
BELLEVUE WATER SYSTEM	1,125
BENTON WATER SYSTEM, TOWN OF	5,823
BODCAU WATER WORKS	159
BOSSIER CITY WATER SYSTEM, CITY OF	59,611
CENTRAL BOSSIER WATER SYSTEM	921
CONSOLIDATED WWKS DISTRICT NO.1 OF BOSSIER	3,000
COUNTRY PLACE SUBD WATER SYSTEM	1,200
CYPRESS BLACK BAYOU WATER SYSTEM	4,431
EVANGELINE OAKS WATER SYSTEM	195
HAUGHTON WATER SYSTEM, TOWN OF	4,503
HILLCREST MHP WATER SYSTEM	120
J & N MOBILE HOME PARK	147
OAK HAVEN MHP WATER SYSTEM	87
PEACEFUL PINES MHP WATER SYSTEM	135
PLAIN DEALING WATER SYSTEM, TOWN OF	2,778
RIVER POINT WATER SYSTEM	45
SHADY PARK MHP WATER SYSTEM	75
SLIGO WATER SYSTEM INCORPORATED	1,653
SOUTH BOSSIER WATER SYSTEM	1,218
SOUTHGATE MHP WATER SYSTEM	177
ST MARYS WATER SYSTEM	330
VILLAGE WATER SYSTEM	10,500

Source: Louisiana Department of Health and Hospitals

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The systems listed in Table 3-5 are classified as active community public systems by the Louisiana Department of Health and Hospitals Systems and these systems will be the focus of this phase of the master plan.

There are also numerous non-active communities, non-communities, private and commercial systems within Bossier Parish that provide water to subdivisions, mobile home parks, institutions and facilities. These systems are listed in Table 3-6.

Table 3-6, Bossier Parish Inactive Community, Non-community, Non-Transient Non-Community Water Systems and Population Served

WATER SYSTEM NAME	POP. SERVED
BRIARWOOD MHP WATER SYSTEM	68
FOSTER TRAILER PARK W.S.	240
PEPPER POINT MHP WATER SYSTEM	499
PLANTATION ACRES MHP WATER SYSTEM	450
RIVERWOOD APARTMENTS WS	1,200
SANTA FE VILLAGE WATER SYSTEM	124
TAYLORTOWN VILLAGE	75
THE FARM MHP WATER SYSTEM	148
WALKERS MHP WATER SYSTEM	44
CAMP JOY MARINA WATER SYSTEM	132
CASH POINT LANDING	136
GREEN PARK CAMP WATER SYSTEM	35
WILSONS BISTINEAU INN	50
BOSSIER PARISH PRINCETON BALL PARK	500
CYPRESS-BLACK BAYOU RECREATION AREA	300
BOSSIER PARISH PENAL FARM WS	280
BOSSIER PARISH SCHOOL BOARD	
CBB WATER SYSTEM, INC.	

Source: Louisiana Department of Health and Hospitals

The water systems listed in Table 3-5 and Table 3-6 will be discussed in greater detail in Phase II. Phase II will identify the water sources, treatment capabilities, storage volumes, infrastructure, service areas, etc. of each of the water systems in Bossier Parish.

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4.0 Historical Water Use Data

4.1 General

This section will focus on the historical water use by Caddo and Bossier Parishes. Historical water use by both parishes is critical in order to define the water needs. Public water use data for Caddo Parish was taken from the United States Geological Survey's (USGS) "Water Use in Louisiana" reports from 1960, 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005, and 2010. These reports contain surface water and ground water use for all parishes within the State of Louisiana.

Water usage is derived from a wide variety of sources including direct pumpage data and census data estimates. Rural-domestic water use, irrigation water use, aquaculture water use and livestock water use were taken from the Louisiana Geological Survey (LGS). Water use data for public-supply, industrial, and power generation categories was obtained directly from the facilities by USGS. The rural-domestic use was determined by multiplying population as determined from census data by an estimate of 80 gallons per person per day of use (Sargent, 2007). For irrigation, water use data was a combination of acreage data and application rate data. Water application rate data used was collected from the US Consolidated Farm Service Agency by USGS from farmers during the spring, which is when most of the application of water occurs. Acreage data was determined from irrigation surveys within the national agricultural statistics service reports (Sargent, 2007). Determination of aquaculture usage was determined from application rate and acreage data determined by the Louisiana Cooperative Extension Service (Sargent, 2007). Livestock water usage was determined from livestock population and rate of use data provided by parish agents (Cardell and Walter, 1979).

The following tables and information within this section will summarize information for Caddo and Bossier Parishes from the Water Use Reports from 1960 to 2010.

4.2 Caddo Parish

According to the USGS Water Use for Louisiana, in 2010, 146.96 million gallons per day (MGD) of water were withdrawn in Caddo Parish, including 10.58 MGD from groundwater sources and 136.38 MGD from surface water sources. Public supply use accounted for about 32 percent (47.33 MGD) and power generation accounted for about 61 percent of the total water withdrawn. Other categories of use identified were general irrigation, rural-domestic, aquaculture, livestock and industrial uses.

USGS collected water use data at 5-year intervals from 1960 to 2010 (Tables 4-1 and 4-2). Review of this information indicates water withdrawals in the parish peaked in 1965 and

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generally decreased primarily because of reduced surface water withdrawals for power generation (Table 4-3).

Table 4-1, Caddo Parish Historical Public and Industrial Water Use (MGD)

YEAR	PUBLIC SUPPLIES		INDUSTRIAL		FUEL ELECTRIC		RURAL DOMESTIC	
	GROUND	SURFACE	GROUND	SURFACE	GROUND	SURFACE	GROUND	SURFACE
1960	0.57	18.1	0.05	340.2	*	*	1.74	0
1965	1.52	22.1	0.14	0	0.03	388.02	1.4	0
1970	1.3	24.9	1.14	1.19	0	283	1.54	0
1975	0.98	30.6	1.7	0.35	0	200	0.39	0
1980	1.23	35.9	0.23	0.52	0	199	1.11	0
1985	1.33	36.4	0	0.68	0	158	1.9	0
1990	0.99	38.12	0.04	0.36	0	43.53	1.87	0
1995	1.48	31.85	0.03	0.41	0	50.37	1.6	0
2000	1.13	46.89	0.09	0.29	0	92.39	1.57	0
2005	1.56	50.04	0.09	0.04	0	14.18	1.63	0
2010	1.77	45.56	0	0.04	0	89.12	1.65	0

*No info provided for fuel electric in 1960 USGS collected water use data.

Table 4-2, Caddo Parish Historical Agricultural Water Use (MGD)

YEAR	LIVESTOCK		RICE		OTHER CROPS		AQUACULTURE	
	GROUND	SURFACE	GROUND	SURFACE	GROUND	SURFACE	GROUND	SURFACE
1960	0.2	0.48	0	0	0.08	0.25	0	0
1965	0.19	0.45	0	0	1.67	3.74	0	0
1970	0.06	0.46	0	0	2.73	0.2	0	0
1975	0.14	0.42	0	0	1.8	0	0	0
1980	0.41	0.29	0.41	0	0.8	0	0	0
1985	0.19	0.13	0.67	0	0.72	0	0	0
1990	0.14	0.09	0.08	0	0.91	0.04	0.03	0
1995	0.07	0.16	0.04	0	0.49	0	0	0
2000	0.06	0.14	0	0	2.58	0.64	0.24	0
2005	0.1	0.16	0	0	2.94	0.73	1.39	0
2010	0.1	0.23	0	0	5.77	1.44	1.29	0

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Table 4-3, Caddo Parish Historical Total Water Use (MGD)

YEAR	TOTAL		
	GROUND	SURFACE	TOTAL
1960	2.64	359.03	361.67
1965	4.95	414.31	419.26
1970	6.76	309.75	316.51
1975	5.01	231.37	236.38
1980	4.2	235.55	239.75
1985	4.81	195.21	200.02
1990	4.07	82.13	86.2
1995	3.71	82.8	86.51
2000	5.66	140.35	146.01
2005	7.7	65.15	72.85
2010	10.58	136.38	146.96

Historical water use data from the individual treatment facilities collected as part of Phase II will be compared to this historical use data prepared by USGS.

4.3 Bossier Parish

According to the USGS Water Use for Louisiana, in 2010, 15.27 million gallons per day (MGD) of water were withdrawn in Bossier Parish, including 2.15 MGD from groundwater sources and 10.24 MGD from surface water sources. Public supply use accounted for about 81 percent (12.39 MGD) of the total water withdrawn. Other categories of use identified were industry, rural domestic, livestock, rice irrigation, general irrigation and aquaculture.

USGS collected water use data at 5-year intervals from 1960 to 2010 (Tables 4-4 and 4-5). Review of this information indicates water withdrawals in the parish increased from 4.96 to 15.27 MGD (Table 4-6).

Table 4-4, Bossier Parish Historical Public and Industrial Water Use (MGD)

YEAR	PUBLIC SUPPLIES		INDUSTRIAL		RURAL DOMESTIC	
	GROUND	SURFACE	GROUND	SURFACE	GROUND	SURFACE
1960	0.24	3.5	0.15	0.06	0.38	0
1965	0.34	4	0.42	0.7	0.7	0
1970	0.43	4.02	1.26	0.09	0.7	0
1975	0.99	6	1.48	0.06	0.42	0
1980	0.97	6.24	0.44	0	1.88	0
1985	1.2	6.27	0.49	0	1.04	0
1990	1.32	7.49	0.44	0.01	1.21	0
1995	1.57	8.66	0.36	0.01	1.1	0
2000	2.04	9.69	0.69	0.01	1.15	0
2005	1.73	10.67	0.42	0.02	1.28	0
2010	2.15	10.24	0.33	0	1.36	0

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Table 4-5, Bossier Parish Historical Agricultural Water Use (MGD)

YEAR	LIVESTOCK		RICE		OTHER CROPS		AQUACULTURE	
	GROUND	SURFACE	GROUND	SURFACE	GROUND	SURFACE	GROUND	SURFACE
1960	0.15	0.35	0	0	0.03	0.1		
1965	0.15	0.35	0	0	0.2	1.8	0	0
1970	0.21	0.44	0	0	0.2	0	0	0
1975	0.01	0.06	0	0	0	0	0	0
1980	0.18	0.09	0.53	0	0.01	0	0	0
1985	0.11	0.06	0.3	0	0.06	0	0	0
1990	0.12	0.08	0.02	0	0	0	0	0
1995	0.1	0.07	0.09	0	0	0	0.1	0
2000	0.12	0.03	0.19	0	0.03	0	0.19	0
2005	0.07	0.02	0.16	0	0.24	0.97	0.21	0
2010	0.16	0.04	0.02	0	0.19	0.77	0	0

Table 4-6, Bossier Parish Historical Total Water Use (MGD)

YEAR	TOTAL		
	GROUND	SURFACE	TOTAL
1960	0.95	4.01	4.96
1965	1.81	6.85	8.66
1970	2.8	4.55	7.35
1975	2.9	6.12	9.02
1980	4.01	6.33	10.34
1985	3.2	6.33	9.53
1990	3.26	7.57	10.83
1995	3.32	8.74	12.06
2000	4.41	9.74	14.15
2005	4.12	11.68	15.8
2010	4.22	11.05	15.27

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4.4 Other Use

4.4.1 QEP Energy Company

The QEP Energy Company currently withdraws water from the Red River for hydro-fracking. There is a Cooperative Endeavor Agreement with the State of Louisiana which specified the yearly amount of water an entity can withdraw from the Red River. The following shows the total yearly withdrawal requested by QEP Energy Company. A table of the Louisiana Department of Natural Resources Surface Water Withdrawal Cooperative Endeavor Agreements for years 2010 through 2012 can be found in Appendix A.

Agreement Number	Yearly Withdrawal Amount
CUA-2011-0021	158,400,000 Gallons
CUA-2011-0025	153,400,000 Gallons
Total	311,800,000 Gallons

4.4.2 Chesapeake Energy

Chesapeake Energy is also part of the Louisiana Cooperative Endeavor. The following yearly amounts have been identified.

Agreement Number	Yearly Withdrawal Amount
CUA-2011-0022	30,240,000 Gallons
CUA-2011-0033	30,240,000 Gallons
Total	60,480,000 Gallons

4.4.3 Agricultural Uses

The USGS has identified 1.0 million gallons per day (MGD) consumption of Red River water for irrigation uses. This does not include the transfer of water from the Red River to Red Bayou for irrigation purposes. The estimated use for Red Bayou for irrigation is 333 cubic feet per second as identified in the "Red Bayou Irrigation Feasibility Study Hydraulic Analysis" performed by the USDA NRCS.

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5.0 Raw Water Sources

5.1 General

Raw water sources including both groundwater and surface water will be described for Caddo and Bossier Parishes in this section. Historical water use for of the surface water withdrawn including public supply, industry, livestock, general irrigation and aquaculture information were presented in Section 4.

Recent drought conditions have had a measurable impact on groundwater resources for rural and some suburban portions of Caddo and Bossier Parish, especially areas in south Caddo Parish adjacent to the City of Shreveport. As part of this section, this impact and potential future impacts for long and short term supply will be addressed. Surface water bodies and sources are shown in Figure 1-6 and aquifers for the region are shown in Figure 1-7. (Figures 1-6 and 1-7 can be found in the Figures tab of this report).

5.2 Ground Water

Groundwater is the primary source of raw water for rural portions of Caddo and Bossier Parishes. Louisiana state well registration records listed 3,741 active water wells in Caddo Parish in 2009, including 3,198 domestic, 233 public supply, 213 irrigation, 96 industrial and 1 power generation wells. Louisiana state well registration records listed 3,236 active water wells in Bossier Parish in 2009, including 2,942 domestic, 144 public supply, 104 irrigation and 46 industrial wells.

A large number of private and industrial water systems exist throughout Caddo and Bossier Parishes. These systems serve large institutions and commercial or industrial installations. The systems are privately owned, operated and maintained.

A large number of agricultural water wells exist throughout Caddo and Bossier Parishes. These systems serve large institutions and commercial or industrial installations. The systems are privately owned, operated and maintained.

A large number of water wells for oil and gas rig supply were developed (only used during drilling of oil or gas wells) throughout Caddo and Bossier Parishes. The water supply wells are privately owned and operated. These wells are required by the Louisiana Office of Conservation to be plugged and abandoned after the oil or gas well has been drilled. A smaller number of water wells have been drilled to supply water for hydraulic fracturing.

The Carrizo-Wilcox aquifer provides ground water to all of Caddo Parish, Desoto, Sabine, and most of Bossier, Bienville, Red River, Webster and Natchitoches Parishes in northwest

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Louisiana. The aquifer also serves over sixty counties in east and southeast Texas. The Carrizo-Wilcox aquifer is an aquifer that does not recharge easily and is depleting at a high rate due to overuse by the residential, business, commercial and possibly the Haynesville Shale gas play. The Haynesville Shale requires up to six million gallons of water per well to frac. This is typically a one-time use by the operator. Due to these activities and drought conditions in north Louisiana over recent years, many Caddo and Bossier Parish residents have experienced water shortages and poor water quality.

5.2.1 Caddo Parish

The primary groundwater resources for Caddo Parish, from near surface to deepest, include the Red River Alluvial aquifer, the Upland Terrace aquifer and the Carrizo-Wilcox aquifer. The Sparta aquifer and aquifers of the Cane River formation also yield freshwater in the northernmost parts of the parish, but are not considered to be a major resources because of their limited extents in the parish. Fresh groundwater (water with a chloride concentration of 250 milligrams per liter or less) is available throughout most of the parish at depths ranging from about 100 feet above the National Geodetic Vertical Datum of 1929 (NGVD 29) (mean sea level) near the western parish line to about 400 feet below NGVD 29 near the northern parish line. Fresh groundwater is not available in an area east of Caddo Lake.

Historical water usage reported by USGS for various types of wells including public supply, industry, livestock, general irrigation and aquaculture information was presented in Section 4.

5.2.2 Bossier Parish

The primary groundwater resources for Bossier Parish, from near surface to deepest, include the Red River Alluvial aquifer, the Upland Terrace aquifer, the Sparta aquifer and the Carrizo-Wilcox aquifer. Fresh groundwater (water with a chloride concentration of 250 milligrams per liter or less) is available throughout most of the parish at depths ranging from about 50 feet above the NGVD 29 near the southern parish line to about 400 feet below NGVD 29 near the northern parish line.

Historical water usage reported by USGS for various types of wells including public supply, industry, livestock, general irrigation and aquaculture information was presented in Section 4.

5.3 Surface Water

All current sources of surface water used in Caddo and Bossier Parishes are part of the Red River Watershed or sub-basins of the Red River Watershed. Surface water has been the primary source of raw water for urban portions of Caddo and Bossier Parishes. Cities and larger towns such as Shreveport, Blanchard and Mooringsport, in Caddo Parish and Bossier City and Benton in

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Bossier Parish primarily use surface water as their source for raw water. Surface water in the region comes from three main sources: Red River, Caddo Lake and Cross Lake.

The Red River Watershed has 13 sub-basins that are part of Caddo and Bossier Parishes. Caddo Parish is in 7 of those sub-basins and Bossier Parish is in 6 of those sub-basins. The sub-basins for each parish are listed in Table 5-1 and Table 5-2. This study will focus on the sub-basins that impact the current surface water sources. The watershed and sub-basins are shown in Figure 1-8 (which can be found in the Figures tab of this report). Although the Toledo Bend Reservoir sub-basin is part of the Sabine River Watershed, a portion of the watershed is located in southern Caddo Parish. Water allotment of the Red River and the Red River Watershed is discussed in detail in Section 6 of this study.

Table 5-1, Caddo Parish Sub-basins

CADDO	State(s)
Mckinney-Posten Bayous	AR, LA, TX
Middle Red-Coushatta	LA
Red Chute	LA
Bayou Pierre	LA, TX
Cross Bayou	AR, LA, TX
Caddo Lake	LA, TX
Middle Sabine	LA, TX
Toledo Bend Reservoir	LA, TX

Source: United States Environmental Protection Agency

Table 5-2, Bossier Parish Sub-basins

BOSSIER	State(s)
Mckinney-Posten Bayous	AR, LA, TX
Middle Red-Coushatta	LA
Loggy Bayou	AR, LA
Red Chute	LA
Bodcau Bayou	AR, LA
Cross Bayou	AR, LA, TX

Source: United States Environmental Protection Agency

Descriptions of these surface water sources and their watersheds will be given in this section, but a complete analysis of the water sources and watersheds for safe yield will be conducted in Phase IV of the Master Plan. Other surface water sources and their watersheds will also be analyzed in Phase IV.

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5.3.1 Caddo Parish

There are currently five surface water sources either currently in use or identified as potential sources for Caddo Parish.

Surface water sources for Caddo Parish

- ***Cross Lake***
- ***Caddo Lake***
- ***Twelve Mile Bayou***
- ***Red River***
- ***Toledo Bend Reservoir***

Cross Lake is the primary source of fresh water in Caddo Parish and serves as the reservoir for the City of Shreveport. The City of Shreveport currently uses Twelve Mile Bayou as a backup water supply source. According to USGS records for the year 2005, the Shreveport Water System withdrew 47.9 MGD from Cross Lake for public supply. Caddo Lake is the second largest source of fresh water in Caddo Parish and provides water to several smaller water systems within Caddo Parish, including the Blanchard Water System, Mooringsport Water System and others. In 2005, those smaller water systems withdrew a total of about 2.13 MGD from Caddo Lake combined. Other surface water bodies in the parish including Black Bayou Lake and Wallace Lake are not addressed in this study.

5.3.1.1 Cross Lake

Cross Lake was formed in 1926 when a dam was constructed across Cross Bayou to provide an adequate source of drinking water for the residents of the City of Shreveport. The elongated lake is oriented east to west and is approximately 9 miles in length with an average depth of 7.7 feet. The lake has approximately 13.4 square miles in surface area and is 65,807 acre-feet in volume at spillway crest, which is 171.19 feet above NGVD 29. Much of the shoreline is urbanized, particularly along the eastern and southern shores. The major types of land use surrounding Cross Lake and within its watershed are forest land, forested wetlands, residential and to a lesser degree, cropland and pastures.

Cross Lake is part of the Cross Bayou Sub-basin and receives inflow from a 253 square mile watershed that includes eight major tributaries and supplemental flow through a pipeline from nearby Twelve Mile Bayou during low water levels (Water Resources of Caddo Parish, USGS). Most of the tributary inflow enters at the western end of the lake. The three largest tributaries and watershed areas are Paw Paw Bayou (also known as Qua Paw Bayou) (82.02 square miles), Cross Bayou (62.43 square miles) and Shettleworth Bayou (19.54 square miles). The lake has

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two distributaries, the Cross Lake Dam and Spillway and the City of Shreveport water treatment plant intake, both located at the eastern end of the lake. Cross Lake with supplemental pumped water from Twelve Mile Bayou are the primary sources of water for the City of Shreveport. The City of Shreveport covers the metropolitan area and supplies water for a small amount of citizens who live in the rural areas near the City's water supply system.

Cross Lake has experienced problems with heavy siltation over the years. Studies have been conducted by the City of Shreveport to eliminate or reduce the amount of siltation to a manageable level. However, to date, those studies have shown the cost to be excessive as a near-term solution.

Historical stage-frequency data generated by the USGS for Cross Lake is contained in Appendix B. Additional stream inflow information will be presented in Phase IV as part of the water yield analysis for Cross Lake. Bathymetric information for Cross Lake is contained in Appendix O.

5.3.1.2 Caddo Lake

Caddo Lake is located in northwestern Caddo Parish and extends into Marion County, Texas. The lake has a drainage area of 2,744 square miles. Major tributaries are Big Cypress Bayou in Texas and James Bayou in Louisiana, which enter at the western and northern ends of the lake. There are also numerous smaller tributaries. Lake water level is controlled by a spillway located at the eastern end and spillway water discharges into Willow Pass, which becomes Twelve Mile Bayou. The crest elevation of the spillway is 168.5 feet above NGVD 29 and the maximum design discharge of the spillway is 36,000 cubic feet per second. Caddo Lake is a wide, shallow lake and shallow areas of the lake are densely vegetated. The lake has a surface area of about 26 square miles, an average depth of 4.6 feet and a depth of 4.6 feet or greater in more than 50 percent of the lake area. The largest depths are located in the eastern part of the lake. East of the bridge on State Highway 538 (near Mooringsport), the water depth is approximately 27 feet. The Caddo Lake dam consists of 2,400 linear feet of concrete wall, with the central 860 feet of crest at 168.5 NGVD and the remaining 1,540 feet at 170.5 feet NGVD. An earth embankment 1,200 feet long ties the concrete dam to the hill line at one end. At the opposite end, the dam abuts the hill line.

Caddo Lake is part of the Caddo Lake Watershed (Figure 5-2) and consists of four major sub-watersheds drained by Big Cypress Creek in Texas, Little Cypress Creek Segment in Texas, Black Cypress Bayou in Texas and James Bayou in Louisiana. The first three of these watersheds have USGS stream flow gauging stations located near Caddo Lake. James Bayou, which enters Caddo Lake through a large embayment on the northern shore in Louisiana, does not. These four watersheds provide most of the inflows to the lake, but three smaller creeks (e.g., Kitchen Creek, Haggerty Creek, Harrison Bayou) also enter the main body of the lake directly. Big Cypress Creek alone accounts for 953 square miles (35.4%) of the 2,694 square

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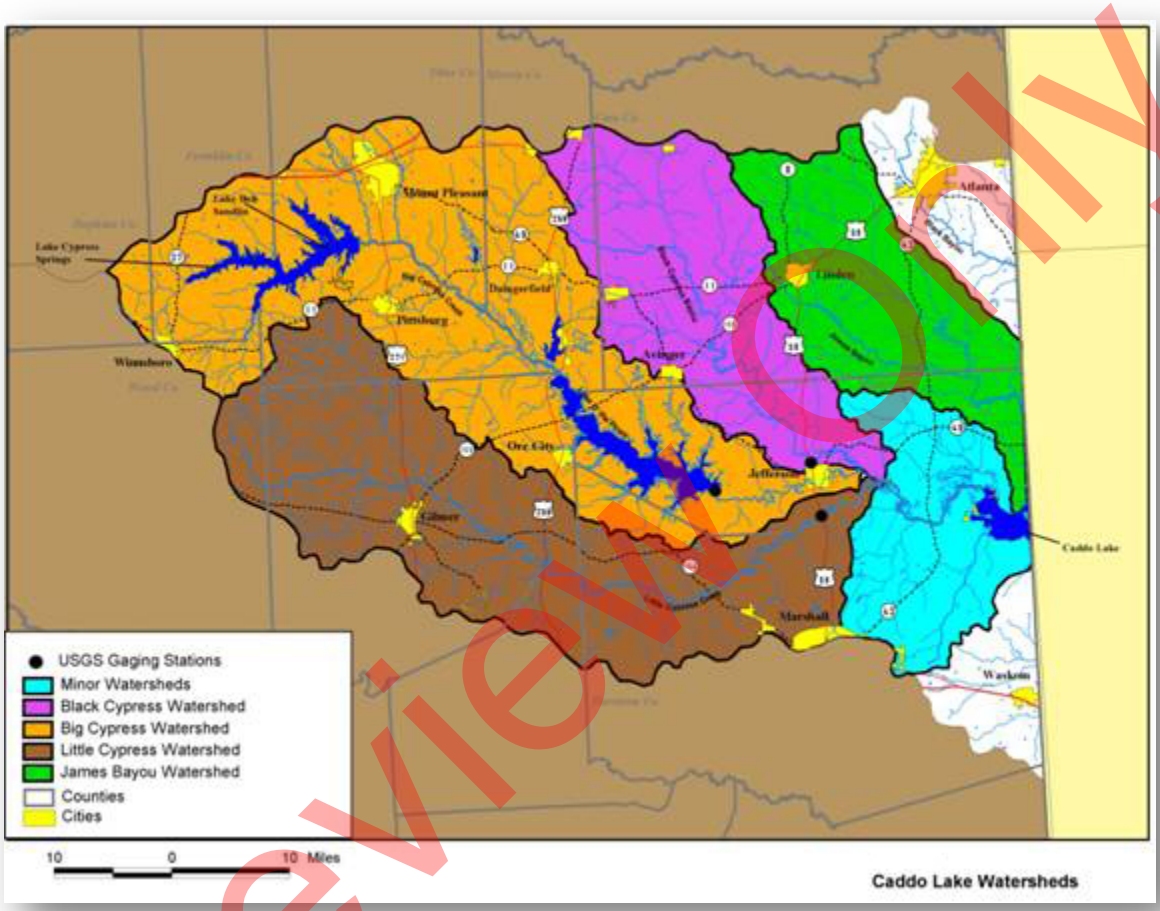
miles Caddo Lake Watershed, while the three gauged streams together drain 2,092 square miles, about 77.6% of Caddo Lake's drainage area. James Bayou and the minor drainage areas respectively account for 338 and 264 square miles (12.6% and 9.8%) of the total drainage area (Texas Water Development Board).

Figure 5-2, Caddo Lake Watersheds



Source: Texas Water Development Board

Information obtained from the Northeast Texas Municipal Water District (NTMWD) reported that Caddo Lake has a conservation pool elevation of 168.5 feet msl and a conservation storage volume of 129,000 acre feet. According to NTMWD, Caddo Lake has a dead zone elevation of 166 feet msl and a total volume of 69,200 acre feet. Because of this dead zone, the actual storage capacity of Caddo Lake is reported to be 59,800 acre feet by NTMWD (Table 5-3).

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Table 5-3, Caddo Lake Elevation-Capacity

Elevation	Area (Acres)	Capacity (acre-ft)
161	4,500	4,000
162	8,500	10,000
163	11,600	20,100
164	14,750	35,000
165	18,750	50,000
166	20,700	69,200
167	23,000	90,000
168	25,500	115,000
169	27,600	140,000
170	30,000	169,000
171	32,000	200,000
172	34,500	230,000
173	36,500	270,000
174	39,000	308,000
175	41,000	348,000
176	43,500	391,400

Source: Texas Water Development Board

According to the Texas Water Development Board, Louisiana shares the water in Caddo Lake with Texas, with each state getting 50% of the water in the lake. Caddo Lake supplies surface water to multiple water systems in Caddo Parish as well as within the State of Texas. Caddo Lake is the primary source of water for the northern part of Caddo Parish, and it provides water for Oil City, Blanchard, Mooringsport and Vivian. Total average annual inflow to Caddo Lake is estimated to be about 1,990 cfs (1,441,680 acre feet/year) by the State of Texas. Caddo Lake has an estimated firm yield of 10,000 acre feet/year by the Northeast Regional Water Plan from Texas.

At the USGS 07346310 (COE) gage near Mooringsport, LA, stage information is only available from February of 2012 to May of 2012 and is provisional. Historical water surface information at that location is contained in Appendix C. Additional stream inflow information will be presented in Phase IV as part of the water yield analysis for Caddo Lake. Bathymetric information for Caddo Lake is contained in Appendix O.

5.3.1.3 Twelve Mile Bayou

Twelve Mile Bayou is located below the Caddo Lake dam. Twelve Mile Bayou is 23 miles long and is 250 to 300 feet wide with an average depth of 16 feet. It is 8,800 feet upstream of the confluence of Cross Bayou with the Red River. Historical stage-frequency data generated by the

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USGS for Twelve Mile Bayou near Dixie, LA is presented in Appendix D. The gage station is located 17.3 miles upstream of the mouth of the bayou.

5.3.1.4 Red River

Caddo Parish sits at River Mile 277 of the Red River, which has a drainage area of 60,614 square miles at this location. Although there are no reported withdrawals of water from the Red River for Caddo Parish for drinking water usage, the river is a potential source of freshwater. The Red River is further discussed in detail in Section 5.3.2.1.

5.3.1.5 Toledo Bend Reservoir

The Toledo Bend Reservoir is located within the Sabine River Basin on the Texas and Louisiana border. Toledo Bend Reservoir is one of the largest man-made reservoirs in the United States and covers an area of approximately 185,000 surface acres and has a storage capacity of 4,477,000 acre-feet at a reservoir level of 172 feet in elevation (msl).

Toledo Bend's annual water supply "firm yield" is reported to be 2,086,600 acre-feet. Louisiana and Texas have equal rights to the water in the reservoir and with Louisiana's half being apportioned to the Sabine River Authority of Louisiana and Texas' half being apportioned to the Sabine River Authority of Texas. Currently, the Sabine River Authority of Louisiana historically uses less than 3% of its annual water allocation with various municipal and independent water systems in Desoto and Sabine Parishes using the reservoir. Toledo Bend is currently proposing to sale raw water to various entities in the State of Texas. (ToledoBend.com)

The Sabine River Authority of Louisiana was recently working through the possibility of selling 600,000 acre-feet of water per year from the river system to Toledo Bend Partners, which in turn would market it westward, to Texas customers. The possibility has met strong opposition from local and state government.

5.3.2 Bossier Parish

There are currently five surface water sources either currently in use or identified as potential sources for Bossier Parish.

Surface water sources for Bossier Parish

- ***Red River***
- ***Lake Bistineau***
- ***Cypress Bayou Reservoir***
- ***Black Bayou Reservoir***
- ***Bodcau Bayou***

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Currently, the Red River is the only surface source being used for drinking water in Bossier Parish. According to USGS records for the year of 2005, the Bossier City Water System withdrew about 10.7 MGD from the Red River for public water supply purposes. Other potential surface water sources in the parish include Lake Bistineau, Cypress and Black Bayou Reservoirs, and Bodcau Bayou. Many streams draining upland areas of the parish are not dependable sources of supply because they do not have well-sustained flows during dry seasons.

5.3.2.1 Red River

Bossier Parish sits at River Mile 277 of the Red River, which has a drainage area of 60,614 square miles at this point. The Red River drainage basin can be found in Figure 5-3. The average discharge of the Red River was 19,500 cubic feet per second (cfs) during 1998-2008 at a site about 4.5 miles upstream from Bossier Parish at Spring Bank, Arkansas (station number 07344370; U.S. Geological Survey, 2008). The highest mean daily discharge of the Red River during this 10-year period was 138,000 cfs on March 14, 2001 and the lowest was 1,100 cfs on October 11, 2006. This information is presented in Appendix E.

The Red River is one of Louisiana's major river systems and is located in the Mississippi drainage basin. The river receives its name from the high concentration of red soil present in the river following flood periods. The headwaters of the Red River are located in Curry County, New Mexico and the river ends 1,360 miles downstream at the Mississippi River. The Red River Watershed is 69,200 square miles and receives drainage from 5 states including New Mexico, Texas, Oklahoma, Arkansas, and Louisiana. The Red River drains approximately 7,760 square miles within Louisiana.

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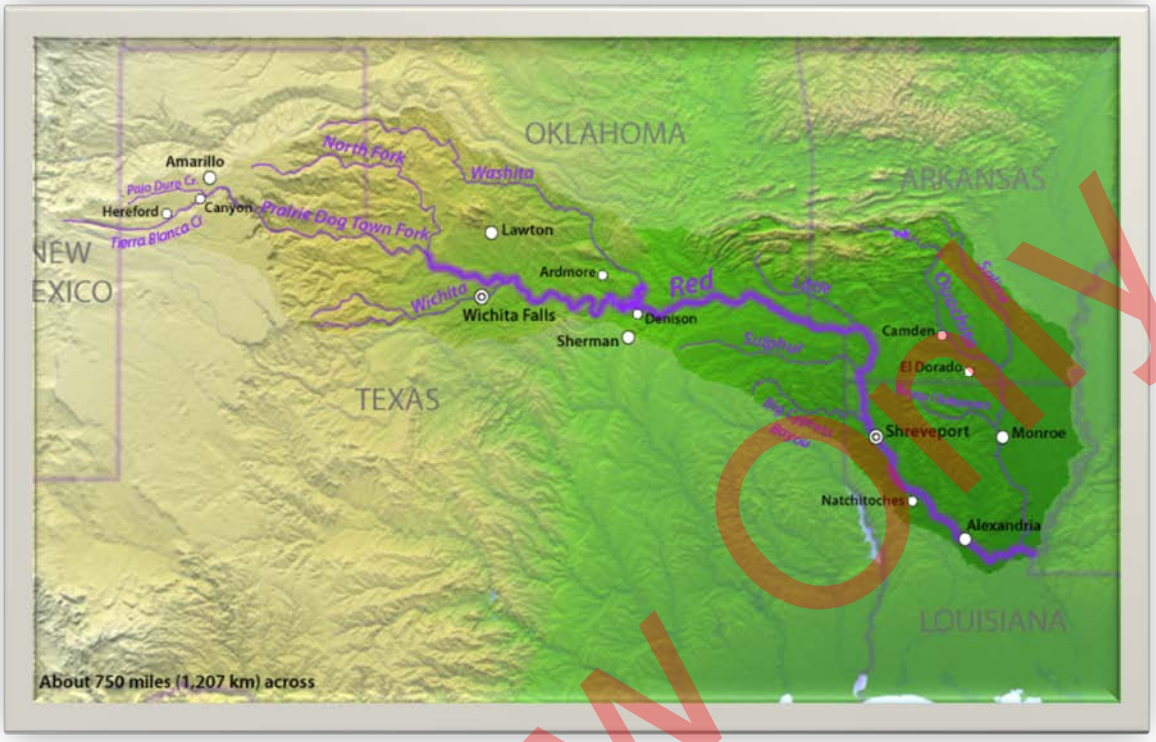
Figure 5-3, Red River Drainage Basin



Source: IMS

The Red River enters Louisiana from Arkansas in the northwest portion of the state and follows a southeasterly course, passing through or forming the boundary of 10 parishes, until it reaches its mouth at the Mississippi River. Shreveport and Alexandria are the principle cities located along the river. Much of the basin is forested and agriculture lands are primarily located within the Red River's historic floodplain.

In accordance with the Red River Compact, when the Red River enters into the State of Louisiana, all water in the river is controlled by the State of Louisiana. The amount of water entering the State of Louisiana is monitored by the U.S. Geological Survey Station 07344370 located at the Louisiana-Arkansas border. Table 5-4 shows the amount of water entering into Louisiana by the Red River. Flows are in Billion Gallons per day.

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Table 5-4, Red River Flow Entering Louisiana

YEAR	Monthly mean in BGD (Calculation Period: 1997-10-01 thru 2011-09-30)											
	Calculation period restricted by USGS staff due to special conditions at/near site											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1997										3.2	4.2	14.1
1998	56.4	30.9	38.1	21.1	6.7	4.3	2.7	3.0	5.2	11.7	5.3	15.4
1999	11.7	13.2	12.2	16.5	16.6	8.7	9.7	4.2	2.7	1.6	1.4	4.1
2000	2.7	3.4	7.1	10.6	13.6	20.5	11.0	4.0	3.1	1.7	22.6	26.7
2001	33.0	36.8	68.6	25.7	16.4	20.5	8.8	4.0	5.9	13.1	4.5	31.1
2002	23.3	31.0	30.0	67.7	20.4	7.6	4.3	4.7	2.9	5.1	5.1	8.0
2003	15.8	10.6	17.8	3.7	5.2	4.7	4.3	3.6	3.6	2.0	2.8	2.3
2004	4.2	11.0	8.8	4.2	8.4	12.9	11.9	4.6	2.3	3.4	13.3	22.0
2005	37.2	16.5	9.0	9.7	2.8	2.3	2.0	2.2	1.9	1.9	1.2	1.0
2006	1.4	2.0	8.4	5.5	9.1	2.1	1.7	1.6	1.0	1.8	5.3	8.6
2007	33.8	13.8	3.9	10.0	23.7	30.9	58.2	39.7	17.3	5.4	3.4	6.5
2008	4.4	14.5	42.3	55.5	26.5	8.4	4.0	3.9	8.1	4.9	2.1	3.0
2009	4.2	5.0	8.8	10.1	64.9	36.7	6.4	9.1	12.0	48.2	36.7	21.3
2010	22.1	38.9	24.5	14.9	9.3	6.4	8.3	4.6	3.2	1.7	1.4	1.4
2011	3.8	3.6	2.7	8.4	28.4	3.1	3.3	1.8	1.3			
Median	13.8	13.5	10.6	10.4	15.0	8.0	5.4	4.0	3.2	3.3	4.3	8.3

5.3.2.2 Lake Bistineau

Lake Bistineau is a 26.9 square mile (17,200 acre) reservoir located in southeast Bossier, southwest Webster and northwest Bienville Parishes. The reservoir has a volume of 120,000 acre-feet (39,102 Mgal) at spillway crest, an average depth of 7 feet and a maximum depth of 25 feet. Bayou Dorcheat is the primary tributary. Lake Bistineau currently has no reported potable surface water users in Bossier Parish.

Lake Bistineau is part of the Loggy Bayou Sub-basin and has a drainage area of approximately 1,443 square miles and is primarily used for flood control and conservation. USGS mean gage height is available for Lake Bistineau near Ringgold, LA (Station Number 07349250) from 2001 to 2012. The spillway crest elevation is 141 feet (NGVD 29). Historical stage-frequency data generated by the USGS for Lake Bistineau is presented in Appendix F. Additional stream inflow information will be presented in Phase IV as part of the water yield analysis for Cross Lake.

5.3.2.3 Cypress Bayou Reservoir

The Cypress Bayou Reservoir, located about 10 miles north of Bossier City, was completed in 1975. The reservoir is located in the Red Chute Watershed and has a drainage area of 155 square miles. Cypress Bayou Reservoir receives inflows from Cypress Bayou, Little Caney Bayou and White Oak Bayou. The reservoir dam has a 250 foot concrete spillway with a crest elevation of about 180 feet above NGVD 29. When the elevation of the water surface in the reservoir is near

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the crest elevation, the surface area of the reservoir is about 3,400 acres, the maximum depth is about 20 feet, the average depth is about 6.7 feet and the water volume is about 22,700 acre-feet. The reservoir is maintained and operated by the Cypress Black Bayou Recreation and Water Conservation District and is used for flood control, conservation and recreation. Cypress Bayou Reservoir currently has no reported potable surface water users in Bossier Parish.

Historical stage-frequency data generated by the USGS for Cypress Bayou Reservoir is presented in Appendix G. Additional stream inflow information will be presented in Phase IV as part of the water yield analysis for Cross Lake. Bathymetric information for Cypress Bayou Reservoir is contained in Appendix O.

5.3.2.4 Black Bayou Reservoir

Black Bayou Reservoir is located in Bossier Parish, about 8 miles north of Bossier City, Louisiana, and 3 miles southeast of Benton, Louisiana. The reservoir, formed from an earthen dam built in 1975 on Black Bayou, is used for water-based activities such as water skiing, fishing, boating, and swimming. Black Bayou Reservoir has a drainage area of 26 square miles and receives inflow from Black Bayou. The earthen dam is 4,800 feet in length and the reservoir level is controlled by a spillway 150 feet in length with a crest elevation of 185 feet above sea level. The maximum discharge for the spillway structure is 13,680 cubic feet per second (Ray Elifami, Louisiana Department of Transportation and Development, 1998). Bathymetric information for Black Bayou Reservoir is contained in Appendix O.

5.3.2.5 Bodcau Bayou

Bodcau Bayou forms the northeastern parish line before draining southwest through central Bossier Parish. The average discharge of the bayou was 598 cubic feet per second during 1939-1992 at a site near Sarepta, LA, which is located in the northwestern portion of Bossier Parish. (station number 07349500; U.S. Geological Survey, 2008).

The primary purpose for the construction of the Bayou Bodcau Dam and Reservoir was for flood control. Local flood protection is derived through the substantial protection of 43,000 acres of alluvial bottomlands in the floodplain between the dam site and the limits of Red River backwater area. These areas were predominantly farmlands at the time of dam construction, but due to the population growth of Bossier Parish, most of these lands are now being used for residential development. The drainage area of 656 square miles above the dam site is approximately 57 percent of the total drainage area of the Bayou Bodcau-Red Chute-Flat River Basin.

The dam consists of four major features: the earth-filled embankment (dam), dike, spillway and outlet structure. The dam embankment is constructed of rolled earth fill 8,850 feet in length with a crest elevation of 230 feet msl and a crown width of 30 feet. The maximum height above the

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streambed is 76 feet. The spillway is comprised of a weir, south abutment, north abutment and outlet channel. The spillway's crest elevation is 219 feet msl with a width of 4,000 feet. The outlet structure consists of an approach, an uncontrolled intake, twin conduits, stilling basin with splitter wall, outlet channel and appurtenant drainage systems. The elevation of the bottom of the approach and intake is 157.0 feet msl.

The reservoir is subject to extreme fluctuations and when the water level is near 157.0 feet msl, water is retained only in the stream proper. Historical stage-frequency data generated by the USGS for Bodcau Bayou is presented in Appendix H. The reservoir will be evaluated as a potential source of raw water in Phase IV.

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6.0 Water Law and Compacts

6.1 General

This section will discuss the water laws of Louisiana and major water compacts that deal with the water allotments in Louisiana, in particular the Red River Compact.

6.2 Louisiana Water Law

Louisiana law treats surface water and ground water as completely distinct from one another. Louisiana has traditionally followed the legal doctrine of riparianism for surface water and absolute ownership for ground water. Both of these will be discussed in detail below.

6.3 Groundwater Rights

Although Louisiana's groundwater law is not clear, Louisiana is generally considered an absolute ownership state. There are only a few instances where groundwater law has been addressed. Article 490 of the Louisiana Civil Code seems to be consistent with the absolute ownership law by stating that a landowner owns everything on, above or below his land. However, in respect to groundwater, the courts have interpreted this article to mean that a landowner does not have absolute ownership, but only owns the water after he has captured it. Article 667 says that although a landowner may do with his estate whatever he pleases, still he cannot harm his neighbor. This Article appears to restrict absolute ownership, but it is questionable as to whether or not this Article can be applied to the use of groundwater. Along with these Articles, Section 8 of the Mineral Code also addresses the ownership of groundwater. The Mineral Code treats groundwater as a mineral and goes along with the court's interpretation of Article 490 saying that a landowner does not actually own the water below his land but only owns it once he has pumped it out of the ground. (Louisiana State University Agricultural Center, Groundwater rights in Louisiana).

Recently, the Louisiana Legislature granted the Commissioner of Conservation the following powers associated with the management of groundwater resources:

Powers Granted to the Commissioner of Conservation

- Require well registration, plugging, construction and abandonment standards
- Evaluate notifications to drill
- Place restrictions on withdrawals
- Determine areas and critical areas of groundwater concern

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There is a pressing need for Louisiana to develop a comprehensive water management plan in order to clarify water rights for the users of Louisiana as well as protect this valuable resource for future users.

6.4 Surface Water Law

Historically, Louisiana law has fallen in line with the riparian traditions that underlie most surface water laws in the eastern half of the United States. This domain of the legal doctrine of "riparianism," affords rights of reasonable use to the owners of land abutting flowing waters. Riparianism is the right of a landowner adjacent to a flowing stream to use the waters of that stream for certain purposes. At one time, those uses were restricted to subsistence purposes such as cooking, drinking, and watering stock. Water could not be used off the riparian tract or in a different hydrologic basin. Commercial uses were forbidden and the "natural flow" of the stream (its fundamental quality and quantity) could not be degraded. These riparian rights did not create a property interest in the water itself but rather a right of use that is appurtenant to the ownership of riparian lands.

Louisiana, traditionally a riparian water rights state, long has had some regulation of ground water but virtually none of surface water. If you could find a way to take some, without damaging endangered fish or wildlife and without interfering with navigation, you could do it. With the increased demand for raw water in northern Louisiana, domestic, industrial, oil and gas (hydraulic fracturing of the Haynesville Shale wells), a string of attorney general's opinions have declared that water in the state is a public asset and cannot be sold without some kind of permission. Some key opinions are provided below.

Year	Opinion	Summary
2008	(08-0176)	There is no right to private ownership of running waters in Louisiana.
2009	(09-0028)	If a lake's water is considered "running water," it is owned by the State.
2009	(09-0066)	Any sales of water must be for fair market value.
2009	(09-0291)	Political subdivisions of the State may only sell running waters with specific legislative authority.
2010	(10-0173)	A riparian owner may access and "use" running water for his estate, but the water remains a public thing owned by the State.
2010	(10-0289)	Statutory language that authorizes a political subdivision to "regulate the use of water" establishes regulatory control over the waters, but does not grant any rights with regard to selling the waters at issue.
2010	(10-0297)	The Sabine River Authority has a special statutory exemption from the limitations set in Opinion 10-0173.

Source: Louisiana Ground Water Resources Commission, Managing Louisiana's Groundwater Resources.

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In 2010, Act 955, Louisiana Revised Statue Title 30, Chapter 9-B, Sections 961, 962 and 963 (refer to Appendix K), was adopted by the Louisiana Legislature which gave the Department of Natural Resources the following responsibilities related to the state's surface water resources:

Powers Granted to the Department of Natural Resources

- Management, preservation, conservation, and protection of running surface waters of the state
- Develop Cooperative Endeavor Agreements (CEA's) for surface water withdrawals
- Enter into CEA's with applicants

Act 994, Louisiana Revised Statute 9:1103 (refer to Appendix L), was also approved by the legislature in 2010. This Act allowed riparian rights to be applied towards agricultural and aquacultural purposes. (Louisiana Ground Water Resources Commission, Managing Louisiana's Groundwater Resources.)

6.5 Red River Compact

The Red River Compact was approved and ratified in 1978 by the States of Arkansas, Louisiana, Oklahoma and Texas. According to Article 1 of the Red River Compact, its principal purposes are:

- To promote interstate comity and remove causes of controversy between each of the affected states by governing the use, control and distribution of the interstate water of the Red River and its tributaries;
- To provide an equitable apportionment among the Signatory States of the water of the Red River and its tributaries;
- To promote an active program for the control and alleviation of natural deterioration and pollution of the water of the Red River Basin and to provide for enforcement of the laws related thereto;
- To provide the means for an active program for the conservation of water, protection of lives and property from floods, improvement of water quality, development of navigation and regulation of flows in the Red River Basin; and
- To provide a basis for state or joint state planning and action by ascertaining and identifying each state's share in the interstate water of the Red River Basin and the apportionment thereof.

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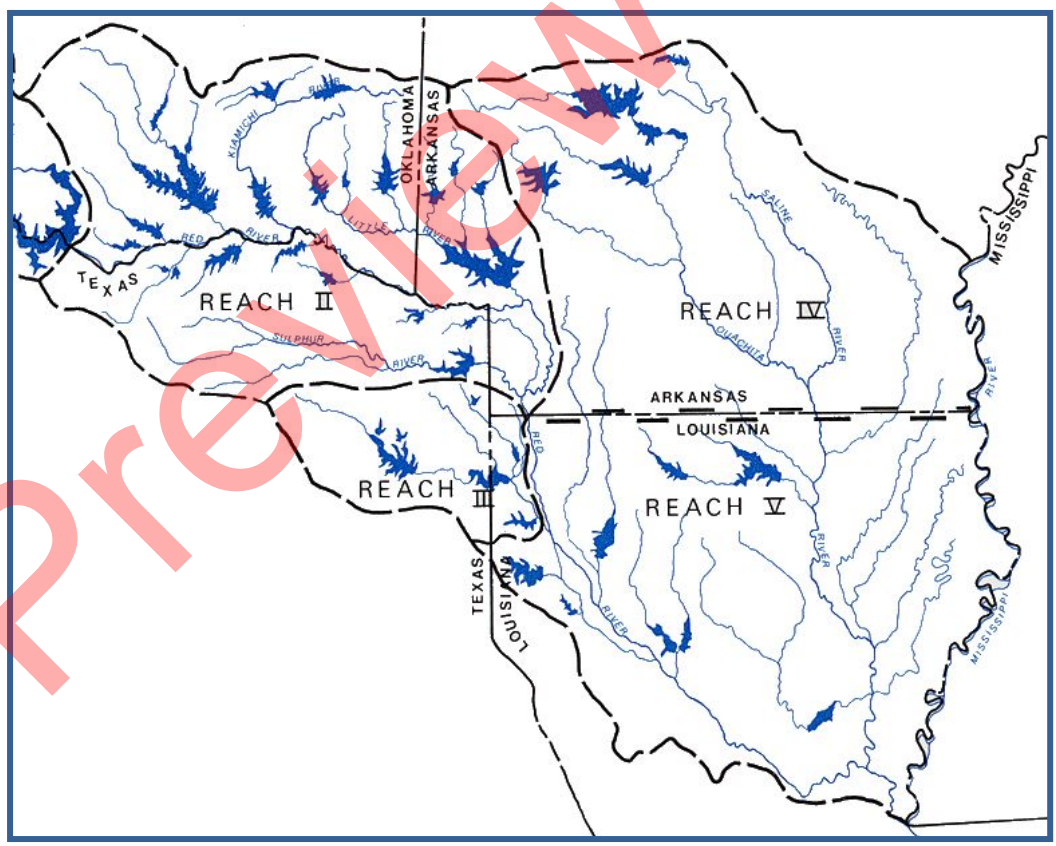
Under the Red River Compact, the Red River was divided into five major subdivisions for the purposes of apportionment of water among the States of Arkansas, Louisiana, Oklahoma and Texas as follows:

- Reach I - the Red River and tributaries from the New Mexico-Texas state boundary to Denison Dam;
- Reach II - the Red River from Denison Dam to the point where it crosses the Arkansas-Louisiana state boundary and all tributaries which contribute to the flow of the river within this reach;
- Reach III - the tributaries west of the Red River which cross the Texas-Louisiana state boundary, the Arkansas-Louisiana state boundary, and those which cross both the Texas-Arkansas state boundary and the Arkansas-Louisiana state boundary;
- Reach IV - the tributaries east of the Red River in Arkansas which cross the Arkansas-Louisiana state boundary; and
- Reach V - that portion of the Red River and tributaries in Louisiana not included in Reach III or in Reach IV.

Figure 6-1, Red River Compact Reach II-V



Source: Red River Compact Commission, Oklahoma

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Each reach was further subdivided into topographical sub-basins for water allocation. The complete Red River Compact information is contained in Appendix M.

6.6 Caddo Lake Compact

The States of Texas and Louisiana negotiated a compact in 1979 to augment and amplify the provisions of the Red River Compact dealing with Caddo Lake in the interest of equitable apportionment and use of Caddo Lake water. The Caddo Lake Compact was not intended to amend, replace, or supersede any provisions of the Red River Compact, but was to be construed harmoniously with the Red River Compact. The purpose of the Caddo Lake Compact was to preserve and protect Caddo Lake as a valuable environmental, cultural and natural resource and enhance water resource and recreational potentials, while allowing the utilization of Caddo Lake for the water needs of adjacent portions of Louisiana and Texas.

The Caddo Lake Compact contains regulations and rules for the dedication and diversion of dedicated water from Caddo Lake. The Caddo Lake Compact includes language on the official administration of the Compact by the States of Texas and Louisiana, and water operating rules in the event that the existing spillway is raised. One provision of the Caddo Lake Compact was the proposal to raise the spillway elevation of Caddo Lake to an elevation of 170.5 feet above mean sea level from the existing spillway elevation of 168.5. To date, the Caddo Lake Compact for Louisiana and Texas has not been approved by the respective state legislatures nor has the elevation of the spillway been raised. The Caddo Lake Compact can be found in Appendix N.

Further evaluation of the Caddo Lake Compact is recommended to determine proprietary information relative to the short and long term availability of Caddo Lake as a dependable water source for the region.

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7.0 Current and Future Surface Water Projects

7.1 General

Several current and future projects have been identified that will use raw water from the Red River or other surface water sources for municipal water supply. These projects are briefly discussed in this section.

7.2 City of Bossier City Water Treatment Plant Expansion

The water system for Bossier City is the only public water system withdrawing directly from the Red River. The Bossier City System is currently rated to withdraw 25 MGD from the Red River. There is a plant expansion under construction that will expand this withdraw from 25 MGD to 45 MGD.

7.3 City of Shreveport Water Treatment Plant Expansion

The City of Shreveport (COS) recently completed a pump system to pump water from Twelve Mile Bayou in order to supplement its raw water supply from Cross Lake. In addition, the COS looked into expanding its treatment capabilities to include a 20 MGD plant using water from the Red River. The study called the "Cross Lake Water Supply Assessment" was in conjunction with the USACE; with the COS as the study sponsor and Caddo Parish providing some funding. The study was to address water supply problems and needs for the Shreveport area and Caddo Parish based on projected growth and development and the need for additional facilities to meet future requirements. The study was intended to look at the availability and suitability of the Red River as a source of freshwater.

7.4 Red Bayou Irrigation Project

The Red Bayou Irrigation Project is currently under construction. The project is estimated to transfer approximately 333 cubic feet per second of water from the Red River to Red Bayou for irrigation as identified in the "Red Bayou Irrigation Feasibility Study Hydraulic Analysis" performed by the USDA NRCS.

7.5 City of Blanchard Water Treatment Plant Expansion

Blanchard Water System currently has plans to expand its treatment capacity, thus withdrawing additional water from Caddo Lake. The City of Blanchard is currently expanding its 1.75 MGD treatment facility to 5 MGD. The City has plans to provide water to Mooringsport, East Mooringsport, East Cove, and Lakeview.

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8.0 Water Quality

8.1 General

Water quality for each of the major water sources for Caddo and Bossier Parishes are discussed in this section.

8.2 Groundwater

Water quality information for the following aquifers is described below. Water quality information was obtained from the technical report titled "Ground-Water Resources of Caddo Parish, Louisiana, 1992". Water quality information obtained from the report was a combination of historical data on file with the USGS and data collected from wells in 1992 by the USGS in cooperation with the Louisiana Department of Transportation and Development.

8.2.1 Carrizo-Wilcox Aquifer

More than 75 percent of the chloride and iron concentrations for the Carrizo-Wilcox aquifer in the study area were below the U.S. Environmental Protection Agency's secondary maximum contaminant levels. More than 90 percent of the nitrate concentrations were below the U.S. Environmental Protection Agency's secondary maximum contaminant level. Dissolved-solids concentrations for the Carrizo-Wilcox aquifer were not plotted due to insufficient data. Water from fewer than 25 percent of all wells sampled that were completed in the Carrizo-Wilcox aquifer contained chloride concentrations greater than 600 mg/L. These high chloride concentrations were in water from wells completed in the bottom-zone sands that have not been flushed with freshwater. A substantial percentage of the Carrizo-Wilcox aquifer has not been flushed of saltwater; therefore, few wells completed in these saltwater sands.

Water quality varies both laterally and vertically in the Carrizo-Wilcox aquifer as a result of the hydrogeologic factors that affect freshwater recharge from the regional flow system. North of the Sabine uplift's apex a general trend of increasing chloride with depth is indicated by the geophysical logs of oil-test wells completed in the area. Water samples from the few water wells completed in the deep Wilcox sands had chloride in the area. Water samples from the few water wells completed in the deep Wilcox sands had chloride concentrations exceeding the U.S. Environmental Protection Agency's secondary maximum contaminant level of 250 mg/L (for seven samples, the maximum concentration was 510 mg/L). A general trend of decreasing resistivity with increasing depth was apparent in these deep sands; however, close inspection of the oil-test well geophysical logs indicates some deep sands are receiving higher rates of flow from freshwater recharge than nearby sands and have low dissolved-solids concentrations (high resistivity water).

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8.2.2 Sparta Aquifer

Water in the Sparta aquifer generally is a soft sodium bicarbonate type. The dissolved-solids concentrations across the Mississippi Embayment range from 20 to 1,510 mg/L, but the median value of 218 mg/L indicates that the water generally is moderately mineralized (Hosman and others, 1968, p. 19). Water withdrawn from the Sparta aquifer west of Caddo Parish in Sabine and San Augustine Counties in Texas is so highly mineralized that further development of the aquifer in this area has been limited (Baker and others, 1963, p. 43-44). Water from observation well Cd-7255Z in extreme northern Caddo Parish had a dissolved-solids concentration of 74 mg/L and a pH of 6.0. A pH of 6.0 in water from the well was slightly acidic, which is expected for a well completed in an aquifer's recharge area. Ground water pumped from an aquifer's recharge area tends to have slightly higher levels of organic acids in solution due to dissolution of buried organic matter (Freeze and Cherry, 1979, p. 241). As with the Red River Alluvial aquifer, local petroleum industry activity related to exploration and production could have a substantial effect on water quality in shallow Sparta sands (Whitfield, 1980, p. 23).

8.2.3 Red River Alluvial Aquifer

Water in the Red River Alluvial aquifer may be classed as generally unsuitable for domestic, municipal, and industrial use because of the high concentrations of iron (greater than 300 µg/L) and high hardness of water (Page and May, 1964, p.33). Generally, the concentrations of sodium in water from the Alluvial aquifer are less than 20 mg/L, although five areas have been mapped where sodium concentrations exceed 50 mg/L. Although chloride concentrations at specific locations in the Alluvial aquifer exceed 350 mg/L, more than 90 percent of the chloride-concentration data are less than the secondary maximum contaminant level of 250 mg/L. More than 75 percent of all wells sampled for dissolved-solids concentrations exceeded the secondary maximum contaminant level of 500 mg/L. More than 90 percent of all water sampled from wells in the Alluvial aquifer had dissolved-iron concentrations that exceeded the secondary maximum contaminant level of 300 µg/L. Generally, concentrations of nitrate in water from the Alluvial aquifer are less than the secondary maximum contaminant level of 10 mg/L as N (Nitrogen).

8.2.4 Cane River Aquifer

Water from wells completed in the Cane River aquifer generally is clear and soft, but sometimes high concentrations of iron occur locally (Page and May, 1964, p. 45). Because this aquifer has experienced little development by water users in northern Caddo Parish, little water-quality data are available for this aquifer in the study area. Data from three producing water wells completed in the Cane River aquifer provide water-quality information that may be representative of that part of the aquifer within the study area. Water from one well contained a dissolved-iron concentration of 39 µg/L. Water sampled from another well contained a dissolved-iron concentration of 1,500 µg/L, which exceeds the U.S. Environmental Protection Agency's secondary maximum contaminant level of 300 µg/L.

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8.3 Surface Water

8.3.1 Caddo Parish

Surface water quality information for water sources in Caddo Parish was obtained from various sources and is presented in this section. A portion of the 2010 Louisiana Department of Environmental Quality (LDEQ) Water Quality Integrated Report, which contains: designated water body uses, support codes, impaired use, suspected causes, etc. for water bodies in Caddo Parish are contained in Appendix P.

8.3.1.1 Cross Lake

The USGS prepared a Water Resources Report in cooperation with the City of Shreveport to access the water quality and bottom material characteristics of Cross Lake. The report describes the overall water quality of Cross Lake and the occurrence of minor elements in the water column and bottom material. Samples from the water column were collected at 10 sites. The sites were sampled seasonally (4 times per year) from February 1997 to February 1999. Water-column samples were analyzed for physical and chemical-related properties such as temperature, pH, dissolved oxygen, and specific conductance; major inorganic ions; nutrients; minor elements; synthetic organic chemical constituents such as pesticides, polychlorinated biphenols (PCB's), and phenols; and biologically-related properties such as biochemical oxygen demand (BOD), chlorophyll-a and b, turbidity, and fecal coliform and fecal streptococci bacteria. Suspended-solids samples were collected from the sites on seven occasions during the sampling period. Bottom-material samples were collected once from the sites. Bottom-material samples were analyzed for selected minor elements and inorganic carbon.

Cross Lake is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, Drinking Water Supply and Agricultural Use. LDEQ has classified Cross Lake as "fully supporting" its designated use in all categories (LDEQ, 2010) and therefore is considered a treatable drinking water source. In addition, no primary Federal or State water-quality criteria were exceeded by any of the water-quality constituents analyzed for the above mentioned Water Resources Report. Concentrations of major inorganic constituents, except iron and manganese, were low. Water from the lake is a sodium-bicarbonate type and is soft. Minor elements and organic compounds were present in low concentrations, many below detection limits.

Nitrogen and phosphorus were the nutrients occurring in the highest concentrations. Nutrients were evenly distributed across the lake with no particular water quality site indicating consistently higher or lower nutrient concentrations. No water samples analyzed for nitrate exceeded the U.S. Environmental Protection Agency's Maximum Contaminant Level of 10 mg/L.

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Based on nitrogen to phosphorus ratios calculated for Cross Lake, median values for all water-quality sites were within the nitrogen-limited range (less than or equal to 5). Historical Trophic State Indexes for Cross Lake classified the lake as eutrophic. Recent (1998-99) Trophic State Indexes classify Cross Lake as mesotrophic-eutrophic, which might indicate a reduction in eutrophication. Sedimentation traps indicate that Cross Lake is filling at an average rate of 0.41 inch per year.

Concentrations of fecal-coliform and streptococci bacteria generally were low. Fecal coliform was detected in higher concentrations than fecal streptococci. High bacteria concentrations were measured shortly after rainfall-runoff events, possibly washing bacteria from surrounding areas into the lake.

8.3.1.2 Caddo Lake

Caddo Lake is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, Drinking Water Supply and Agricultural Use. LDEQ has classified as "fully supporting" its designated use in all categories with the exception of Fish and Wildlife Propagation (LDEQ, 2010) and therefore Caddo Lake is considered a treatable drinking water source. The suspected cause of the "not supporting" for Fish and Wildlife Propagation, was mercury in fish tissue and the suspected sources of the impairment are listed as Atmospheric Deposition-Toxics and Source Unknown (LDEQ, 2010).

Caddo Lake water has occasionally exceeded State and Federal water quality criteria. The lake waters have exceeded the drinking water criteria for chloride and the dissolved oxygen has dropped below the freshwater fish criteria of 5.0 mg/L. Low dissolved oxygen is found in the swampy region in the northwestern part of the lake and near the bottom in the main lake. The EPA's maximum contamination level (MCL) for copper, iron, and manganese have also been exceeded.

A 1985 water supply study by the Vicksburg District of the United States Army Corps of Engineers (USACE) reported trace levels of several trinitrotoluene (TNT) derivatives in the surface waters of Caddo Lake. The Longhorn Ammunition Plant in Karnack, Texas, used TNT extensively in the 1940's. The drainage from the ammunition plant enters Caddo Lake through Goose Prairie and Harrison Bayous. Although TNT was not detected in Caddo Lake sediments, the study recommended that any future studies look for TNT and its derivatives in the waters and sediments.

In August 1982, three sediment and water samples were collected by the Texas Department of Water Resources (TDWR). Ten additional sediment and water samples were collected by the USACE, Fort Worth District, in December 1982. Of the three stations sampled by the TDWR, only one station detected any PCB's. This station was located in the upper portion of Caddo Lake

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and contained the highest concentration ever reported in the lake, 676 µg/kg. Of the ten samples collected by the USACE, four reported detectable levels of PCB's. The four stations were scattered throughout Caddo Lake. The station reporting the highest concentration, 23.4 µg/kg, was in Goose Prairie Bayou. PCB's were reported only twice in the water column (5.06 and 0.17 µg/L) from sampling by TDWR and the USACE in 1982.

The 1991-92 USGS and USACE study of water and sediments in this area indicated that exceedances of temperature, pH, and dissolved oxygen criteria occurred occasionally in Caddo Lake. Dissolved oxygen profiles frequently reported readings near saturation at the surface, with concentrations quickly falling below the criteria of 5.0 mg/L below the water surface. Phosphorus concentrations were high, with average values of 0.05 to 0.06 mg/L. No priority pollutants were detected in the water column, and, with the exception of iron, no metals were found to exceed drinking water standards in Caddo Lake.

The 1991-92 sediment analysis of Caddo Lake indicate that lead, mercury, nickel, and zinc are present in low levels and may be of some concern. No BNA compounds, PCBs or explosives were detected in the sediments, however trace amounts of several PAH's and the pesticide p'p'DDT were found. The VOA compound, toluene was detected at one site in Caddo Lake at a concentration of 0.39 mg/kg.

8.3.1.3 Twelve Mile Bayou

Twelve Mile Bayou is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, Drinking Water Supply and Agricultural Use. LDEQ has classified Twelve Mile Bayou as "fully supporting" its designated use in all categories (LDEQ, 2010) and therefore Twelve Mile Bayou is considered a treatable drinking water source.

Twelve Mile Bayou is located below the Caddo Lake Spillway. Nutrient, metals and pesticide data has been collected for Twelve Mile Bayou semiannually by USGS since 1979. The result of these studies indicates that water quality in Twelve Mile Bayou varies considerably on a seasonal basis. The water quality is generally good when water is flowing over Caddo Lake Dam. During the summer and fall, water releases from Caddo Lake are minimal and the water quality is significantly reduced. The dissolved mineral content increases and the conductivity can exceed 2,000 micromhos per centimeter. The source of the dissolved solids, primarily sodium chloride, is Black Bayou which drains the area northeast of Caddo Lake. In addition to seasonally high dissolved solids, Twelve Mile Bayou frequently has high levels of dissolved iron and manganese and occasional high levels of dissolved copper. High mean levels of fecal streptococci and fecal coliform bacteria have been reported. Past studies have found trace amounts of TNT derivatives in the surface water and sediments of Twelve Mile Bayou (USACE, 1985).

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A joint study by USGS and the USACE in 1991 and 1992 of water and sediments in the area indicated that Twelve Mile Bayou has high levels of nutrients and coliform bacteria in the water column. Phosphorus was reported as having an average concentration of 0.08 mg/L and average coliform bacteria levels exceeded the criteria of 200 colonies per 100 ml at the lower end of the bayou. Iron exceeded the domestic water supply criteria occasionally, but no other exceedances of water quality criteria were reported.

Sediment samples from the 1991-92 survey indicated that heavy metals, BNA and VOA compounds, PAH, PCB and explosives contamination was not present in this segment. One pesticide, p'p'DDE, was detected in the sediments of Twelve Mile Bayou at a concentration of 0.029 mg/kg.

8.3.1.4 Red River

Water quality in the Red River basin in Louisiana was investigated as part of a statewide investigation to evaluate water quality conditions in the major surface water drainage basins in Louisiana. The results were published in the report titled "Statistical Summary of Surface Water Quality in Louisiana-Red River Basin, 1943-1994". The water-quality conditions in the Red River basin were evaluated using data collected from 61 sites during the water years 1943-1994. The water quality of the Red River changes seasonally with higher turbidities typically occurring in the spring.

The Red River is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, Drinking Water Supply and Agricultural Use. LDEQ has classified the Red River as "fully supporting" its designated use in all categories (LDEQ, 2010) and therefore the Red River is considered a treatable drinking water source.

The physical properties varied for surface waters in the basin. The specific conductance values ranged from 15 to 21,300 microsiemens per centimeter at 25 degrees Celsius. The medium values for specific conductance ranged from 21 to 3,250 microsiemens per centimeter.

Values for pH in water from the basin were occasionally less than 6.5, the lower limit of the U.S. Environmental Protection Agency's recommended range for freshwater aquatic life. Median values for water temperature ranged from 11.2 to 22.5 degrees Celsius.

Dissolved oxygen concentrations were greater than the State's minimum water quality criterion of 5.0 milligrams per liter in more than 75 percent of the samples analyzed at most sites. However, the statistical data indicated that five percent of the samples collected at Red River at Alexandria, Louisiana, typically had dissolved oxygen concentrations of less than 5 mg/L.

The data for major inorganic cations and anions in water from the basin indicated that concentrations of major ions were below recommended levels for drinking water, for which such

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levels have been established. However, there were periodic high concentrations of sodium and chloride at Twelve Mile Bayou near Dixie, LA (Statistical Summary of Surface Water Quality in Louisiana-Red River Basin, 1943-1994).

The available data for trace metals indicated that dissolved copper, lead and zinc were less than the maximum contaminant levels of the U.S. Environmental Protection Agency's primary and secondary drinking water regulations. Iron concentrations in water from the basin often exceeded 300 micrograms per liter, which is the criterion for domestic water supplies. However, iron concentrations occasionally exceeded the agency's criterion of 1,000 micrograms per liter for freshwater aquatic life.

Median concentrations of ammonia plus organic nitrogen were found as nitrogen ranged from 0.6 to 1.2 mg/L. Median concentrations of total phosphorus at the rivers and bayous ranged from less than 0.054 to 0.21 mg/L.

The available data for selected organic chemical compounds indicated concentrations of pesticides, except diazinon and 2,4-D, only occasionally exceeded their detection levels. Diazinon and 2,4-D were detected at more sites and with greater frequency than any of the other organic compounds that were analyzed. However, low-level concentrations of other organic compounds were occasionally detected at other sites.

The median rations of fecal coliform to fecal streptococcus bacteria were less than 0.7 for most of the sites within the Red River basin, indicating that sources of fecal bacteria probably were predominantly livestock or poultry wastes. However, additional samples closer to the potential source of contamination need to be collected and analyzed to confirm these results. Phytoplankton varied greatly at sites in the basin due to the seasonal influence. Phytoplankton concentrations ranged from 0 to 1,700,000 cells per milliliter.

8.3.1.5 Toledo Bend Reservoir

Water quality information for Toledo Bend Reservoir was obtained from the Sabine River Authority of Texas and the Sabine River Authority of Louisiana. The results of the Authorities' monitoring program and data collected by the LDEQ demonstrate that water is normally in compliance with Louisiana numeric water quality standards.

Toledo Bend Reservoir is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, Drinking Water Supply and Agricultural Use and is classified as "fully supporting" its designated use in all categories with the exception of Fish and Wildlife Propagation (LDEQ, 2010). The suspected causes of the "not supporting" for Fish and Wildlife Propagation were mercury in fish tissue and non-native aquatic plants. The suspected sources of the impairment are listed as Atmospheric Deposition-Toxics,

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Source Unknown and Introduction for mercury and non-native organisms (accidental or intentional) for non-native aquatic plants (LDEQ, 2010).

Toledo Bend Reservoir is a monolithic lake that thermally stratifies during the summer and mixes in the fall (Lantz, 1981). Maximum temperatures measured in the epilimnion (0.3 meters from surface) during monthly reservoir water quality data collection at the nine reservoir monitoring sites from 2009 and 2010 showed that the Louisiana maximum temperature criterion (34°C or 93°F) was not exceeded in the Toledo Bend Reservoir during 2009-2010.

The Louisiana minimum dissolved oxygen criterion is 5 mg/L. The dissolved oxygen measured in the reservoir's mixed surface layer from 2009 and 2010 was measured below the 5 mg/L criterion during only three instances at stations located in Louisiana. These conditions are typical of a stratified reservoir in warmer climates, and the number of exceedances is within the allowable percentage for Fish and Wildlife Propagation uses in Louisiana (LDEQ, 2010).

pH is the concentration of hydrogen ions in the water column and is a measurement of the acidity or basicity of water. During 2009 and 2010 monthly water quality sampling at the nine reservoir sites, pH ranged from less than 6.7 to 9.2 units. pH exceedances were observed at five of the water quality stations on a few occasions, primarily at the mid-reservoir sites during summer months.

Turbidity monthly water quality sampling for this period ranged from less than 1 up to 43 NTU. Calculated total dissolved solids (TDS) ranged between 75 and 119 mg/L for the same time period, which is below the water quality criteria of 500 mg/L (Louisiana) for the Toledo Bend Reservoir. These levels are consistent with historical records.

Secchi depth is a measure of the clarity of the water column. Secchi depths across the nine monitoring sites between January 2009 and December 2010 were between 0.32 and 2.6 meters, and are typical of a mesotrophic lake.

The trophic state of Toledo Bend Reservoir is mesotrophic. Mesotrophic reservoirs have medium levels of nutrients, moderate algal growth usually with a diverse plankton community and often significant submerged aquatic plant growth. Louisiana does have numeric water quality criteria for nutrients, but nutrient concentrations are useful to evaluate the potential for algal and aquatic plant growth, which are one of the main factors governing water quality.

Nitrogen and phosphorus are the major nutrients that influence algal growth in freshwaters (Reckhow and Chapra, 1983). Phosphorus is typically the limiting nutrient because it is in shorter supply than nitrogen relative to the nutrient needs of algae (Thomas and Mueller, 1987). Excessive concentrations of these nutrients may cause algal blooms and/or aquatic plant growth. Dissolved oxygen concentrations can decrease in the bottom of the reservoir from decay and biological processing of algal biomatter.

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8.3.2 Bossier Parish

Surface water quality information for water sources in Bossier Parish was obtained from various sources and is presented in this section. A portion of the 2010 LDEQ Water Quality Integrated Report, which contains: designated water body uses, support codes, impaired use, suspected causes, etc. for water bodies in Bossier Parish are contained in Appendix P.

8.3.2.1 Red River

See Section 8.3.1.4.

8.3.2.2 Lake Bistineau

Lake Bistineau is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, and Agricultural Use and is classified as "fully supporting" its designated use in all categories with the exception of Fish and Wildlife Propagation (LDEQ, 2010). The suspected causes of the "not supporting" for Fish and Wildlife Propagation were mercury in fish tissue, dissolved oxygen and non-native aquatic plants. The suspected sources of the impairment are listed as Atmospheric Deposition-Toxics and Source Unknown for mercury, introduction of non-native organisms (accidental or intentional) and source unknown for non-native aquatic plants, and source unknown for dissolved oxygen (LDEQ, 2010).

Lake Bistineau is not currently designated for Drinking Water Supply by LDEQ and therefore is not considered a drinking water supply source without further analysis of the lake's water quality.

8.3.2.3 Cypress Bayou Reservoir

Cypress Bayou Reservoir is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, Drinking Water Supply and Agricultural Use. LDEQ has classified Cypress Bayou Reservoir as "fully supporting" its designated use in all categories with the exception of Fish and Wildlife Propagation and Drinking Water Supply (LDEQ, 2010). The suspected causes of the "not supporting" for Drinking Water Supply, was color and the suspected source of impairment is natural sources but further water quality analysis is recommended prior to future planning efforts. The suspected sources of the impairment for Fish and Wildlife Propagation were dissolved oxygen and the sources of impairment were listed as source unknown and natural conditions-water quality standards use attainability analysis needed (LDEQ, 2010). Although Cypress Bayou Reservoir is classified "not supporting" for Drinking Water Supply due to the above referenced impairments, it is considered a drinking water source with appropriate treatments.

Water quality information for Cypress Bayou Reservoir was obtained from the "Bathymetric Survey and Physical and Chemical-Related Properties of Cypress Bayou Reservoir, Louisiana,

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October 1997 and August and September 1998". Data on physical and chemical related properties were collected along a vertical profile from above the reservoir bed to 1.6 feet below the water surface, with additional sampling points within the stratification zone. The deepest measurements at the three sampling sites were as follows: 13.8 feet at site 1, 17.4 feet at site 2, and 20 feet at site 3. Water temperature remained constant at approximately 85 degrees Fahrenheit from the surface to approximately 18 feet in depth, then decreased more rapidly with depth, with the deepest measurement of 76 degrees Fahrenheit at 20 feet.

The dissolved oxygen concentration profiles showed stratification occurring at depths of 12 and 18 feet. Concentrations of dissolved oxygen decreased more rapidly within this range, with shallow water dissolved oxygen concentrations varying between 4.9 to 5.3 milligrams per liter and bottom water dissolved oxygen concentrations of approximately 0.24 milligrams per liter. Concentrations of dissolved oxygen vary considerably with depth, location and season. The criterion for dissolved oxygen is 5 milligrams per liter for freshwater aquatic life (LDEQ, 1998, p. 128; U.S. Environmental Protection Agency, 1976; 1986). Water visibility, measured with a Secchi disk, was 2.4 feet.

The specific conductance remained constant at 63 microsiemens per centimeter at 25 degrees Celsius from the surface to about 18 feet, then increased with depth with the highest measurement of 157 microsiemens per centimeter at 20 feet. The pH was about 6.3 near the surface to a depth of about 16 feet, then pH increased with depth with the highest measurement of 6.8 recorded at 20 feet.

The water quality assessment status for reporting year 2010 by the U.S. Environmental Protection Agency for Cypress Bayou Reservoir reported the status of "impaired" for the designated use group of public water supply for Cypress Bayou Reservoir. Causes of Impairment listed for 2010 were color and possible sources for impairment were attributed to natural causes and wildlife.

8.3.2.4 Black Bayou Reservoir

Black Bayou Reservoir is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation, Drinking Water Supply and Agricultural Use. LDEQ has classified Black Bayou Reservoir as "fully supporting" its designated use in all categories with the exception of Drinking Water Supply (LDEQ, 2010) and therefore Black Bayou Reservoir is considered a treatable drinking water source. The suspected causes of the "not supporting" for Drinking Water Supply, was color (LDEQ, 2010) but further water quality analysis is recommended prior to future planning efforts.

Water quality information for Black Bayou Reservoir was obtained from the "Bathymetric Survey and Physical and Chemical-Related Properties of Black Bayou Reservoir, Louisiana,

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September and October 1997". Data on physical and chemical related properties were collected on September 24, 1997 at selected sites in Bayou Black Reservoir. Data was collected along a vertical profile from above the reservoir bed to 1.6 feet below the water surface, with additional sampling points within the stratification zone. The deepest measurements at the three sampling sites were as follows: 11.8 feet at site 1, 13.8 feet at site 2, and 14.8 feet at site 3. Water temperature remained constant at approximately 80°F from the surface to approximately 10 feet in depth, then decreased more rapidly with depth, with the deepest measurement of 75°F at 14.8 feet.

The dissolved oxygen concentration profiles showed stratification occurring at a depth between 10 and 14 feet. Shallow-water dissolved oxygen concentrations ranged from 3.5 to 4.3 mg/L, and bottom-water dissolved oxygen concentrations ranged from 0.24 to 0.98 mg/L. Dissolved oxygen concentrations vary considerably with depth, location, and season (Demas, 1985). The criterion for dissolved oxygen is 5 mg/L for freshwater aquatic life (LDEQ, 1998, p. 128; U.S. Environmental Protection Agency, 1976; 1986). Water visibility, measured with Secchi disk, was 2.4 feet.

The specific conductance remained constant at 61 mS/cm (microsiemens per centimeter at 25 degrees Celsius) from the surface to approximately 10 feet. Below 10 feet, the specific conductance increased with depth to 143 mS/cm at 14.8 feet, which was the deepest measurement.

8.3.2.5 Bodcau Bayou

Bodcau Bayou is currently designated by LDEQ for Primary Contact Recreation, Secondary Contact Recreation, Fish and Wildlife Propagation and Agricultural Use and is classified as "fully supporting" its designated use in all categories with the exception of Fish and Wildlife Propagation (LDEQ, 2010). The suspected sources of the impairment for Fish and Wildlife Propagation were dissolved oxygen and the sources of impairment were listed as natural conditions-water quality standards use attainability analysis needed (LDEQ, 2010). Bodcau Bayou is not currently designated for Drinking Water Supply by LDEQ and therefore is not considered a drinking water supply source without further analysis of the lake's water quality.

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9.0 Water Supply

9.1 General

Water supply in the northwest region of the state is primarily controlled by the Red River and its watershed, groundwater recharge rates and the seasonal patterns of the storm systems and the highly variable precipitation from year to year. Recognition of these temporal and geographic variations will play an integral part in water supply planning for the region and help facilitate the orderly use of the region's surface water resources so as to avoid a negative impact on its groundwater resources.

Caddo and Bossier Parishes have experienced severe droughts over recent years. The term "drought" is generally defined as a period of abnormally dry weather in which the available supply of water from precipitation, surface runoff, reservoir storage and/or groundwater declines to a level that may not reliably meet system demands.

Several deficiencies in water supply systems have been identified and will be further described in depth in Phase II of this study. Many domestic wells and groundwater wells serving smaller public systems have had inadequate capacity to meet current user demand or in some instances have gone dry in recent years. Information presented in this phase of the study shows that groundwater alone, as a drinking water source, is not sufficient to meet current demands during the ongoing drought or provide for future development in portions of Bossier or Caddo Parish. Phase II will identify specifically which public drinking water systems have experienced water source or production problems in recent years.

9.1.1 Current Demand/Water Use

Current demand and water use for Caddo and Bossier Parishes was compiled from 2 sources: reported USGS water use and per capita use estimations. Historical water use in Caddo and Bossier Parishes for public water supply was obtained from USGS information and is summarized in Table 9-1 and Table 9-2.

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Table 9-1, Caddo Parish Public Water Usage

CADDO PARISH (MGD)			
YEAR	PUBLIC SUPPLIES		TOTAL
	GROUND	SURFACE	
1960	0.57	18.1	18.67
1965	1.52	22.1	23.62
1970	1.3	24.9	26.2
1975	0.98	30.6	31.58
1980	1.23	35.9	37.13
1985	1.33	36.4	37.73
1990	0.99	38.12	39.11
1995	1.48	31.85	33.33
2000	1.13	46.89	48.02
2005	1.56	50.04	51.6
2010	1.77	45.56	47.33

Source: USGS Water Use Reports

Table 9-2, Bossier Parish Public Water Usage

BOSSIER PARISH (MGD)			
YEAR	PUBLIC SUPPLIES		TOTAL
	GROUND	SURFACE	
1960	0.24	3.5	3.74
1965	0.34	4.00	4.34
1970	0.43	4.02	4.45
1975	0.99	6.00	6.99
1980	0.97	6.24	7.21
1985	1.2	6.27	7.47
1990	1.32	7.49	8.81
1995	1.57	8.66	10.23
2000	2.04	9.69	11.73
2005	1.73	10.67	12.4
2010	2.15	10.24	12.39

Source: USGS Water Use Reports

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Water demand for Bossier and Caddo Parishes was estimated from United States Census population information for the year 2010 and is shown in Table 9-3. Detailed descriptions of these calculations will be provided in Phases III and IV.

Table 9-3, Domestic Water Use Estimate (Per Capita)

Year (2010)	Population	Annual Average Day (MGD)	Maximum Day (MGD)	Maximum Hour (MGD)
CADDO	254,969	48.4	87.2	140.5
BOSSIER	116,979	16.4	29.5	47.5

9.1.2 Groundwater

The dominant groundwater source in both parishes is the Carrizo-Wilcox aquifer. Several factors have to be considered when evaluating the groundwater resources of this aquifer in Bossier and Caddo Parishes. These factors include the general hydrogeology, aquifer parameters, previous withdrawals (especially large cones of depression), water quality, climate (droughts), previous groundwater studies and aquifer monitoring. Caddo Parish has a few previous studies that are helpful in evaluating several of these factors, but a current monitoring well program to evaluate water levels and water quality is especially helpful for determining future water resources. Although this study is located in Caddo Parish, comparisons can be drawn for the Carrizo-Wilcox aquifer in Bossier Parish.

9.1.2.1 Caddo Parish Carrizo-Wilcox Monitoring Well Project

In July 2007, the Red River Watershed Management Institute at LSU Shreveport teamed up with the Caddo Parish Department of Public Works to develop a water well monitoring network throughout the Parish. In Phase I of the monitoring well project, five wells were drilled and developed on Caddo Parish property (Figure 9-1). Well location selection criteria also included areas where future growth was expected and/or areas where potential water shortages were possible. One well, at Walter B. Jacobs Park, was located in a relatively undeveloped area in order to serve as a background monitoring site (Figure 9-1, Well 1). Sampling and monitoring protocol included recording monthly water levels and quarterly water quality sampling for all five wells. At about the same time the Haynesville Shale Gas Play developed in Caddo Parish.

The second phase of the Caddo Parish/LSUS monitoring well project began in October 2010 with the drilling and development of 5 more Carrizo-Wilcox wells. This brought the total well count to ten. The locations of all 10 monitoring wells are shown in Figure 9-1.

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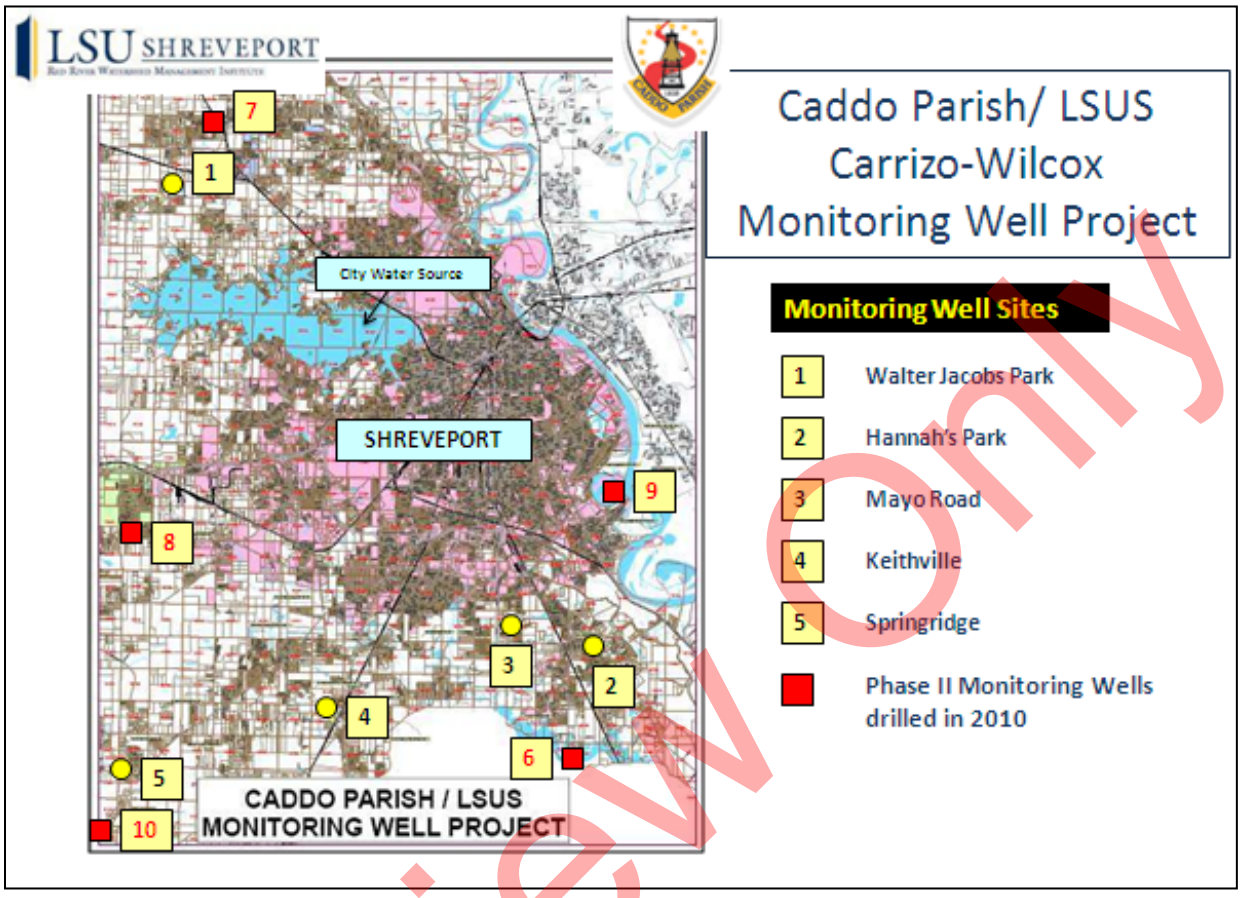
Figure 9-1, Caddo Parish/LSUS Carrizo-Wilcox Monitoring Well Project



As water level data was collected from the first 5 monitoring wells, a seasonal trend of water withdrawal was observed. Low water levels developed during the summer months and high levels were recorded in the spring-winter months (Figure 9-2). The Springridge well developed an anomalous curve that did not follow the pattern of the other wells that were located in populated areas (Figure 9-3). The Springridge well water level was declining sharply during late fall 2008 and winter-spring season of 2009 when the levels of these other wells were rising. This was attributed to the discovery of the Haynesville Shale Gas Play nearby. Up to 6 million gallons of water was needed for the hydraulic fracturing of each well. Although 6 million gallons seems like a large amount of water, this is typically a one-time use over a few days. This was brought to the attention of Caddo Parish, the Louisiana Office of Conservation and to the larger Haynesville Shale operators. A Water Energy Working Group was formed in April of 2009 at the LSUS Red River Watershed Management Institute to bring together regulatory agencies and operators so that the potential for groundwater scarcity could be addressed. Most of the operators, after seeing the decline in the Springridge well as compared to other monitoring wells, decided to voluntarily switch to alternative sources such as lakes, ponds, rivers, non-potable aquifers and wastewater from a paper mill.

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Figure 9-2, Caddo Parish/LSUS GW Monitoring Keithville Compactor

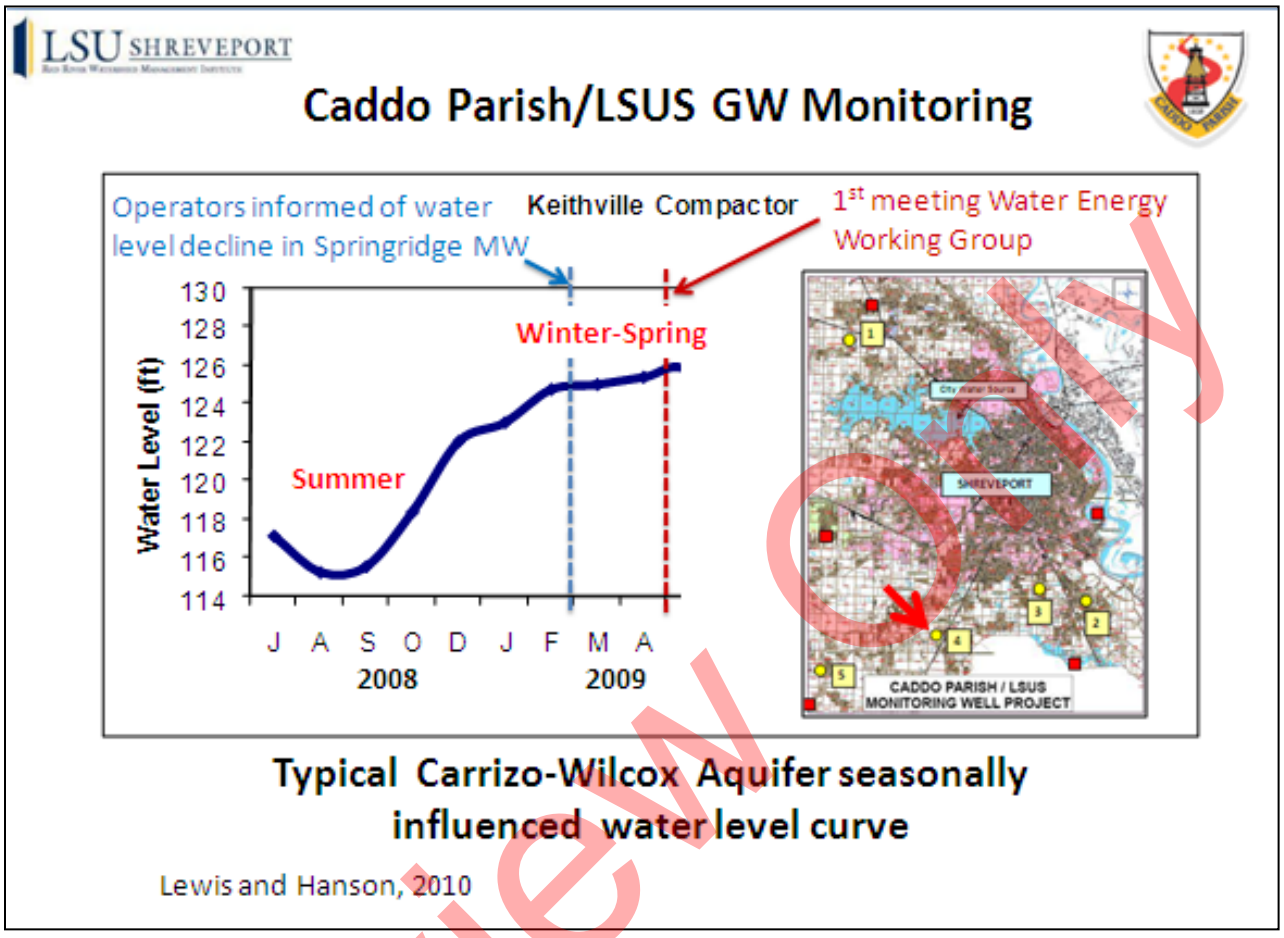

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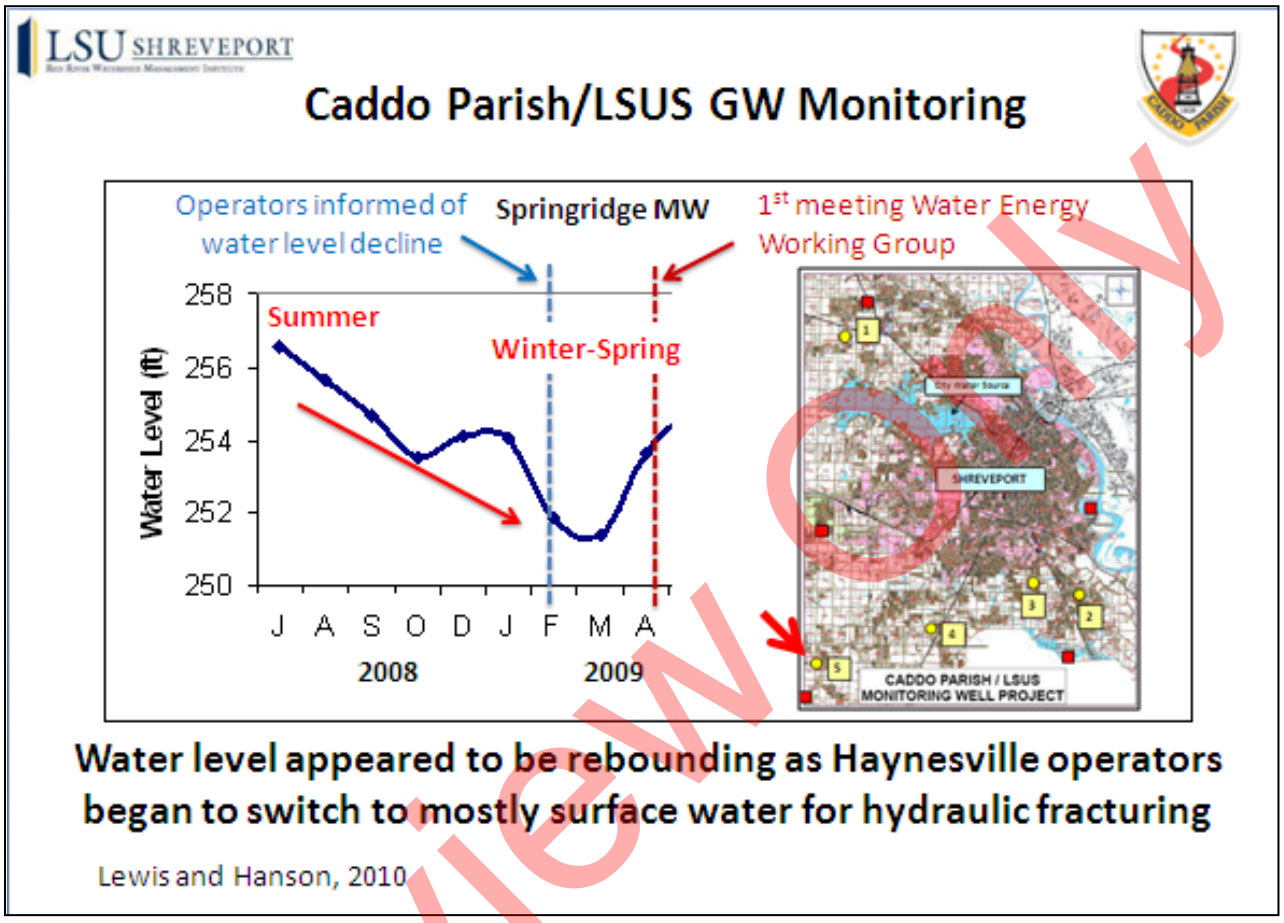
Figure 9-3, Caddo Parish/LSUS GW Monitoring Springridge MW



After the operators switched to primarily surface water or non-potable water from the Red River Alluvial aquifer, the Springridge well settled into a typical seasonal pattern like most of the other wells (Figure 9-4).

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Figure 9-4, Caddo Parish/LSUS GW Monitoring South Camp

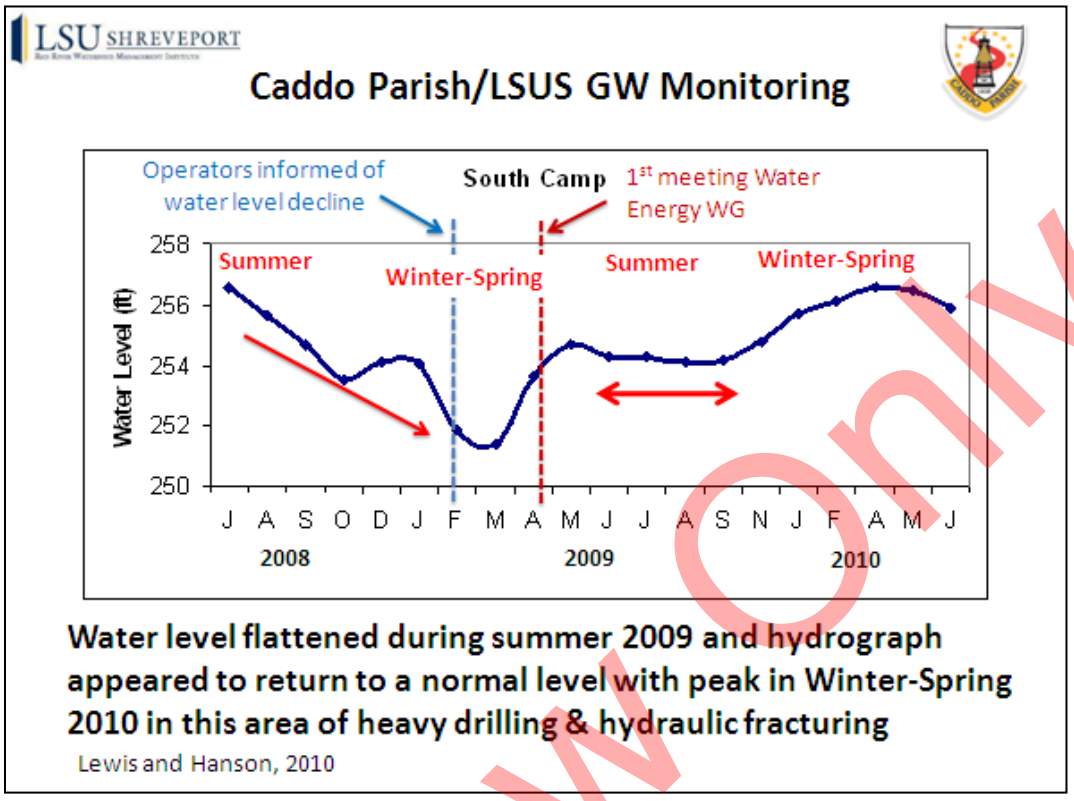
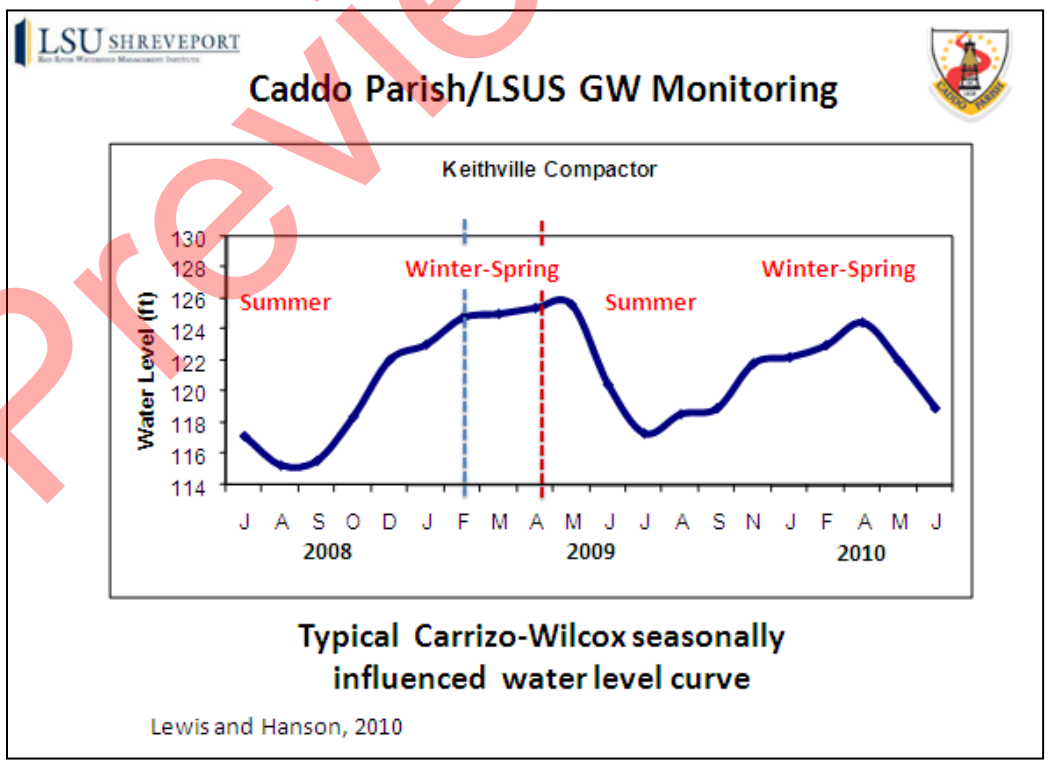


Figure 9-5, Caddo Parish/LSUS GW Monitoring Keithville Compactor



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After the monitoring well project had been in effect for about 3 years, a distinct seasonal pattern in monitoring well water levels continued in the wells located near developed areas just outside the southern city limits of Shreveport (Figure 9-5). A trend line through the Mayo Road and Keithville monitoring wells indicated a persistent decline (Figure 9-6). Both of these wells were screened in the basal sand of the Carrizo-Wilcox aquifer (Figure 9-7). The Hannah's Park monitoring well, although screened in shallower sand, exhibited less decline but showed the same seasonal pattern. The remaining monitoring wells, which were located outside of heavily populated areas, exhibited the same seasonal withdrawal pattern but with much lower amplitude.

Figure 9-6, June 2011 Water Levels

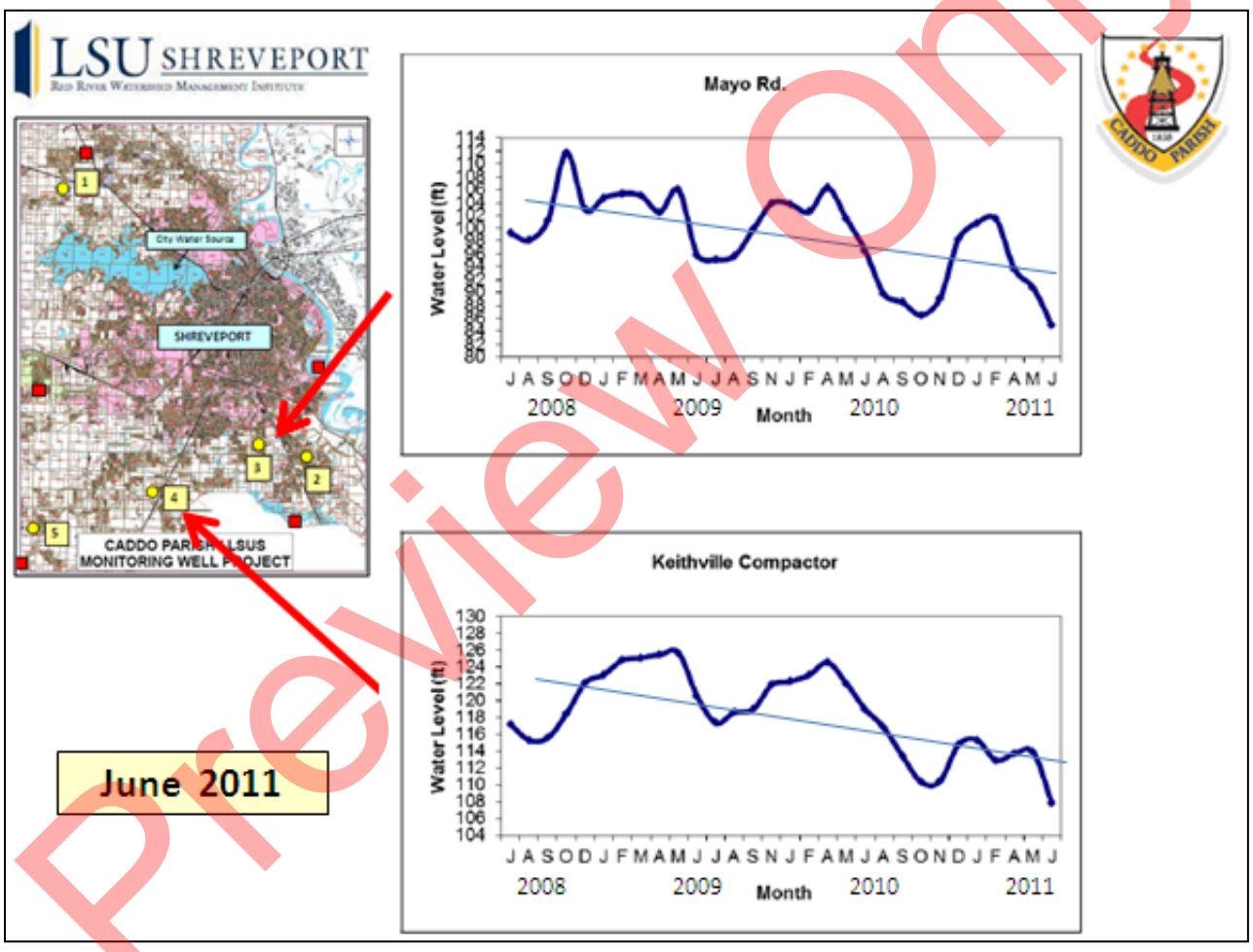

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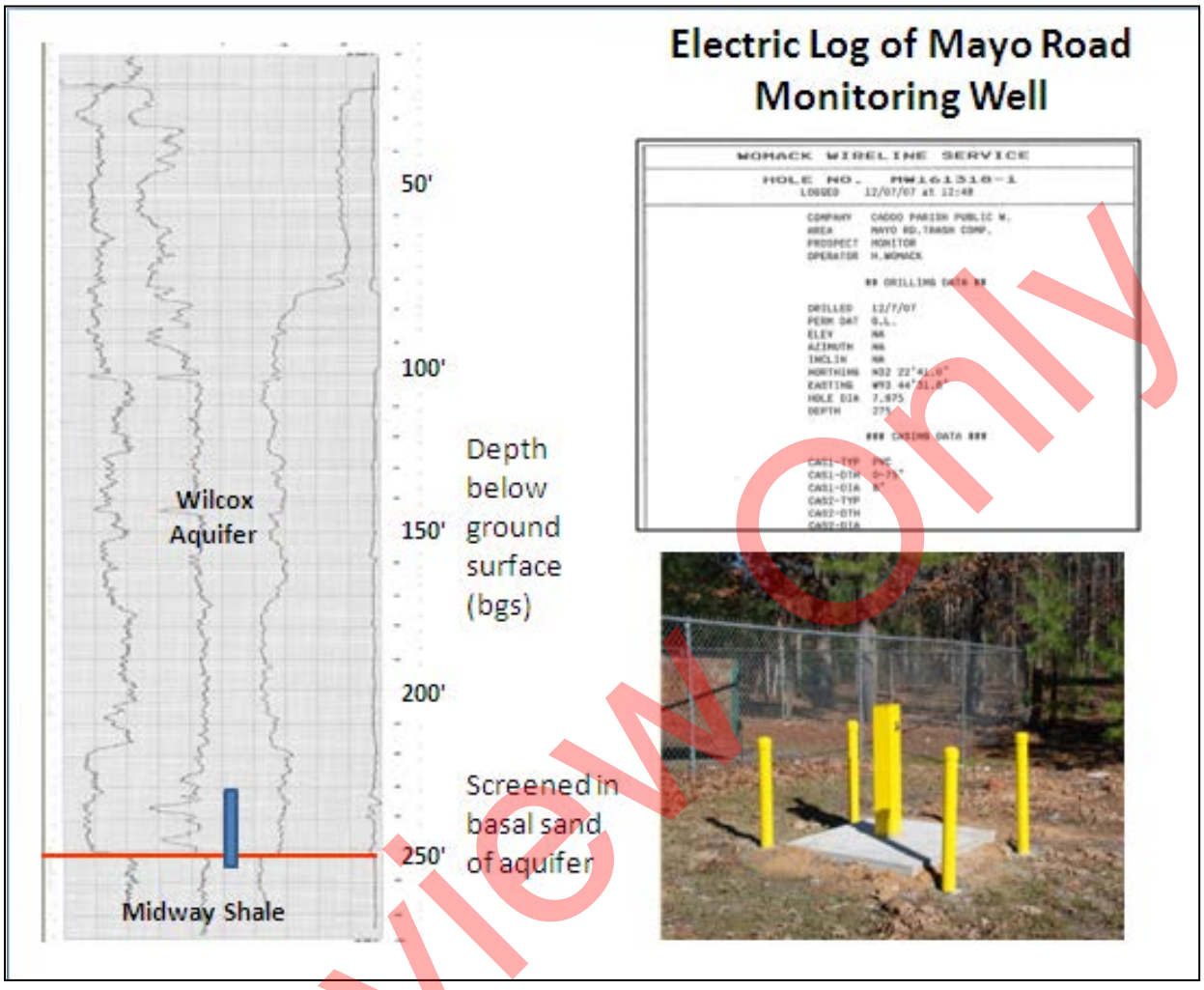
Figure 9-7, Electric Log of Mayo Road Monitoring Well



During 2010 and 2011, a severe drought developed across the study area. Water levels in several of the ten monitoring wells (during Phases I and II of the monitoring well project) were exhibiting sharp declines in the summer of 2011. Figure 9-8 shows the Mayo Road monitoring well and the Shreveport rainfall for the same time frame. By July 2011, numerous water wells in south Caddo Parish and in the suburbs south of Shreveport were going dry. In the vicinity of the Mayo Road and Keithville monitoring wells, the aquifer decline was accelerating. Caddo Parish, the Office of Conservation and the Secretary of the Department of Natural Resources were apprised of the situation. After a series of conference calls with the agencies referenced above and documented "science" collected by Caddo Parish and the LSUS Red River Watershed Management Institute, the first Ground Water Emergency Declaration for the state of Louisiana was announced on August 19, 2011 for two areas in south Caddo Parish (Figure 9-9).

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Figure 9-8, July 2011 Mayo Road Water Levels

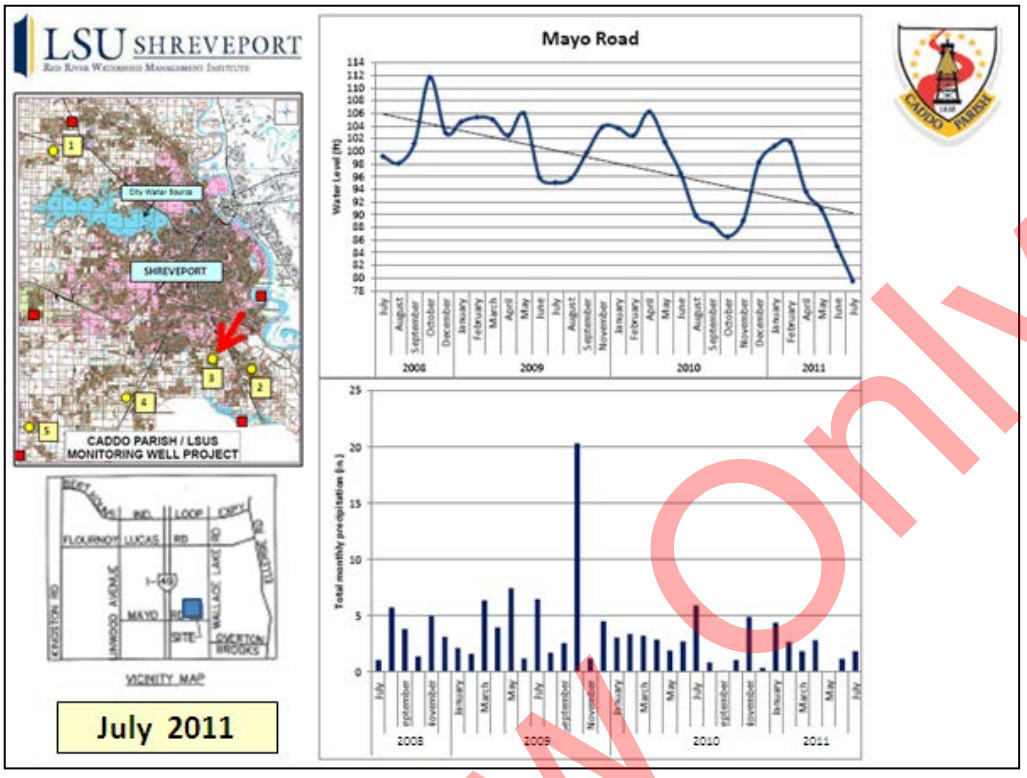
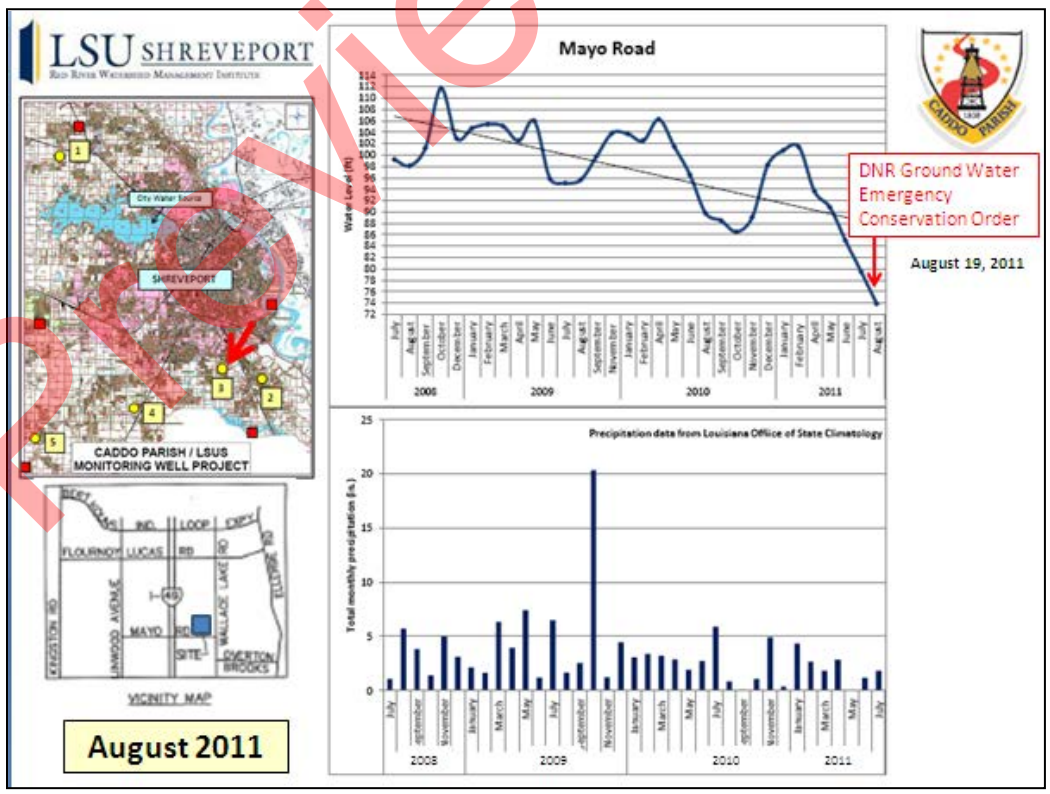


Figure 9-9, August 2011 Mayo Road Water Levels



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At that point in time, the water in the Mayo Road well was declining at a rate of 6 feet per month. Shortly after the Ground Water Emergency was in place, monitoring water levels in the Mayo Road and Keithville wells started to rise. An inverse relationship was observed in the Keithville monitoring well as water levels declined; some water quality parameters became worse as chloride and sodium levels increased (Figure 9-10). As shown in Figure 9-11, previous high withdrawal rates existed as shown by the development of a large cone of depression that formed when intense housing developments occurred on the southern outskirts of Shreveport about 2 decades ago. The cone of depression still exists today.

Figure 9-10, Comparison of Water Levels & Quarterly Water Quality Parameters

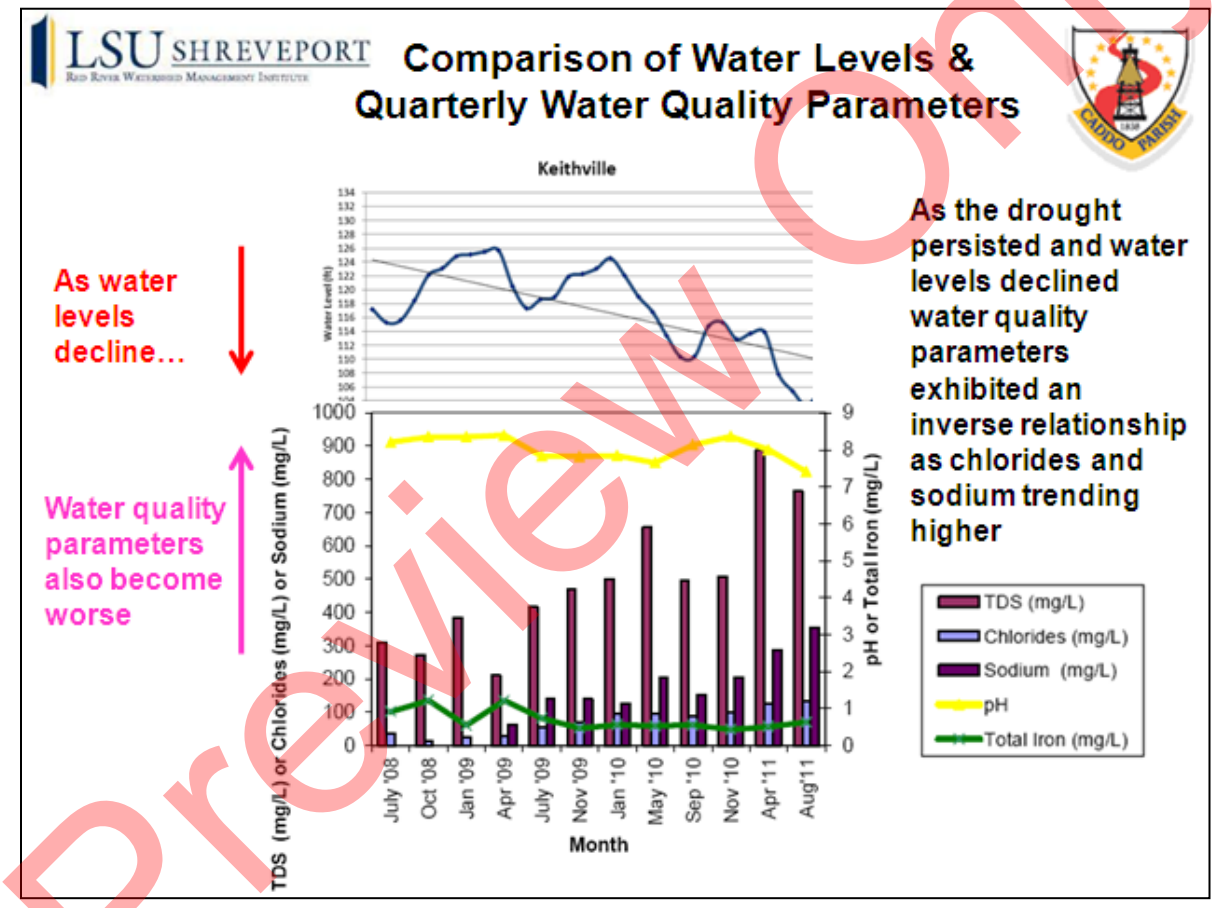

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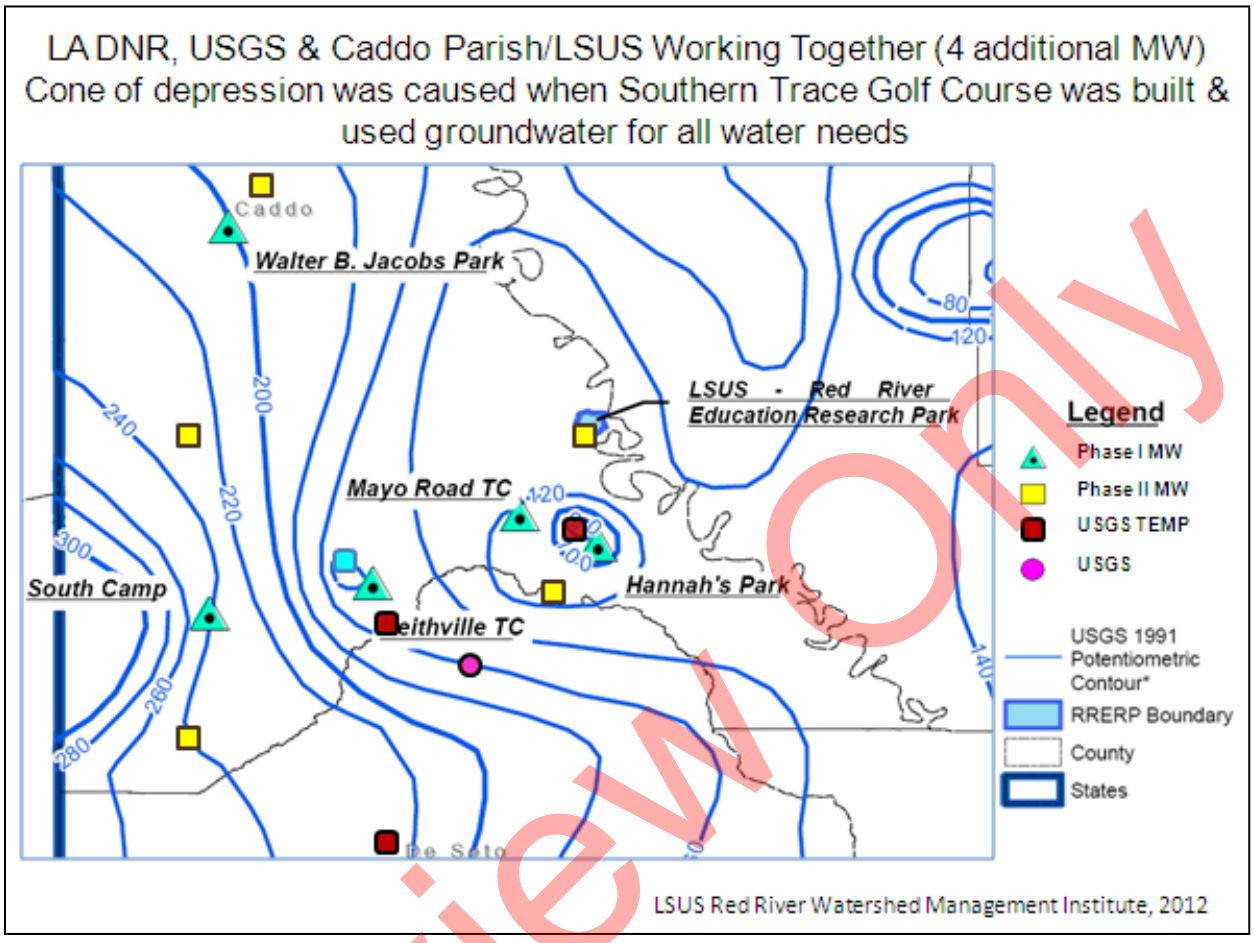
Figure 9-11, LA DNR, USGS & Caddo Parish/LSUS Cone of Depression



The Ground Water Emergency Declaration for the two areas in south Caddo Parish seems to have had a positive effect on water level rebound on wells that were stressed during the drought. This can be seen in Figure 9-12 which indicates that after 3 years of decline the winter-spring high for 2012 reached the previous year's high level prior to starting its seasonal decline. However, the rate of decline is increasing and appears to be mimicking the 2011 decline during the drought. Although slightly more rainfall is occurring in the study area this spring, it appears that consumption of groundwater for domestic use, including the watering of lawns, has not abated.

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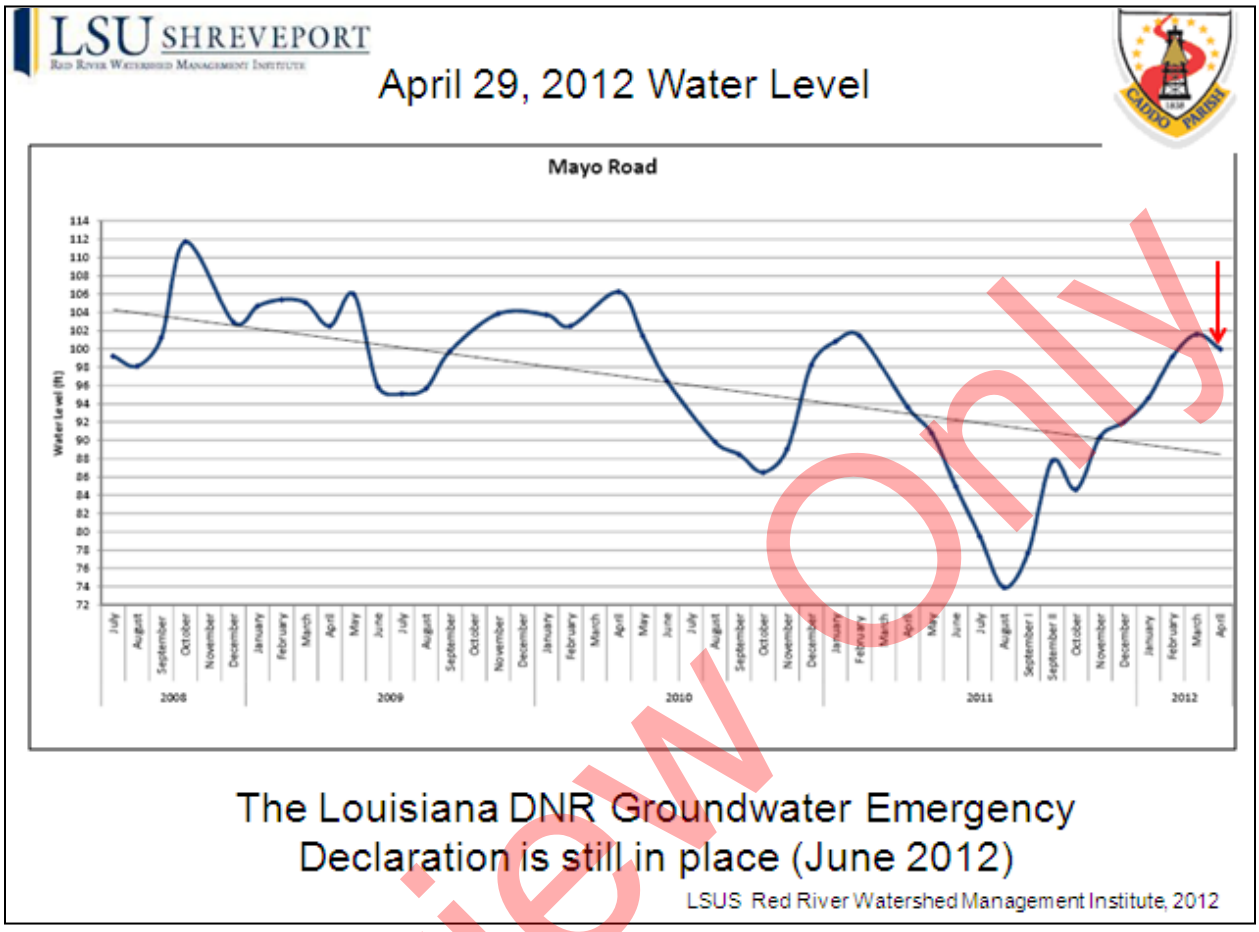
Figure 9-12, The Louisiana DNR Groundwater Emergency Declaration (June 2012)



The average per year decline of monitoring well water levels was calculated from the trend line as shown in the figure above for the original 5 monitoring wells (from Phase I of the well monitoring project). The background well at Walter B. Jacobs Park has the lowest decline and the Mayo Road and Keithville monitoring wells show the largest decline over the last 4 years. The basal sand that each well is developed in was also noted in an earlier study (Rapp, 1996) as having the ability to exhibit fast drawdown over large areas. Table 9-4 shows the average yearly water level decline in all of the wells of Phase I of the well monitoring project. Although not shown in Table 9-4, one of the new wells (Greenwood monitoring well), located in an area where residents have multi-acre grass covered lots is also showing a very sharp decline during high withdrawal (summer) seasons.

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Table 9-4

LSUS/Caddo Parish Monitoring Well System

Average Yearly Water Level Decline

(Based on 3 yrs/10mo. record as of 5/2012)

Wells	Water Level Decline
1. Walter B. Jacobs	0.60 ft/yr
2. Hannah's Park	1.15 ft/yr
3. Mayo Road	3.91 ft/yr
4. Keithville	2.10 ft/yr
5. Springridge	0.97 ft/yr

As mentioned earlier, hydrogeology and aquifer parameters play a large part in determining available water resources. The Carrizo-Wilcox aquifer is composed of numerous channelized sand zones intermingled with non-water bearing shales. The Carrizo-Wilcox aquifer is exposed at the surface over a large area of northwest Louisiana. Post-depositional diagnosis (chemical & physical modification which usually results in reduction of pore volume and permeability) and the presence of geological faults can negatively affect the size and quality of an aquifer. The thickness of porous and permeable sands in the aquifer is generally known. Combining this with areas of historic high withdrawal rates and unacceptable water quality (brackish or saltwater) values can be used to predict the volume of useable water resources.

9.1.3 Surface Water

The management and planning of the region's water resources requires a careful assessment of the quantity of raw surface water that will be available during extended periods of drought conditions. Prudent management also requires an understanding of the methods of yield calculation and the limitations of those estimates when implementing real-time drought response

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decisions. Current surface water use information and historical surface water information has been presented in this Phase of the master plan.

The ability of a reservoir to meet demands for water supplies is usually referred to as firm yield. Firm yield is the maximum amount of water a reservoir can supply annually during a repeat of the worst drought that particular area has experienced. To compute firm yields, scientists simulate reservoir operations using historic stream flow data and other factors such as water demands.

The watershed areas, stream inflow information, the drought of record and existing reservoir elevations are all necessary to compute the firm yield or safe yield for the existing and or proposed water sources. Existing and future water demands from Phases II and III are required for the completion of the water yield calculations. The amount of surface water available for meeting current and future water needs will be determined in Phase IV, Watershed Analysis.

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10.0 Conclusions

10.1 Conclusions

Phase I of this Master Plan identifies the historical water usage, water resources, the laws, compacts and regulations and identifies the raw water sources available in Caddo and Bossier Parishes. The information obtained during this phase will serve as a basis for analyzing the existing water systems and developing an infrastructure plan for the region's future.

Development and analysis of existing information for this phase has demonstrated that there are multiple raw water sources that can support current and future demands for both parishes and the northwest region of the state. Reviewing the existing literature, historical usage, and current trends have indicated an increased need for supply and especially a critical need for conservation and management.

The total amount of raw water sources available including both surface and groundwater supply will need to be further analyzed based on watershed analysis, follow-up monitoring well data, and consultation with regulatory and management agencies.

The recent (2010) passage of Act 955 will be critical in determining future availability of surface water for potable supply, who or what entity has the right to use said water, and quantity and quality of usage for distribution and consumption.

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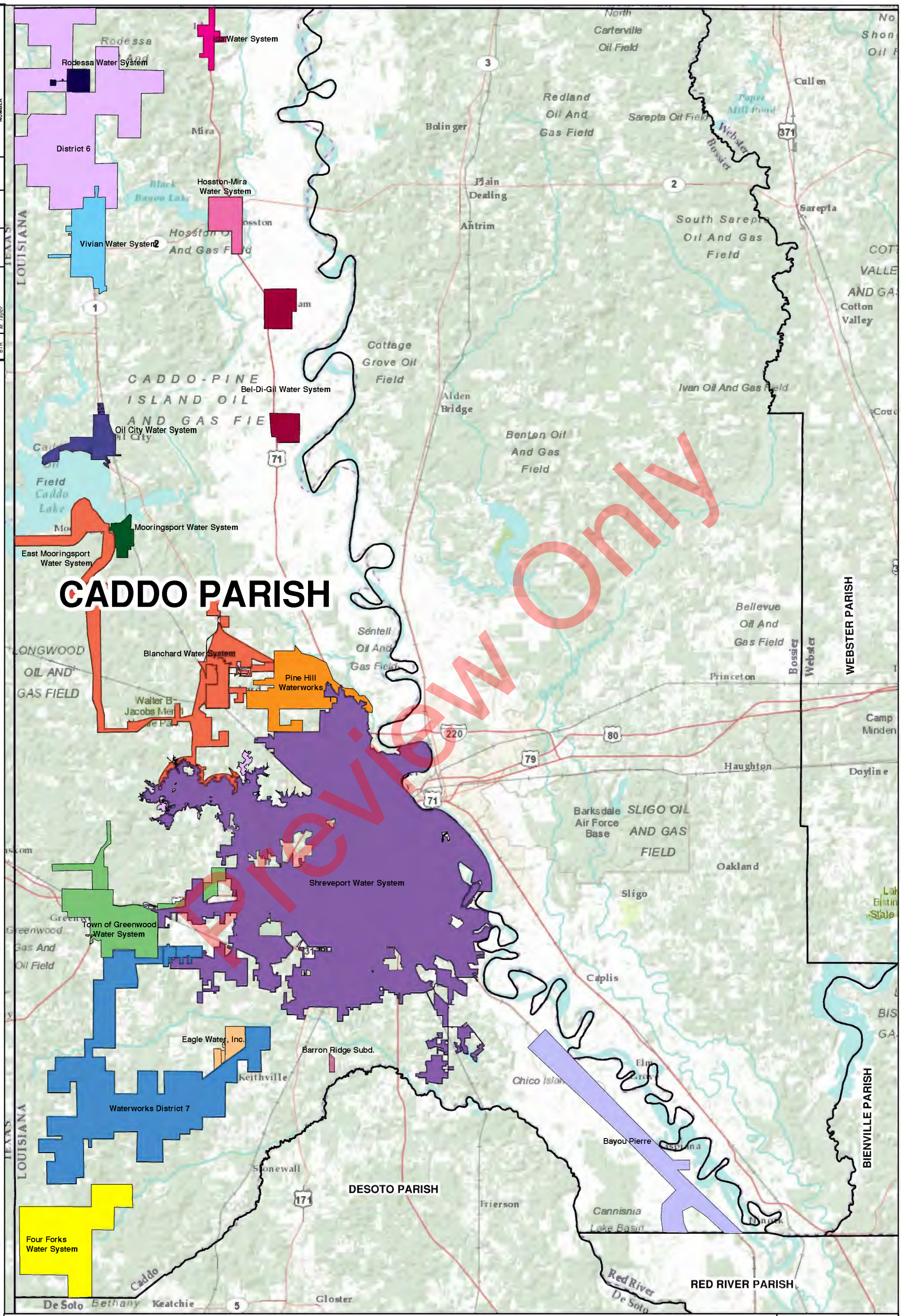
Preview Only

FIGURES

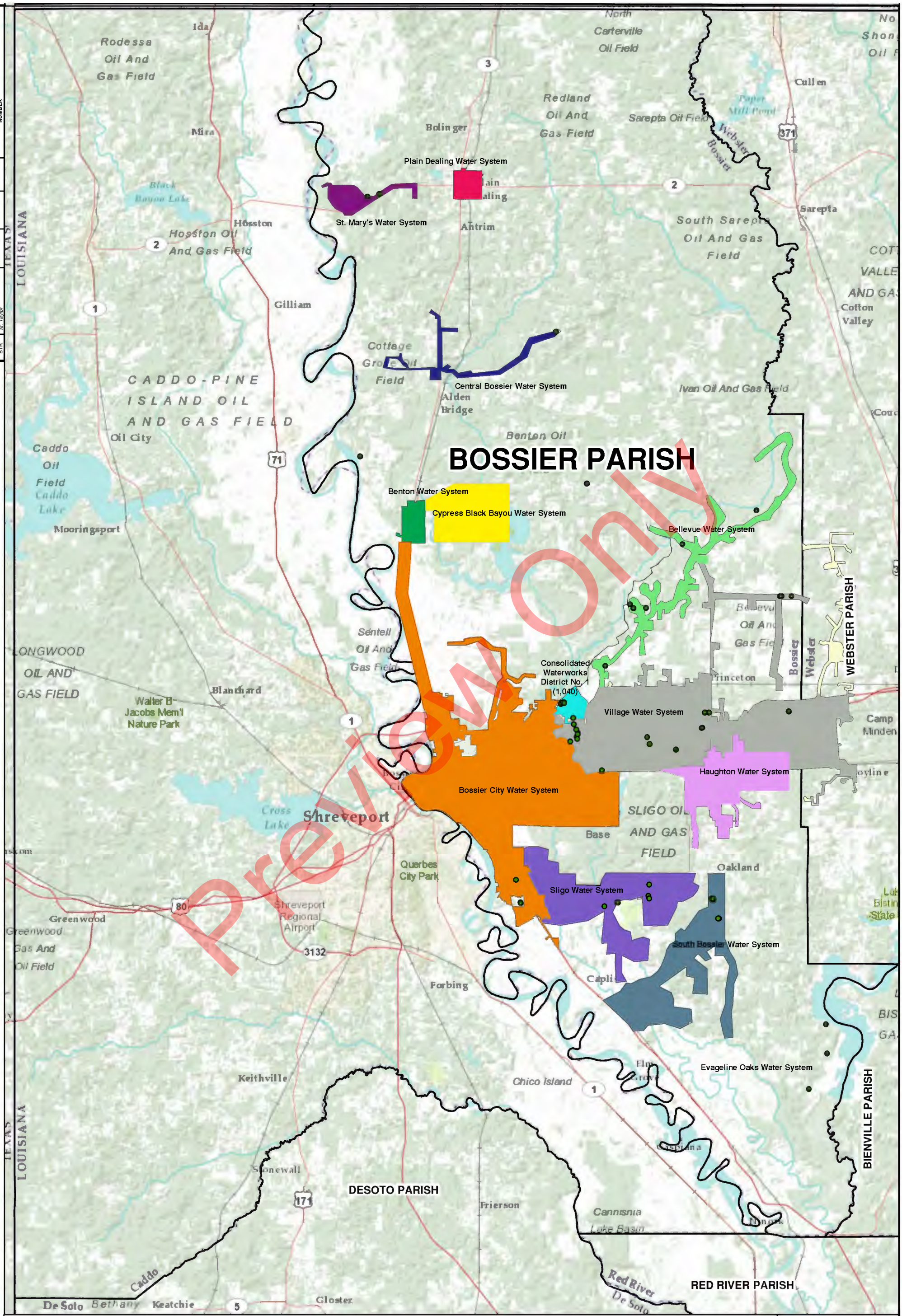
Preview Only



CADDO PARISH COMMISSION
CADDO PARISH, LA

FIGURE 1-2
CADDO WATER SYSTEM
SERVICE AREAS

Preview Only



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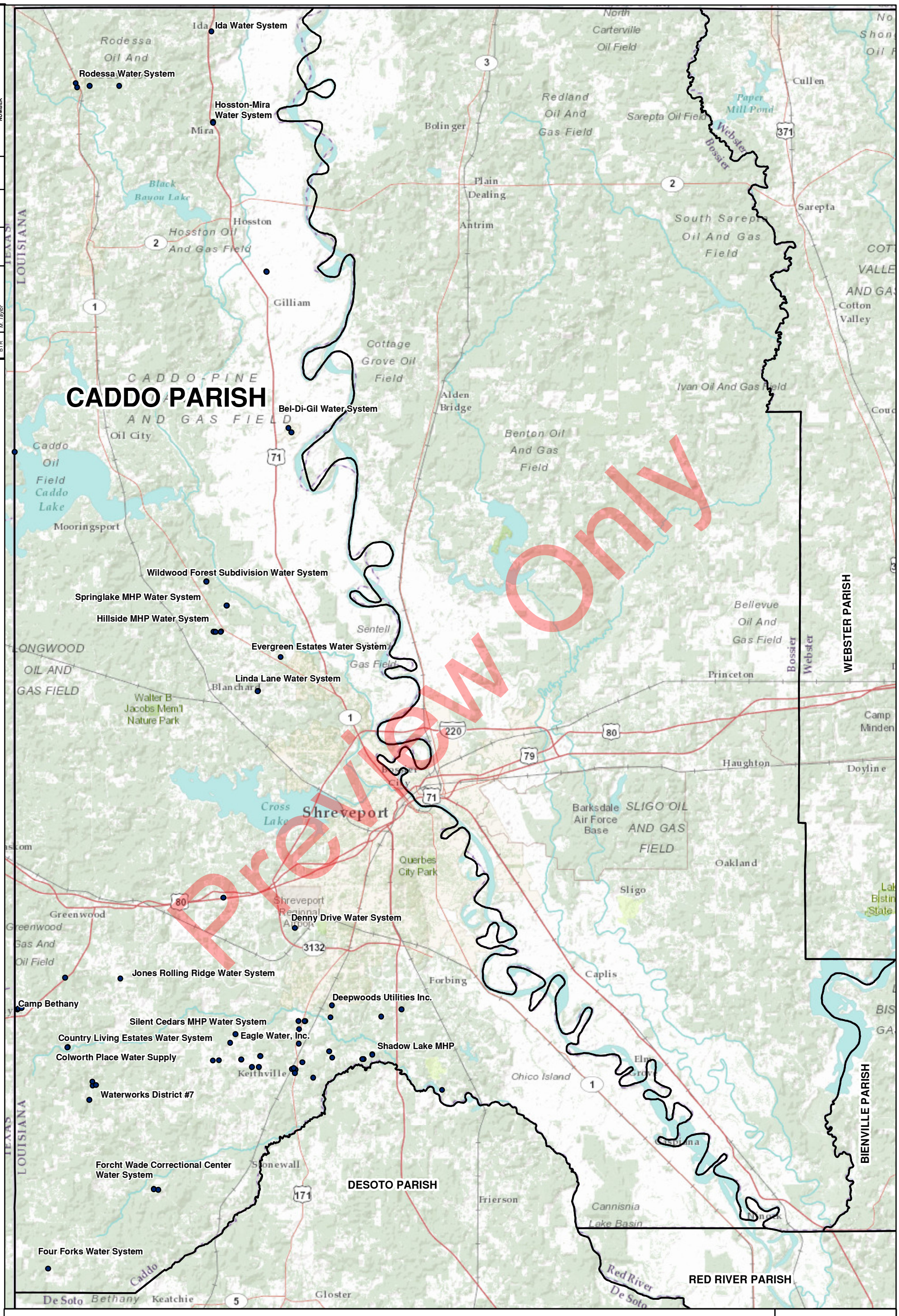


Legend

- Caddo Sources: Wells, Intakes, Connections
- Parish Boundary

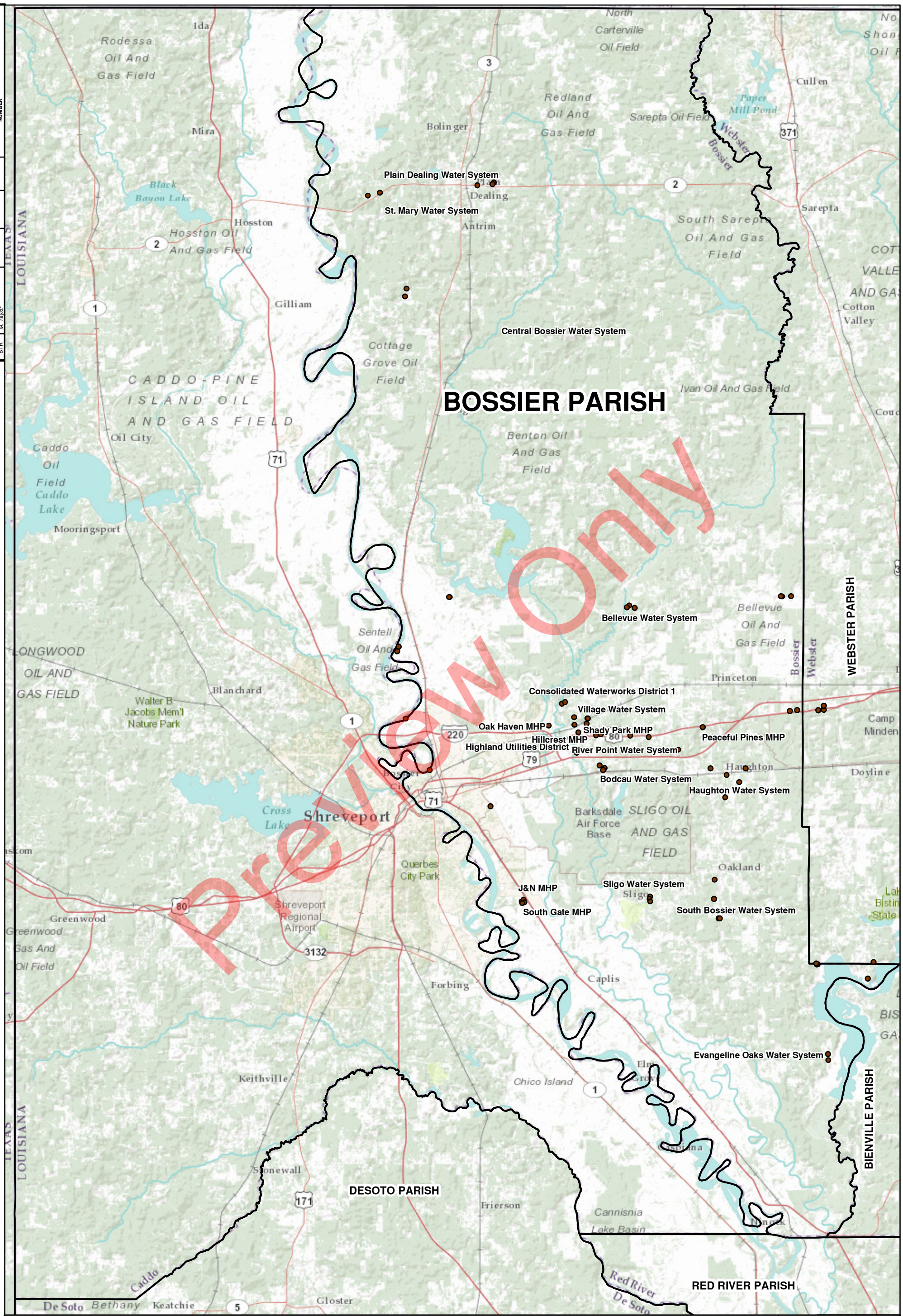
N

0 1.25 2.5 5 7.5 10 Miles

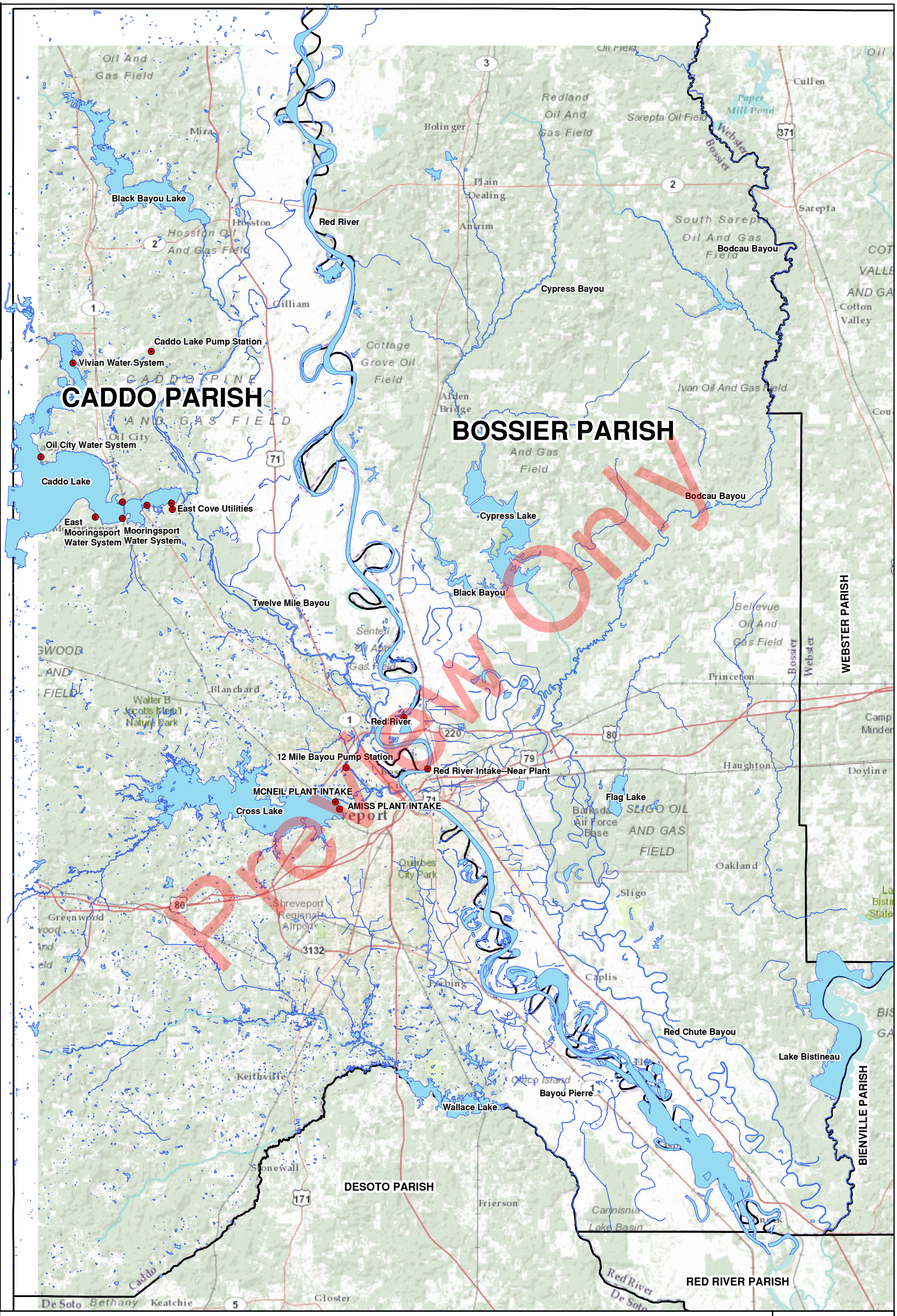
CADDO PARISH COMMISSION
CADDO PARISH, LA

FIGURE 1-4
CADDO PUBLIC WATER WELLS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
BTR	M. Taylor			



OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
BTR	M. Taylor			



Legend

- Surface Water Intakes
- Parish Boundary

0 1.25 2.5 5 7.5 10 Miles

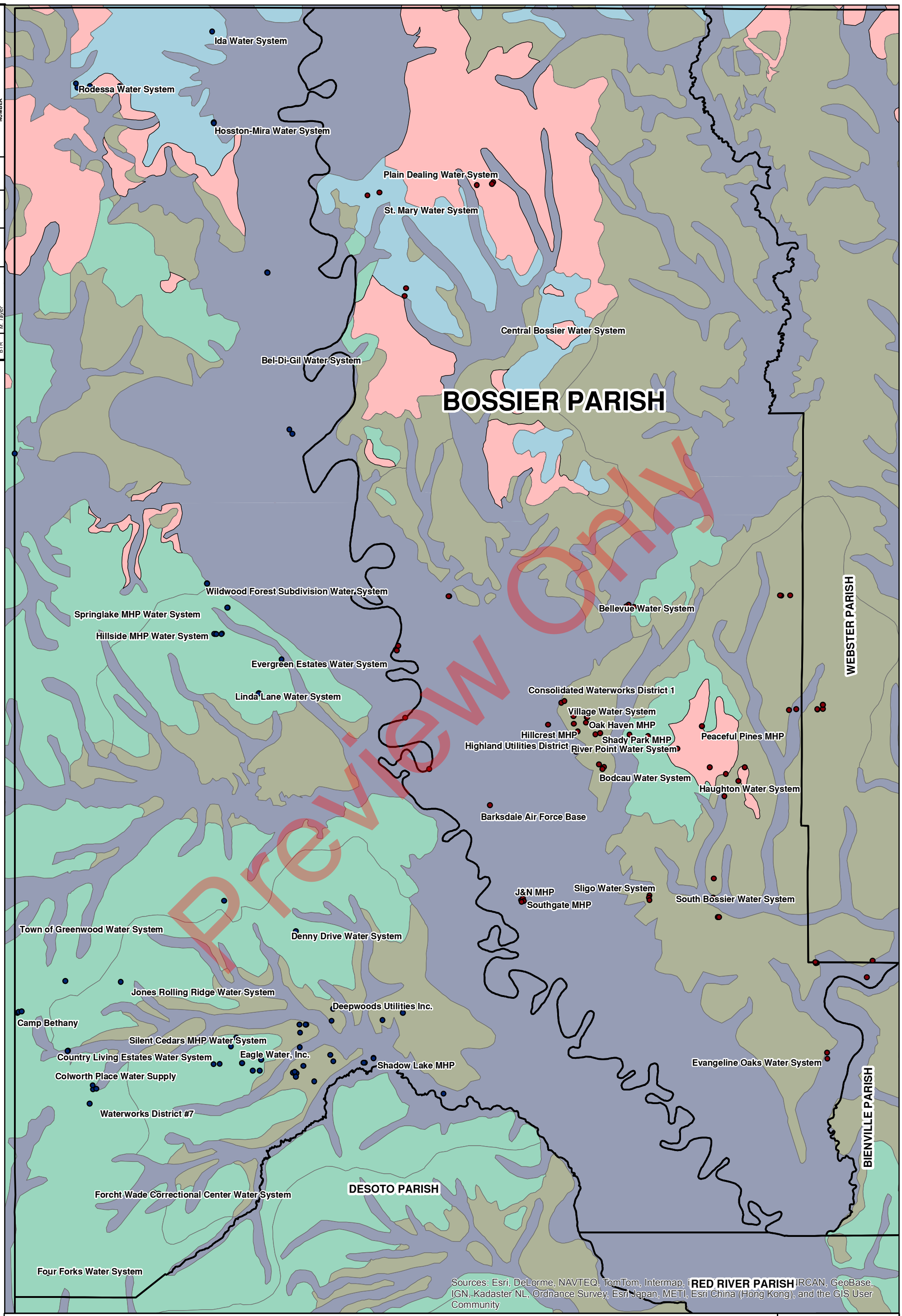
N

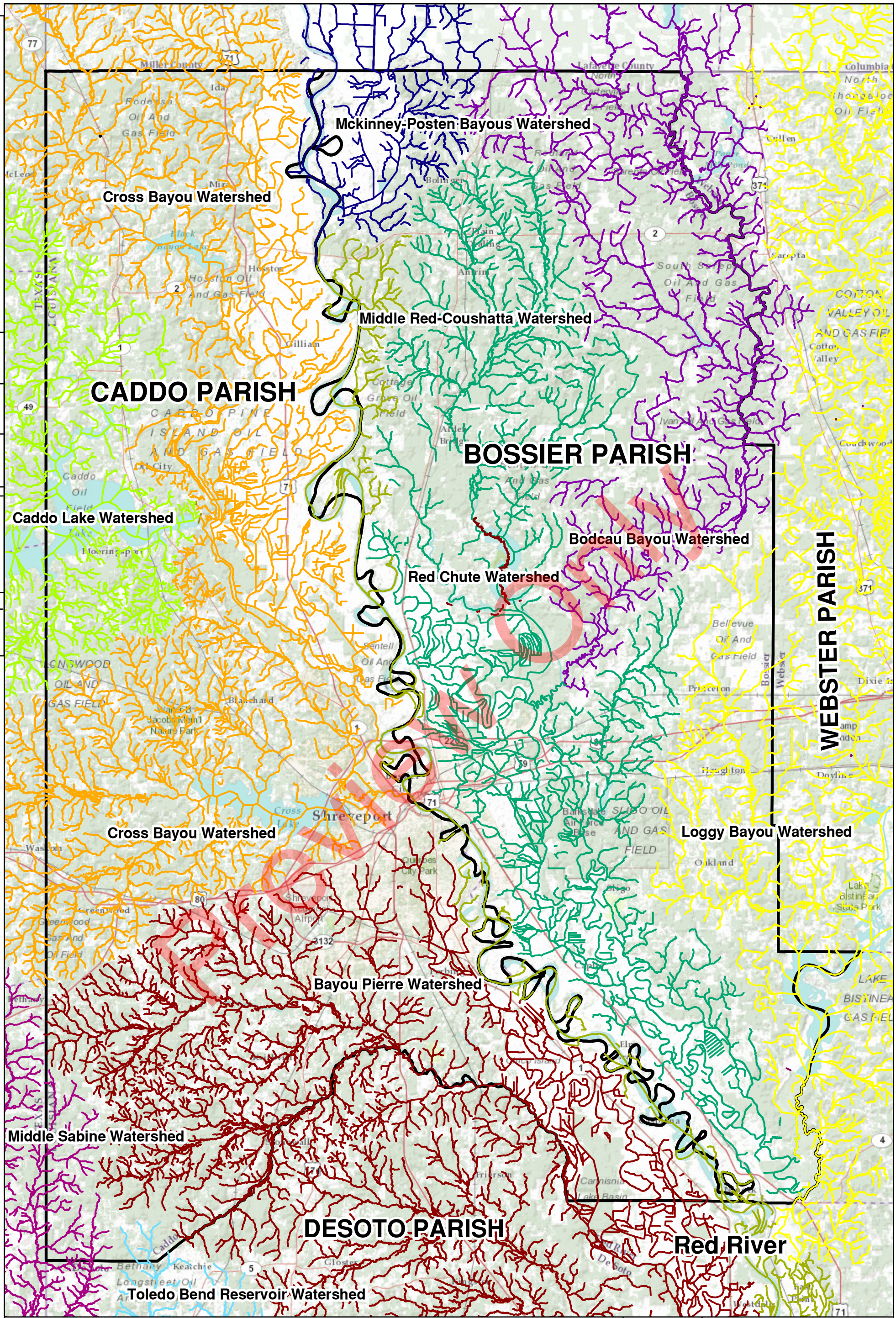
Shaw

CADDO PARISH COMMISSION
CADDO PARISH, LA

FIGURE 1-6
CADDO / BOSSIER SURFACE WATER FIGURE

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
BTR	M. Taylor			


Ida Water System
Rodessa Water System
Hosston-Mira Water System
Plain Dealing Water System
St. Mary Water System
Central Bossier Water System
Bel-Di-Gil Water System
BOSSIER PARISH
Wildwood Forest Subdivision Water System
Springlake MHP Water System
Hillside MHP Water System
Evergreen Estates Water System
Linda Lane Water System
Bellevue Water System
WEBSTER PARISH
Consolidated Waterworks District 1
Village Water System
Oak Haven MHP
Hillcrest MHP
Shady Park MHP
Highland Utilities District
River Point Water System
Peaceful Pines MHP
Bodcau Water System
Haughton Water System
Barksdale Air Force Base
J&N MHP
Southgate MHP
Sligo Water System
South Bossier Water System
Town of Greenwood Water System
Denny Drive Water System
Jones Rolling Ridge Water System
Deepwoods Utilities Inc.
Camp Bethany
Silent Cedars MHP Water System
Country Living Estates Water System
Eagle Water, Inc.
Shadow Lake MHP
Evangeline Oaks Water System
Colworth Place Water Supply
Waterworks District #7
BIENVILLE PARISH
Forcht Wade Correctional Center Water System
DESOTO PARISH
Four Forks Water System
RED RIVER PARISH
Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, i-cubed, FAO, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community
Preview Only
Legend
Bossier Sources: Wells, Intakes, Connections
Caddo Sources: Wells, Intakes, Connections
Parish Boundary
AQUIFER SYSTEMS
Alluvial
Carrizo-Wilcox
Chicot/Terraces
Sparta
No Recharge
N
0 1 2 4 6 8
Miles
Shaw
CADDO PARISH COMMISSION
CADDO PARISH, LA
FIGURE 1-7
CADDO / BOSSIER AQUIFER FIGURE
OFFICE
BTR
DRAWN BY
M. Taylor
CHECKED BY
APPROVED BY
DRAWING NUMBER



OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
BTR	B. Holt 10/15/09 XXX	XXX	XXX	caddo_145045_0008_watershed

Shaw

CADDO PARISH COMMISSION
CADDO PARISH

FIGURE 1-8

CADDO / BOSSIER WATERSHEDS

P:\ENG\CLIENT\Caddo Parish\GIS\Maps\Phase I\caddo_145045_0008_watershed.mxd; Analyst: ; Date: 6/21/2012 1:35:54 PM

APPENDICES

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APPENDIX A

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LDNR Surface Water Withdrawal Cooperative Endeavor Agreements 2010-2012

Application #	Applicant	Parish	Water Body	Water Volume (gallons)	Date received	Date Application Complete	Date response sent to Applicant	Days from Application Complete to Mailing	DATE executed document received	Days from Application Complete to Completion	Status
CUA-2010-0001	EXCO Resources, Inc.	DeSoto	Clear Lake	6,000,000	8/25/2010	8/25/2010	10/8/2010	44	10/25/2010	61	COMPLETE
CUA-2010-0002	Chesapeake Energy Corporation	DeSoto	Smithport Lake	30,240,000	9/2/2010	9/2/2010	10/19/2010	47	11/1/2010	60	COMPLETE
CUA-2010-0003	Shell Pipeline Company	EBR	Comite River	100,000	9/10/2010	9/10/2010	9/23/2010	13	9/28/2010	18	COMPLETE
CUA-2010-0005	EXCO Operating Co., L.P.	DeSoto	Wallace Lake	23,520,000	10/14/2010	10/14/2010	12/6/2010	53	12/16/2010	63	COMPLETE
CUA-2011-0002	QEP Energy Company	Red River	Bayou Pierre	158.400.000	5/18/2011	5/18/2011	6/29/2011	42			sent to applicant
CUA-2011-0003	QEP Energy Company	Bienville	Lake Bistineau	264,000,000	5/19/2011	5/19/2011	6/29/2011	41			sent to applicant
CUA-2011-0004	Air Products and Chemicals, Inc.	St. Charles	multiple canals	600,000	5/25/2011	5/25/2011	6/29/2011	35	7/12/2011	48	COMPLETE
CUA-2011-0007	Devon Energy Production Company	East Feliciana	Redwood Creek	42,000,000	6/3/2011	6/3/2011	6/29/2011	26	8/1/2011	59	COMPLETE
CUA-2011-0009	Devon Energy Production Company	East Feliciana	Comite River	42,000,000	6/3/2011	6/3/2011	6/29/2011	26	8/1/2011	59	COMPLETE
CUA-2011-0011	Kiewit Louisiana Co.	Plaquemines	Miss River	200,000	6/9/2011	6/9/2011	6/29/2011	20	8/29/2011	81	COMPLETE
CUA-2011-0012	QEP Energy Company	Bienville	Loggy Bayou	264,000,000	6/8/2011	6/23/2011	9/8/2011	77			sent to applicant
CUA-2011-0013	QEP Energy Company	Bossier	Red Chute Bayou	52,800,000	6/8/2011	6/23/2011	9/8/2011	77			sent to applicant
CUA-2011-0014	Chesapeake	DeSoto	Bayou Pierre	30,240,000	6/15/2011	6/15/2011	7/15/2011	30	8/16/2011	62	COMPLETE
CUA-2011-0015	Chesapeake	Red River	Bayou Pierre	30,240,000	6/15/2011	6/15/2011	7/15/2011	30	8/16/2011	62	COMPLETE
CUA-2011-0016	Chesapeake	Red River & DeSoto	Bayou Pierre	30,240,000	6/15/2011	6/15/2011	7/15/2011	30	8/16/2011	62	COMPLETE
CUA-2011-0017	Chesapeake	DeSoto	Bayou Pierre	30,240,000	6/15/2011	6/15/2011	7/15/2011	30	8/16/2011	62	COMPLETE
CUA-2011-0018	Chesapeake	Caddo	Boggy Bayou	30,240,000	6/15/2011	6/15/2011	7/15/2011	30	8/16/2011	62	COMPLETE
CUA-2011-0019	Chesapeake	Bossier	Flat River	30,240,000	6/15/2011	6/15/2011	7/15/2011	30	8/16/2011	62	COMPLETE
CUA-2011-0020	Chesapeake	Bienville	Toulon Bayou	30,240,000	6/15/2011	6/15/2011	7/15/2011	30	8/16/2011	62	COMPLETE
CUA-2011-0021	QEP Energy Company	Red River, Bossier, Caddo	Red River	158,400,000	6/28/2011	7/11/2011	8/22/2011	42			sent to applicant
CUA-2011-0022	Chesapeake	Bossier	Red River	30,240,000	7/8/2011	7/8/2011	8/22/2011	45	9/12/2011	66	COMPLETE
CUA-2011-0023	Chesapeake	Bossier	Red Chute Bayou	30,240,000	7/7/2011	7/7/2011	8/22/2011	46	9/12/2011	67	COMPLETE
CUA-2011-0025	QEP Energy Company	Red River	Red River	153,400,000	7/18/2011	7/18/2011	8/22/2011	35			sent to applicant
CUA-2011-0026	Chesapeake	Natchitoches	Black Lake	210,000	7/25/2011	7/25/2011	8/25/2011	31	9/12/2011	49	COMPLETE
CUA-2011-0028	Chesapeake	DeSoto	Cypress Bayou	30,240,000	8/17/2011	8/17/2011	9/22/2011	36	10/12/2011	56	COMPLETE
CUA-2011-0029	Chesapeake	Bienville	Bayou LaVille	30,240,000	8/17/2011	8/17/2011	9/22/2011	36	10/12/2011	56	COMPLETE
CUA-2011-0030	Chesapeake	Caddo	Bayou Pierre	30,240,000	8/31/2011	8/31/2011	9/30/2011	30	10/19/2011	49	COMPLETE
CUA-2011-0031	EXCO	DeSoto	Wallace Lake	420,000,000	10/26/2011	10/26/2011	12/8/2011	43	12/19/2011	54	COMPLETE
CUA-2011-0032	Chesapeake	Bossier	Lake Bistineau	30,240,000	9/27/2011	10/7/2011	12/8/2011	62	1/5/2012	90	COMPLETE
CUA-2011-0033	Chesapeake	Caddo	Red River	30,240,000	10/19/2011	10/19/2011	12/8/2011	50	1/5/2012	78	COMPLETE
CUA-2011-0034	EXCO	DeSoto	Clear & Smithport Lake	420,000,000	10/26/2011	10/26/2011	1/3/2012	69	1/17/2012	83	COMPLETE
CUA-2011-0036	Chesapeake	Bossier	Lake Bistineau	30,240,000	11/1/2011	11/1/2011	1/3/2012	63	1/19/2012	79	COMPLETE
CUA-2011-0037	Devon Energy Production Company	East Feliciana	Comite River	42,000,000	11/14/2011	11/14/2011	1/3/2012	50	1/20/2012	67	COMPLETE
CUA-2011-0038	Chesapeake	Bossier	Lake Bistineau	30,240,000	11/8/2011	11/8/2011	1/3/2012	56	1/19/2012	72	COMPLETE
CUA-2011-0039	Devon Energy Production Company	West Feliciana	Bayou Sara	42,000,000	11/15/2011	11/15/2011	1/3/2012	49	1/31/2012	77	COMPLETE
CUA-2011-0040	Air Products and Chemicals, Inc.	multiple	multiple	14,233,331	11/29/2011	12/15/2011	1/11/2012	27	1/26/2012	42	COMPLETE
CUA-2011-0041	Hydrotek Resources, Inc.	Red River	Bayou Pierre	5,000,000	12/1/2011	12/16/2011	1/3/2012	18	1/10/2012	25	COMPLETE
CUA-2011-0042	XTO Energy	Morehouse	Boeuf River	5,700,000	12/9/2011	12/9/2011	1/23/2012	45	1/27/2012	49	COMPLETE
CUA-2012-0001	Air Products and Chemicals, Inc.	multiple	multiple	56,500	1/26/2012	1/27/2012	2/23/2012	27	3/5/2012	38	COMPLETE
CUA-2012-0002	Hydrotek Resources, Inc.	DeSoto	Bayou Pierre	8,400,000	1/27/2012	1/27/2012	2/24/2012	28	3/1/2012	34	COMPLETE
CUA-2012-0003	Heckman Resourcces Corp.	DeSoto	Bayou Pierre	16,666,667	2/15/2012	2/24/2012					Document drafting

Data updated 3/7/2012

Preview Only

APPENDIX B

Preview Only

Water-Data Report 2011

07344480 Cross Lake at Shreveport, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°30′45″, long 93°47′54″ referenced to North American Datum of 1983, in sec.34, T.18 N., R.14 W., Caddo Parish, LA, Hydrologic Unit 11140304, located about 400 yards north of Shreveport Water and Sewage Treatment Plant on spillway guard structure. From April 4, 1996 to December 5, 2002 located on bottom floor of the pump intake building at southwest corner of Shreveport Water and Sewage Treatment Plant.

DRAINAGE AREA.--33.1 mi^2

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

COOPERATION.--Caddo-Bossier Office of Homeland Security and Emergency Preparedness.

REMARKS.--Gage operated as part of a flood alert system for Caddo and Bossier Parishes. Satellite telemetry with rain gage at site. Capacity at spillway crest is 78,500 acre-ft. Reservoir is used for drinking water, flood control, and conservation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 174.73 ft, Apr. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 170.49 ft, May 24; minimum gage height, 167.13 ft, Sept. 30.

Preview Only

07344480 Cross Lake at Shreveport, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	169.41	169.19	169.38	169.43	170.12	169.96	169.98	170.20	170.40	170.12	e169.42	168.26
2	169.37	169.35	169.39	169.44	170.13	e169.94	169.98	170.24	170.40	170.12	169.41	168.19
3	169.31	169.45	169.41	169.44	170.14	e169.90	169.97	170.20	170.37	170.11	169.39	168.16
4	169.27	169.46	169.42	169.47	170.18	169.88	170.07	170.18	170.38	170.09	169.36	168.11
5	169.23	169.45	169.45	169.50	170.15	169.92	170.09	170.15	170.40	170.16	169.34	168.08
6	169.20	169.46	169.46	169.51	170.16	169.90	170.06	170.14	170.39	170.19	169.32	168.04
7	169.16	169.46	169.48	169.51	170.19	169.84	170.07	170.11	170.36	170.17	169.29	168.00
8	169.13	169.48	169.49	169.49	170.15	169.85	170.09	170.12	170.34	170.15	169.28	167.96
9	169.10	169.47	169.48	169.48	170.17	169.88	170.09	170.12	170.32	170.14	169.26	167.92
10	169.06	169.48	169.48	169.55	170.17	169.85	170.08	170.13	170.30	170.13	169.23	167.88
11	169.02	169.51	169.49	169.54	170.16	169.81	170.14	170.15	170.31	170.11	169.20	167.83
12	169.02	169.51	169.49	169.51	170.15	169.77	170.14	170.21	170.29	170.09	169.14	167.80
13	168.99	169.55	169.44	169.48	170.11	169.77	170.12	170.26	170.28	170.07	169.11	167.74
14	168.97	169.53	169.38	169.45	170.12	169.78	170.10	170.25	170.25	170.00	169.06	167.70
15	168.97	169.52	169.36	169.46	170.10	169.75	170.17	170.25	170.24	169.98	168.98	167.65
16	168.98	169.54	169.37	169.62	170.08	169.71	170.14	170.24	170.22	169.94	168.94	167.59
17	168.99	169.49	169.34	169.87	170.06	169.69	170.10	170.24	170.18	169.90	168.89	167.54
18	168.99	169.49	169.33	169.98	170.07	169.72	170.09	170.21	170.16	169.86	168.84	167.53
19	168.98	169.46	169.30	170.01	170.05	169.74	170.09	170.20	170.13	169.81	168.79	167.58
20	169.01	169.42	169.26	170.04	170.02	169.75	170.12	170.20	170.09	169.75	168.73	e167.57
21	169.01	169.40	169.27	170.03	170.03	169.75	170.09	170.33	170.12	169.71	168.69	167.55
22	168.99	169.39	169.26	170.02	170.01	169.75	170.10	170.37	170.17	169.66	168.64	167.50
23	169.00	169.39	169.22	169.99	170.00	169.79	170.09	170.39	170.18	169.61	168.60	167.47
24	169.02	169.35	169.25	170.01	169.98	169.80	170.09	170.38	170.18	169.57	168.56	167.43
25	169.14	169.38	169.29	170.05	170.00	169.78	170.08	170.39	170.16	169.55	168.59	167.36
26	169.17	169.42	169.29	170.04	169.97	169.80	170.11	170.43	170.15	169.50	168.55	167.35
27	169.19	169.40	169.29	170.03	169.94	169.81	170.28	170.39	170.14	169.46	168.50	167.30
28	169.19	169.34	169.31	170.02	169.98	169.81	170.26	170.38	170.13	169.44	168.46	167.29
29	169.19	169.37	169.33	170.00	---	169.84	170.25	170.36	170.13	169.43	168.41	167.25
30	169.18	169.42	169.36	169.99	---	169.94	170.22	170.35	170.13	169.44	168.37	167.18
31	169.18	---	169.40	170.00	---	169.96	---	170.38	---	169.44	168.31	---
Max	169.41	169.55	169.49	170.05	170.19	169.96	170.28	170.43	170.40	170.19	169.42	168.26
Min	168.97	169.19	169.22	169.43	169.94	169.69	169.97	170.11	170.09	169.43	168.31	167.18

Preview Only

07344480 Cross Lake at Shreveport, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°30′45″, long 93°47′54″ referenced to North American Datum of 1927, in sec.34, T.18 N., R.14 W., Caddo Parish, LA, Hydrologic Unit 11140304, located about 400 yards north of Shreveport Water and Sewage Treatment Plant on spillway guard structure. From April 4, 1996 to December 5, 2002 located on bottom floor of the pump intake building at southwest corner of Shreveport Water and Sewage Treatment Plant.

DRAINAGE AREA.--33.1 mi^2

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

COOPERATION.--Caddo-Bossier Office of Homeland Security and Emergency Preparedness.

REMARKS.--Gage operated as part of a flood alert system for Caddo and Bossier Parishes. Satellite telemetry with rain gage at site. Capacity at spillway crest is 78,500 acre-ft. Reservoir is used for drinking water, flood control, and conservation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 174.73 ft, Apr. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 173.29 ft, Oct. 30; minimum gage height, 169.40 ft, Sept. 30.

Preview Only

07344480 Cross Lake at Shreveport, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	170.26	172.22	171.28	171.35	171.27	171.52	171.27	170.96	170.20	170.59	170.39	170.15
2	170.34	e171.53	171.45	171.38	171.37	171.28	171.25	170.97	170.18	170.57	170.40	170.16
3	170.28	171.18	171.52	171.38	171.35	171.42	171.27	170.96	170.20	170.58	170.38	170.16
4	170.48	171.17	171.55	171.39	171.25	171.54	171.24	170.91	170.23	170.57	170.37	170.13
5	170.70	171.18	171.56	171.39	171.31	171.37	171.21	170.87	170.26	170.58	170.35	170.12
6	170.83	171.15	171.51	171.36	171.42	171.37	171.18	170.83	170.26	170.60	170.35	170.09
7	170.99	171.15	171.50	171.40	e171.38	171.39	171.22	170.80	170.28	170.63	170.36	170.10
8	170.97	171.16	171.41	171.39	e171.24	171.29	171.29	170.76	170.31	170.63	170.36	170.12
9	171.03	171.16	171.45	171.39	171.34	171.31	171.29	170.70	170.36	170.61	170.35	170.13
10	171.12	171.16	171.51	171.39	171.42	171.45	171.31	170.67	170.39	170.66	170.35	170.13
11	171.20	171.14	171.49	171.32	171.34	171.34	171.31	170.64	170.40	170.64	170.35	170.15
12	171.55	171.14	171.54	171.31	171.26	171.17	171.31	170.59	170.41	170.60	170.34	170.13
13	172.34	171.09	171.42	171.28	171.40	171.25	171.27	170.58	170.41	170.57	170.31	170.13
14	172.96	171.08	171.46	171.28	171.50	171.29	171.25	170.56	170.42	170.54	170.30	170.09
15	e172.59	171.07	171.46	171.30	171.38	171.32	171.23	170.56	170.42	170.51	170.29	170.04
16	e171.83	171.10	171.49	171.37	171.42	e171.32	171.22	170.60	170.42	170.48	170.28	170.01
17	171.35	171.07	171.50	171.43	171.42	e171.29	171.22	170.59	170.40	170.48	170.30	169.97
18	171.35	171.06	171.47	171.50	171.46	e171.26	171.25	170.56	170.40	170.50	170.27	169.93
19	171.30	171.05	171.45	171.42	171.42	e171.25	171.25	170.50	170.40	170.47	170.26	169.90
20	171.29	171.05	171.45	171.40	171.41	e171.24	171.24	170.49	170.40	170.44	170.25	169.85
21	171.28	171.06	171.42	171.30	171.37	171.24	171.22	170.54	170.38	170.42	170.25	169.80
22	171.48	171.03	171.35	171.45	171.24	171.19	171.17	170.50	170.37	170.41	170.24	169.75
23	171.98	170.98	171.16	171.41	171.23	171.17	171.14	170.47	170.35	170.41	170.28	169.71
24	171.81	170.98	171.39	171.33	171.24	171.15	171.17	170.46	170.42	170.42	170.27	169.70
25	171.35	170.99	171.83	e171.31	171.21	171.26	171.15	170.43	170.50	170.42	170.26	169.66
26	171.27	170.98	171.69	e171.31	171.27	171.29	171.10	170.40	170.48	170.41	170.23	169.63
27	171.26	170.94	171.27	e171.22	171.40	171.31	171.09	170.38	170.47	170.42	170.22	169.58
28	171.21	170.91	171.23	171.19	171.54	171.35	171.05	170.35	170.47	170.43	170.18	169.53
29	171.06	170.92	171.28	171.32	---	171.33	170.97	170.31	170.50	170.43	170.17	169.49
30	172.72	171.16	171.29	171.51	---	171.31	170.97	170.28	170.58	170.39	170.15	169.46
31	173.07	---	171.32	171.38	---	171.28	---	170.24	---	170.38	170.16	---
Max	173.07	172.22	171.83	171.51	171.54	171.54	171.31	170.97	170.58	170.66	170.40	170.16
Min	170.26	170.91	171.16	171.19	171.21	171.15	170.97	170.24	170.18	170.38	170.15	169.46

Preview Only

07344480 Cross Lake at Shreveport, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°30′47″, long 93°47′48″ referenced to North American Datum of 1927, in sec.34, T.18 N., R.14 W., Caddo Parish, LA, Hydrologic Unit 11140304, located about 400 yards north of Shreveport Water and Sewage Treatment Plant on spillway guard structure. From April 4, 1996 to December 5, 2002 located on bottom floor of the pump intake building at southwest corner of Shreveport Water and Sewage Treatment Plant.

DRAINAGE AREA.--33.1 mi^2

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Satellite and telephone telemetry with rain gage at site. Capacity at spillway crest is 78,500 acre-ft. Reservoir is used for drinking water, flood control, and conservation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 174.73 ft, Apr. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 172.19 ft, July 29; minimum gage height, 169.73 ft, Oct. 12.

Preview Only

07344480 Cross Lake at Shreveport, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	169.98	170.11	e170.68	170.34	170.31	170.09	171.29	171.17	e170.93	170.40	171.47	170.81
2	169.94	170.13	e170.57	170.31	170.32	e169.92	171.36	171.15	170.91	170.37	171.58	170.77
3	169.90	170.13	e170.58	170.35	170.30	e169.94	171.44	171.28	170.91	170.31	171.63	170.75
4	169.86	170.14	e170.65	170.34	170.21	e170.03	171.46	171.40	170.95	170.25	171.74	170.73
5	169.82	170.15	e170.65	170.36	170.28	e170.26	171.50	171.37	170.97	170.26	171.74	170.72
6	169.79	170.22	e170.64	170.56	170.29	e170.47	171.38	171.33	170.91	170.29	171.71	170.70
7	169.82	170.23	e170.61	170.65	170.27	e170.56	171.34	171.29	170.82	170.31	171.68	170.65
8	169.78	170.22	e170.57	170.68	170.20	e170.63	171.29	171.34	170.81	170.30	171.60	170.63
9	169.76	170.21	e170.65	170.68	170.23	e170.62	171.26	171.38	e170.77	170.28	171.55	170.59
10	169.77	e170.17	e170.60	170.73	170.29	e170.40	171.29	171.38	e170.75	170.25	171.52	170.54
11	169.77	e170.25	170.59	170.70	170.43	e170.10	171.27	171.51	e170.81	170.23	171.51	170.51
12	169.76	e170.37	170.56	170.73	170.34	e170.09	171.25	171.50	e170.86	170.23	171.50	170.50
13	169.77	e170.35	170.52	170.71	170.35	e170.21	171.28	171.30	e170.94	170.21	171.45	170.54
14	169.78	e170.34	170.51	170.72	170.40	170.61	171.31	171.33	170.92	170.18	171.40	170.54
15	169.83	e170.29	170.54	170.64	170.37	170.91	171.33	171.24	170.89	170.16	171.35	170.63
16	170.05	e170.20	170.57	170.61	170.33	171.05	171.29	171.26	170.84	170.15	171.28	170.56
17	170.05	e170.18	170.61	170.56	170.35	171.08	171.21	171.25	170.81	170.23	171.27	170.59
18	170.05	e170.20	170.52	170.57	170.40	e171.11	171.26	171.23	170.77	170.25	171.23	170.62
19	170.04	e170.28	170.49	170.57	170.35	171.12	171.38	171.20	170.73	170.22	171.23	170.62
20	170.06	e170.39	170.50	170.56	170.32	171.10	171.50	171.18	170.69	170.18	171.16	170.61
21	170.06	e170.47	170.49	170.50	170.29	171.09	171.50	171.15	170.66	170.20	171.16	170.54
22	170.08	e170.57	170.41	170.47	170.21	171.05	171.45	171.13	170.64	170.31	171.14	170.54
23	170.08	e170.69	170.39	170.42	170.13	170.98	171.39	171.11	170.61	170.33	171.08	170.51
24	170.08	e170.82	170.44	170.39	170.16	171.02	171.36	171.10	170.58	170.34	171.02	170.51
25	170.08	e170.87	170.38	170.37	170.15	171.13	171.32	171.09	170.54	170.28	170.98	170.50
26	170.11	e170.87	170.37	170.35	170.15	e171.21	171.29	171.07	170.50	170.30	170.95	170.46
27	170.11	e170.83	170.44	170.41	170.10	171.10	171.26	171.10	170.46	170.34	170.91	170.41
28	170.09	e170.89	170.41	170.45	170.15	171.24	171.30	171.07	170.43	170.69	170.90	170.41
29	170.09	e170.88	170.42	170.41	---	171.28	171.19	171.07	170.44	171.83	170.90	170.40
30	170.10	e170.80	170.44	170.40	---	171.25	171.19	171.05	170.42	171.84	170.90	170.33
31	170.10	---	170.38	170.32	---	171.29	---	e171.02	---	171.40	170.85	---
Max	170.11	170.89	170.68	170.73	170.43	171.29	171.50	171.51	170.97	171.84	171.74	170.81
Min	169.76	170.11	170.37	170.31	170.10	169.92	171.19	171.02	170.42	170.15	170.85	170.33

Preview Only

Water-Data Report 2008

07344480 Cross Lake at Shreveport, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°30′47″, long 93°47′48″ referenced to North American Datum of 1927, in sec.34, T.18 N., R.14 W., Caddo Parish, LA, Hydrologic Unit 11140304, located about 400 yards north of Shreveport Water and Sewage Treatment Plant on spillway guard structure. From April 4, 1996 to December 5, 2002 located on bottom floor of the pump intake building at southwest corner of Shreveport Water and Sewage Treatment Plant.

DRAINAGE AREA.--33.1 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Satellite and telephone telemetry with rain gage at site. Capacity at spillway crest is 78,500 acre-ft. Reservoir is used for drinking water, flood control, and conservation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 174.73 ft, Apr. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 172.59 ft, May 15; minimum gage height, 170.00 ft, Sept. 30.

Preview Only

07344480 Cross Lake at Shreveport, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	170.80	170.92	170.97	170.96	170.70	171.20	171.18	170.84	171.18	171.13	171.07	170.86
2	170.80	170.94	170.98	170.91	170.69	171.20	171.22	170.85	171.15	171.13	171.07	170.60
3	170.80	170.95	170.97	170.87	170.69	171.30	171.25	170.84	171.12	171.13	171.05	170.62
4	170.80	170.97	170.94	170.85	170.69	171.35	171.33	170.80	171.07	171.15	171.03	170.60
5	170.79	170.98	170.92	170.85	e170.74	171.42	171.40	170.77	171.00	171.17	170.99	170.54
6	170.80	170.96	170.88	170.85	e170.72	171.39	171.40	170.75	170.97	171.17	170.99	170.52
7	170.81	170.97	170.88	170.83	170.70	171.19	171.37	170.72	170.94	171.17	171.00	170.49
8	170.83	170.98	170.87	170.85	170.65	171.26	171.29	170.75	170.92	171.16	171.02	170.48
9	170.84	170.99	170.86	170.83	170.63	171.34	171.27	170.71	170.90	171.16	171.04	170.48
10	170.84	171.00	170.84	170.85	170.61	171.39	171.28	170.69	171.19	171.16	171.04	170.44
11	170.83	171.02	170.83	170.80	170.60	171.31	171.30	170.69	171.24	171.15	171.03	170.43
12	170.82	171.03	170.87	170.78	170.67	171.31	171.28	170.63	171.23	171.14	171.11	170.39
13	170.81	171.05	170.90	170.80	170.69	171.35	171.24	170.64	171.20	171.13	171.10	170.36
14	170.81	171.08	170.84	170.78	170.71	171.32	171.18	171.41	171.16	171.12	171.09	170.51
15	170.83	171.07	171.11	170.76	170.71	171.26	171.13	172.41	171.13	171.11	171.09	170.45
16	170.85	171.05	170.98	170.73	170.83	171.20	171.11	172.09	171.09	171.10	171.06	170.41
17	170.95	171.03	170.94	170.76	171.21	171.21	171.08	171.84	171.06	171.09	171.07	170.38
18	171.10	171.00	170.92	170.70	171.20	171.21	171.14	171.85	171.01	171.10	171.08	170.35
19	171.06	170.99	170.92	170.70	171.19	171.25	171.11	171.79	170.97	171.11	171.15	170.33
20	171.02	170.98	170.96	170.66	171.29	171.19	171.09	171.73	170.94	171.12	171.19	170.31
21	170.99	170.97	170.95	170.63	171.32	171.18	171.06	171.67	170.97	171.12	171.18	170.28
22	171.03	170.94	e170.93	170.67	171.25	171.15	171.05	171.60	171.00	171.11	171.17	170.25
23	170.97	170.90	e170.95	170.66	171.26	171.13	171.03	171.55	171.02	171.09	171.15	170.22
24	170.91	170.92	e170.96	170.63	171.37	171.11	171.02	171.52	171.04	171.11	171.16	170.19
25	170.88	171.05	e170.97	170.62	171.41	171.09	171.00	171.49	171.07	171.13	171.13	170.17
26	170.88	171.10	e170.98	170.67	171.35	171.06	170.95	171.46	171.14	171.14	171.11	170.15
27	170.88	171.05	170.95	170.66	171.17	171.05	170.97	171.42	171.14	171.13	171.12	170.12
28	170.89	171.04	170.98	170.65	171.17	171.03	170.95	171.31	171.14	171.12	171.12	170.08
29	170.89	171.01	170.97	170.67	171.17	171.01	170.91	171.27	171.14	171.11	171.08	170.05
30	170.91	170.99	170.96	170.64	---	171.03	170.88	171.25	171.14	171.10	171.04	170.02
31	170.92	---	170.96	170.70	---	171.09	---	171.22	---	171.08	171.01	---
Max	171.10	171.10	171.11	170.96	171.41	171.42	171.40	172.41	171.24	171.17	171.19	170.86
Min	170.79	170.90	170.83	170.62	170.60	171.01	170.88	170.63	170.90	171.08	170.99	170.02

Preview Only

07344480 Cross Lake at Shreveport, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°30′47″, long 93°47′48″ referenced to North American Datum of 1927, in sec.34, T.18 N., R.14 W., Caddo Parish, LA, Hydrologic Unit 11140304, located about 400 yards north of Shreveport Water and Sewage Treatment Plant on spillway guard structure. From April 4, 1996 to December 5, 2002 located on bottom floor of the pump intake building at southwest corner of Shreveport Water and Sewage Treatment Plant.

DRAINAGE AREA.--

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Satellite and telephone telemetry with rain gage at site. Capacity at spillway crest is 78,500 acre-ft. Reservoir is used for drinking water, flood control, and conservation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 174.73 ft, Apr. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 172.80 ft, July 7; minimum gage height, 168.61 ft, Dec. 22.

Preview Only

07344480 Cross Lake at Shreveport, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	169.66	169.20	e168.98	e169.27	171.26	171.32	171.06	171.20	171.28	171.30	171.30	170.69
2	e169.64	169.19	168.95	e169.35	171.27	171.27	171.03	171.21	171.26	171.33	171.35	170.71
3	169.61	169.15	168.93	e169.40	171.26	171.25	171.03	171.25	171.25	171.31	171.37	170.73
4	169.58	169.14	168.90	169.49	171.26	171.23	170.99	171.31	171.23	171.38	171.35	170.75
5	169.56	169.11	168.88	169.56	171.24	171.20	170.95	171.37	171.20	171.39	171.33	170.77
6	169.49	169.29	168.86	169.60	171.25	171.19	170.92	e171.37	171.17	171.93	171.30	170.80
7	169.46	169.34	168.84	169.79	171.24	171.18	170.89	e171.36	171.17	172.74	171.27	170.81
8	169.42	169.34	168.80	169.89	171.22	171.16	170.85	171.34	171.18	172.40	171.23	170.82
9	169.39	169.32	168.78	169.98	171.23	171.15	170.81	171.34	171.19	171.71	171.20	170.82
10	169.36	169.33	168.77	169.98	171.21	171.14	170.81	171.32	171.22	171.34	171.17	170.84
11	169.35	169.33	168.79	169.98	171.20	171.11	170.87	171.29	171.25	171.34	171.14	170.83
12	e169.31	169.29	168.83	169.98	171.20	171.10	170.81	171.27	171.25	171.34	171.09	170.81
13	169.30	169.27	168.81	170.00	171.26	171.11	170.80	171.25	171.25	171.30	171.06	170.79
14	169.27	e169.27	168.80	170.54	171.08	171.14	170.91	171.22	171.27	171.41	171.02	170.80
15	169.20	e169.23	168.78	171.44	171.16	171.17	170.90	171.23	171.39	171.37	170.97	170.79
16	169.22	e169.21	168.77	171.96	171.20	171.16	170.90	171.27	171.48	171.43	170.92	170.79
17	169.24	e169.19	168.76	171.60	171.23	171.16	170.92	171.25	171.34	171.39	e170.88	170.78
18	169.22	169.17	168.74	171.17	171.19	171.15	170.94	171.23	171.34	171.39	e170.85	170.77
19	169.21	169.15	168.72	171.17	171.20	171.14	170.95	171.23	171.32	171.38	e170.83	170.77
20	169.15	169.12	168.71	171.20	171.20	171.11	170.95	171.23	171.31	171.35	e170.79	170.77
21	169.11	169.10	168.76	171.32	171.19	171.10	170.96	171.24	171.28	171.33	170.75	170.76
22	169.10	169.08	168.78	171.40	171.18	171.09	170.99	171.25	171.28	171.32	170.72	170.75
23	169.06	169.06	168.72	171.37	171.16	171.07	171.00	171.25	171.26	171.30	170.71	170.76
24	169.03	e169.04	168.71	171.26	e171.29	171.05	171.00	171.25	171.28	171.28	170.71	170.76
25	169.04	e169.03	168.92	171.27	e171.35	171.04	171.07	171.26	171.33	171.25	170.71	170.78
26	169.10	169.01	168.85	171.26	e171.27	171.02	171.13	171.27	171.40	171.22	170.70	170.78
27	169.35	169.00	168.84	171.28	171.25	171.02	171.13	171.26	171.29	171.19	170.70	170.80
28	169.26	169.00	168.81	171.29	171.26	171.01	171.15	171.27	171.32	171.20	170.70	170.79
29	169.23	169.00	e168.80	171.27	---	171.02	171.16	171.29	171.33	171.21	170.70	170.79
30	169.21	e169.00	e169.08	171.26	---	171.00	171.18	171.31	171.30	171.19	170.70	170.80
31	169.20	---	169.30	171.24	---	171.03	---	171.32	---	171.22	170.69	---
Max	169.66	169.34	169.30	171.96	171.35	171.32	171.18	171.37	171.48	172.74	171.37	170.84
Min	169.03	169.00	168.71	169.27	171.08	171.00	170.80	171.20	171.17	171.19	170.69	170.69

Preview Only

07344480 Cross Lake at Shreveport, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°30′47″, long 93°47′48″ referenced to North American Datum of 1927, in NE ¼ SW ¼, in sec.34, T.18 N., R.14 W., Caddo Parish, LA, Hydrologic Unit 11140304, located about 400 yards north of Shreveport Water and Sewage Treatment Plant on spillway guard structure. From April 4, 1996 to December 5, 2002 located on bottom floor of the pump intake building at southwest corner of Shreveport Water and Sewage Treatment Plant.

DRAINAGE AREA.—253.13 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1996 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Satellite and telephone telemetry with rain gage at site. Capacity at spillway crest is 65,807 acre-ft. Reservoir is used for drinking water, flood control, and conservation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 174.73 ft, Apr. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 171.56 ft, Mar 23; minimum gage height, 167.13 ft, Jan 21.

Preview Only

07344480 Cross Lake at Shreveport, LA—Continued

DCP
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	169.59	168.73	168.05	167.50	168.18	169.62	171.35	171.13	171.07	170.98	170.84	170.32
2	169.56	168.69	167.99	167.51	168.34	169.65	171.35	171.15	171.07	170.98	170.80	170.28
3	169.53	168.67	168.00	167.47	168.45	169.67	171.34	171.15	171.06	170.96	170.76	170.23
4	169.50	168.64	167.97	167.46	168.53	169.68	171.31	171.17	171.06	170.94	170.72	170.19
5	169.47	168.62	167.95	167.43	168.54	169.72	171.29	171.18	171.05	170.95	170.67	170.16
6	169.44	168.61	167.92	167.40	168.60	169.75	171.28	171.23	171.05	170.93	170.63	170.12
7	169.40	168.59	167.89	167.35	168.62	169.76	171.29	171.28	171.12	170.89	170.59	170.08
8	169.34	168.57	167.92	167.33	168.63	169.78	171.28	171.28	171.13	170.86	170.59	170.04
9	169.31	168.56	167.87	167.31	168.62	169.85	171.22	171.28	171.13	170.82	170.58	170.00
10	169.27	168.51	167.86	167.33	168.72	169.83	171.20	171.27	171.12	170.78	170.58	169.96
11	169.25	168.48	167.85	167.29	168.89	169.87	171.18	171.24	171.13	170.75	170.57	169.93
12	169.22	168.46	167.82	167.26	168.92	169.90	171.16	171.18	171.12	170.71	170.56	169.93
13	169.19	168.45	167.79	167.31	168.92	169.95	171.14	171.16	171.09	170.66	170.55	169.89
14	169.17	168.44	167.80	167.24	168.95	169.94	171.12	171.12	171.08	170.63	170.54	169.85
15	169.14	168.45	167.83	167.20	168.99	169.93	171.09	171.11	171.06	170.62	170.51	169.79
16	169.11	168.39	167.78	167.21	169.03	169.96	171.07	171.10	171.03	170.61	170.50	169.76
17	169.08	168.34	167.75	167.31	169.02	169.96	171.04	171.10	171.02	170.60	170.49	169.76
18	169.06	168.31	167.75	167.24	169.02	170.01	171.04	171.09	171.06	170.58	170.47	169.99
19	169.03	168.29	167.72	167.21	169.01	170.30	171.04	171.10	171.06	170.57	170.47	169.98
20	169.00	168.28	167.70	167.20	169.01	170.95	171.03	171.10	171.05	170.58	170.45	169.92
21	168.96	168.26	167.70	167.19	169.00	171.46	171.09	171.09	171.05	170.57	170.44	169.87
22	168.92	168.23	167.68	167.32	169.00	171.44	171.10	171.09	171.05	170.60	170.44	169.87
23	168.88	168.20	167.66	167.74	168.99	171.42	171.11	171.09	171.06	170.59	170.46	169.85
24	168.84	168.18	167.68	167.96	168.97	171.34	171.12	171.09	171.05	170.59	170.45	169.88
25	168.80	168.14	167.64	168.07	169.10	171.34	171.13	171.09	171.05	170.58	170.46	169.83
26	168.75	168.12	167.60	168.08	169.30	171.32	171.17	171.08	171.04	170.55	170.46	169.80
27	168.72	168.12	167.59	168.07	169.46	171.34	171.16	171.06	171.02	170.79	170.47	e169.78
28	168.69	168.17	167.59	168.10	169.56	171.35	171.13	171.05	171.01	170.90	170.47	e169.72
29	168.66	168.11	167.56	168.17	---	171.36	171.15	171.05	171.00	170.93	170.47	169.67
30	168.64	168.07	167.54	168.19	---	171.36	171.17	171.06	170.99	170.91	170.41	169.68
31	168.66	---	167.51	168.17	---	171.36	---	171.06	---	170.88	170.37	---
Max	169.59	168.73	168.05	168.19	169.56	171.46	171.35	171.28	171.13	170.98	170.84	170.32
Min	168.64	168.07	167.51	167.19	168.18	169.62	171.03	171.05	170.99	170.55	170.37	169.67

Preview Only

October 2004- September 2005

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/2004	170.54[A]
10/2/2004	170.53[A]
10/3/2004	170.49[A]
10/4/2004	170.50[A]
10/5/2004	170.51[A]
10/6/2004	170.49[A]
10/7/2004	170.46[A]
10/8/2004	170.57[A]
10/9/2004	170.73[A]
10/10/2004	170.87[A]
10/11/2004	170.96[A]
10/12/2004	171.02[A]
10/13/2004	171.02[A]
10/14/2004	171.02[A]
10/15/2004	170.97[A]
10/16/2004	170.93[A]
10/17/2004	170.92[A]
10/18/2004	170.91[A]
10/19/2004	170.90[A]
10/20/2004	170.88[A]
10/21/2004	170.86[A]
10/22/2004	170.84[A]
10/23/2004	170.83[A]
10/24/2004	170.81[A]
10/25/2004	170.82[A]
10/26/2004	170.80[A]
10/27/2004	170.78[A]
10/28/2004	170.76[A]
10/29/2004	170.74[A]
10/30/2004	170.72[A]
10/31/2004	170.69[A]

Date	Gage height (ft)
11/1/2004	170.95[A]
11/2/2004	171.11[A]
11/3/2004	171.03[A]
11/4/2004	171.02[A]
11/5/2004	171.04[A]
11/6/2004	171.05[A]
11/7/2004	171.05[A]
11/8/2004	171.03[A]
11/9/2004	171.01[A]
11/10/2004	170.99[A]
11/11/2004	171.01[A]
11/12/2004	170.96[A]
11/13/2004	170.92[A]
11/14/2004	170.91[A]
11/15/2004	170.89[A]
11/16/2004	170.87[A]
11/17/2004	170.86[A]
11/18/2004	170.97[A]
11/19/2004	171.05[A]
11/20/2004	171.13[A]
11/21/2004	171.06[A]
11/22/2004	171.09[A]
11/23/2004	171.01[A]
11/24/2004	171.06[A]
11/25/2004	171.05[A]
11/26/2004	171.04[A]
11/27/2004	171.12[A]
11/28/2004	171.07[A]
11/29/2004	171.12[A]
11/30/2004	171.14[A]

Date	Gage height (ft)
12/1/2004	171.06[A]
12/2/2004	171.18[A]
12/3/2004	171.20[A]
12/4/2004	171.15[A]
12/5/2004	171.08[A]
12/6/2004	171.03[A]
12/7/2004	171.09[A]
12/8/2004	171.14[A]
12/9/2004	171.18[A]
12/10/2004	171.27[A]
12/11/2004	171.17[A]
12/12/2004	171.17[A]
12/13/2004	171.18[A]
12/14/2004	171.16[A]
12/15/2004	171.14[A]
12/16/2004	171.14[A]
12/17/2004	171.14[A]
12/18/2004	171.14[A]
12/19/2004	171.13[A]
12/20/2004	171.10[A]
12/21/2004	171.09[A]
12/22/2004	171.13[A]
12/23/2004	171.15[A]
12/24/2004	171.22[A]
12/25/2004	171.30[A]
12/26/2004	171.30[A]
12/27/2004	171.29[A]
12/28/2004	171.29[A]
12/29/2004	171.30[A]
12/30/2004	171.26[A]
12/31/2004	171.16[A]

Date	Gage height (ft)
1/1/2005	171.17[A]
1/2/2005	171.17[A]
1/3/2005	171.15[A]
1/4/2005	171.16[A]
1/5/2005	171.19[A]
1/6/2005	171.16[A]
1/7/2005	171.21[A]
1/8/2005	171.25[A]
1/9/2005	171.23[A]
1/10/2005	171.27[A]
1/11/2005	171.22[A]
1/12/2005	171.17[A]
1/13/2005	171.24[A]
1/14/2005	171.21[A]
1/15/2005	171.12[A]
1/16/2005	171.10[A]
1/17/2005	171.11[A]
1/18/2005	171.12[A]
1/19/2005	171.14[A]
1/20/2005	171.14[A]
1/21/2005	171.14[A]
1/22/2005	171.16[A]
1/23/2005	171.12[A]
1/24/2005	171.12[A]
1/25/2005	171.12[A]
1/26/2005	171.10[A]
1/27/2005	171.06[A]
1/28/2005	171.17[A]
1/29/2005	171.19[A]
1/30/2005	171.20[A]
1/31/2005	171.17[A]

Date	Gage height (ft)
2/1/2005	171.10[A]
2/2/2005	171.11[A]
2/3/2005	171.19[A]
2/4/2005	171.25[A]
2/5/2005	171.26[A]
2/6/2005	171.18[A]
2/7/2005	171.20[A]
2/8/2005	171.17[A]
2/9/2005	171.09[A]
2/10/2005	171.14[A]
2/11/2005	171.20[A]
2/12/2005	171.21[A]
2/13/2005	171.21[A]
2/14/2005	171.14[A]
2/15/2005	171.15[A]
2/16/2005	171.16[A]
2/17/2005	171.15[A]
2/18/2005	171.15[A]
2/19/2005	171.14[A]
2/20/2005	171.15[A]
2/21/2005	171.15[A]
2/22/2005	171.14[A]
2/23/2005	171.14[A]
2/24/2005	171.13[A]
2/25/2005	171.14[A]
2/26/2005	171.20[A]
2/27/2005	171.18[A]
2/28/2005	171.19[A]

Date	Gage height (ft)
3/1/2005	171.18[A]
3/2/2005	171.17[A]
3/3/2005	171.18[A]
3/4/2005	171.19[A]
3/5/2005	171.18[A]
3/6/2005	171.18[A]
3/7/2005	171.19[A]
3/8/2005	171.17[A]
3/9/2005	171.17[A]
3/10/2005	171.15[A]
3/11/2005	171.16[A]
3/12/2005	171.13[A]
3/13/2005	171.10[A]
3/14/2005	171.05[A]
3/15/2005	171.02[A]
3/16/2005	171.03[A]
3/17/2005	171.01[A]
3/18/2005	170.98[A]
3/19/2005	170.97[A]
3/20/2005	170.96[A]
3/21/2005	170.96[A]
3/22/2005	171.04[A]
3/23/2005	171.05[A]
3/24/2005	171.04[A]
3/25/2005	171.04[A]
3/26/2005	171.04[A]
3/27/2005	171.08[A]
3/28/2005	171.07[A]
3/29/2005	171.07[A]
3/30/2005	171.07[A]
3/31/2005	171.05[A]

Date	Gage height (ft)
4/1/2005	171.12[A]
4/2/2005	171.11[A]
4/3/2005	171.12[A]
4/4/2005	171.11[A]
4/5/2005	171.08[A]
4/6/2005	171.12[A]
4/7/2005	171.12[A]
4/8/2005	171.07[A]
4/9/2005	171.04[A]
4/10/2005	171.03[A]
4/11/2005	171.44[A]
4/12/2005	171.62[A]
4/13/2005	171.32[A]
4/14/2005	171.16[A]
4/15/2005	171.16[A]
4/16/2005	171.17[A]
4/17/2005	171.16[A]
4/18/2005	171.14[A]
4/19/2005	171.11[A]
4/20/2005	171.10[A]
4/21/2005	171.09[A]
4/22/2005	171.09[A]
4/23/2005	171.05[A]
4/24/2005	171.00[A]
4/25/2005	170.97[A]
4/26/2005	170.98[A]
4/27/2005	170.94[A]
4/28/2005	170.90[A]
4/29/2005	170.82[A]
4/30/2005	170.79[A]

Date	Gage height (ft)
5/1/2005	170.75[A]
5/2/2005	170.72[A]
5/3/2005	170.69[A]
5/4/2005	170.66[A]
5/5/2005	170.64[A]
5/6/2005	170.61[A]
5/7/2005	170.58[A]
5/8/2005	170.55[A]
5/9/2005	170.55[A]
5/10/2005	170.53[A]
5/11/2005	170.51[A]
5/12/2005	170.47[A]
5/13/2005	170.45[A]
5/14/2005	170.42[A]
5/15/2005	170.38[A]
5/16/2005	170.33[A]
5/17/2005	170.32[A]
5/18/2005	170.33[A]
5/19/2005	170.34[A]
5/20/2005	170.34[A]
5/21/2005	170.33[A]
5/22/2005	170.33[A]
5/23/2005	170.34[A]
5/24/2005	170.34[A]
5/25/2005	170.31[A]
5/26/2005	170.31[A]
5/27/2005	170.31[A]
5/28/2005	170.31[A]
5/29/2005	170.35[A]
5/30/2005	170.35[A]
5/31/2005	170.37[A]

Date	Gage height (ft)
6/1/2005	170.38[A]
6/2/2005	170.38[A]
6/3/2005	170.38[A]
6/4/2005	170.38[A]
6/5/2005	170.39[A]
6/6/2005	170.38[A]
6/7/2005	170.37[A]
6/8/2005	170.39[A]
6/9/2005	170.38[A]
6/10/2005	170.37[A]
6/11/2005	170.37[A]
6/12/2005	170.37[A]
6/13/2005	170.38[A]
6/14/2005	170.37[A]
6/15/2005	170.35[A]
6/16/2005	170.35[A]
6/17/2005	170.35[A]
6/18/2005	170.34[A]
6/19/2005	170.34[A]
6/20/2005	170.33[A]
6/21/2005	170.33[A]
6/22/2005	170.32[A]
6/23/2005	170.31[A]
6/24/2005	170.29[A]
6/25/2005	170.28[A]
6/26/2005	170.27[A]
6/27/2005	170.26[A]
6/28/2005	170.25[A]
6/29/2005	170.24[A]
6/30/2005	170.22[A]

Date	Gage height (ft)
7/1/2005	170.28[A]
7/2/2005	170.38[A]
7/3/2005	170.39[A]
7/4/2005	170.39[A]
7/5/2005	170.42[A]
7/6/2005	170.53[A]
7/7/2005	170.52[A]
7/8/2005	170.51[A]
7/9/2005	170.50[A]
7/10/2005	170.49[A]
7/11/2005	170.50[A]
7/12/2005	170.50[A]
7/13/2005	170.54[A]
7/14/2005	170.55[A]
7/15/2005	170.54[A]
7/16/2005	170.55[A]
7/17/2005	170.58[A]
7/18/2005	170.64[A]
7/19/2005	170.65[A]
7/20/2005	170.64[A]
7/21/2005	170.64[A]
7/22/2005	170.64[A]
7/23/2005	170.63[A]
7/24/2005	170.62[A]
7/25/2005	170.62[A]
7/26/2005	170.62[A]
7/27/2005	170.61[A]
7/28/2005	170.59[A]
7/29/2005	170.58[A]
7/30/2005	170.56[A]
7/31/2005	170.56[A]

Date	Gage height (ft)
8/1/2005	170.55[A]
8/2/2005	170.53[A]
8/3/2005	170.50[A]
8/4/2005	170.51[A]
8/5/2005	170.48[A]
8/6/2005	170.44[A]
8/7/2005	170.43[A]
8/8/2005	170.42[A]
8/9/2005	170.41[A]
8/10/2005	170.38[A]
8/11/2005	170.35[A]
8/12/2005	170.30[A]
8/13/2005	170.27[A]
8/14/2005	170.22[A]
8/15/2005	170.20[A]
8/16/2005	170.19[A]
8/17/2005	170.16[A]
8/18/2005	170.12[A]
8/19/2005	170.09[A]
8/20/2005	170.05[A]
8/21/2005	170.02[A]
8/22/2005	169.97[A]
8/23/2005	169.94[A]
8/24/2005	169.91[A]
8/25/2005	169.88[A]
8/26/2005	169.84[A]
8/27/2005	169.82[A]
8/28/2005	169.82[A]
8/29/2005	169.79[A]
8/30/2005	169.75[A]
8/31/2005	169.71[A]

Date	Gage height (ft)
9/1/2005	169.65[A]
9/2/2005	169.61[A]
9/3/2005	169.57[A]
9/4/2005	169.52[A]
9/5/2005	169.48[A]
9/6/2005	169.43[A]
9/7/2005	169.38[A]
9/8/2005	169.35[A]
9/9/2005	169.31[A]
9/10/2005	169.27[A]
9/11/2005	169.23[A]
9/12/2005	169.19[A]
9/13/2005	169.16[A]
9/14/2005	169.12[A]
9/15/2005	169.09[A]
9/16/2005	169.07[A]
9/17/2005	169.06[A]
9/18/2005	169.02[A]
9/19/2005	168.99[A]
9/20/2005	168.96[A]
9/21/2005	168.92[A]
9/22/2005	168.87[A]
9/23/2005	168.79[A]
9/24/2005	168.94[A]
9/25/2005	169.58[A]
9/26/2005	169.63[A]
9/27/2005	169.64[A]
9/28/2005	169.64[A]
9/29/2005	169.62[A]
9/30/2005	169.58[A]

Preliminary

October 2003- September 2004

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/2003	169.64[A]
10/2/2003	169.59[A]
10/3/2003	169.57[A]
10/4/2003	169.54[A]
10/5/2003	169.53[A]
10/6/2003	169.54[A]
10/7/2003	169.52[A]
10/8/2003	169.50[A]
10/9/2003	169.50[A]
10/10/2003	169.49[A]
10/11/2003	169.47[A]
10/12/2003	169.44[A]
10/13/2003	169.42[A]
10/14/2003	169.41[A]
10/15/2003	169.36[A]
10/16/2003	169.33[A]
10/17/2003	169.31[A]
10/18/2003	[P]
10/19/2003	169.25[A]
10/20/2003	169.23[A]
10/21/2003	169.20[A]
10/22/2003	169.18[A]
10/23/2003	169.14[A]
10/24/2003	169.12[A]
10/25/2003	169.10[A]
10/26/2003	169.09[A]
10/27/2003	169.07[A]
10/28/2003	169.03[A]
10/29/2003	169.00[A]
10/30/2003	168.97[A]
10/31/2003	168.95[A]

Date	Gage height (ft)
11/1/2003	168.94[A]
11/2/2003	168.92[A]
11/3/2003	168.90[A]
11/4/2003	168.87[A]
11/5/2003	168.85[A]
11/6/2003	168.84[A]
11/7/2003	168.78[A]
11/8/2003	168.76[A]
11/9/2003	168.73[A]
11/10/2003	168.71[A]
11/11/2003	168.69[A]
11/12/2003	168.68[A]
11/13/2003	168.63[A]
11/14/2003	168.59[A]
11/15/2003	168.58[A]
11/16/2003	168.57[A]
11/17/2003	168.56[A]
11/18/2003	168.77[A]
11/19/2003	168.71[A]
11/20/2003	168.67[A]
11/21/2003	168.65[A]
11/22/2003	168.62[A]
11/23/2003	168.63[A]
11/24/2003	168.60[A]
11/25/2003	168.55[A]
11/26/2003	168.53[A]
11/27/2003	168.56[A]
11/28/2003	168.52[A]
11/29/2003	168.47[A]
11/30/2003	168.45[A]

Date	Gage height (ft)
12/1/2003	168.43[A]
12/2/2003	168.40[A]
12/3/2003	168.39[A]
12/4/2003	168.38[A]
12/5/2003	168.36[A]
12/6/2003	168.32[A]
12/7/2003	168.29[A]
12/8/2003	168.27[A]
12/9/2003	168.31[A]
12/10/2003	168.35[A]
12/11/2003	168.26[A]
12/12/2003	168.22[A]
12/13/2003	168.33[A]
12/14/2003	168.31[A]
12/15/2003	168.29[A]
12/16/2003	168.32[A]
12/17/2003	168.26[A]
12/18/2003	168.24[A]
12/19/2003	168.22[A]
12/20/2003	168.19[A]
12/21/2003	168.16[A]
12/22/2003	168.15[A]
12/23/2003	168.17[A]
12/24/2003	168.13[A]
12/25/2003	168.10[A]
12/26/2003	168.08[A]
12/27/2003	168.07[A]
12/28/2003	168.08[A]
12/29/2003	168.20[A]
12/30/2003	168.17[A]
12/31/2003	168.16[A]

Date	Gage height (ft)
1/1/2004	168.14[A]
1/2/2004	168.14[A]
1/3/2004	168.12[A]
1/4/2004	168.14[A]
1/5/2004	168.12[A]
1/6/2004	168.08[A]
1/7/2004	168.04[A]
1/8/2004	168.04[A]
1/9/2004	168.04[A]
1/10/2004	168.01[A]
1/11/2004	167.99[A]
1/12/2004	167.97[A]
1/13/2004	167.97[A]
1/14/2004	167.96[A]
1/15/2004	167.93[A]
1/16/2004	167.90[A]
1/17/2004	167.97[A]
1/18/2004	168.01[A]
1/19/2004	168.00[A]
1/20/2004	167.98[A]
1/21/2004	168.01[A]
1/22/2004	168.04[A]
1/23/2004	168.06[A]
1/24/2004	168.20[A]
1/25/2004	168.51[A]
1/26/2004	168.66[A]
1/27/2004	168.68[A]
1/28/2004	168.67[A]
1/29/2004	168.66[A]
1/30/2004	168.67[A]
1/31/2004	168.63[A]

Date	Gage height (ft)
2/1/2004	168.62[A]
2/2/2004	168.66[A]
2/3/2004	168.63[A]
2/4/2004	168.59[A]
2/5/2004	168.72[A]
2/6/2004	168.78[A]
2/7/2004	168.79[A]
2/8/2004	168.75[A]
2/9/2004	168.77[A]
2/10/2004	168.81[A]
2/11/2004	168.91[A]
2/12/2004	169.19[A]
2/13/2004	169.36[A]
2/14/2004	169.55[A]
2/15/2004	169.73[A]
2/16/2004	169.83[A]
2/17/2004	169.93[A]
2/18/2004	169.98[A]
2/19/2004	170.00[A]
2/20/2004	170.02[A]
2/21/2004	170.01[A]
2/22/2004	170.00[A]
2/23/2004	170.00[A]
2/24/2004	170.00[A]
2/25/2004	170.25[A]
2/26/2004	170.60[A]
2/27/2004	170.83[A]
2/28/2004	170.95[A]
2/29/2004	171.01[A]

Date	Gage height (ft)
3/1/2004	171.11[A]
3/2/2004	171.11[A]
3/3/2004	171.08[A]
3/4/2004	171.02[A]
3/5/2004	171.17[A]
3/6/2004	171.19[A]
3/7/2004	[P]
3/8/2004	[P]
3/9/2004	[P]
3/10/2004	171.08[A]
3/11/2004	171.09[A]
3/12/2004	171.08[A]
3/13/2004	171.06[A]
3/14/2004	171.07[A]
3/15/2004	171.02[A]
3/16/2004	171.05[A]
3/17/2004	171.07[A]
3/18/2004	171.06[A]
3/19/2004	171.03[A]
3/20/2004	171.03[A]
3/21/2004	171.04[A]
3/22/2004	171.00[A]
3/23/2004	170.99[A]
3/24/2004	170.96[A]
3/25/2004	170.95[A]
3/26/2004	170.95[A]
3/27/2004	170.94[A]
3/28/2004	170.94[A]
3/29/2004	171.05[A]
3/30/2004	171.07[A]
3/31/2004	171.04[A]

Date	Gage height (ft)
4/1/2004	171.01[A]
4/2/2004	170.98[A]
4/3/2004	170.97[A]
4/4/2004	170.95[A]
4/5/2004	170.91[A]
4/6/2004	170.90[A]
4/7/2004	170.90[A]
4/8/2004	170.89[A]
4/9/2004	170.87[A]
4/10/2004	170.86[A]
4/11/2004	170.83[A]
4/12/2004	170.87[A]
4/13/2004	170.91[A]
4/14/2004	170.89[A]
4/15/2004	170.88[A]
4/16/2004	170.87[A]
4/17/2004	170.85[A]
4/18/2004	170.83[A]
4/19/2004	170.80[A]
4/20/2004	170.79[A]
4/21/2004	170.76[A]
4/22/2004	170.74[A]
4/23/2004	170.71[A]
4/24/2004	170.72[A]
4/25/2004	170.84[A]
4/26/2004	170.99[A]
4/27/2004	171.05[A]
4/28/2004	171.06[A]
4/29/2004	171.12[A]
4/30/2004	171.25[A]

Date	Gage height (ft)
5/1/2004	171.44[A]
5/2/2004	171.52[A]
5/3/2004	171.48[A]
5/4/2004	171.50[A]
5/5/2004	171.49[A]
5/6/2004	171.48[A]
5/7/2004	171.45[A]
5/8/2004	171.42[A]
5/9/2004	171.40[A]
5/10/2004	171.37[A]
5/11/2004	171.34[A]
5/12/2004	171.38[A]
5/13/2004	171.42[A]
5/14/2004	171.44[A]
5/15/2004	171.34[A]
5/16/2004	171.32[A]
5/17/2004	171.31[A]
5/18/2004	171.29[A]
5/19/2004	171.27[A]
5/20/2004	171.25[A]
5/21/2004	171.22[A]
5/22/2004	171.19[A]
5/23/2004	171.16[A]
5/24/2004	171.12[A]
5/25/2004	171.09[A]
5/26/2004	171.09[A]
5/27/2004	171.09[A]
5/28/2004	171.09[A]
5/29/2004	171.17[A]
5/30/2004	171.18[A]
5/31/2004	171.24[A]

Date	Gage height (ft)
6/1/2004	171.48[A]
6/2/2004	171.54[A]
6/3/2004	171.43[A]
6/4/2004	171.43[A]
6/5/2004	171.40[A]
6/6/2004	171.67[A]
6/7/2004	171.59[A]
6/8/2004	171.53[A]
6/9/2004	171.55[A]
6/10/2004	171.43[A]
6/11/2004	171.51[A]
6/12/2004	171.42[A]
6/13/2004	171.36[A]
6/14/2004	171.34[A]
6/15/2004	171.38[A]
6/16/2004	171.42[A]
6/17/2004	171.46[A]
6/18/2004	171.42[A]
6/19/2004	171.38[A]
6/20/2004	171.41[A]
6/21/2004	171.41[A]
6/22/2004	171.41[A]
6/23/2004	171.37[A]
6/24/2004	171.35[A]
6/25/2004	171.33[A]
6/26/2004	171.33[A]
6/27/2004	171.46[A]
6/28/2004	171.41[A]
6/29/2004	171.42[A]
6/30/2004	171.41[A]

Date	Gage height (ft)
7/1/2004	171.38[A]
7/2/2004	171.44[A]
7/3/2004	171.38[A]
7/4/2004	171.40[A]
7/5/2004	171.39[A]
7/6/2004	171.37[A]
7/7/2004	171.35[A]
7/8/2004	171.32[A]
7/9/2004	171.28[A]
7/10/2004	171.26[A]
7/11/2004	171.24[A]
7/12/2004	171.21[A]
7/13/2004	171.18[A]
7/14/2004	171.14[A]
7/15/2004	171.11[A]
7/16/2004	171.08[A]
7/17/2004	171.05[A]
7/18/2004	171.02[A]
7/19/2004	170.98[A]
7/20/2004	170.95[A]
7/21/2004	170.91[A]
7/22/2004	170.87[A]
7/23/2004	170.84[A]
7/24/2004	170.83[A]
7/25/2004	170.83[A]
7/26/2004	170.81[A]
7/27/2004	170.79[A]
7/28/2004	170.78[A]
7/29/2004	170.79[A]
7/30/2004	170.81[A]
7/31/2004	170.78[A]

Date	Gage height (ft)
9/1/2004	170.62[A]
9/2/2004	170.62[A]
9/3/2004	170.62[A]
9/4/2004	170.61[A]
9/5/2004	170.62[A]
9/6/2004	170.63[A]
9/7/2004	170.61[A]
9/8/2004	170.58[A]
9/9/2004	170.53[A]
9/10/2004	170.49[A]
9/11/2004	170.46[A]
9/12/2004	170.42[A]
9/13/2004	170.39[A]
9/14/2004	170.34[A]
9/15/2004	170.31[A]
9/16/2004	170.28[A]
9/17/2004	170.24[A]
9/18/2004	170.19[A]
9/19/2004	170.13[A]
9/20/2004	170.09[A]
9/21/2004	170.04[A]
9/22/2004	170.00[A]
9/23/2004	169.96[A]
9/24/2004	170.19[A]
9/25/2004	170.59[A]
9/26/2004	170.70[A]
9/27/2004	170.69[A]
9/28/2004	170.67[A]
9/29/2004	170.64[A]
9/30/2004	170.61[A]

Date	Gage height (ft)
8/1/2004	170.76[A]
8/2/2004	170.73[A]
8/3/2004	170.73[A]
8/4/2004	170.73[A]
8/5/2004	170.72[A]
8/6/2004	170.69[A]
8/7/2004	170.67[A]
8/8/2004	170.67[A]
8/9/2004	170.67[A]
8/10/2004	170.67[A]
8/11/2004	170.66[A]
8/12/2004	170.64[A]
8/13/2004	170.62[A]
8/14/2004	170.61[A]
8/15/2004	170.60[A]
8/16/2004	170.60[A]
8/17/2004	170.59[A]
8/18/2004	170.59[A]
8/19/2004	170.62[A]
8/20/2004	170.73[A]
8/21/2004	170.74[A]
8/22/2004	170.73[A]
8/23/2004	170.71[A]
8/24/2004	170.70[A]
8/25/2004	170.68[A]
8/26/2004	170.65[A]
8/27/2004	170.65[A]
8/28/2004	170.65[A]
8/29/2004	170.65[A]
8/30/2004	170.63[A]
8/31/2004	170.62[A]

Preliminary

October 2002- September 2003

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/2002	P
10/2/2002	P
10/3/2002	P
10/4/2002	P
10/5/2002	P
10/6/2002	P
10/7/2002	P
10/8/2002	P
10/9/2002	P
10/10/2002	P
10/11/2002	P
10/12/2002	P
10/13/2002	P
10/14/2002	P
10/15/2002	P
10/16/2002	P
10/17/2002	P
10/18/2002	P
10/19/2002	168.65[A]
10/20/2002	168.68[A]
10/21/2002	168.65[A]
10/22/2002	168.63[A]
10/23/2002	168.61[A]
10/24/2002	168.59[A]
10/25/2002	168.59[A]
10/26/2002	168.58[A]
10/27/2002	168.56[A]
10/28/2002	168.57[A]
10/29/2002	168.61[A]
10/30/2002	168.63[A]
10/31/2002	168.74[A]

Date	Gage height (ft)
11/1/2002	168.63[A]
11/2/2002	168.47[A]
11/3/2002	168.50[A]
11/4/2002	168.49[A]
11/5/2002	168.73[A]
11/6/2002	168.75[A]
11/7/2002	168.72[A]
11/8/2002	168.69[A]
11/9/2002	168.69[A]
11/10/2002	168.69[A]
11/11/2002	168.65[A]
11/12/2002	168.63[A]
11/13/2002	168.60[A]
11/14/2002	168.57[A]
11/15/2002	168.59[A]
11/16/2002	168.57[A]
11/17/2002	168.53[A]
11/18/2002	168.51[A]
11/19/2002	168.57[A]
11/20/2002	168.59[A]
11/21/2002	168.45[A]
11/22/2002	168.42[A]
11/23/2002	168.42[A]
11/24/2002	168.43[A]
11/25/2002	168.46[A]
11/26/2002	168.55[A]
11/27/2002	168.58[A]
11/28/2002	168.60[A]
11/29/2002	168.62[A]
11/30/2002	168.64[A]

Date	Gage height (ft)
12/1/2002	168.64[A]
12/2/2002	168.67[A]
12/3/2002	168.70[A]
12/4/2002	P
12/5/2002	P
12/6/2002	P
12/7/2002	169.11[A]
12/8/2002	169.13[A]
12/9/2002	169.17[A]
12/10/2002	169.19[A]
12/11/2002	169.17[A]
12/12/2002	169.20[A]
12/13/2002	169.45[A]
12/14/2002	169.50[A]
12/15/2002	169.56[A]
12/16/2002	169.57[A]
12/17/2002	169.57[A]
12/18/2002	169.59[A]
12/19/2002	169.70[A]
12/20/2002	169.85[A]
12/21/2002	169.98[A]
12/22/2002	170.08[A]
12/23/2002	170.17[A]
12/24/2002	170.53[A]
12/25/2002	170.76[A]
12/26/2002	170.95[A]
12/27/2002	171.07[A]
12/28/2002	171.10[A]
12/29/2002	171.07[A]
12/30/2002	170.93[A]
12/31/2002	170.87[A]

Date	Gage height (ft)
1/1/2003	170.89[A]
1/2/2003	171.11[A]
1/3/2003	170.92[A]
1/4/2003	170.91[A]
1/5/2003	170.92[A]
1/6/2003	170.92[A]
1/7/2003	170.93[A]
1/8/2003	170.94[A]
1/9/2003	170.94[A]
1/10/2003	170.92[A]
1/11/2003	170.90[A]
1/12/2003	170.88[A]
1/13/2003	170.88[A]
1/14/2003	170.87[A]
1/15/2003	170.84[A]
1/16/2003	170.89[A]
1/17/2003	170.83[A]
1/18/2003	170.81[A]
1/19/2003	170.79[A]
1/20/2003	170.78[A]
1/21/2003	170.77[A]
1/22/2003	170.75[A]
1/23/2003	170.72[A]
1/24/2003	170.69[A]
1/25/2003	P
1/26/2003	P
1/27/2003	P
1/28/2003	170.66[A]
1/29/2003	170.66[A]
1/30/2003	170.65[A]
1/31/2003	170.65[A]

Date	Gage height (ft)
2/1/2003	170.64[A]
2/2/2003	170.64[A]
2/3/2003	170.65[A]
2/4/2003	170.61[A]
2/5/2003	P
2/6/2003	P
2/7/2003	170.68[A]
2/8/2003	170.68[A]
2/9/2003	170.71[A]
2/10/2003	170.75[A]
2/11/2003	170.77[A]
2/12/2003	170.78[A]
2/13/2003	170.78[A]
2/14/2003	170.81[A]
2/15/2003	P
2/16/2003	P
2/17/2003	P
2/18/2003	P
2/19/2003	170.91[A]
2/20/2003	170.83[A]
2/21/2003	171.00[A]
2/22/2003	P
2/23/2003	P
2/24/2003	P
2/25/2003	171.23[A]
2/26/2003	170.86[A]
2/27/2003	170.73[A]
2/28/2003	170.81[A]

Date	Gage height (ft)
3/1/2003	170.86[A]
3/2/2003	170.92[A]
3/3/2003	170.85[A]
3/4/2003	170.79[A]
3/5/2003	170.82[A]
3/6/2003	170.83[A]
3/7/2003	170.83[A]
3/8/2003	170.85[A]
3/9/2003	170.85[A]
3/10/2003	170.84[A]
3/11/2003	170.85[A]
3/12/2003	170.85[A]
3/13/2003	P
3/14/2003	P
3/15/2003	170.75[A]
3/16/2003	170.76[A]
3/17/2003	170.75[A]
3/18/2003	170.81[A]
3/19/2003	171.06[A]
3/20/2003	171.14[A]
3/21/2003	170.97[A]
3/22/2003	170.98[A]
3/23/2003	170.95[A]
3/24/2003	170.95[A]
3/25/2003	170.94[A]
3/26/2003	170.90[A]
3/27/2003	170.88[A]
3/28/2003	170.89[A]
3/29/2003	170.87[A]
3/30/2003	170.84[A]
3/31/2003	170.82[A]

Date	Gage height (ft)
4/1/2003	170.79[A]
4/2/2003	170.77[A]
4/3/2003	170.75[A]
4/4/2003	170.75[A]
4/5/2003	170.73[A]
4/6/2003	170.87[A]
4/7/2003	171.12[A]
4/8/2003	171.01[A]
4/9/2003	170.86[A]
4/10/2003	170.81[A]
4/11/2003	170.82[A]
4/12/2003	170.82[A]
4/13/2003	170.81[A]
4/14/2003	170.80[A]
4/15/2003	170.76[A]
4/16/2003	170.76[A]
4/17/2003	170.73[A]
4/18/2003	170.70[A]
4/19/2003	170.68[A]
4/20/2003	170.68[A]
4/21/2003	170.67[A]
4/22/2003	170.63[A]
4/23/2003	170.59[A]
4/24/2003	170.60[A]
4/25/2003	170.60[A]
4/26/2003	170.54[A]
4/27/2003	170.51[A]
4/28/2003	170.49[A]
4/29/2003	170.47[A]
4/30/2003	170.44[A]

Date	Gage height (ft)
5/1/2003	170.46[A]
5/2/2003	170.47[A]
5/3/2003	170.47[A]
5/4/2003	170.49[A]
5/5/2003	170.50[A]
5/6/2003	170.50[A]
5/7/2003	170.53[A]
5/8/2003	170.53[A]
5/9/2003	170.54[A]
5/10/2003	170.55[A]
5/11/2003	170.54[A]
5/12/2003	170.53[A]
5/13/2003	170.53[A]
5/14/2003	170.56[A]
5/15/2003	170.74[A]
5/16/2003	170.79[A]
5/17/2003	170.84[A]
5/18/2003	170.83[A]
5/19/2003	170.82[A]
5/20/2003	170.81[A]
5/21/2003	170.78[A]
5/22/2003	170.75[A]
5/23/2003	170.73[A]
5/24/2003	170.71[A]
5/25/2003	170.71[A]
5/26/2003	170.69[A]
5/27/2003	170.68[A]
5/28/2003	170.70[A]
5/29/2003	170.70[A]
5/30/2003	170.70[A]
5/31/2003	170.70[A]

Date	Gage height (ft)
6/1/2003	170.67[A]
6/2/2003	170.69[A]
6/3/2003	170.68[A]
6/4/2003	170.66[A]
6/5/2003	170.65[A]
6/6/2003	170.75[A]
6/7/2003	170.77[A]
6/8/2003	170.78[A]
6/9/2003	170.77[A]
6/10/2003	170.78[A]
6/11/2003	170.80[A]
6/12/2003	170.80[A]
6/13/2003	170.88[A]
6/14/2003	170.91[A]
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6/16/2003	170.99[A]
6/17/2003	171.06[A]
6/18/2003	171.11[A]
6/19/2003	171.15[A]
6/20/2003	171.14[A]
6/21/2003	171.11[A]
6/22/2003	171.09[A]
6/23/2003	171.08[A]
6/24/2003	171.08[A]
6/25/2003	171.08[A]
6/26/2003	171.09[A]
6/27/2003	171.07[A]
6/28/2003	171.07[A]
6/29/2003	171.06[A]
6/30/2003	171.06[A]

Date	Gage height (ft)
7/1/2003	171.08[A]
7/2/2003	171.08[A]
7/3/2003	171.08[A]
7/4/2003	171.08[A]
7/5/2003	171.08[A]
7/6/2003	171.09[A]
7/7/2003	171.08[A]
7/8/2003	171.09[A]
7/9/2003	171.15[A]
7/10/2003	171.18[A]
7/11/2003	171.17[A]
7/12/2003	171.17[A]
7/13/2003	171.16[A]
7/14/2003	171.16[A]
7/15/2003	171.15[A]
7/16/2003	171.16[A]
7/17/2003	171.16[A]
7/18/2003	171.15[A]
7/19/2003	171.14[A]
7/20/2003	171.14[A]
7/21/2003	171.14[A]
7/22/2003	171.12[A]
7/23/2003	171.11[A]
7/24/2003	171.06[A]
7/25/2003	171.02[A]
7/26/2003	170.99[A]
7/27/2003	170.96[A]
7/28/2003	170.95[A]
7/29/2003	170.91[A]
7/30/2003	170.89[A]
7/31/2003	171.00[A]

Date	Gage height (ft)
8/1/2003	170.99[A]
8/2/2003	170.96[A]
8/3/2003	170.94[A]
8/4/2003	170.90[A]
8/5/2003	170.87[A]
8/6/2003	170.83[A]
8/7/2003	170.78[A]
8/8/2003	170.74[A]
8/9/2003	170.70[A]
8/10/2003	170.66[A]
8/11/2003	170.66[A]
8/12/2003	170.92[A]
8/13/2003	170.97[A]
8/14/2003	170.95[A]
8/15/2003	170.93[A]
8/16/2003	170.91[A]
8/17/2003	170.89[A]
8/18/2003	170.85[A]
8/19/2003	170.82[A]
8/20/2003	170.78[A]
8/21/2003	170.74[A]
8/22/2003	170.70[A]
8/23/2003	170.67[A]
8/24/2003	170.63[A]
8/25/2003	170.60[A]
8/26/2003	170.56[A]
8/27/2003	170.51[A]
8/28/2003	170.49[A]
8/29/2003	170.45[A]
8/30/2003	170.41[A]
8/31/2003	170.37[A]

Date	Gage height (ft)
9/1/2003	170.39[A]
9/2/2003	170.44[A]
9/3/2003	170.41[A]
9/4/2003	170.38[A]
9/5/2003	170.33[A]
9/6/2003	170.29[A]
9/7/2003	170.26[A]
9/8/2003	170.22[A]
9/9/2003	170.19[A]
9/10/2003	170.16[A]
9/11/2003	170.13[A]
9/12/2003	170.13[A]
9/13/2003	170.15[A]
9/14/2003	170.12[A]
9/15/2003	170.08[A]
9/16/2003	170.04[A]
9/17/2003	170.00[A]
9/18/2003	169.98[A]
9/19/2003	169.95[A]
9/20/2003	169.91[A]
9/21/2003	169.91[A]
9/22/2003	169.96[A]
9/23/2003	169.94[A]
9/24/2003	169.91[A]
9/25/2003	169.88[A]
9/26/2003	169.86[A]
9/27/2003	169.83[A]
9/28/2003	169.79[A]
9/29/2003	169.72[A]
9/30/2003	169.68[A]

Preview Only

October 2001- September 2002

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/2001	169.93[A]
10/2/2001	169.90[A]
10/3/2001	169.87[A]
10/4/2001	169.83[A]
10/5/2001	169.86[A]
10/6/2001	169.90[A]
10/7/2001	169.87[A]
10/8/2001	169.84[A]
10/9/2001	169.81[A]
10/10/2001	169.80[A]
10/11/2001	169.85[A]
10/12/2001	169.88[A]
10/13/2001	170.27[A]
10/14/2001	170.53[A]
10/15/2001	170.70[A]
10/16/2001	170.79[A]
10/17/2001	170.85[A]
10/18/2001	170.84[A]
10/19/2001	170.82[A]
10/20/2001	170.81[A]
10/21/2001	170.80[A]
10/22/2001	170.78[A]
10/23/2001	170.77[A]
10/24/2001	170.77[A]
10/25/2001	170.73[A]
10/26/2001	170.70[A]
10/27/2001	170.67[A]
10/28/2001	170.64[A]
10/29/2001	170.62[A]
10/30/2001	170.60[A]
10/31/2001	170.57[A]

Date	Gage height (ft)
11/1/2001	170.55[A]
11/2/2001	170.54[A]
11/3/2001	170.53[A]
11/4/2001	170.51[A]
11/5/2001	170.49[A]
11/6/2001	170.47[A]
11/7/2001	170.45[A]
11/8/2001	170.43[A]
11/9/2001	170.42[A]
11/10/2001	170.40[A]
11/11/2001	170.38[A]
11/12/2001	170.36[A]
11/13/2001	170.33[A]
11/14/2001	170.31[A]
11/15/2001	170.30[A]
11/16/2001	170.28[A]
11/17/2001	170.27[A]
11/18/2001	170.25[A]
11/19/2001	170.24[A]
11/20/2001	170.27[A]
11/21/2001	170.27[A]
11/22/2001	170.16[A]
11/23/2001	170.21[A]
11/24/2001	170.24[A]
11/25/2001	170.12[A]
11/26/2001	170.12[A]
11/27/2001	170.23[A]
11/28/2001	170.32[A]
11/29/2001	170.64[A]
11/30/2001	170.64[A]

Date	Gage height (ft)
12/1/2001	170.70[A]
12/2/2001	170.72[A]
12/3/2001	170.72[A]
12/4/2001	170.72[A]
12/5/2001	170.79[A]
12/6/2001	170.73[A]
12/7/2001	170.71[A]
12/8/2001	170.78[A]
12/9/2001	170.78[A]
12/10/2001	170.78[A]
12/11/2001	170.79[A]
12/12/2001	171.14[A]
12/13/2001	171.35[A]
12/14/2001	171.50[A]
12/15/2001	171.28[A]
12/16/2001	170.96[A]
12/17/2001	171.36[A]
12/18/2001	171.72[A]
12/19/2001	171.42[A]
12/20/2001	170.91[A]
12/21/2001	170.77[A]
12/22/2001	170.80[A]
12/23/2001	170.82[A]
12/24/2001	170.82[A]
12/25/2001	170.81[A]
12/26/2001	170.83[A]
12/27/2001	170.80[A]
12/28/2001	170.83[A]
12/29/2001	170.81[A]
12/30/2001	170.75[A]
12/31/2001	170.75[A]

Date	Gage height (ft)
1/1/2002	170.73[A]
1/2/2002	170.76[A]
1/3/2002	170.80[A]
1/4/2002	170.76[A]
1/5/2002	170.81[A]
1/6/2002	170.87[A]
1/7/2002	170.93[A]
1/8/2002	171.05[A]
1/9/2002	170.98[A]
1/10/2002	170.98[A]
1/11/2002	171.02[A]
1/12/2002	171.00[A]
1/13/2002	170.95[A]
1/14/2002	170.96[A]
1/15/2002	170.92[A]
1/16/2002	170.92[A]
1/17/2002	170.92[A]
1/18/2002	170.91[A]
1/19/2002	170.95[A]
1/20/2002	170.94[A]
1/21/2002	170.95[A]
1/22/2002	170.95[A]
1/23/2002	170.96[A]
1/24/2002	170.91[A]
1/25/2002	170.81[A]
1/26/2002	170.84[A]
1/27/2002	170.86[A]
1/28/2002	170.87[A]
1/29/2002	170.89[A]
1/30/2002	170.88[A]
1/31/2002	170.91[A]

Date	Gage height (ft)
2/1/2002	170.82[A]
2/2/2002	170.80[A]
2/3/2002	170.80[A]
2/4/2002	170.79[A]
2/5/2002	170.85[A]
2/6/2002	171.04[A]
2/7/2002	171.14[A]
2/8/2002	171.12[A]
2/9/2002	171.12[A]
2/10/2002	171.10[A]
2/11/2002	171.02[A]
2/12/2002	171.05[A]
2/13/2002	171.05[A]
2/14/2002	171.02[A]
2/15/2002	171.04[A]
2/16/2002	171.05[A]
2/17/2002	171.07[A]
2/18/2002	171.01[A]
2/19/2002	171.06[A]
2/20/2002	171.02[A]
2/21/2002	171.02[A]
2/22/2002	171.09[A]
2/23/2002	171.13[A]
2/24/2002	171.13[A]
2/25/2002	171.16[A]
2/26/2002	171.16[A]
2/27/2002	171.07[A]
2/28/2002	171.10[A]

Date	Gage height (ft)
3/1/2002	171.04[A]
3/2/2002	171.09[A]
3/3/2002	171.08[A]
3/4/2002	170.94[A]
3/5/2002	170.96[A]
3/6/2002	170.90[A]
3/7/2002	170.88[A]
3/8/2002	170.88[A]
3/9/2002	170.96[A]
3/10/2002	170.91[A]
3/11/2002	170.92[A]
3/12/2002	171.08[A]
3/13/2002	171.15[A]
3/14/2002	171.15[A]
3/15/2002	171.15[A]
3/16/2002	171.14[A]
3/17/2002	171.18[A]
3/18/2002	171.12[A]
3/19/2002	171.20[A]
3/20/2002	171.28[A]
3/21/2002	171.39[A]
3/22/2002	171.27[A]
3/23/2002	171.06[A]
3/24/2002	171.03[A]
3/25/2002	171.08[A]
3/26/2002	170.98[A]
3/27/2002	170.94[A]
3/28/2002	170.95[A]
3/29/2002	170.99[A]
3/30/2002	170.97[A]
3/31/2002	170.98[A]

Date	Gage height (ft)
4/1/2002	171.11[A]
4/2/2002	171.26[A]
4/3/2002	171.13[A]
4/4/2002	171.01[A]
4/5/2002	170.99[A]
4/6/2002	170.97[A]
4/7/2002	170.90[A]
4/8/2002	171.16[A]
4/9/2002	171.33[A]
4/10/2002	171.20[A]
4/11/2002	171.04[A]
4/12/2002	171.12[A]
4/13/2002	171.13[A]
4/14/2002	171.14[A]
4/15/2002	171.12[A]
4/16/2002	171.15[A]
4/17/2002	171.13[A]
4/18/2002	171.12[A]
4/19/2002	171.20[A]
4/20/2002	171.10[A]
4/21/2002	171.08[A]
4/22/2002	171.06[A]
4/23/2002	171.07[A]
4/24/2002	171.03[A]
4/25/2002	170.97[A]
4/26/2002	170.94[A]
4/27/2002	170.92[A]
4/28/2002	170.94[A]
4/29/2002	170.93[A]
4/30/2002	170.90[A]

Date	Gage height (ft)
5/1/2002	170.86[A]
5/2/2002	170.83[A]
5/3/2002	170.81[A]
5/4/2002	170.79[A]
5/5/2002	170.75[A]
5/6/2002	P
5/7/2002	170.72[A]
5/8/2002	170.70[A]
5/9/2002	170.67[A]
5/10/2002	170.67[A]
5/11/2002	170.66[A]
5/12/2002	170.63[A]
5/13/2002	P
5/14/2002	P
5/15/2002	P
5/16/2002	P
5/17/2002	P
5/18/2002	P
5/19/2002	P
5/20/2002	P
5/21/2002	170.56[A]
5/22/2002	170.56[A]
5/23/2002	170.56[A]
5/24/2002	170.55[A]
5/25/2002	170.55[A]
5/26/2002	170.52[A]
5/27/2002	170.54[A]
5/28/2002	170.54[A]
5/29/2002	170.56[A]
5/30/2002	P
5/31/2002	P

Date	Gage height (ft)
6/1/2002	170.54[A]
6/2/2002	170.55[A]
6/3/2002	170.52[A]
6/4/2002	170.52[A]
6/5/2002	170.54[A]
6/6/2002	170.50[A]
6/7/2002	170.47[A]
6/8/2002	170.43[A]
6/9/2002	170.53[A]
6/10/2002	170.42[A]
6/11/2002	170.42[A]
6/12/2002	170.43[A]
6/13/2002	170.50[A]
6/14/2002	170.47[A]
6/15/2002	170.47[A]
6/16/2002	170.39[A]
6/17/2002	170.43[A]
6/18/2002	170.41[A]
6/19/2002	P
6/20/2002	170.41[A]
6/21/2002	170.36[A]
6/22/2002	170.39[A]
6/23/2002	170.41[A]
6/24/2002	170.36[A]
6/25/2002	170.38[A]
6/26/2002	P
6/27/2002	170.59[A]
6/28/2002	170.49[A]
6/29/2002	170.56[A]
6/30/2002	170.54[A]

Date	Gage height (ft)
7/1/2002	170.57[A]
7/2/2002	170.64[A]
7/3/2002	170.67[A]
7/4/2002	170.73[A]
7/5/2002	170.65[A]
7/6/2002	170.56[A]
7/7/2002	170.56[A]
7/8/2002	170.55[A]
7/9/2002	170.58[A]
7/10/2002	170.64[A]
7/11/2002	170.66[A]
7/12/2002	170.60[A]
7/13/2002	170.65[A]
7/14/2002	170.65[A]
7/15/2002	170.69[A]
7/16/2002	170.82[A]
7/17/2002	170.91[A]
7/18/2002	P
7/19/2002	170.90[A]
7/20/2002	170.75[A]
7/21/2002	170.72[A]
7/22/2002	170.68[A]
7/23/2002	170.67[A]
7/24/2002	170.67[A]
7/25/2002	170.68[A]
7/26/2002	170.69[A]
7/27/2002	170.70[A]
7/28/2002	170.69[A]
7/29/2002	170.69[A]
7/30/2002	170.69[A]
7/31/2002	170.68[A]

Date	Gage height (ft)
8/1/2002	170.67[A]
8/2/2002	170.64[A]
8/3/2002	170.59[A]
8/4/2002	170.54[A]
8/5/2002	170.50[A]
8/6/2002	170.46[A]
8/7/2002	170.42[A]
8/8/2002	170.38[A]
8/9/2002	170.34[A]
8/10/2002	170.29[A]
8/11/2002	170.25[A]
8/12/2002	170.20[A]
8/13/2002	P
8/14/2002	170.19[A]
8/15/2002	170.17[A]
8/16/2002	170.17[A]
8/17/2002	170.16[A]
8/18/2002	170.14[A]
8/19/2002	170.11[A]
8/20/2002	170.07[A]
8/21/2002	170.04[A]
8/22/2002	170.01[A]
8/23/2002	169.98[A]
8/24/2002	169.95[A]
8/25/2002	169.90[A]
8/26/2002	169.87[A]
8/27/2002	169.83[A]
8/28/2002	169.79[A]
8/29/2002	169.75[A]
8/30/2002	169.71[A]
8/31/2002	169.67[A]

Date	Gage height (ft)
9/1/2002	169.64[A]
9/2/2002	169.60[A]
9/3/2002	169.56[A]
9/4/2002	169.55[A]
9/5/2002	169.54[A]
9/6/2002	169.50[A]
9/7/2002	P
9/8/2002	P
9/9/2002	P
9/10/2002	169.40[A]
9/11/2002	169.37[A]
9/12/2002	169.33[A]
9/13/2002	169.30[A]
9/14/2002	169.26[A]
9/15/2002	P
9/16/2002	P
9/17/2002	P
9/18/2002	P
9/19/2002	P
9/20/2002	P
9/21/2002	P
9/22/2002	P
9/23/2002	P
9/24/2002	P
9/25/2002	P
9/26/2002	P
9/27/2002	P
9/28/2002	P
9/29/2002	P
9/30/2002	P

Preview Only

October 2000- September 2001

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/2000	168.53[A]
10/2/2000	168.50[A]
10/3/2000	168.47[A]
10/4/2000	168.44[A]
10/5/2000	168.42[A]
10/6/2000	168.48[A]
10/7/2000	168.45[A]
10/8/2000	168.40[A]
10/9/2000	168.38[A]
10/10/2000	168.35[A]
10/11/2000	168.32[A]
10/12/2000	168.29[A]
10/13/2000	168.27[A]
10/14/2000	168.24[A]
10/15/2000	168.21[A]
10/16/2000	168.22[A]
10/17/2000	168.20[A]
10/18/2000	168.17[A]
10/19/2000	168.15[A]
10/20/2000	168.12[A]
10/21/2000	168.09[A]
10/22/2000	168.05[A]
10/23/2000	168.04[A]
10/24/2000	168.02[A]
10/25/2000	167.99[A]
10/26/2000	167.97[A]
10/27/2000	167.94[A]
10/28/2000	167.91[A]
10/29/2000	167.89[A]
10/30/2000	167.87[A]
10/31/2000	167.84[A]

Date	Gage height (ft)
11/1/2000	167.82[A]
11/2/2000	167.88[A]
11/3/2000	167.92[A]
11/4/2000	168.01[A]
11/5/2000	168.00[A]
11/6/2000	168.08[A]
11/7/2000	168.04[A]
11/8/2000	168.20[A]
11/9/2000	168.35[A]
11/10/2000	168.29[A]
11/11/2000	168.27[A]
11/12/2000	168.27[A]
11/13/2000	168.34[A]
11/14/2000	168.32[A]
11/15/2000	168.29[A]
11/16/2000	168.31[A]
11/17/2000	168.30[A]
11/18/2000	168.28[A]
11/19/2000	168.32[A]
11/20/2000	168.30[A]
11/21/2000	168.28[A]
11/22/2000	168.29[A]
11/23/2000	168.35[A]
11/24/2000	168.98[A]
11/25/2000	169.53[A]
11/26/2000	169.85[A]
11/27/2000	170.00[A]
11/28/2000	170.05[A]
11/29/2000	170.08[A]
11/30/2000	170.08[A]

Date	Gage height (ft)
12/1/2000	170.09[A]
12/2/2000	170.08[A]
12/3/2000	170.05[A]
12/4/2000	170.04[A]
12/5/2000	170.03[A]
12/6/2000	170.02[A]
12/7/2000	170.01[A]
12/8/2000	169.99[A]
12/9/2000	169.97[A]
12/10/2000	169.96[A]
12/11/2000	169.98[A]
12/12/2000	169.92[A]
12/13/2000	170.08[A]
12/14/2000	170.30[A]
12/15/2000	170.55[A]
12/16/2000	171.10[A]
12/17/2000	171.21[A]
12/18/2000	171.21[A]
12/19/2000	171.28[A]
12/20/2000	171.23[A]
12/21/2000	171.06[A]
12/22/2000	171.02[A]
12/23/2000	171.01[A]
12/24/2000	171.03[A]
12/25/2000	171.04[A]
12/26/2000	170.96[A]
12/27/2000	171.66[A]
12/28/2000	172.19[A]
12/29/2000	171.96[A]
12/30/2000	171.39[A]
12/31/2000	170.87[A]

Date	Gage height (ft)
1/1/2001	170.72[A]
1/2/2001	170.75[A]
1/3/2001	170.78[A]
1/4/2001	170.77[A]
1/5/2001	170.78[A]
1/6/2001	170.79[A]
1/7/2001	170.81[A]
1/8/2001	170.82[A]
1/9/2001	170.80[A]
1/10/2001	170.81[A]
1/11/2001	170.84[A]
1/12/2001	170.84[A]
1/13/2001	170.85[A]
1/14/2001	170.92[A]
1/15/2001	170.97[A]
1/16/2001	171.03[A]
1/17/2001	171.07[A]
1/18/2001	171.15[A]
1/19/2001	P
1/20/2001	171.25[A]
1/21/2001	P
1/22/2001	171.12[A]
1/23/2001	171.01[A]
1/24/2001	171.00[A]
1/25/2001	171.01[A]
1/26/2001	171.04[A]
1/27/2001	170.99[A]
1/28/2001	170.94[A]
1/29/2001	170.92[A]
1/30/2001	170.86[A]
1/31/2001	P

Date	Gage height (ft)
2/1/2001	P
2/2/2001	171.27[A]
2/3/2001	P
2/4/2001	P
2/5/2001	P
2/6/2001	P
2/7/2001	P
2/8/2001	P
2/9/2001	P
2/10/2001	171.03[A]
2/11/2001	170.99[A]
2/12/2001	170.92[A]
2/13/2001	170.82[A]
2/14/2001	171.02[A]
2/15/2001	170.88[A]
2/16/2001	171.15[A]
2/17/2001	171.65[A]
2/18/2001	171.53[A]
2/19/2001	171.12[A]
2/20/2001	171.03[A]
2/21/2001	170.81[A]
2/22/2001	170.54[A]
2/23/2001	170.64[A]
2/24/2001	170.62[A]
2/25/2001	170.72[A]
2/26/2001	170.72[A]
2/27/2001	170.65[A]
2/28/2001	170.93[A]

Date	Gage height (ft)
3/1/2001	171.37[A]
3/2/2001	171.71[A]
3/3/2001	171.75[A]
3/4/2001	171.72[A]
3/5/2001	171.59[A]
3/6/2001	171.14[A]
3/7/2001	170.79[A]
3/8/2001	170.59[A]
3/9/2001	170.44[A]
3/10/2001	170.74[A]
3/11/2001	170.86[A]
3/12/2001	170.77[A]
3/13/2001	170.91[A]
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3/19/2001	170.76[A]
3/20/2001	170.80[A]
3/21/2001	170.74[A]
3/22/2001	170.75[A]
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3/24/2001	170.76[A]
3/25/2001	170.74[A]
3/26/2001	170.71[A]
3/27/2001	170.74[A]
3/28/2001	170.65[A]
3/29/2001	170.78[A]
3/30/2001	170.71[A]
3/31/2001	170.72[A]

Date	Gage height (ft)
4/1/2001	170.89[A]
4/2/2001	170.86[A]
4/3/2001	170.92[A]
4/4/2001	170.92[A]
4/5/2001	170.95[A]
4/6/2001	170.93[A]
4/7/2001	170.92[A]
4/8/2001	170.93[A]
4/9/2001	170.94[A]
4/10/2001	170.92[A]
4/11/2001	170.86[A]
4/12/2001	170.80[A]
4/13/2001	170.86[A]
4/14/2001	170.81[A]
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4/18/2001	170.64[A]
4/19/2001	170.62[A]
4/20/2001	170.62[A]
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4/23/2001	170.51[A]
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4/25/2001	170.47[A]
4/26/2001	170.53[A]
4/27/2001	170.46[A]
4/28/2001	170.41[A]
4/29/2001	170.41[A]
4/30/2001	170.43[A]

Date	Gage height (ft)
5/1/2001	170.31[A]
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5/4/2001	170.30[A]
5/5/2001	170.29[A]
5/6/2001	170.20[A]
5/7/2001	170.26[A]
5/8/2001	170.31[A]
5/9/2001	170.29[A]
5/10/2001	170.28[A]
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5/17/2001	169.89[A]
5/18/2001	169.87[A]
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5/20/2001	169.85[A]
5/21/2001	169.85[A]
5/22/2001	169.87[A]
5/23/2001	169.85[A]
5/24/2001	169.83[A]
5/25/2001	169.80[A]
5/26/2001	169.78[A]
5/27/2001	169.78[A]
5/28/2001	169.80[A]
5/29/2001	169.78[A]
5/30/2001	169.77[A]
5/31/2001	169.93[A]

Date	Gage height (ft)
6/1/2001	170.01[A]
6/2/2001	170.00[A]
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6/5/2001	169.97[A]
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6/7/2001	170.13[A]
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6/10/2001	P
6/11/2001	P
6/12/2001	P
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6/16/2001	171.13[A]
6/17/2001	171.15[A]
6/18/2001	171.14[A]
6/19/2001	171.11[A]
6/20/2001	171.08[A]
6/21/2001	171.07[A]
6/22/2001	171.09[A]
6/23/2001	171.06[A]
6/24/2001	171.03[A]
6/25/2001	171.00[A]
6/26/2001	170.96[A]
6/27/2001	170.93[A]
6/28/2001	170.91[A]
6/29/2001	170.88[A]
6/30/2001	170.86[A]

Date	Gage height (ft)
7/1/2001	170.86[A]
7/2/2001	170.89[A]
7/3/2001	170.90[A]
7/4/2001	170.88[A]
7/5/2001	170.85[A]
7/6/2001	170.82[A]
7/7/2001	170.82[A]
7/8/2001	170.81[A]
7/9/2001	170.80[A]
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7/11/2001	170.77[A]
7/12/2001	170.76[A]
7/13/2001	170.74[A]
7/14/2001	170.71[A]
7/15/2001	170.68[A]
7/16/2001	170.69[A]
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7/18/2001	170.63[A]
7/19/2001	P
7/20/2001	P
7/21/2001	P
7/22/2001	P
7/23/2001	P
7/24/2001	170.49[A]
7/25/2001	170.46[A]
7/26/2001	170.42[A]
7/27/2001	170.38[A]
7/28/2001	170.36[A]
7/29/2001	170.33[A]
7/30/2001	170.29[A]
7/31/2001	170.25[A]

Date	Gage height (ft)
8/1/2001	170.23[A]
8/2/2001	170.19[A]
8/3/2001	170.11[A]
8/4/2001	170.10[A]
8/5/2001	170.10[A]
8/6/2001	170.20[A]
8/7/2001	170.29[A]
8/8/2001	170.26[A]
8/9/2001	170.17[A]
8/10/2001	170.07[A]
8/11/2001	170.03[A]
8/12/2001	170.05[A]
8/13/2001	170.01[A]
8/14/2001	170.00[A]
8/15/2001	169.99[A]
8/16/2001	169.95[A]
8/17/2001	169.89[A]
8/18/2001	169.91[A]
8/19/2001	169.91[A]
8/20/2001	169.88[A]
8/21/2001	169.84[A]
8/22/2001	169.80[A]
8/23/2001	169.76[A]
8/24/2001	169.72[A]
8/25/2001	169.68[A]
8/26/2001	169.67[A]
8/27/2001	169.67[A]
8/28/2001	169.67[A]
8/29/2001	169.65[A]
8/30/2001	169.64[A]
8/31/2001	169.67[A]

Date	Gage height (ft)
9/1/2001	169.84[A]
9/2/2001	169.82[A]
9/3/2001	169.88[A]
9/4/2001	169.91[A]
9/5/2001	169.91[A]
9/6/2001	169.96[A]
9/7/2001	170.04[A]
9/8/2001	169.91[A]
9/9/2001	170.00[A]
9/10/2001	170.04[A]
9/11/2001	170.04[A]
9/12/2001	170.03[A]
9/13/2001	170.00[A]
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9/15/2001	169.94[A]
9/16/2001	169.91[A]
9/17/2001	169.88[A]
9/18/2001	169.85[A]
9/19/2001	169.86[A]
9/20/2001	169.83[A]
9/21/2001	169.95[A]
9/22/2001	170.01[A]
9/23/2001	170.01[A]
9/24/2001	170.01[A]
9/25/2001	170.00[A]
9/26/2001	169.99[A]
9/27/2001	169.97[A]
9/28/2001	169.94[A]
9/29/2001	169.90[A]
9/30/2001	169.88[A]

Preliminary

October 1999- September 2000

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/1999	168.89[A]
10/2/1999	168.86[A]
10/3/1999	168.83[A]
10/4/1999	168.80[A]
10/5/1999	168.76[A]
10/6/1999	168.73[A]
10/7/1999	168.74[A]
10/8/1999	168.81[A]
10/9/1999	168.88[A]
10/10/1999	168.86[A]
10/11/1999	168.84[A]
10/12/1999	168.82[A]
10/13/1999	168.80[A]
10/14/1999	168.77[A]
10/15/1999	168.74[A]
10/16/1999	168.71[A]
10/17/1999	168.69[A]
10/18/1999	168.65[A]
10/19/1999	168.63[A]
10/20/1999	168.60[A]
10/21/1999	168.57[A]
10/22/1999	168.55[A]
10/23/1999	168.50[A]
10/24/1999	168.47[A]
10/25/1999	P
10/26/1999	P
10/27/1999	P
10/28/1999	168.35[A]
10/29/1999	168.32[A]
10/30/1999	168.32[A]
10/31/1999	168.38[A]

Date	Gage height (ft)
11/1/1999	168.39[A]
11/2/1999	168.38[A]
11/3/1999	168.31[A]
11/4/1999	168.29[A]
11/5/1999	168.26[A]
11/6/1999	168.24[A]
11/7/1999	168.22[A]
11/8/1999	168.21[A]
11/9/1999	168.18[A]
11/10/1999	168.16[A]
11/11/1999	168.14[A]
11/12/1999	168.12[A]
11/13/1999	168.10[A]
11/14/1999	168.08[A]
11/15/1999	168.05[A]
11/16/1999	168.03[A]
11/17/1999	168.00[A]
11/18/1999	167.97[A]
11/19/1999	167.96[A]
11/20/1999	167.97[A]
11/21/1999	167.93[A]
11/22/1999	167.91[A]
11/23/1999	167.93[A]
11/24/1999	167.89[A]
11/25/1999	167.88[A]
11/26/1999	167.86[A]
11/27/1999	167.83[A]
11/28/1999	167.82[A]
11/29/1999	167.78[A]
11/30/1999	167.75[A]

Date	Gage height (ft)
12/1/1999	167.73[A]
12/2/1999	167.69[A]
12/3/1999	167.78[A]
12/4/1999	167.80[A]
12/5/1999	167.95[A]
12/6/1999	167.88[A]
12/7/1999	167.84[A]
12/8/1999	167.82[A]
12/9/1999	167.87[A]
12/10/1999	167.83[A]
12/11/1999	167.78[A]
12/12/1999	167.90[A]
12/13/1999	168.00[A]
12/14/1999	168.00[A]
12/15/1999	167.99[A]
12/16/1999	167.94[A]
12/17/1999	167.92[A]
12/18/1999	167.94[A]
12/19/1999	167.92[A]
12/20/1999	167.90[A]
12/21/1999	167.89[A]
12/22/1999	167.87[A]
12/23/1999	167.86[A]
12/24/1999	167.84[A]
12/25/1999	167.81[A]
12/26/1999	167.80[A]
12/27/1999	167.79[A]
12/28/1999	167.78[A]
12/29/1999	167.74[A]
12/30/1999	167.72[A]
12/31/1999	167.71[A]

Date	Gage height (ft)
1/1/2000	167.68[A]
1/2/2000	167.67[A]
1/3/2000	167.71[A]
1/4/2000	167.71[A]
1/5/2000	167.60[A]
1/6/2000	167.58[A]
1/7/2000	167.56[A]
1/8/2000	167.64[A]
1/9/2000	167.68[A]
1/10/2000	167.68[A]
1/11/2000	167.66[A]
1/12/2000	167.65[A]
1/13/2000	167.61[A]
1/14/2000	167.58[A]
1/15/2000	167.57[A]
1/16/2000	167.56[A]
1/17/2000	167.55[A]
1/18/2000	167.54[A]
1/19/2000	167.55[A]
1/20/2000	167.57[A]
1/21/2000	167.55[A]
1/22/2000	167.59[A]
1/23/2000	167.61[A]
1/24/2000	167.63[A]
1/25/2000	167.65[A]
1/26/2000	167.64[A]
1/27/2000	167.67[A]
1/28/2000	167.81[A]
1/29/2000	167.81[A]
1/30/2000	167.80[A]
1/31/2000	167.79[A]

Date	Gage height (ft)
2/1/2000	167.79[A]
2/2/2000	167.82[A]
2/3/2000	167.86[A]
2/4/2000	167.88[A]
2/5/2000	167.89[A]
2/6/2000	167.91[A]
2/7/2000	167.94[A]
2/8/2000	167.97[A]
2/9/2000	167.99[A]
2/10/2000	168.03[A]
2/11/2000	168.04[A]
2/12/2000	168.06[A]
2/13/2000	168.11[A]
2/14/2000	168.11[A]
2/15/2000	168.12[A]
2/16/2000	168.14[A]
2/17/2000	168.15[A]
2/18/2000	168.21[A]
2/19/2000	168.21[A]
2/20/2000	168.22[A]
2/21/2000	168.23[A]
2/22/2000	168.24[A]
2/23/2000	168.27[A]
2/24/2000	168.29[A]
2/25/2000	168.28[A]
2/26/2000	168.44[A]
2/27/2000	168.54[A]
2/28/2000	168.59[A]
2/29/2000	168.63[A]

Date	Gage height (ft)
3/1/2000	168.67[A]
3/2/2000	168.66[A]
3/3/2000	168.76[A]
3/4/2000	168.72[A]
3/5/2000	168.73[A]
3/6/2000	168.75[A]
3/7/2000	168.75[A]
3/8/2000	168.79[A]
3/9/2000	168.82[A]
3/10/2000	168.85[A]
3/11/2000	168.95[A]
3/12/2000	168.87[A]
3/13/2000	168.87[A]
3/14/2000	168.88[A]
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3/16/2000	169.36[A]
3/17/2000	169.70[A]
3/18/2000	169.95[A]
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3/20/2000	170.29[A]
3/21/2000	170.34[A]
3/22/2000	P
3/23/2000	P
3/24/2000	P
3/25/2000	P
3/26/2000	P
3/27/2000	171.12[A]
3/28/2000	171.07[A]
3/29/2000	171.15[A]
3/30/2000	171.26[A]
3/31/2000	171.11[A]

Date	Gage height (ft)
4/1/2000	171.06[A]
4/2/2000	170.97[A]
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4/4/2000	171.10[A]
4/5/2000	171.10[A]
4/6/2000	171.12[A]
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4/9/2000	171.01[A]
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4/11/2000	170.96[A]
4/12/2000	171.00[A]
4/13/2000	P
4/14/2000	P
4/15/2000	P
4/16/2000	P
4/17/2000	P
4/18/2000	P
4/19/2000	171.01[A]
4/20/2000	171.02[A]
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4/22/2000	170.95[A]
4/23/2000	170.95[A]
4/24/2000	171.00[A]
4/25/2000	P
4/26/2000	170.75[A]
4/27/2000	170.69[A]
4/28/2000	P
4/29/2000	P
4/30/2000	P

Date	Gage height (ft)
5/1/2000	P
5/2/2000	P
5/3/2000	P
5/4/2000	P
5/5/2000	P
5/6/2000	P
5/7/2000	P
5/8/2000	P
5/9/2000	P
5/10/2000	171.04[A]
5/11/2000	171.04[A]
5/12/2000	171.03[A]
5/13/2000	170.95[A]
5/14/2000	170.91[A]
5/15/2000	170.90[A]
5/16/2000	170.88[A]
5/17/2000	170.85[A]
5/18/2000	170.83[A]
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5/20/2000	171.10[A]
5/21/2000	171.08[A]
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5/23/2000	171.15[A]
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5/26/2000	170.98[A]
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5/31/2000	170.95[A]

Date	Gage height (ft)
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6/5/2000	170.89[A]
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6/15/2000	170.89[A]
6/16/2000	170.87[A]
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6/19/2000	170.90[A]
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6/21/2000	170.90[A]
6/22/2000	170.88[A]
6/23/2000	170.90[A]
6/24/2000	170.90[A]
6/25/2000	170.90[A]
6/26/2000	170.91[A]
6/27/2000	170.91[A]
6/28/2000	170.96[A]
6/29/2000	170.97[A]
6/30/2000	170.96[A]

Date	Gage height (ft)
7/1/2000	170.95[A]
7/2/2000	170.94[A]
7/3/2000	170.93[A]
7/4/2000	170.93[A]
7/5/2000	170.94[A]
7/6/2000	170.94[A]
7/7/2000	170.94[A]
7/8/2000	170.94[A]
7/9/2000	170.93[A]
7/10/2000	170.92[A]
7/11/2000	170.91[A]
7/12/2000	170.89[A]
7/13/2000	170.87[A]
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7/15/2000	170.86[A]
7/16/2000	170.84[A]
7/17/2000	170.83[A]
7/18/2000	170.81[A]
7/19/2000	170.81[A]
7/20/2000	170.79[A]
7/21/2000	170.76[A]
7/22/2000	170.74[A]
7/23/2000	170.72[A]
7/24/2000	170.70[A]
7/25/2000	170.68[A]
7/26/2000	170.65[A]
7/27/2000	170.63[A]
7/28/2000	170.61[A]
7/29/2000	170.61[A]
7/30/2000	170.64[A]
7/31/2000	170.65[A]

Date	Gage height (ft)
8/1/2000	170.64[A]
8/2/2000	170.63[A]
8/3/2000	170.62[A]
8/4/2000	170.61[A]
8/5/2000	170.60[A]
8/6/2000	170.59[A]
8/7/2000	170.57[A]
8/8/2000	170.56[A]
8/9/2000	170.54[A]
8/10/2000	170.53[A]
8/11/2000	170.48[A]
8/12/2000	170.46[A]
8/13/2000	170.45[A]
8/14/2000	170.43[A]
8/15/2000	170.39[A]
8/16/2000	170.35[A]
8/17/2000	170.30[A]
8/18/2000	170.26[A]
8/19/2000	170.21[A]
8/20/2000	170.15[A]
8/21/2000	170.10[A]
8/22/2000	170.06[A]
8/23/2000	170.03[A]
8/24/2000	169.99[A]
8/25/2000	169.94[A]
8/26/2000	169.90[A]
8/27/2000	169.85[A]
8/28/2000	169.80[A]
8/29/2000	169.75[A]
8/30/2000	169.71[A]
8/31/2000	169.66[A]

Date	Gage height (ft)
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9/2/2000	169.56[A]
9/3/2000	169.51[A]
9/4/2000	169.48[A]
9/5/2000	169.41[A]
9/6/2000	169.35[A]
9/7/2000	169.28[A]
9/8/2000	169.25[A]
9/9/2000	169.22[A]
9/10/2000	169.20[A]
9/11/2000	169.18[A]
9/12/2000	169.13[A]
9/13/2000	169.11[A]
9/14/2000	169.09[A]
9/15/2000	169.03[A]
9/16/2000	168.98[A]
9/17/2000	168.93[A]
9/18/2000	168.90[A]
9/19/2000	168.85[A]
9/20/2000	168.83[A]
9/21/2000	168.78[A]
9/22/2000	168.76[A]
9/23/2000	168.75[A]
9/24/2000	168.75[A]
9/25/2000	168.79[A]
9/26/2000	168.69[A]
9/27/2000	168.66[A]
9/28/2000	168.63[A]
9/29/2000	168.60[A]
9/30/2000	168.57[A]

Preview Only

October 1998- September 1999

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/1998	169.75[A]
10/2/1998	169.75[A]
10/3/1998	169.86[A]
10/4/1998	169.90[A]
10/5/1998	169.89[A]
10/6/1998	170.08[A]
10/7/1998	170.20[A]
10/8/1998	170.30[A]
10/9/1998	170.33[A]
10/10/1998	170.32[A]
10/11/1998	170.31[A]
10/12/1998	170.29[A]
10/13/1998	170.26[A]
10/14/1998	170.23[A]
10/15/1998	170.21[A]
10/16/1998	170.19[A]
10/17/1998	170.17[A]
10/18/1998	170.20[A]
10/19/1998	170.18[A]
10/20/1998	170.21[A]
10/21/1998	170.27[A]
10/22/1998	170.27[A]
10/23/1998	170.29[A]
10/24/1998	170.28[A]
10/25/1998	170.26[A]
10/26/1998	170.25[A]
10/27/1998	170.23[A]
10/28/1998	170.21[A]
10/29/1998	170.19[A]
10/30/1998	170.18[A]
10/31/1998	170.16[A]

Date	Gage height (ft)
11/1/1998	170.17[A]
11/2/1998	170.21[A]
11/3/1998	170.20[A]
11/4/1998	170.20[A]
11/5/1998	170.18[A]
11/6/1998	170.16[A]
11/7/1998	170.14[A]
11/8/1998	170.20[A]
11/9/1998	170.19[A]
11/10/1998	170.23[A]
11/11/1998	170.19[A]
11/12/1998	170.25[A]
11/13/1998	170.54[A]
11/14/1998	170.87[A]
11/15/1998	171.01[A]
11/16/1998	170.98[A]
11/17/1998	170.96[A]
11/18/1998	170.88[A]
11/19/1998	170.84[A]
11/20/1998	170.87[A]
11/21/1998	170.86[A]
11/22/1998	170.86[A]
11/23/1998	170.86[A]
11/24/1998	170.85[A]
11/25/1998	170.86[A]
11/26/1998	170.84[A]
11/27/1998	170.83[A]
11/28/1998	170.82[A]
11/29/1998	170.81[A]
11/30/1998	170.84[A]

Date	Gage height (ft)
12/1/1998	170.84[A]
12/2/1998	170.88[A]
12/3/1998	170.89[A]
12/4/1998	170.90[A]
12/5/1998	170.89[A]
12/6/1998	170.89[A]
12/7/1998	170.94[A]
12/8/1998	170.97[A]
12/9/1998	170.90[A]
12/10/1998	171.12[A]
12/11/1998	171.44[A]
12/12/1998	171.67[A]
12/13/1998	171.41[A]
12/14/1998	171.02[A]
12/15/1998	170.90[A]
12/16/1998	170.90[A]
12/17/1998	170.89[A]
12/18/1998	170.87[A]
12/19/1998	170.92[A]
12/20/1998	170.82[A]
12/21/1998	170.89[A]
12/22/1998	170.85[A]
12/23/1998	P
12/24/1998	P
12/25/1998	170.90[A]
12/26/1998	170.93[A]
12/27/1998	170.90[A]
12/28/1998	170.72[A]
12/29/1998	170.77[A]
12/30/1998	170.66[A]
12/31/1998	170.80[A]

Date	Gage height (ft)
1/1/1999	170.80[A]
1/2/1999	171.26[A]
1/3/1999	171.47[A]
1/4/1999	171.29[A]
1/5/1999	170.99[A]
1/6/1999	170.93[A]
1/7/1999	170.68[A]
1/8/1999	170.61[A]
1/9/1999	170.49[A]
1/10/1999	170.57[A]
1/11/1999	170.64[A]
1/12/1999	170.56[A]
1/13/1999	170.46[A]
1/14/1999	170.53[A]
1/15/1999	170.45[A]
1/16/1999	170.38[A]
1/17/1999	170.39[A]
1/18/1999	170.37[A]
1/19/1999	170.37[A]
1/20/1999	170.36[A]
1/21/1999	170.36[A]
1/22/1999	170.53[A]
1/23/1999	170.71[A]
1/24/1999	170.77[A]
1/25/1999	170.82[A]
1/26/1999	170.83[A]
1/27/1999	170.84[A]
1/28/1999	170.96[A]
1/29/1999	172.14[A]
1/30/1999	173.72[A]
1/31/1999	173.36[A]

Date	Gage height (ft)
2/1/1999	172.43[A]
2/2/1999	171.63[A]
2/3/1999	171.00[A]
2/4/1999	170.57[A]
2/5/1999	170.53[A]
2/6/1999	170.55[A]
2/7/1999	170.58[A]
2/8/1999	170.57[A]
2/9/1999	170.58[A]
2/10/1999	170.58[A]
2/11/1999	170.62[A]
2/12/1999	170.63[A]
2/13/1999	170.60[A]
2/14/1999	170.57[A]
2/15/1999	170.56[A]
2/16/1999	170.57[A]
2/17/1999	170.56[A]
2/18/1999	170.56[A]
2/19/1999	170.54[A]
2/20/1999	170.52[A]
2/21/1999	170.52[A]
2/22/1999	170.47[A]
2/23/1999	170.50[A]
2/24/1999	170.47[A]
2/25/1999	170.47[A]
2/26/1999	170.45[A]
2/27/1999	170.48[A]
2/28/1999	170.47[A]

Date	Gage height (ft)
3/1/1999	170.44[A]
3/2/1999	170.45[A]
3/3/1999	170.47[A]
3/4/1999	170.44[A]
3/5/1999	170.43[A]
3/6/1999	170.43[A]
3/7/1999	170.38[A]
3/8/1999	170.41[A]
3/9/1999	170.44[A]
3/10/1999	170.41[A]
3/11/1999	170.40[A]
3/12/1999	170.44[A]
3/13/1999	170.96[A]
3/14/1999	171.26[A]
3/15/1999	171.08[A]
3/16/1999	170.93[A]
3/17/1999	170.94[A]
3/18/1999	170.90[A]
3/19/1999	170.57[A]
3/20/1999	170.52[A]
3/21/1999	170.50[A]
3/22/1999	170.50[A]
3/23/1999	170.51[A]
3/24/1999	170.53[A]
3/25/1999	170.59[A]
3/26/1999	170.61[A]
3/27/1999	170.62[A]
3/28/1999	170.64[A]
3/29/1999	170.71[A]
3/30/1999	170.76[A]
3/31/1999	170.83[A]

Date	Gage height (ft)
4/1/1999	170.87[A]
4/2/1999	170.83[A]
4/3/1999	170.80[A]
4/4/1999	P
4/5/1999	P
4/6/1999	174.24[A]
4/7/1999	173.02[A]
4/8/1999	172.01[A]
4/9/1999	171.24[A]
4/10/1999	170.92[A]
4/11/1999	170.81[A]
4/12/1999	170.65[A]
4/13/1999	170.59[A]
4/14/1999	170.60[A]
4/15/1999	170.62[A]
4/16/1999	170.53[A]
4/17/1999	170.54[A]
4/18/1999	170.48[A]
4/19/1999	170.47[A]
4/20/1999	170.44[A]
4/21/1999	170.41[A]
4/22/1999	170.39[A]
4/23/1999	170.38[A]
4/24/1999	170.36[A]
4/25/1999	170.34[A]
4/26/1999	170.32[A]
4/27/1999	170.27[A]
4/28/1999	170.25[A]
4/29/1999	170.21[A]
4/30/1999	170.17[A]

Date	Gage height (ft)
5/1/1999	170.14[A]
5/2/1999	170.13[A]
5/3/1999	170.10[A]
5/4/1999	170.08[A]
5/5/1999	170.14[A]
5/6/1999	170.21[A]
5/7/1999	170.20[A]
5/8/1999	170.17[A]
5/9/1999	170.13[A]
5/10/1999	170.14[A]
5/11/1999	170.13[A]
5/12/1999	170.16[A]
5/13/1999	170.14[A]
5/14/1999	170.11[A]
5/15/1999	170.09[A]
5/16/1999	170.06[A]
5/17/1999	170.05[A]
5/18/1999	170.09[A]
5/19/1999	170.08[A]
5/20/1999	170.06[A]
5/21/1999	170.05[A]
5/22/1999	170.03[A]
5/23/1999	170.01[A]
5/24/1999	169.98[A]
5/25/1999	169.95[A]
5/26/1999	169.93[A]
5/27/1999	169.89[A]
5/28/1999	169.87[A]
5/29/1999	169.85[A]
5/30/1999	169.88[A]
5/31/1999	169.93[A]

Date	Gage height (ft)
6/1/1999	169.96[A]
6/2/1999	169.96[A]
6/3/1999	169.95[A]
6/4/1999	169.95[A]
6/5/1999	169.95[A]
6/6/1999	169.96[A]
6/7/1999	169.96[A]
6/8/1999	169.96[A]
6/9/1999	169.97[A]
6/10/1999	169.98[A]
6/11/1999	170.03[A]
6/12/1999	170.06[A]
6/13/1999	170.09[A]
6/14/1999	170.12[A]
6/15/1999	170.12[A]
6/16/1999	170.12[A]
6/17/1999	170.11[A]
6/18/1999	170.11[A]
6/19/1999	170.10[A]
6/20/1999	170.10[A]
6/21/1999	170.10[A]
6/22/1999	170.14[A]
6/23/1999	170.22[A]
6/24/1999	170.31[A]
6/25/1999	170.76[A]
6/26/1999	170.97[A]
6/27/1999	171.15[A]
6/28/1999	171.11[A]
6/29/1999	171.10[A]
6/30/1999	171.08[A]

Date	Gage height (ft)
7/1/1999	171.04[A]
7/2/1999	171.01[A]
7/3/1999	170.97[A]
7/4/1999	170.93[A]
7/5/1999	170.92[A]
7/6/1999	170.91[A]
7/7/1999	170.90[A]
7/8/1999	170.90[A]
7/9/1999	170.88[A]
7/10/1999	170.90[A]
7/11/1999	170.93[A]
7/12/1999	171.01[A]
7/13/1999	171.02[A]
7/14/1999	171.00[A]
7/15/1999	170.98[A]
7/16/1999	170.95[A]
7/17/1999	170.94[A]
7/18/1999	170.94[A]
7/19/1999	170.92[A]
7/20/1999	170.89[A]
7/21/1999	170.86[A]
7/22/1999	170.84[A]
7/23/1999	170.80[A]
7/24/1999	170.76[A]
7/25/1999	170.73[A]
7/26/1999	170.71[A]
7/27/1999	170.67[A]
7/28/1999	170.64[A]
7/29/1999	170.62[A]
7/30/1999	170.61[A]
7/31/1999	170.60[A]

Date	Gage height (ft)
8/1/1999	170.58[A]
8/2/1999	170.57[A]
8/3/1999	170.55[A]
8/4/1999	170.54[A]
8/5/1999	170.53[A]
8/6/1999	170.52[A]
8/7/1999	170.51[A]
8/8/1999	170.51[A]
8/9/1999	170.50[A]
8/10/1999	170.48[A]
8/11/1999	170.46[A]
8/12/1999	170.43[A]
8/13/1999	170.39[A]
8/14/1999	170.32[A]
8/15/1999	170.27[A]
8/16/1999	170.23[A]
8/17/1999	170.18[A]
8/18/1999	170.14[A]
8/19/1999	170.10[A]
8/20/1999	170.04[A]
8/21/1999	169.98[A]
8/22/1999	169.94[A]
8/23/1999	169.91[A]
8/24/1999	169.87[A]
8/25/1999	169.84[A]
8/26/1999	169.79[A]
8/27/1999	169.79[A]
8/28/1999	169.79[A]
8/29/1999	169.76[A]
8/30/1999	P
8/31/1999	P

Date	Gage height (ft)
9/1/1999	P
9/2/1999	P
9/3/1999	P
9/4/1999	P
9/5/1999	P
9/6/1999	P
9/7/1999	P
9/8/1999	P
9/9/1999	169.62[A]
9/10/1999	169.59[A]
9/11/1999	169.55[A]
9/12/1999	169.52[A]
9/13/1999	P
9/14/1999	P
9/15/1999	P
9/16/1999	P
9/17/1999	P
9/18/1999	P
9/19/1999	P
9/20/1999	P
9/21/1999	P
9/22/1999	169.15[A]
9/23/1999	169.12[A]
9/24/1999	169.08[A]
9/25/1999	169.04[A]
9/26/1999	169.00[A]
9/27/1999	168.98[A]
9/28/1999	168.96[A]
9/29/1999	168.97[A]
9/30/1999	168.92[A]

Preliminary Only

October 1997- September 1998

Cross Lake
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/1997	169.22[A]
10/2/1997	169.21[A]
10/3/1997	169.32[A]
10/4/1997	169.41[A]
10/5/1997	169.41[A]
10/6/1997	169.45[A]
10/7/1997	169.45[A]
10/8/1997	169.43[A]
10/9/1997	169.47[A]
10/10/1997	169.45[A]
10/11/1997	169.38[A]
10/12/1997	169.40[A]
10/13/1997	169.49[A]
10/14/1997	169.58[A]
10/15/1997	169.69[A]
10/16/1997	169.75[A]
10/17/1997	169.78[A]
10/18/1997	169.77[A]
10/19/1997	169.73[A]
10/20/1997	169.71[A]
10/21/1997	169.72[A]
10/22/1997	169.75[A]
10/23/1997	169.72[A]
10/24/1997	169.95[A]
10/25/1997	170.01[A]
10/26/1997	170.14[A]
10/27/1997	170.11[A]
10/28/1997	170.08[A]
10/29/1997	170.06[A]
10/30/1997	170.04[A]
10/31/1997	170.04[A]

Date	Gage height (ft)
11/1/1997	170.03[A]
11/2/117	169.96[A]
11/3/1997	169.77[A]
11/4/1997	P
11/5/1997	P
11/6/1997	P
11/7/1997	P
11/8/1997	P
11/9/1997	P
11/10/1997	P
11/11/1997	P
11/12/1997	P
11/13/1997	P
11/14/1997	P
11/15/1997	P
11/16/1997	P
11/17/1997	P
11/18/1997	P
11/19/1997	P
11/20/1997	P
11/21/1997	P
11/22/1997	P
11/23/1997	P
11/24/1997	P
11/25/1997	P
11/26/1997	P
11/27/1997	P
11/28/1997	P
11/29/1997	P
11/30/1997	P

Date	Gage height (ft)
12/1/1997	P
12/2/1997	P
12/3/1997	P
12/4/1997	P
12/5/1997	P
12/6/1997	P
12/7/1997	P
12/8/1997	P
12/9/1997	P
12/10/1997	P
12/11/1997	P
12/12/1997	P
12/13/1997	P
12/14/1997	P
12/15/1997	P
12/16/1997	P
12/17/1997	P
12/18/1997	P
12/19/1997	P
12/20/1997	P
12/21/1997	P
12/22/1997	P
12/23/1997	P
12/24/1997	P
12/25/1997	P
12/26/1997	P
12/27/1997	P
12/28/1997	P
12/29/1997	P
12/30/1997	P
12/31/1997	P

Date	Gage height (ft)
1/1/1998	P
1/2/1998	P
1/3/1998	P
1/4/1998	P
1/5/1998	P
1/6/1998	P
1/7/1998	171.03[A]
1/8/1998	171.29[A]
1/9/1998	171.04[A]
1/10/1998	170.81[A]
1/11/1998	170.87[A]
1/12/1998	170.92[A]
1/13/1998	170.90[A]
1/14/1998	170.80[A]
1/15/1998	170.73[A]
1/16/1998	170.80[A]
1/17/1998	170.89[A]
1/18/1998	170.94[A]
1/19/1998	170.95[A]
1/20/1998	170.95[A]
1/21/1998	170.98[A]
1/22/1998	170.96[A]
1/23/1998	170.84[A]
1/24/1998	170.82[A]
1/25/1998	170.91[A]
1/26/1998	170.88[A]
1/27/1998	170.73[A]
1/28/1998	170.74[A]
1/29/1998	170.76[A]
1/30/1998	170.78[A]
1/31/1998	170.77[A]

Date	Gage height (ft)
2/1/1998	170.85[A]
2/2/1998	170.88[A]
2/3/1998	170.87[A]
2/4/1998	170.90[A]
2/5/1998	170.91[A]
2/6/1998	170.93[A]
2/7/1998	170.93[A]
2/8/1998	170.91[A]
2/9/1998	170.90[A]
2/10/1998	171.02[A]
2/11/1998	171.21[A]
2/12/1998	171.21[A]
2/13/1998	171.02[A]
2/14/1998	170.97[A]
2/15/1998	170.89[A]
2/16/1998	170.86[A]
2/17/1998	170.90[A]
2/18/1998	170.86[A]
2/19/1998	170.83[A]
2/20/1998	170.87[A]
2/21/1998	170.87[A]
2/22/1998	170.94[A]
2/23/1998	170.97[A]
2/24/1998	170.96[A]
2/25/1998	170.87[A]
2/26/1998	170.97[A]
2/27/1998	171.04[A]
2/28/1998	171.00[A]

Date	Gage height (ft)
3/1/1998	170.92[A]
3/2/1998	170.87[A]
3/3/1998	170.84[A]
3/4/1998	170.84[A]
3/5/1998	170.86[A]
3/6/1998	170.86[A]
3/7/1998	170.86[A]
3/8/1998	170.90[A]
3/9/1998	170.76[A]
3/10/1998	170.73[A]
3/11/1998	170.71[A]
3/12/1998	170.69[A]
3/13/1998	170.71[A]
3/14/1998	170.71[A]
3/15/1998	170.71[A]
3/16/1998	170.80[A]
3/17/1998	171.23[A]
3/18/1998	171.33[A]
3/19/1998	171.04[A]
3/20/1998	170.71[A]
3/21/1998	170.63[A]
3/22/1998	170.64[A]
3/23/1998	170.65[A]
3/24/1998	170.64[A]
3/25/1998	170.63[A]
3/26/1998	170.62[A]
3/27/1998	170.62[A]
3/28/1998	170.63[A]
3/29/1998	170.61[A]
3/30/1998	170.59[A]
3/31/1998	170.73[A]

Date	Gage height (ft)
4/1/1998	170.80[A]
4/2/1998	170.85[A]
4/3/1998	170.92[A]
4/4/1998	170.86[A]
4/5/1998	170.84[A]
4/6/1998	170.82[A]
4/7/1998	170.82[A]
4/8/1998	170.84[A]
4/9/1998	170.83[A]
4/10/1998	170.78[A]
4/11/1998	170.75[A]
4/12/1998	170.71[A]
4/13/1998	170.70[A]
4/14/1998	170.69[A]
4/15/1998	170.67[A]
4/16/1998	170.67[A]
4/17/1998	170.62[A]
4/18/1998	170.60[A]
4/19/1998	170.59[A]
4/20/1998	170.57[A]
4/21/1998	170.57[A]
4/22/1998	170.55[A]
4/23/1998	170.50[A]
4/24/1998	170.46[A]
4/25/1998	170.43[A]
4/26/1998	170.40[A]
4/27/1998	170.43[A]
4/28/1998	170.43[A]
4/29/1998	170.39[A]
4/30/1998	170.37[A]

Date	Gage height (ft)
5/1/1998	170.34[A]
5/2/1998	170.31[A]
5/3/1998	170.29[A]
5/4/1998	170.26[A]
5/5/1998	P
5/6/1998	P
5/7/1998	P
5/8/1998	P
5/9/1998	P
5/10/1998	P
5/11/1998	170.04[A]
5/12/1998	170.01[A]
5/13/1998	169.97[A]
5/14/1998	169.93[A]
5/15/1998	169.92[A]
5/16/1998	169.89[A]
5/17/1998	169.86[A]
5/18/1998	169.83[A]
5/19/1998	169.79[A]
5/20/1998	169.76[A]
5/21/1998	169.72[A]
5/22/1998	169.69[A]
5/23/1998	169.65[A]
5/24/1998	169.61[A]
5/25/1998	169.57[A]
5/26/1998	169.55[A]
5/27/1998	169.55[A]
5/28/1998	169.52[A]
5/29/1998	169.50[A]
5/30/1998	169.46[A]
5/31/1998	169.44[A]

Date	Gage height (ft)
6/1/1998	169.39[A]
6/2/1998	169.36[A]
6/3/1998	169.33[A]
6/4/1998	169.30[A]
6/5/1998	169.33[A]
6/6/1998	169.34[A]
6/7/1998	169.30[A]
6/8/1998	169.28[A]
6/9/1998	P
6/10/1998	169.25[A]
6/11/1998	169.25[A]
6/12/1998	169.22[A]
6/13/1998	169.18[A]
6/14/1998	169.15[A]
6/15/1998	169.08[A]
6/16/1998	169.02[A]
6/17/1998	168.98[A]
6/18/1998	168.93[A]
6/19/1998	168.89[A]
6/20/1998	168.84[A]
6/21/1998	168.78[A]
6/22/1998	168.73[A]
6/23/1998	168.68[A]
6/24/1998	168.65[A]
6/25/1998	168.61[A]
6/26/1998	P
6/27/1998	P
6/28/1998	P
6/29/1998	168.51[A]
6/30/1998	168.48[A]

Date	Gage height (ft)
7/1/1998	168.46[A]
7/2/1998	168.42[A]
7/3/1998	168.41[A]
7/4/1998	168.41[A]
7/5/1998	168.42[A]
7/6/1998	168.42[A]
7/7/1998	168.40[A]
7/8/1998	168.38[A]
7/9/1998	168.34[A]
7/10/1998	168.30[A]
7/11/1998	168.28[A]
7/12/1998	168.26[A]
7/13/1998	168.31[A]
7/14/1998	168.32[A]
7/15/1998	168.33[A]
7/16/1998	168.32[A]
7/17/1998	168.30[A]
7/18/1998	168.30[A]
7/19/1998	168.28[A]
7/20/1998	168.28[A]
7/21/1998	168.25[A]
7/22/1998	168.24[A]
7/23/1998	168.24[A]
7/24/1998	168.22[A]
7/25/1998	168.21[A]
7/26/1998	168.18[A]
7/27/1998	168.16[A]
7/28/1998	168.15[A]
7/29/1998	168.14[A]
7/30/1998	168.13[A]
7/31/1998	168.10[A]

Date	Gage height (ft)
8/1/1998	168.08[A]
8/2/1998	168.05[A]
8/3/1998	168.04[A]
8/4/1998	168.03[A]
8/5/1998	168.04[A]
8/6/1998	P
8/7/1998	P
8/8/1998	P
8/9/1998	P
8/10/1998	P
8/11/1998	P
8/12/1998	P
8/13/1998	P
8/14/1998	P
8/15/1998	P
8/16/1998	P
8/17/1998	168.27[A]
8/18/1998	168.29[A]
8/19/1998	168.29[A]
8/20/1998	168.27[A]
8/21/1998	168.27[A]
8/22/1998	168.27[A]
8/23/1998	168.28[A]
8/24/1998	168.28[A]
8/25/1998	168.27[A]
8/26/1998	168.26[A]
8/27/1998	168.26[A]
8/28/1998	168.25[A]
8/29/1998	168.24[A]
8/30/1998	168.24[A]
8/31/1998	168.23[A]

Date	Gage height (ft)
9/1/1998	168.22[A]
9/2/1998	168.22[A]
9/3/1998	168.21[A]
9/4/1998	168.19[A]
9/5/1998	168.18[A]
9/6/1998	168.17[A]
9/7/1998	168.17[A]
9/8/1998	168.16[A]
9/9/1998	168.12[A]
9/10/1998	168.09[A]
9/11/1998	168.09[A]
9/12/1998	168.39[A]
9/13/1998	168.66[A]
9/14/1998	168.87[A]
9/15/1998	169.03[A]
9/16/1998	169.27[A]
9/17/1998	169.49[A]
9/18/1998	169.62[A]
9/19/1998	169.69[A]
9/20/1998	169.72[A]
9/21/1998	169.73[A]
9/22/1998	169.74[A]
9/23/1998	169.74[A]
9/24/1998	169.74[A]
9/25/1998	169.74[A]
9/26/1998	169.74[A]
9/27/1998	169.75[A]
9/28/1998	169.76[A]
9/29/1998	169.76[A]
9/30/1998	169.76[A]

Preview Only

October 1996- September 1997

Cross Lake (USGS Gage #########)
Latitude 32°30'45", Longitude 93°47'54" NAD83
Caddo Parish, Louisiana Hydrologic Unit 11140304
Spillway crest elevation is 171.2 ft.

Date	Gage height (ft)
10/1/1996	170.73[A]
10/2/1996	170.71[A]
10/3/1996	170.68[A]
10/4/1996	170.67[A]
10/5/1996	170.64[A]
10/6/1996	170.62[A]
10/7/1996	170.60[A]
10/8/1996	170.59[A]
10/9/1996	170.56[A]
10/10/1996	170.53[A]
10/11/1996	170.48[A]
10/12/1996	170.46[A]
10/13/1996	170.44[A]
10/14/1996	170.41[A]
10/15/1996	170.39[A]
10/16/1996	170.36[A]
10/17/1996	170.36[A]
10/18/1996	170.32[A]
10/19/1996	170.28[A]
10/20/1996	170.24[A]
10/21/1996	170.25[A]
10/22/1996	170.60[A]
10/23/1996	170.67[A]
10/24/1996	170.67[A]
10/25/1996	170.65[A]
10/26/1996	170.59[A]
10/27/1996	170.49[A]
10/28/1996	170.41[A]
10/29/1996	170.40[A]
10/30/1996	170.38[A]
10/31/1996	170.35[A]

Date	Gage height (ft)
11/1/1996	170.38[A]
11/2/1996	170.37[A]
11/3/1996	170.33[A]
11/4/1996	170.31[A]
11/5/1996	170.29[A]
11/6/1996	170.27[A]
11/7/1996	170.42[A]
11/8/1996	170.49[A]
11/9/1996	170.48[A]
11/10/1996	170.47[A]
11/11/1996	170.45[A]
11/12/1996	170.44[A]
11/13/1996	170.44[A]
11/14/1996	170.42[A]
11/15/1996	170.39[A]
11/16/1996	170.35[A]
11/17/1996	170.41[A]
11/18/1996	170.40[A]
11/19/1996	170.39[A]
11/20/1996	170.38[A]
11/21/1996	170.37[A]
11/22/1996	170.33[A]
11/23/1996	170.32[A]
11/24/1996	170.41[A]
11/25/1996	170.67[A]
11/26/1996	170.52[A]
11/27/1996	170.38[A]
11/28/1996	170.32[A]
11/29/1996	170.35[A]
11/30/1996	170.58[A]

Date	Gage height (ft)
12/1/1996	170.63[A]
12/2/1996	170.58[A]
12/3/1996	170.68[A]
12/4/1996	170.64[A]
12/5/1996	170.67[A]
12/6/1996	170.68[A]
12/7/1996	170.67[A]
12/8/1996	170.66[A]
12/9/1996	170.65[A]
12/10/1996	170.65[A]
12/11/1996	170.64[A]
12/12/1996	170.63[A]
12/13/1996	170.61[A]
12/14/1996	170.60[A]
12/15/1996	170.65[A]
12/16/1996	170.71[A]
12/17/1996	170.75[A]
12/18/1996	170.80[A]
12/19/1996	170.75[A]
12/20/1996	170.63[A]
12/21/1996	170.53[A]
12/22/1996	170.53[A]
12/23/1996	170.57[A]
12/24/1996	170.65[A]
12/25/1996	170.64[A]
12/26/1996	170.69[A]
12/27/1996	170.73[A]
12/28/1996	170.76[A]
12/29/1996	170.76[A]
12/30/1996	170.70[A]
12/31/1996	170.71[A]

Date	Gage height (ft)
1/1/1997	170.71[A]
1/2/1997	170.71[A]
1/3/1997	170.71[A]
1/4/1997	170.73[A]
1/5/1997	170.72[A]
1/6/1997	170.71[A]
1/7/1997	170.71[A]
1/8/1997	170.83[A]
1/9/1997	170.91[A]
1/10/1997	170.86[A]
1/11/1997	170.93[A]
1/12/1997	170.89[A]
1/13/1997	170.81[A]
1/14/1997	170.75[A]
1/15/1997	170.76[A]
1/16/1997	170.72[A]
1/17/1997	170.68[A]
1/18/1997	170.64[A]
1/19/1997	170.60[A]
1/20/1997	170.55[A]
1/21/1997	170.52[A]
1/22/1997	170.53[A]
1/23/1997	170.58[A]
1/24/1997	170.97[A]
1/25/1997	170.99[A]
1/26/1997	170.91[A]
1/27/1997	170.79[A]
1/28/1997	170.65[A]
1/29/1997	170.66[A]
1/30/1997	170.71[A]
1/31/1997	170.71[A]

Date	Gage height (ft)
2/1/1997	170.70[A]
2/2/1997	170.68[A]
2/3/1997	170.68[A]
2/4/1997	170.74[A]
2/5/1997	170.75[A]
2/6/1997	170.75[A]
2/7/1997	170.95[A]
2/8/1997	171.16[A]
2/9/1997	171.10[A]
2/10/1997	171.09[A]
2/11/1997	171.03[A]
2/12/1997	171.11[A]
2/13/1997	172.02[A]
2/14/1997	172.39[A]
2/15/1997	171.84[A]
2/16/1997	171.24[A]
2/17/1997	170.99[A]
2/18/1997	170.80[A]
2/19/1997	170.66[A]
2/20/1997	170.64[A]
2/21/1997	170.77[A]
2/22/1997	170.95[A]
2/23/1997	170.96[A]
2/24/1997	170.77[A]
2/25/1997	170.63[A]
2/26/1997	170.74[A]
2/27/1997	170.74[A]
2/28/1997	170.86[A]

Date	Gage height (ft)
3/1/1997	170.91[A]
3/2/1997	171.01[A]
3/3/1997	171.32[A]
3/4/1997	171.25[A]
3/5/1997	171.03[A]
3/6/1997	170.86[A]
3/7/1997	170.83[A]
3/8/1997	170.81[A]
3/9/1997	170.79[A]
3/10/1997	170.91[A]
3/11/1997	170.91[A]
3/12/1997	170.71[A]
3/13/1997	171.26[A]
3/14/1997	171.67[A]
3/15/1997	171.36[A]
3/16/1997	170.91[A]
3/17/1997	170.68[A]
3/18/1997	170.71[A]
3/19/1997	170.84[A]
3/20/1997	170.87[A]
3/21/1997	170.82[A]
3/22/1997	170.81[A]
3/23/1997	170.81[A]
3/24/1997	170.78[A]
3/25/1997	170.79[A]
3/26/1997	170.82[A]
3/27/1997	170.82[A]
3/28/1997	170.87[A]
3/29/1997	170.84[A]
3/30/1997	170.84[A]
3/31/1997	170.79[A]

Date	Gage height (ft)
4/1/1997	170.74[A]
4/2/1997	170.70[A]
4/3/1997	170.65[A]
4/4/1997	170.75[A]
4/5/1997	170.25[A]
4/6/1997	170.71[A]
4/7/1997	172.71[A]
4/8/1997	171.78[A]
4/9/1997	171.07[A]
4/10/1997	170.57[A]
4/11/1997	170.41[A]
4/12/1997	170.38[A]
4/13/1997	170.33[A]
4/14/1997	170.32[A]
4/15/1997	170.30[A]
4/16/1997	170.28[A]
4/17/1997	170.27[A]
4/18/1997	170.26[A]
4/19/1997	170.24[A]
4/20/1997	170.23[A]
4/21/1997	170.21[A]
4/22/1997	170.33[A]
4/23/1997	170.38[A]
4/24/1997	170.36[A]
4/25/1997	170.35[A]
4/26/1997	170.63[A]
4/27/1997	170.89[A]
4/28/1997	171.06[A]
4/29/1997	171.10[A]
4/30/1997	171.08[A]

Date	Gage height (ft)
5/1/1997	170.96[A]
5/2/1997	170.96[A]
5/3/1997	170.92[A]
5/4/1997	170.94[A]
5/5/1997	170.93[A]
5/6/1997	170.94[A]
5/7/1997	170.94[A]
5/8/1997	170.94[A]
5/9/1997	170.92[A]
5/10/1997	170.91[A]
5/11/1997	170.90[A]
5/12/1997	170.89[A]
5/13/1997	170.86[A]
5/14/1997	170.84[A]
5/15/1997	170.81[A]
5/16/1997	170.79[A]
5/17/1997	170.77[A]
5/18/1997	170.75[A]
5/19/1997	170.73[A]
5/20/1997	170.71[A]
5/21/1997	170.72[A]
5/22/1997	170.72[A]
5/23/1997	170.73[A]
5/24/1997	170.83[A]
5/25/1997	170.87[A]
5/26/1997	170.78[A]
5/27/1997	170.75[A]
5/28/1997	170.74[A]
5/29/1997	170.85[A]
5/30/1997	170.96[A]
5/31/1997	171.04[A]

Date	Gage height (ft)
6/1/1997	171.06[A]
6/2/1997	171.05[A]
6/3/1997	171.01[A]
6/4/1997	171.00[A]
6/5/1997	171.00[A]
6/6/1997	170.97[A]
6/7/1997	170.95[A]
6/8/1997	170.92[A]
6/9/1997	170.91[A]
6/10/1997	170.98[A]
6/11/1997	171.00[A]
6/12/1997	171.03[A]
6/13/1997	170.94[A]
6/14/1997	170.98[A]
6/15/1997	170.97[A]
6/16/1997	170.98[A]
6/17/1997	170.96[A]
6/18/1997	170.90[A]
6/19/1997	170.86[A]
6/20/1997	170.86[A]
6/21/1997	170.84[A]
6/22/1997	170.82[A]
6/23/1997	170.81[A]
6/24/1997	170.79[A]
6/25/1997	170.78[A]
6/26/1997	170.77[A]
6/27/1997	170.75[A]
6/28/1997	170.99[A]
6/29/1997	171.09[A]
6/30/1997	170.94[A]

Date	Gage height (ft)
7/1/1997	170.82[A]
7/2/1997	170.78[A]
7/3/1997	170.74[A]
7/4/1997	170.71[A]
7/5/1997	170.66[A]
7/6/1997	170.62[A]
7/7/1997	170.63[A]
7/8/1997	170.64[A]
7/9/1997	170.61[A]
7/10/1997	170.59[A]
7/11/1997	170.56[A]
7/12/1997	170.52[A]
7/13/1997	170.49[A]
7/14/1997	170.46[A]
7/15/1997	170.42[A]
7/16/1997	170.39[A]
7/17/1997	170.35[A]
7/18/1997	170.31[A]
7/19/1997	170.28[A]
7/20/1997	170.24[A]
7/21/1997	170.21[A]
7/22/1997	170.17[A]
7/23/1997	170.13[A]
7/24/1997	170.08[A]
7/25/1997	170.05[A]
7/26/1997	170.02[A]
7/27/1997	169.98[A]
7/28/1997	169.93[A]
7/29/1997	169.89[A]
7/30/1997	169.85[A]
7/31/1997	169.80[A]

Date	Gage height (ft)
8/1/1997	169.75[A]
8/2/1997	169.71[A]
8/3/1997	169.68[A]
8/4/1997	169.65[A]
8/5/1997	169.60[A]
8/6/1997	169.53[A]
8/7/1997	169.51[A]
8/8/1997	169.57[A]
8/9/1997	169.66[A]
8/10/1997	169.69[A]
8/11/1997	169.66[A]
8/12/1997	169.64[A]
8/13/1997	169.62[A]
8/14/1997	169.63[A]
8/15/1997	169.59[A]
8/16/1997	169.55[A]
8/17/1997	169.52[A]
8/18/1997	169.48[A]
8/19/1997	169.45[A]
8/20/1997	169.42[A]
8/21/1997	169.41[A]
8/22/1997	169.45[A]
8/23/1997	169.54[A]
8/24/1997	169.54[A]
8/25/1997	169.52[A]
8/26/1997	169.51[A]
8/27/1997	169.50[A]
8/28/1997	169.48[A]
8/29/1997	169.47[A]
8/30/1997	169.46[A]
8/31/1997	169.45[A]

Date	Gage height (ft)
9/1/1997	169.43[A]
9/2/1997	169.42[A]
9/3/1997	169.43[A]
9/4/1997	169.46[A]
9/5/1997	169.44[A]
9/6/1997	169.43[A]
9/7/1997	169.41[A]
9/8/1997	169.42[A]
9/9/1997	169.40[A]
9/10/1997	169.39[A]
9/11/1997	169.36[A]
9/12/1997	169.33[A]
9/13/1997	169.32[A]
9/14/1997	169.31[A]
9/15/1997	169.29[A]
9/16/1997	169.29[A]
9/17/1997	169.27[A]
9/18/1997	169.26[A]
9/19/1997	169.25[A]
9/20/1997	169.24[A]
9/21/1997	169.21[A]
9/22/1997	P
9/23/1997	P
9/24/1997	P
9/25/1997	169.32[A]
9/26/1997	169.29[A]
9/27/1997	169.28[A]
9/28/1997	169.28[A]
9/29/1997	169.26[A]
9/30/1997	169.26[A]

Preview Only

APPENDIX C

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
02/01/2012 00:00 CST	169.40[P]
02/01/2012 01:00 CST	169.39[P]
02/01/2012 02:00 CST	169.39[P]
02/01/2012 03:00 CST	169.39[P]
02/01/2012 04:00 CST	169.40[P]
02/01/2012 05:00 CST	169.39[P]
02/01/2012 06:00 CST	169.40[P]
02/01/2012 07:00 CST	169.39[P]
02/01/2012 08:00 CST	169.40[P]
02/01/2012 09:00 CST	169.41[P]
02/01/2012 10:00 CST	169.39[P]
02/01/2012 11:00 CST	169.41[P]
02/01/2012 12:00 CST	169.40[P]
02/01/2012 13:00 CST	169.41[P]
02/01/2012 14:00 CST	169.45[P]
02/01/2012 15:00 CST	169.44[P]
02/01/2012 16:00 CST	169.39[P]
02/01/2012 17:00 CST	169.41[P]
02/01/2012 18:00 CST	169.42[P]
02/01/2012 19:00 CST	169.40[P]
02/01/2012 20:00 CST	169.40[P]
02/01/2012 21:00 CST	169.40[P]
02/01/2012 22:00 CST	169.41[P]
02/01/2012 23:00 CST	169.40[P]
02/02/2012 00:00 CST	169.41[P]
02/02/2012 01:00 CST	169.41[P]
02/02/2012 02:00 CST	169.41[P]
02/02/2012 03:00 CST	169.41[P]
02/02/2012 04:00 CST	169.39[P]
02/02/2012 05:00 CST	169.41[P]
02/02/2012 06:00 CST	169.40[P]

Date	Gage height (ft)
02/02/2012 07:00 CST	169.38[P]
02/02/2012 08:00 CST	169.37[P]
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02/03/2012 03:00 CST	169.45[P]
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Date	Gage height (ft)
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02/04/2012 18:00 CST	169.55[P]
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02/04/2012 20:00 CST	169.56[P]

Date	Gage height (ft)
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02/05/2012 02:00 CST	169.52[P]
02/05/2012 03:00 CST	169.55[P]
02/05/2012 04:00 CST	169.54[P]
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02/05/2012 22:00 CST	169.53[P]
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02/06/2012 02:00 CST	169.52[P]
02/06/2012 03:00 CST	169.52[P]

Date	Gage height (ft)
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02/06/2012 08:00 CST	169.51[P]
02/06/2012 09:00 CST	169.51[P]
02/06/2012 10:00 CST	169.48[P]
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02/07/2012 01:00 CST	169.51[P]
02/07/2012 02:00 CST	169.51[P]
02/07/2012 03:00 CST	169.50[P]
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02/07/2012 05:00 CST	169.50[P]
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02/07/2012 10:00 CST	169.51[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
02/07/2012 11:00 CST	169.51[P]
02/07/2012 12:00 CST	169.50[P]
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02/07/2012 15:00 CST	169.51[P]
02/07/2012 16:00 CST	169.51[P]
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02/07/2012 18:00 CST	169.51[P]
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02/08/2012 01:00 CST	169.53[P]
02/08/2012 02:00 CST	169.53[P]
02/08/2012 03:00 CST	169.53[P]
02/08/2012 04:00 CST	169.54[P]
02/08/2012 05:00 CST	169.54[P]
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02/08/2012 07:00 CST	169.54[P]
02/08/2012 08:00 CST	169.54[P]
02/08/2012 09:00 CST	169.54[P]
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02/08/2012 11:00 CST	169.52[P]
02/08/2012 12:00 CST	169.53[P]
02/08/2012 13:00 CST	169.54[P]
02/08/2012 14:00 CST	169.54[P]
02/08/2012 15:00 CST	169.55[P]
02/08/2012 16:00 CST	169.55[P]
02/08/2012 17:00 CST	169.54[P]

Date	Gage height (ft)
02/08/2012 18:00 CST	169.54[P]
02/08/2012 19:00 CST	169.57[P]
02/08/2012 20:00 CST	169.57[P]
02/08/2012 21:00 CST	169.56[P]
02/08/2012 22:00 CST	169.56[P]
02/08/2012 23:00 CST	169.55[P]
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02/09/2012 01:00 CST	169.55[P]
02/09/2012 02:00 CST	169.54[P]
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02/09/2012 04:00 CST	169.54[P]
02/09/2012 05:00 CST	169.53[P]
02/09/2012 06:00 CST	169.53[P]
02/09/2012 07:00 CST	169.51[P]
02/09/2012 08:00 CST	169.51[P]
02/09/2012 09:00 CST	169.50[P]
02/09/2012 10:00 CST	169.48[P]
02/09/2012 11:00 CST	169.50[P]
02/09/2012 12:00 CST	169.50[P]
02/09/2012 13:00 CST	169.50[P]
02/09/2012 14:00 CST	169.51[P]
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02/09/2012 16:00 CST	169.51[P]
02/09/2012 17:00 CST	169.48[P]
02/09/2012 18:00 CST	169.50[P]
02/09/2012 19:00 CST	169.53[P]
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02/09/2012 21:00 CST	169.53[P]
02/09/2012 22:00 CST	169.52[P]
02/09/2012 23:00 CST	169.48[P]
02/10/2012 00:00 CST	169.52[P]

Date	Gage height (ft)
02/10/2012 01:00 CST	169.54[P]
02/10/2012 02:00 CST	169.51[P]
02/10/2012 03:00 CST	169.52[P]
02/10/2012 04:00 CST	169.52[P]
02/10/2012 05:00 CST	169.53[P]
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02/10/2012 07:00 CST	169.55[P]
02/10/2012 08:00 CST	169.53[P]
02/10/2012 09:00 CST	169.53[P]
02/10/2012 10:00 CST	169.54[P]
02/10/2012 11:00 CST	169.55[P]
02/10/2012 12:00 CST	169.56[P]
02/10/2012 13:00 CST	169.55[P]
02/10/2012 14:00 CST	169.59[P]
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02/10/2012 16:00 CST	169.61[P]
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02/10/2012 23:00 CST	169.64[P]
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02/11/2012 04:00 CST	169.61[P]
02/11/2012 05:00 CST	169.57[P]
02/11/2012 06:00 CST	169.60[P]
02/11/2012 07:00 CST	169.58[P]

Date	Gage height (ft)
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02/11/2012 09:00 CST	169.54[P]
02/11/2012 10:00 CST	169.56[P]
02/11/2012 11:00 CST	169.52[P]
02/11/2012 12:00 CST	169.48[P]
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02/11/2012 23:00 CST	169.52[P]
02/12/2012 00:00 CST	169.51[P]
02/12/2012 01:00 CST	169.50[P]
02/12/2012 02:00 CST	169.52[P]
02/12/2012 03:00 CST	169.49[P]
02/12/2012 04:00 CST	169.50[P]
02/12/2012 05:00 CST	169.49[P]
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02/12/2012 11:00 CST	169.48[P]
02/12/2012 12:00 CST	169.48[P]
02/12/2012 13:00 CST	169.51[P]
02/12/2012 14:00 CST	169.46[P]

Date	Gage height (ft)
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02/12/2012 16:00 CST	169.49[P]
02/12/2012 17:00 CST	169.50[P]
02/12/2012 18:00 CST	169.51[P]
02/12/2012 19:00 CST	169.52[P]
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02/13/2012 14:00 CST	169.51[P]
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02/13/2012 17:00 CST	169.55[P]
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02/13/2012 19:00 CST	169.53[P]
02/13/2012 20:00 CST	169.53[P]
02/13/2012 21:00 CST	169.54[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
02/13/2012 22:00 CST	169.54[P]
02/13/2012 23:00 CST	169.55[P]
02/14/2012 00:00 CST	169.54[P]
02/14/2012 01:00 CST	169.54[P]
02/14/2012 02:00 CST	169.56[P]
02/14/2012 03:00 CST	169.55[P]
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02/14/2012 09:00 CST	169.52[P]
02/14/2012 10:00 CST	169.54[P]
02/14/2012 11:00 CST	169.53[P]
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02/14/2012 13:00 CST	169.51[P]
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02/14/2012 19:00 CST	169.49[P]
02/14/2012 20:00 CST	169.52[P]
02/14/2012 21:00 CST	169.50[P]
02/14/2012 22:00 CST	169.51[P]
02/14/2012 23:00 CST	169.53[P]
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02/15/2012 01:00 CST	169.50[P]
02/15/2012 02:00 CST	169.52[P]
02/15/2012 03:00 CST	169.48[P]
02/15/2012 04:00 CST	169.51[P]

Date	Gage height (ft)
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02/15/2012 07:00 CST	169.51[P]
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02/15/2012 09:00 CST	169.52[P]
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02/15/2012 11:00 CST	169.52[P]
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02/15/2012 13:00 CST	169.52[P]
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02/16/2012 10:00 CST	169.51[P]
02/16/2012 11:00 CST	169.54[P]

Date	Gage height (ft)
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02/16/2012 18:00 CST	169.53[P]
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02/16/2012 21:00 CST	169.54[P]
02/16/2012 22:00 CST	169.51[P]
02/16/2012 23:00 CST	169.49[P]
02/17/2012 00:00 CST	169.49[P]
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02/17/2012 02:00 CST	169.54[P]
02/17/2012 03:00 CST	169.52[P]
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02/17/2012 10:00 CST	169.53[P]
02/17/2012 11:00 CST	169.49[P]
02/17/2012 12:00 CST	169.47[P]
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02/17/2012 15:00 CST	169.52[P]
02/17/2012 16:00 CST	169.51[P]
02/17/2012 17:00 CST	169.51[P]
02/17/2012 18:00 CST	169.53[P]

Date	Gage height (ft)
02/17/2012 19:00 CST	169.51[P]
02/17/2012 20:00 CST	169.52[P]
02/17/2012 21:00 CST	169.53[P]
02/17/2012 22:00 CST	169.51[P]
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02/18/2012 18:00 CST	166.19[P]
02/18/2012 19:00 CST	166.19[P]
02/18/2012 20:00 CST	166.20[P]
02/18/2012 21:00 CST	166.19[P]
02/18/2012 22:00 CST	166.20[P]
02/18/2012 23:00 CST	166.20[P]
02/19/2012 00:00 CST	166.21[P]
02/19/2012 01:00 CST	166.20[P]

Date	Gage height (ft)
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02/19/2012 03:00 CST	166.19[P]
02/19/2012 04:00 CST	166.20[P]
02/19/2012 05:00 CST	166.19[P]
02/19/2012 06:00 CST	166.21[P]
02/19/2012 07:00 CST	166.20[P]
02/19/2012 08:00 CST	166.21[P]
02/19/2012 09:00 CST	166.21[P]
02/19/2012 10:00 CST	166.23[P]
02/19/2012 11:00 CST	166.31[P]
02/19/2012 12:00 CST	166.26[P]
02/19/2012 13:00 CST	166.31[P]
02/19/2012 14:00 CST	166.27[P]
02/19/2012 15:00 CST	166.48[P]
02/19/2012 16:00 CST	166.48[P]
02/19/2012 17:00 CST	166.50[P]
02/19/2012 18:00 CST	166.48[P]
02/19/2012 19:00 CST	166.48[P]
02/19/2012 20:00 CST	166.49[P]
02/19/2012 21:00 CST	166.49[P]
02/19/2012 22:00 CST	166.50[P]
02/19/2012 23:00 CST	166.50[P]
02/20/2012 00:00 CST	166.50[P]
02/20/2012 01:00 CST	166.51[P]
02/20/2012 02:00 CST	166.50[P]
02/20/2012 03:00 CST	166.50[P]
02/20/2012 04:00 CST	166.51[P]
02/20/2012 05:00 CST	166.51[P]
02/20/2012 06:00 CST	166.51[P]
02/20/2012 07:00 CST	166.51[P]
02/20/2012 08:00 CST	166.52[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
02/20/2012 09:00 CST	166.54[P]
02/20/2012 10:00 CST	166.55[P]
02/20/2012 11:00 CST	166.54[P]
02/20/2012 12:00 CST	166.54[P]
02/20/2012 13:00 CST	166.55[P]
02/20/2012 14:00 CST	166.52[P]
02/20/2012 15:00 CST	166.58[P]
02/20/2012 16:00 CST	166.52[P]
02/20/2012 17:00 CST	166.51[P]
02/20/2012 18:00 CST	166.51[P]
02/20/2012 19:00 CST	166.49[P]
02/20/2012 20:00 CST	166.49[P]
02/20/2012 21:00 CST	166.50[P]
02/20/2012 22:00 CST	166.50[P]
02/20/2012 23:00 CST	166.51[P]
02/21/2012 00:00 CST	166.95[P]
02/21/2012 01:00 CST	166.79[P]
02/21/2012 02:00 CST	166.85[P]
02/21/2012 03:00 CST	166.83[P]
02/21/2012 04:00 CST	166.82[P]
02/21/2012 05:00 CST	166.83[P]
02/21/2012 06:00 CST	166.82[P]
02/21/2012 07:00 CST	166.83[P]
02/21/2012 08:00 CST	166.83[P]
02/21/2012 09:00 CST	166.83[P]
02/21/2012 10:00 CST	166.78[P]
02/21/2012 11:00 CST	166.78[P]
02/21/2012 12:00 CST	166.79[P]
02/21/2012 13:00 CST	166.77[P]
02/21/2012 14:00 CST	166.77[P]
02/21/2012 15:00 CST	166.82[P]

Date	Gage height (ft)
02/21/2012 16:00 CST	166.84[P]
02/21/2012 17:00 CST	166.83[P]
02/21/2012 18:00 CST	166.81[P]
02/21/2012 19:00 CST	166.80[P]
02/21/2012 20:00 CST	166.81[P]
02/21/2012 21:00 CST	166.82[P]
02/21/2012 22:00 CST	166.81[P]
02/21/2012 23:00 CST	166.82[P]
02/22/2012 00:00 CST	166.81[P]
02/22/2012 01:00 CST	166.82[P]
02/22/2012 02:00 CST	166.80[P]
02/22/2012 03:00 CST	166.82[P]
02/22/2012 04:00 CST	166.83[P]
02/22/2012 05:00 CST	166.83[P]
02/22/2012 06:00 CST	166.83[P]
02/22/2012 07:00 CST	166.81[P]
02/22/2012 08:00 CST	166.80[P]
02/22/2012 09:00 CST	166.84[P]
02/22/2012 10:00 CST	166.84[P]
02/22/2012 11:00 CST	166.85[P]
02/22/2012 12:00 CST	166.83[P]
02/22/2012 13:00 CST	166.82[P]
02/22/2012 14:00 CST	166.80[P]
02/22/2012 15:00 CST	166.85[P]
02/22/2012 16:00 CST	166.84[P]
02/22/2012 17:00 CST	166.84[P]
02/22/2012 18:00 CST	166.83[P]
02/22/2012 19:00 CST	166.74[P]
02/22/2012 20:00 CST	166.78[P]
02/22/2012 21:00 CST	166.76[P]
02/22/2012 22:00 CST	166.76[P]

Date	Gage height (ft)
02/22/2012 23:00 CST	166.77[P]
02/23/2012 00:00 CST	166.76[P]
02/23/2012 01:00 CST	166.77[P]
02/23/2012 02:00 CST	166.77[P]
02/23/2012 03:00 CST	166.79[P]
02/23/2012 04:00 CST	166.82[P]
02/23/2012 05:00 CST	166.82[P]
02/23/2012 06:00 CST	166.80[P]
02/23/2012 07:00 CST	166.83[P]
02/23/2012 08:00 CST	166.79[P]
02/23/2012 09:00 CST	166.81[P]
02/23/2012 10:00 CST	166.90[P]
02/23/2012 11:00 CST	166.89[P]
02/23/2012 12:00 CST	166.85[P]
02/23/2012 13:00 CST	166.82[P]
02/23/2012 14:00 CST	168.46[P]
02/23/2012 15:00 CST	169.08[P]
02/23/2012 16:00 CST	169.01[P]
02/23/2012 17:00 CST	169.41[P]
02/23/2012 18:00 CST	169.60[P]
02/23/2012 19:00 CST	169.34[P]
02/23/2012 20:00 CST	169.48[P]
02/23/2012 21:00 CST	169.42[P]
02/23/2012 22:00 CST	168.89[P]
02/23/2012 23:00 CST	169.35[P]
02/24/2012 00:00 CST	169.46[P]
02/24/2012 01:00 CST	169.47[P]
02/24/2012 02:00 CST	169.45[P]
02/24/2012 03:00 CST	169.49[P]
02/24/2012 04:00 CST	169.38[P]
02/24/2012 05:00 CST	169.45[P]

Date	Gage height (ft)
02/24/2012 06:00 CST	169.45[P]
02/24/2012 07:00 CST	169.34[P]
02/24/2012 08:00 CST	169.35[P]
02/24/2012 09:00 CST	169.37[P]
02/24/2012 10:00 CST	169.20[P]
02/24/2012 11:00 CST	169.31[P]
02/24/2012 12:00 CST	169.40[P]
02/24/2012 13:00 CST	169.41[P]
02/24/2012 14:00 CST	169.47[P]
02/24/2012 15:00 CST	169.46[P]
02/24/2012 16:00 CST	169.36[P]
02/24/2012 17:00 CST	169.44[P]
02/24/2012 18:00 CST	169.41[P]
02/24/2012 19:00 CST	169.37[P]
02/24/2012 20:00 CST	169.40[P]
02/24/2012 21:00 CST	169.44[P]
02/24/2012 22:00 CST	169.32[P]
02/24/2012 23:00 CST	169.40[P]
02/25/2012 00:00 CST	169.36[P]
02/25/2012 01:00 CST	169.14[P]
02/25/2012 02:00 CST	169.41[P]
02/25/2012 03:00 CST	169.40[P]
02/25/2012 04:00 CST	169.42[P]
02/25/2012 05:00 CST	169.40[P]
02/25/2012 06:00 CST	169.40[P]
02/25/2012 07:00 CST	169.37[P]
02/25/2012 08:00 CST	169.35[P]
02/25/2012 09:00 CST	169.34[P]
02/25/2012 10:00 CST	169.41[P]
02/25/2012 11:00 CST	169.31[P]
02/25/2012 12:00 CST	169.11[P]

Date	Gage height (ft)
02/25/2012 13:00 CST	169.31[P]
02/25/2012 14:00 CST	169.38[P]
02/25/2012 15:00 CST	168.83[P]
02/25/2012 16:00 CST	169.36[P]
02/25/2012 17:00 CST	169.25[P]
02/25/2012 18:00 CST	169.38[P]
02/25/2012 19:00 CST	169.39[P]
02/25/2012 20:00 CST	169.37[P]
02/25/2012 21:00 CST	169.40[P]
02/25/2012 22:00 CST	169.38[P]
02/25/2012 23:00 CST	169.38[P]
02/26/2012 00:00 CST	169.41[P]
02/26/2012 01:00 CST	169.39[P]
02/26/2012 02:00 CST	169.27[P]
02/26/2012 03:00 CST	169.40[P]
02/26/2012 04:00 CST	169.40[P]
02/26/2012 05:00 CST	169.42[P]
02/26/2012 06:00 CST	169.36[P]
02/26/2012 07:00 CST	169.41[P]
02/26/2012 08:00 CST	169.38[P]
02/26/2012 09:00 CST	169.31[P]
02/26/2012 10:00 CST	168.78[P]
02/26/2012 11:00 CST	169.25[P]
02/26/2012 12:00 CST	169.32[P]
02/26/2012 13:00 CST	169.31[P]
02/26/2012 14:00 CST	169.34[P]
02/26/2012 15:00 CST	169.27[P]
02/26/2012 16:00 CST	169.39[P]
02/26/2012 17:00 CST	169.36[P]
02/26/2012 18:00 CST	169.34[P]
02/26/2012 19:00 CST	169.28[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
02/26/2012 20:00 CST	169.39[P]
02/26/2012 21:00 CST	169.36[P]
02/26/2012 22:00 CST	169.37[P]
02/26/2012 23:00 CST	169.38[P]
02/27/2012 00:00 CST	169.38[P]
02/27/2012 01:00 CST	169.36[P]
02/27/2012 02:00 CST	169.11[P]
02/27/2012 03:00 CST	169.24[P]
02/27/2012 04:00 CST	169.32[P]
02/27/2012 05:00 CST	169.37[P]
02/27/2012 06:00 CST	169.33[P]
02/27/2012 07:00 CST	169.29[P]
02/27/2012 08:00 CST	169.24[P]
02/27/2012 09:00 CST	169.31[P]
02/27/2012 10:00 CST	169.40[P]
02/27/2012 11:00 CST	169.35[P]
02/27/2012 12:00 CST	169.35[P]
02/27/2012 13:00 CST	169.29[P]
02/27/2012 14:00 CST	168.77[P]
02/27/2012 15:00 CST	169.38[P]
02/27/2012 16:00 CST	169.37[P]
02/27/2012 17:00 CST	169.29[P]
02/27/2012 18:00 CST	169.37[P]
02/27/2012 19:00 CST	169.39[P]
02/27/2012 20:00 CST	169.36[P]
02/27/2012 21:00 CST	169.41[P]
02/27/2012 22:00 CST	169.40[P]
02/27/2012 23:00 CST	169.35[P]
02/28/2012 00:00 CST	169.40[P]
02/28/2012 01:00 CST	168.81[P]
02/28/2012 02:00 CST	169.36[P]

Date	Gage height (ft)
02/28/2012 03:00 CST	169.38[P]
02/28/2012 04:00 CST	169.29[P]
02/28/2012 05:00 CST	169.37[P]
02/28/2012 06:00 CST	169.38[P]
02/28/2012 07:00 CST	169.35[P]
02/28/2012 08:00 CST	169.37[P]
02/28/2012 09:00 CST	169.39[P]
02/28/2012 10:00 CST	169.23[P]
02/28/2012 11:00 CST	169.29[P]
02/28/2012 12:00 CST	169.23[P]
02/28/2012 13:00 CST	169.34[P]
02/28/2012 14:00 CST	169.31[P]
02/28/2012 15:00 CST	169.38[P]
02/28/2012 16:00 CST	169.39[P]
02/28/2012 17:00 CST	169.37[P]
02/28/2012 18:00 CST	169.30[P]
02/28/2012 19:00 CST	169.24[P]
02/28/2012 20:00 CST	169.37[P]
02/28/2012 21:00 CST	168.88[P]
02/28/2012 22:00 CST	169.41[P]
02/28/2012 23:00 CST	169.35[P]
02/29/2012 00:00 CST	169.37[P]
02/29/2012 01:00 CST	169.40[P]
02/29/2012 02:00 CST	169.25[P]
02/29/2012 03:00 CST	169.31[P]
02/29/2012 04:00 CST	169.41[P]
02/29/2012 05:00 CST	169.40[P]
02/29/2012 06:00 CST	168.95[P]
02/29/2012 07:00 CST	169.38[P]
02/29/2012 08:00 CST	169.27[P]
02/29/2012 09:00 CST	169.32[P]

Date	Gage height (ft)
02/29/2012 10:00 CST	169.32[P]
02/29/2012 11:00 CST	169.42[P]
02/29/2012 12:00 CST	169.27[P]
02/29/2012 13:00 CST	169.40[P]
02/29/2012 14:00 CST	169.02[P]
02/29/2012 15:00 CST	169.38[P]
02/29/2012 16:00 CST	169.26[P]
02/29/2012 17:00 CST	169.39[P]
02/29/2012 18:00 CST	169.35[P]
02/29/2012 19:00 CST	169.35[P]
02/29/2012 20:00 CST	169.33[P]
02/29/2012 21:00 CST	169.39[P]
02/29/2012 22:00 CST	169.04[P]
02/29/2012 23:00 CST	169.38[P]
03/01/2012 00:00 CST	169.38[P]
03/01/2012 01:00 CST	169.38[P]
03/01/2012 02:00 CST	169.28[P]
03/01/2012 03:00 CST	169.32[P]
03/01/2012 04:00 CST	169.11[P]
03/01/2012 05:00 CST	169.38[P]
03/01/2012 06:00 CST	169.30[P]
03/01/2012 07:00 CST	169.34[P]
03/01/2012 08:00 CST	169.38[P]
03/01/2012 09:00 CST	169.31[P]
03/01/2012 10:00 CST	169.35[P]
03/01/2012 11:00 CST	169.36[P]
03/01/2012 12:00 CST	169.35[P]
03/01/2012 13:00 CST	169.28[P]
03/01/2012 14:00 CST	169.32[P]
03/01/2012 15:00 CST	169.39[P]
03/01/2012 16:00 CST	169.27[P]

Date	Gage height (ft)
03/01/2012 17:00 CST	169.39[P]
03/01/2012 18:00 CST	169.29[P]
03/01/2012 19:00 CST	169.32[P]
03/01/2012 20:00 CST	169.23[P]
03/01/2012 21:00 CST	169.27[P]
03/01/2012 22:00 CST	169.18[P]
03/01/2012 23:00 CST	169.21[P]
03/02/2012 00:00 CST	169.21[P]
03/02/2012 01:00 CST	169.37[P]
03/02/2012 02:00 CST	169.27[P]
03/02/2012 03:00 CST	169.25[P]
03/02/2012 04:00 CST	169.35[P]
03/02/2012 05:00 CST	169.13[P]
03/02/2012 06:00 CST	169.21[P]
03/02/2012 07:00 CST	169.40[P]
03/02/2012 08:00 CST	169.36[P]
03/02/2012 09:00 CST	169.36[P]
03/02/2012 10:00 CST	169.49[P]
03/02/2012 11:00 CST	169.15[P]
03/02/2012 12:00 CST	169.43[P]
03/02/2012 13:00 CST	169.41[P]
03/02/2012 14:00 CST	169.41[P]
03/02/2012 15:00 CST	169.46[P]
03/02/2012 16:00 CST	168.78[P]
03/02/2012 17:00 CST	169.35[P]
03/02/2012 18:00 CST	169.37[P]
03/02/2012 19:00 CST	169.34[P]
03/02/2012 20:00 CST	169.30[P]
03/02/2012 21:00 CST	169.38[P]
03/02/2012 22:00 CST	169.36[P]
03/02/2012 23:00 CST	169.22[P]

Date	Gage height (ft)
03/03/2012 00:00 CST	169.31[P]
03/03/2012 01:00 CST	169.18[P]
03/03/2012 02:00 CST	169.25[P]
03/03/2012 03:00 CST	169.21[P]
03/03/2012 04:00 CST	169.26[P]
03/03/2012 05:00 CST	169.15[P]
03/03/2012 06:00 CST	169.29[P]
03/03/2012 07:00 CST	169.20[P]
03/03/2012 08:00 CST	169.29[P]
03/03/2012 09:00 CST	169.28[P]
03/03/2012 10:00 CST	169.23[P]
03/03/2012 11:00 CST	169.27[P]
03/03/2012 12:00 CST	168.75[P]
03/03/2012 13:00 CST	169.27[P]
03/03/2012 14:00 CST	169.31[P]
03/03/2012 15:00 CST	169.39[P]
03/03/2012 16:00 CST	169.28[P]
03/03/2012 17:00 CST	169.39[P]
03/03/2012 18:00 CST	168.76[P]
03/03/2012 19:00 CST	169.34[P]
03/03/2012 20:00 CST	169.39[P]
03/03/2012 21:00 CST	169.13[P]
03/03/2012 22:00 CST	169.35[P]
03/03/2012 23:00 CST	169.34[P]
03/04/2012 00:00 CST	169.33[P]
03/04/2012 01:00 CST	169.33[P]
03/04/2012 02:00 CST	169.22[P]
03/04/2012 03:00 CST	169.29[P]
03/04/2012 04:00 CST	169.28[P]
03/04/2012 05:00 CST	169.21[P]
03/04/2012 06:00 CST	168.99[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
03/04/2012 07:00 CST	169.30[P]
03/04/2012 08:00 CST	169.35[P]
03/04/2012 09:00 CST	169.37[P]
03/04/2012 10:00 CST	169.23[P]
03/04/2012 11:00 CST	169.21[P]
03/04/2012 12:00 CST	169.34[P]
03/04/2012 13:00 CST	169.30[P]
03/04/2012 14:00 CST	169.38[P]
03/04/2012 15:00 CST	169.27[P]
03/04/2012 16:00 CST	169.40[P]
03/04/2012 17:00 CST	169.23[P]
03/04/2012 18:00 CST	169.33[P]
03/04/2012 19:00 CST	169.27[P]
03/04/2012 20:00 CST	169.16[P]
03/04/2012 21:00 CST	169.31[P]
03/04/2012 22:00 CST	169.23[P]
03/04/2012 23:00 CST	169.30[P]
03/05/2012 00:00 CST	169.18[P]
03/05/2012 01:00 CST	169.14[P]
03/05/2012 02:00 CST	169.19[P]
03/05/2012 03:00 CST	169.31[P]
03/05/2012 04:00 CST	169.12[P]
03/05/2012 05:00 CST	168.96[P]
03/05/2012 06:00 CST	169.27[P]
03/05/2012 07:00 CST	169.25[P]
03/05/2012 08:00 CST	169.25[P]
03/05/2012 09:00 CST	169.11[P]
03/05/2012 10:00 CST	169.28[P]
03/05/2012 11:00 CST	169.19[P]
03/05/2012 12:00 CST	169.17[P]
03/05/2012 13:00 CST	169.22[P]

Date	Gage height (ft)
03/05/2012 14:00 CST	169.24[P]
03/05/2012 15:00 CST	169.06[P]
03/05/2012 16:00 CST	169.08[P]
03/05/2012 17:00 CST	169.24[P]
03/05/2012 18:00 CST	169.27[P]
03/05/2012 19:00 CST	169.22[P]
03/05/2012 20:00 CST	169.23[P]
03/05/2012 21:00 CST	169.13[P]
03/05/2012 22:00 CST	169.11[P]
03/05/2012 23:00 CST	169.24[P]
03/06/2012 00:00 CST	169.27[P]
03/06/2012 01:00 CST	169.11[P]
03/06/2012 02:00 CST	169.03[P]
03/06/2012 03:00 CST	169.27[P]
03/06/2012 04:00 CST	169.27[P]
03/06/2012 05:00 CST	169.28[P]
03/06/2012 06:00 CST	169.23[P]
03/06/2012 07:00 CST	169.00[P]
03/06/2012 08:00 CST	169.27[P]
03/06/2012 09:00 CST	169.23[P]
03/06/2012 10:00 CST	169.30[P]
03/06/2012 11:00 CST	169.24[P]
03/06/2012 12:00 CST	169.23[P]
03/06/2012 13:00 CST	169.08[P]
03/06/2012 14:00 CST	169.08[P]
03/06/2012 15:00 CST	169.11[P]
03/06/2012 16:00 CST	169.05[P]
03/06/2012 17:00 CST	169.15[P]
03/06/2012 18:00 CST	169.16[P]
03/06/2012 19:00 CST	169.13[P]
03/06/2012 20:00 CST	169.19[P]

Date	Gage height (ft)
03/06/2012 21:00 CST	169.21[P]
03/06/2012 22:00 CST	169.19[P]
03/06/2012 23:00 CST	168.97[P]
03/07/2012 00:00 CST	169.10[P]
03/07/2012 01:00 CST	168.78[P]
03/07/2012 02:00 CST	169.17[P]
03/07/2012 03:00 CST	169.24[P]
03/07/2012 04:00 CST	169.22[P]
03/07/2012 05:00 CST	169.19[P]
03/07/2012 06:00 CST	169.23[P]
03/07/2012 07:00 CST	169.23[P]
03/07/2012 08:00 CST	169.21[P]
03/07/2012 09:00 CST	169.06[P]
03/07/2012 10:00 CST	169.20[P]
03/07/2012 11:00 CST	169.03[P]
03/07/2012 12:00 CST	169.18[P]
03/07/2012 13:00 CST	169.18[P]
03/07/2012 14:00 CST	169.09[P]
03/07/2012 15:00 CST	169.22[P]
03/07/2012 16:00 CST	169.20[P]
03/07/2012 17:00 CST	169.14[P]
03/07/2012 18:00 CST	169.19[P]
03/07/2012 19:00 CST	169.13[P]
03/07/2012 20:00 CST	169.23[P]
03/07/2012 21:00 CST	169.23[P]
03/07/2012 22:00 CST	169.12[P]
03/07/2012 23:00 CST	169.20[P]
03/08/2012 00:00 CST	169.19[P]
03/08/2012 01:00 CST	169.09[P]
03/08/2012 02:00 CST	169.18[P]
03/08/2012 03:00 CST	169.05[P]

Date	Gage height (ft)
03/08/2012 04:00 CST	169.02[P]
03/08/2012 05:00 CST	169.14[P]
03/08/2012 06:00 CST	169.24[P]
03/08/2012 07:00 CST	169.09[P]
03/08/2012 08:00 CST	169.22[P]
03/08/2012 09:00 CST	169.13[P]
03/08/2012 10:00 CST	169.15[P]
03/08/2012 11:00 CST	169.19[P]
03/08/2012 12:00 CST	169.11[P]
03/08/2012 13:00 CST	169.13[P]
03/08/2012 14:00 CST	169.23[P]
03/08/2012 15:00 CST	169.19[P]
03/08/2012 16:00 CST	168.95[P]
03/08/2012 17:00 CST	169.18[P]
03/08/2012 18:00 CST	168.67[P]
03/08/2012 19:00 CST	168.97[P]
03/08/2012 20:00 CST	169.08[P]
03/08/2012 21:00 CST	169.29[P]
03/08/2012 22:00 CST	169.27[P]
03/08/2012 23:00 CST	169.18[P]
03/09/2012 00:00 CST	169.14[P]
03/09/2012 01:00 CST	169.38[P]
03/09/2012 02:00 CST	169.35[P]
03/09/2012 03:00 CST	169.36[P]
03/09/2012 04:00 CST	169.35[P]
03/09/2012 05:00 CST	169.33[P]
03/09/2012 06:00 CST	169.34[P]
03/09/2012 07:00 CST	169.29[P]
03/09/2012 08:00 CST	169.33[P]
03/09/2012 09:00 CST	169.20[P]
03/09/2012 10:00 CST	169.29[P]

Date	Gage height (ft)
03/09/2012 11:00 CST	168.71[P]
03/09/2012 12:00 CST	169.31[P]
03/09/2012 13:00 CST	169.37[P]
03/09/2012 14:00 CST	169.30[P]
03/09/2012 15:00 CST	169.31[P]
03/09/2012 16:00 CST	169.41[P]
03/09/2012 17:00 CST	169.40[P]
03/09/2012 18:00 CST	169.35[P]
03/09/2012 19:00 CST	169.44[P]
03/09/2012 20:00 CST	169.37[P]
03/09/2012 21:00 CST	169.27[P]
03/09/2012 22:00 CST	169.37[P]
03/09/2012 23:00 CST	169.26[P]
03/10/2012 00:00 CST	169.33[P]
03/10/2012 01:00 CST	169.48[P]
03/10/2012 02:00 CST	169.38[P]
03/10/2012 03:00 CST	169.42[P]
03/10/2012 04:00 CST	169.36[P]
03/10/2012 05:00 CST	169.26[P]
03/10/2012 06:00 CST	169.37[P]
03/10/2012 07:00 CST	169.42[P]
03/10/2012 08:00 CST	169.42[P]
03/10/2012 09:00 CST	169.40[P]
03/10/2012 10:00 CST	169.24[P]
03/10/2012 11:00 CST	168.85[P]
03/10/2012 12:00 CST	169.37[P]
03/10/2012 13:00 CST	169.35[P]
03/10/2012 14:00 CST	169.44[P]
03/10/2012 15:00 CST	169.47[P]
03/10/2012 16:00 CST	169.38[P]
03/10/2012 17:00 CST	169.48[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
03/10/2012 18:00 CST	168.89[P]
03/10/2012 19:00 CST	169.34[P]
03/10/2012 20:00 CST	169.41[P]
03/10/2012 21:00 CST	169.49[P]
03/10/2012 22:00 CST	169.43[P]
03/10/2012 23:00 CST	169.30[P]
03/11/2012 00:00 CST	169.59[P]
03/11/2012 01:00 CST	169.46[P]
03/11/2012 03:00 CDT	169.38[P]
03/11/2012 04:00 CDT	169.46[P]
03/11/2012 05:00 CDT	169.51[P]
03/11/2012 06:00 CDT	169.48[P]
03/11/2012 07:00 CDT	169.54[P]
03/11/2012 08:00 CDT	169.42[P]
03/11/2012 09:00 CDT	169.52[P]
03/11/2012 10:00 CDT	169.44[P]
03/11/2012 11:00 CDT	169.52[P]
03/11/2012 12:00 CDT	169.51[P]
03/11/2012 13:00 CDT	169.54[P]
03/11/2012 14:00 CDT	169.69[P]
03/11/2012 15:00 CDT	169.41[P]
03/11/2012 16:00 CDT	169.36[P]
03/11/2012 17:00 CDT	169.74[P]
03/11/2012 18:00 CDT	169.70[P]
03/11/2012 19:00 CDT	169.70[P]
03/11/2012 20:00 CDT	169.73[P]
03/11/2012 21:00 CDT	169.70[P]
03/11/2012 22:00 CDT	169.56[P]
03/11/2012 23:00 CDT	169.71[P]
03/12/2012 00:00 CDT	169.64[P]
03/12/2012 01:00 CDT	169.78[P]

Date	Gage height (ft)
03/12/2012 02:00 CDT	169.16[P]
03/12/2012 03:00 CDT	169.74[P]
03/12/2012 04:00 CDT	169.78[P]
03/12/2012 05:00 CDT	169.79[P]
03/12/2012 06:00 CDT	169.76[P]
03/12/2012 07:00 CDT	169.69[P]
03/12/2012 08:00 CDT	169.78[P]
03/12/2012 09:00 CDT	169.55[P]
03/12/2012 10:00 CDT	169.85[P]
03/12/2012 11:00 CDT	169.71[P]
03/12/2012 12:00 CDT	169.72[P]
03/12/2012 13:00 CDT	169.76[P]
03/12/2012 14:00 CDT	169.79[P]
03/12/2012 15:00 CDT	169.79[P]
03/12/2012 16:00 CDT	169.86[P]
03/12/2012 17:00 CDT	169.88[P]
03/12/2012 18:00 CDT	169.75[P]
03/12/2012 19:00 CDT	169.76[P]
03/12/2012 20:00 CDT	169.86[P]
03/12/2012 21:00 CDT	169.69[P]
03/12/2012 22:00 CDT	169.83[P]
03/12/2012 23:00 CDT	169.87[P]
03/13/2012 00:00 CDT	169.88[P]
03/13/2012 01:00 CDT	169.84[P]
03/13/2012 02:00 CDT	169.84[P]
03/13/2012 03:00 CDT	169.89[P]
03/13/2012 04:00 CDT	169.81[P]
03/13/2012 05:00 CDT	169.86[P]
03/13/2012 06:00 CDT	169.71[P]
03/13/2012 07:00 CDT	169.83[P]
03/13/2012 08:00 CDT	169.69[P]

Date	Gage height (ft)
03/13/2012 09:00 CDT	169.79[P]
03/13/2012 10:00 CDT	169.89[P]
03/13/2012 11:00 CDT	169.91[P]
03/13/2012 12:00 CDT	169.83[P]
03/13/2012 13:00 CDT	169.91[P]
03/13/2012 14:00 CDT	169.92[P]
03/13/2012 15:00 CDT	169.82[P]
03/13/2012 16:00 CDT	169.66[P]
03/13/2012 17:00 CDT	169.87[P]
03/13/2012 18:00 CDT	169.92[P]
03/13/2012 19:00 CDT	169.80[P]
03/13/2012 20:00 CDT	169.82[P]
03/13/2012 21:00 CDT	169.91[P]
03/13/2012 22:00 CDT	169.90[P]
03/13/2012 23:00 CDT	169.78[P]
03/14/2012 00:00 CDT	169.82[P]
03/14/2012 01:00 CDT	169.89[P]
03/14/2012 02:00 CDT	169.87[P]
03/14/2012 03:00 CDT	169.92[P]
03/14/2012 04:00 CDT	169.65[P]
03/14/2012 05:00 CDT	169.87[P]
03/14/2012 06:00 CDT	169.92[P]
03/14/2012 07:00 CDT	169.86[P]
03/14/2012 08:00 CDT	169.91[P]
03/14/2012 09:00 CDT	169.77[P]
03/14/2012 10:00 CDT	169.81[P]
03/14/2012 11:00 CDT	169.92[P]
03/14/2012 12:00 CDT	169.93[P]
03/14/2012 13:00 CDT	169.89[P]
03/14/2012 14:00 CDT	169.81[P]
03/14/2012 15:00 CDT	169.89[P]

Date	Gage height (ft)
03/14/2012 16:00 CDT	169.84[P]
03/14/2012 17:00 CDT	169.78[P]
03/14/2012 18:00 CDT	169.89[P]
03/14/2012 19:00 CDT	169.84[P]
03/14/2012 20:00 CDT	169.80[P]
03/14/2012 21:00 CDT	169.85[P]
03/14/2012 22:00 CDT	169.88[P]
03/14/2012 23:00 CDT	169.87[P]
03/15/2012 00:00 CDT	169.88[P]
03/15/2012 01:00 CDT	169.91[P]
03/15/2012 02:00 CDT	169.79[P]
03/15/2012 03:00 CDT	169.78[P]
03/15/2012 04:00 CDT	169.90[P]
03/15/2012 05:00 CDT	169.91[P]
03/15/2012 06:00 CDT	169.82[P]
03/15/2012 07:00 CDT	169.88[P]
03/15/2012 08:00 CDT	169.73[P]
03/15/2012 09:00 CDT	169.76[P]
03/15/2012 10:00 CDT	169.79[P]
03/15/2012 11:00 CDT	169.93[P]
03/15/2012 12:00 CDT	169.91[P]
03/15/2012 13:00 CDT	169.89[P]
03/15/2012 14:00 CDT	169.86[P]
03/15/2012 15:00 CDT	169.76[P]
03/15/2012 16:00 CDT	169.79[P]
03/15/2012 17:00 CDT	169.90[P]
03/15/2012 18:00 CDT	169.87[P]
03/15/2012 19:00 CDT	169.71[P]
03/15/2012 20:00 CDT	169.90[P]
03/15/2012 21:00 CDT	169.88[P]
03/15/2012 22:00 CDT	169.90[P]

Date	Gage height (ft)
03/15/2012 23:00 CDT	169.91[P]
03/16/2012 00:00 CDT	169.91[P]
03/16/2012 01:00 CDT	169.91[P]
03/16/2012 02:00 CDT	169.90[P]
03/16/2012 03:00 CDT	169.88[P]
03/16/2012 04:00 CDT	169.75[P]
03/16/2012 05:00 CDT	169.91[P]
03/16/2012 06:00 CDT	169.32[P]
03/16/2012 07:00 CDT	169.91[P]
03/16/2012 08:00 CDT	169.75[P]
03/16/2012 09:00 CDT	169.72[P]
03/16/2012 10:00 CDT	169.91[P]
03/16/2012 11:00 CDT	169.84[P]
03/16/2012 12:00 CDT	169.86[P]
03/16/2012 13:00 CDT	169.85[P]
03/16/2012 14:00 CDT	169.81[P]
03/16/2012 15:00 CDT	169.84[P]
03/16/2012 16:00 CDT	169.82[P]
03/16/2012 17:00 CDT	169.83[P]
03/16/2012 18:00 CDT	169.84[P]
03/16/2012 19:00 CDT	169.84[P]
03/16/2012 20:00 CDT	169.72[P]
03/16/2012 21:00 CDT	169.82[P]
03/16/2012 22:00 CDT	169.82[P]
03/16/2012 23:00 CDT	169.75[P]
03/17/2012 00:00 CDT	169.84[P]
03/17/2012 01:00 CDT	169.80[P]
03/17/2012 02:00 CDT	169.77[P]
03/17/2012 03:00 CDT	169.79[P]
03/17/2012 04:00 CDT	169.79[P]
03/17/2012 05:00 CDT	169.82[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
03/17/2012 06:00 CDT	169.82[P]
03/17/2012 07:00 CDT	169.58[P]
03/17/2012 08:00 CDT	169.83[P]
03/17/2012 09:00 CDT	169.80[P]
03/17/2012 10:00 CDT	169.80[P]
03/17/2012 11:00 CDT	169.83[P]
03/17/2012 12:00 CDT	169.85[P]
03/17/2012 13:00 CDT	169.77[P]
03/17/2012 14:00 CDT	169.79[P]
03/17/2012 15:00 CDT	169.87[P]
03/17/2012 16:00 CDT	169.81[P]
03/17/2012 17:00 CDT	169.85[P]
03/17/2012 18:00 CDT	169.73[P]
03/17/2012 19:00 CDT	169.86[P]
03/17/2012 20:00 CDT	169.67[P]
03/17/2012 21:00 CDT	169.79[P]
03/17/2012 22:00 CDT	169.80[P]
03/17/2012 23:00 CDT	169.86[P]
03/18/2012 00:00 CDT	169.86[P]
03/18/2012 01:00 CDT	169.79[P]
03/18/2012 02:00 CDT	169.62[P]
03/18/2012 03:00 CDT	169.85[P]
03/18/2012 04:00 CDT	169.86[P]
03/18/2012 05:00 CDT	169.76[P]
03/18/2012 06:00 CDT	169.86[P]
03/18/2012 07:00 CDT	169.78[P]
03/18/2012 08:00 CDT	169.67[P]
03/18/2012 09:00 CDT	169.84[P]
03/18/2012 10:00 CDT	169.86[P]
03/18/2012 11:00 CDT	169.67[P]
03/18/2012 12:00 CDT	169.83[P]

Date	Gage height (ft)
03/18/2012 13:00 CDT	169.70[P]
03/18/2012 14:00 CDT	169.72[P]
03/18/2012 15:00 CDT	169.77[P]
03/18/2012 16:00 CDT	169.70[P]
03/18/2012 17:00 CDT	169.75[P]
03/18/2012 18:00 CDT	169.76[P]
03/18/2012 19:00 CDT	169.71[P]
03/18/2012 20:00 CDT	169.75[P]
03/18/2012 21:00 CDT	169.75[P]
03/18/2012 22:00 CDT	169.78[P]
03/18/2012 23:00 CDT	169.79[P]
03/19/2012 00:00 CDT	169.80[P]
03/19/2012 01:00 CDT	169.71[P]
03/19/2012 02:00 CDT	169.81[P]
03/19/2012 03:00 CDT	169.70[P]
03/19/2012 04:00 CDT	169.82[P]
03/19/2012 05:00 CDT	169.71[P]
03/19/2012 06:00 CDT	169.78[P]
03/19/2012 07:00 CDT	169.81[P]
03/19/2012 08:00 CDT	169.42[P]
03/19/2012 09:00 CDT	169.83[P]
03/19/2012 10:00 CDT	169.68[P]
03/19/2012 11:00 CDT	169.71[P]
03/19/2012 12:00 CDT	169.75[P]
03/19/2012 13:00 CDT	169.76[P]
03/19/2012 14:00 CDT	169.79[P]
03/19/2012 15:00 CDT	169.71[P]
03/19/2012 16:00 CDT	169.62[P]
03/19/2012 17:00 CDT	169.77[P]
03/19/2012 18:00 CDT	169.77[P]
03/19/2012 19:00 CDT	169.77[P]

Date	Gage height (ft)
03/19/2012 20:00 CDT	169.58[P]
03/19/2012 21:00 CDT	169.62[P]
03/19/2012 22:00 CDT	169.69[P]
03/19/2012 23:00 CDT	169.77[P]
03/20/2012 00:00 CDT	169.71[P]
03/20/2012 01:00 CDT	169.81[P]
03/20/2012 02:00 CDT	169.67[P]
03/20/2012 03:00 CDT	169.73[P]
03/20/2012 04:00 CDT	169.21[P]
03/20/2012 05:00 CDT	169.69[P]
03/20/2012 06:00 CDT	169.71[P]
03/20/2012 07:00 CDT	169.78[P]
03/20/2012 08:00 CDT	169.89[P]
03/20/2012 09:00 CDT	169.70[P]
03/20/2012 10:00 CDT	169.86[P]
03/20/2012 11:00 CDT	169.79[P]
03/20/2012 12:00 CDT	169.87[P]
03/20/2012 13:00 CDT	169.83[P]
03/20/2012 14:00 CDT	169.86[P]
03/20/2012 15:00 CDT	169.90[P]
03/20/2012 16:00 CDT	169.70[P]
03/20/2012 17:00 CDT	169.81[P]
03/20/2012 18:00 CDT	169.95[P]
03/20/2012 19:00 CDT	169.80[P]
03/20/2012 20:00 CDT	169.89[P]
03/20/2012 21:00 CDT	170.03[P]
03/20/2012 22:00 CDT	170.03[P]
03/20/2012 23:00 CDT	169.96[P]
03/21/2012 00:00 CDT	170.11[P]
03/21/2012 01:00 CDT	169.96[P]
03/21/2012 02:00 CDT	170.12[P]

Date	Gage height (ft)
03/21/2012 03:00 CDT	169.74[P]
03/21/2012 04:00 CDT	169.79[P]
03/21/2012 05:00 CDT	170.24[P]
03/21/2012 06:00 CDT	170.22[P]
03/21/2012 07:00 CDT	170.24[P]
03/21/2012 08:00 CDT	170.28[P]
03/21/2012 09:00 CDT	170.32[P]
03/21/2012 10:00 CDT	170.09[P]
03/21/2012 12:00 CDT	170.14[P]
03/21/2012 13:00 CDT	170.32[P]
03/21/2012 14:00 CDT	170.25[P]
03/21/2012 15:00 CDT	170.33[P]
03/21/2012 16:00 CDT	170.31[P]
03/21/2012 17:00 CDT	170.19[P]
03/21/2012 18:00 CDT	170.17[P]
03/21/2012 19:00 CDT	170.19[P]
03/21/2012 20:00 CDT	170.27[P]
03/21/2012 21:00 CDT	170.22[P]
03/21/2012 22:00 CDT	170.22[P]
03/21/2012 23:00 CDT	170.28[P]
03/22/2012 00:00 CDT	170.36[P]
03/22/2012 01:00 CDT	170.07[P]
03/22/2012 02:00 CDT	170.28[P]
03/22/2012 03:00 CDT	170.32[P]
03/22/2012 04:00 CDT	170.22[P]
03/22/2012 05:00 CDT	170.32[P]
03/22/2012 06:00 CDT	170.24[P]
03/22/2012 07:00 CDT	170.36[P]
03/22/2012 08:00 CDT	170.43[P]
03/22/2012 09:00 CDT	170.23[P]
03/22/2012 10:00 CDT	170.29[P]

Date	Gage height (ft)
03/22/2012 11:00 CDT	170.35[P]
03/22/2012 12:00 CDT	170.25[P]
03/22/2012 13:00 CDT	170.34[P]
03/22/2012 14:00 CDT	170.37[P]
03/22/2012 15:00 CDT	170.38[P]
03/22/2012 16:00 CDT	170.29[P]
03/22/2012 17:00 CDT	170.30[P]
03/22/2012 18:00 CDT	170.31[P]
03/22/2012 19:00 CDT	170.19[P]
03/22/2012 20:00 CDT	170.32[P]
03/22/2012 21:00 CDT	170.10[P]
03/22/2012 22:00 CDT	170.32[P]
03/22/2012 23:00 CDT	170.44[P]
03/23/2012 00:00 CDT	170.28[P]
03/23/2012 01:00 CDT	170.21[P]
03/23/2012 02:00 CDT	170.37[P]
03/23/2012 03:00 CDT	170.36[P]
03/23/2012 04:00 CDT	170.25[P]
03/23/2012 05:00 CDT	170.30[P]
03/23/2012 06:00 CDT	170.36[P]
03/23/2012 07:00 CDT	170.20[P]
03/23/2012 08:00 CDT	170.25[P]
03/23/2012 09:00 CDT	170.34[P]
03/23/2012 10:00 CDT	170.29[P]
03/23/2012 11:00 CDT	170.23[P]
03/23/2012 12:00 CDT	170.36[P]
03/23/2012 13:00 CDT	170.35[P]
03/23/2012 14:00 CDT	170.33[P]
03/23/2012 15:00 CDT	170.37[P]
03/23/2012 16:00 CDT	170.35[P]
03/23/2012 17:00 CDT	170.25[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
03/23/2012 18:00 CDT	169.98[P]
03/23/2012 19:00 CDT	170.22[P]
03/23/2012 20:00 CDT	170.25[P]
03/23/2012 21:00 CDT	170.27[P]
03/23/2012 22:00 CDT	170.30[P]
03/23/2012 23:00 CDT	170.31[P]
03/24/2012 00:00 CDT	170.30[P]
03/24/2012 01:00 CDT	170.14[P]
03/24/2012 02:00 CDT	170.13[P]
03/24/2012 03:00 CDT	170.28[P]
03/24/2012 04:00 CDT	170.05[P]
03/24/2012 05:00 CDT	170.28[P]
03/24/2012 06:00 CDT	170.28[P]
03/24/2012 07:00 CDT	170.22[P]
03/24/2012 08:00 CDT	170.27[P]
03/24/2012 09:00 CDT	170.26[P]
03/24/2012 10:00 CDT	170.23[P]
03/24/2012 11:00 CDT	170.05[P]
03/24/2012 12:00 CDT	170.24[P]
03/24/2012 13:00 CDT	170.26[P]
03/24/2012 14:00 CDT	169.88[P]
03/24/2012 15:00 CDT	170.27[P]
03/24/2012 16:00 CDT	170.26[P]
03/24/2012 17:00 CDT	170.07[P]
03/24/2012 18:00 CDT	170.25[P]
03/24/2012 19:00 CDT	170.09[P]
03/24/2012 20:00 CDT	170.10[P]
03/24/2012 21:00 CDT	170.21[P]
03/24/2012 22:00 CDT	170.23[P]
03/24/2012 23:00 CDT	170.09[P]
03/25/2012 00:00 CDT	170.20[P]

Date	Gage height (ft)
03/25/2012 01:00 CDT	170.13[P]
03/25/2012 02:00 CDT	170.17[P]
03/25/2012 03:00 CDT	170.00[P]
03/25/2012 04:00 CDT	170.22[P]
03/25/2012 05:00 CDT	170.21[P]
03/25/2012 06:00 CDT	170.15[P]
03/25/2012 07:00 CDT	170.01[P]
03/25/2012 08:00 CDT	170.12[P]
03/25/2012 09:00 CDT	170.02[P]
03/25/2012 10:00 CDT	170.02[P]
03/25/2012 11:00 CDT	170.06[P]
03/25/2012 12:00 CDT	170.16[P]
03/25/2012 13:00 CDT	170.03[P]
03/25/2012 14:00 CDT	170.18[P]
03/25/2012 15:00 CDT	170.16[P]
03/25/2012 16:00 CDT	170.00[P]
03/25/2012 17:00 CDT	170.12[P]
03/25/2012 18:00 CDT	170.12[P]
03/25/2012 19:00 CDT	169.99[P]
03/25/2012 20:00 CDT	169.92[P]
03/25/2012 21:00 CDT	170.00[P]
03/25/2012 22:00 CDT	170.08[P]
03/25/2012 23:00 CDT	170.06[P]
03/26/2012 00:00 CDT	170.08[P]
03/26/2012 01:00 CDT	170.10[P]
03/26/2012 02:00 CDT	170.08[P]
03/26/2012 03:00 CDT	170.13[P]
03/26/2012 04:00 CDT	170.05[P]
03/26/2012 05:00 CDT	170.11[P]
03/26/2012 06:00 CDT	170.11[P]
03/26/2012 07:00 CDT	169.93[P]

Date	Gage height (ft)
03/26/2012 08:00 CDT	170.08[P]
03/26/2012 09:00 CDT	169.79[P]
03/26/2012 10:00 CDT	169.99[P]
03/26/2012 11:00 CDT	170.10[P]
03/26/2012 12:00 CDT	170.06[P]
03/26/2012 13:00 CDT	170.03[P]
03/26/2012 14:00 CDT	169.79[P]
03/26/2012 15:00 CDT	170.06[P]
03/26/2012 16:00 CDT	170.04[P]
03/26/2012 17:00 CDT	169.96[P]
03/26/2012 18:00 CDT	169.89[P]
03/26/2012 19:00 CDT	169.93[P]
03/26/2012 20:00 CDT	169.94[P]
03/26/2012 21:00 CDT	170.05[P]
03/26/2012 22:00 CDT	169.93[P]
03/26/2012 23:00 CDT	170.06[P]
03/27/2012 00:00 CDT	170.03[P]
03/27/2012 01:00 CDT	170.03[P]
03/27/2012 02:00 CDT	170.05[P]
03/27/2012 03:00 CDT	169.99[P]
03/27/2012 04:00 CDT	169.95[P]
03/27/2012 05:00 CDT	170.02[P]
03/27/2012 06:00 CDT	170.04[P]
03/27/2012 07:00 CDT	169.89[P]
03/27/2012 08:00 CDT	170.01[P]
03/27/2012 09:00 CDT	170.04[P]
03/27/2012 10:00 CDT	170.01[P]
03/27/2012 11:00 CDT	169.97[P]
03/27/2012 12:00 CDT	169.88[P]
03/27/2012 13:00 CDT	169.91[P]
03/27/2012 14:00 CDT	169.91[P]

Date	Gage height (ft)
03/27/2012 15:00 CDT	169.89[P]
03/27/2012 16:00 CDT	170.00[P]
03/27/2012 17:00 CDT	169.86[P]
03/27/2012 18:00 CDT	170.02[P]
03/27/2012 19:00 CDT	169.92[P]
03/27/2012 20:00 CDT	169.98[P]
03/27/2012 21:00 CDT	170.01[P]
03/27/2012 22:00 CDT	169.92[P]
03/27/2012 23:00 CDT	169.93[P]
03/28/2012 00:00 CDT	169.76[P]
03/28/2012 01:00 CDT	169.89[P]
03/28/2012 02:00 CDT	169.88[P]
03/28/2012 03:00 CDT	169.93[P]
03/28/2012 04:00 CDT	169.92[P]
03/28/2012 05:00 CDT	169.58[P]
03/28/2012 06:00 CDT	169.80[P]
03/28/2012 07:00 CDT	169.95[P]
03/28/2012 08:00 CDT	169.85[P]
03/28/2012 09:00 CDT	169.97[P]
03/28/2012 10:00 CDT	169.98[P]
03/28/2012 11:00 CDT	169.99[P]
03/28/2012 12:00 CDT	169.88[P]
03/28/2012 13:00 CDT	169.99[P]
03/28/2012 14:00 CDT	169.81[P]
03/28/2012 15:00 CDT	169.97[P]
03/28/2012 16:00 CDT	169.92[P]
03/28/2012 17:00 CDT	169.84[P]
03/28/2012 18:00 CDT	169.97[P]
03/28/2012 19:00 CDT	169.88[P]
03/28/2012 20:00 CDT	169.85[P]
03/28/2012 21:00 CDT	169.95[P]

Date	Gage height (ft)
03/28/2012 22:00 CDT	169.90[P]
03/28/2012 23:00 CDT	169.95[P]
03/29/2012 00:00 CDT	169.89[P]
03/29/2012 01:00 CDT	169.93[P]
03/29/2012 02:00 CDT	169.96[P]
03/29/2012 03:00 CDT	169.95[P]
03/29/2012 04:00 CDT	169.95[P]
03/29/2012 05:00 CDT	169.88[P]
03/29/2012 06:00 CDT	169.93[P]
03/29/2012 07:00 CDT	169.94[P]
03/29/2012 08:00 CDT	169.35[P]
03/29/2012 09:00 CDT	169.94[P]
03/29/2012 10:00 CDT	169.88[P]
03/29/2012 11:00 CDT	169.91[P]
03/29/2012 12:00 CDT	169.87[P]
03/29/2012 13:00 CDT	169.63[P]
03/29/2012 14:00 CDT	169.71[P]
03/29/2012 15:00 CDT	169.88[P]
03/29/2012 16:00 CDT	169.98[P]
03/29/2012 17:00 CDT	169.83[P]
03/29/2012 18:00 CDT	169.95[P]
03/29/2012 19:00 CDT	169.91[P]
03/29/2012 20:00 CDT	169.71[P]
03/29/2012 21:00 CDT	169.70[P]
03/29/2012 22:00 CDT	169.71[P]
03/29/2012 23:00 CDT	169.72[P]
03/30/2012 00:00 CDT	169.72[P]
03/30/2012 01:00 CDT	169.62[P]
03/30/2012 02:00 CDT	169.72[P]
03/30/2012 03:00 CDT	169.73[P]
03/30/2012 04:00 CDT	169.72[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
03/30/2012 05:00 CDT	169.60[P]
03/30/2012 06:00 CDT	169.73[P]
03/30/2012 07:00 CDT	169.73[P]
03/30/2012 08:00 CDT	169.73[P]
03/30/2012 09:00 CDT	169.67[P]
03/30/2012 10:00 CDT	169.70[P]
03/30/2012 11:00 CDT	169.73[P]
03/30/2012 12:00 CDT	169.71[P]
03/30/2012 13:00 CDT	169.49[P]
03/30/2012 14:00 CDT	169.71[P]
03/30/2012 15:00 CDT	169.69[P]
03/30/2012 16:00 CDT	169.68[P]
03/30/2012 17:00 CDT	169.58[P]
03/30/2012 18:00 CDT	169.72[P]
03/30/2012 19:00 CDT	169.70[P]
03/30/2012 20:00 CDT	169.71[P]
03/30/2012 21:00 CDT	169.71[P]
03/30/2012 22:00 CDT	169.69[P]
03/30/2012 23:00 CDT	169.70[P]
03/31/2012 00:00 CDT	169.71[P]
03/31/2012 01:00 CDT	169.71[P]
03/31/2012 02:00 CDT	169.71[P]
03/31/2012 03:00 CDT	169.64[P]
03/31/2012 04:00 CDT	169.37[P]
03/31/2012 05:00 CDT	169.71[P]
03/31/2012 06:00 CDT	169.71[P]
03/31/2012 07:00 CDT	169.63[P]
03/31/2012 08:00 CDT	169.70[P]
03/31/2012 09:00 CDT	169.70[P]
03/31/2012 10:00 CDT	169.71[P]
03/31/2012 11:00 CDT	169.67[P]

Date	Gage height (ft)
03/31/2012 12:00 CDT	169.70[P]
03/31/2012 13:00 CDT	169.72[P]
03/31/2012 14:00 CDT	169.69[P]
03/31/2012 15:00 CDT	169.69[P]
03/31/2012 16:00 CDT	169.69[P]
03/31/2012 17:00 CDT	169.69[P]
03/31/2012 18:00 CDT	169.67[P]
03/31/2012 19:00 CDT	169.44[P]
03/31/2012 20:00 CDT	169.69[P]
03/31/2012 21:00 CDT	169.75[P]
03/31/2012 22:00 CDT	169.73[P]
03/31/2012 23:00 CDT	169.73[P]
04/01/2012 00:00 CDT	169.65[P]
04/01/2012 01:00 CDT	169.30[P]
04/01/2012 02:00 CDT	169.72[P]
04/01/2012 03:00 CDT	169.75[P]
04/01/2012 04:00 CDT	169.70[P]
04/01/2012 05:00 CDT	169.77[P]
04/01/2012 06:00 CDT	169.77[P]
04/01/2012 07:00 CDT	169.75[P]
04/01/2012 08:00 CDT	169.73[P]
04/01/2012 09:00 CDT	169.74[P]
04/01/2012 10:00 CDT	169.73[P]
04/01/2012 11:00 CDT	169.78[P]
04/01/2012 12:00 CDT	169.74[P]
04/01/2012 13:00 CDT	169.75[P]
04/01/2012 14:00 CDT	169.76[P]
04/01/2012 15:00 CDT	169.64[P]
04/01/2012 16:00 CDT	169.74[P]
04/01/2012 17:00 CDT	169.72[P]
04/01/2012 18:00 CDT	169.72[P]

Date	Gage height (ft)
04/01/2012 19:00 CDT	169.74[P]
04/01/2012 20:00 CDT	169.69[P]
04/01/2012 21:00 CDT	169.27[P]
04/01/2012 22:00 CDT	169.71[P]
04/01/2012 23:00 CDT	169.52[P]
04/02/2012 00:00 CDT	169.66[P]
04/02/2012 01:00 CDT	169.57[P]
04/02/2012 02:00 CDT	169.68[P]
04/02/2012 03:00 CDT	169.72[P]
04/02/2012 04:00 CDT	169.72[P]
04/02/2012 05:00 CDT	169.66[P]
04/02/2012 06:00 CDT	169.72[P]
04/02/2012 07:00 CDT	169.62[P]
04/02/2012 08:00 CDT	169.71[P]
04/02/2012 09:00 CDT	169.63[P]
04/02/2012 10:00 CDT	169.63[P]
04/02/2012 11:00 CDT	169.66[P]
04/02/2012 12:00 CDT	169.66[P]
04/02/2012 13:00 CDT	169.66[P]
04/02/2012 14:00 CDT	169.72[P]
04/02/2012 15:00 CDT	169.70[P]
04/02/2012 16:00 CDT	169.63[P]
04/02/2012 17:00 CDT	169.69[P]
04/02/2012 18:00 CDT	169.74[P]
04/02/2012 19:00 CDT	169.64[P]
04/02/2012 20:00 CDT	169.74[P]
04/02/2012 21:00 CDT	169.26[P]
04/02/2012 22:00 CDT	169.65[P]
04/02/2012 23:00 CDT	169.67[P]
04/03/2012 00:00 CDT	169.65[P]
04/03/2012 01:00 CDT	169.70[P]

Date	Gage height (ft)
04/03/2012 02:00 CDT	169.64[P]
04/03/2012 03:00 CDT	169.67[P]
04/03/2012 04:00 CDT	169.49[P]
04/03/2012 05:00 CDT	169.60[P]
04/03/2012 06:00 CDT	169.25[P]
04/03/2012 07:00 CDT	169.65[P]
04/03/2012 08:00 CDT	169.71[P]
04/03/2012 09:00 CDT	169.47[P]
04/03/2012 10:00 CDT	169.69[P]
04/03/2012 11:00 CDT	169.69[P]
04/03/2012 12:00 CDT	169.67[P]
04/03/2012 13:00 CDT	169.70[P]
04/03/2012 14:00 CDT	169.71[P]
04/03/2012 15:00 CDT	169.68[P]
04/03/2012 16:00 CDT	169.62[P]
04/03/2012 17:00 CDT	169.52[P]
04/03/2012 18:00 CDT	169.62[P]
04/03/2012 19:00 CDT	169.61[P]
04/03/2012 20:00 CDT	169.73[P]
04/03/2012 21:00 CDT	169.78[P]
04/03/2012 22:00 CDT	169.71[P]
04/03/2012 23:00 CDT	169.63[P]
04/04/2012 00:00 CDT	169.66[P]
04/04/2012 01:00 CDT	169.71[P]
04/04/2012 02:00 CDT	169.67[P]
04/04/2012 03:00 CDT	169.58[P]
04/04/2012 04:00 CDT	169.85[P]
04/04/2012 05:00 CDT	169.78[P]
04/04/2012 06:00 CDT	169.84[P]
04/04/2012 07:00 CDT	169.50[P]
04/04/2012 08:00 CDT	169.84[P]

Date	Gage height (ft)
04/04/2012 09:00 CDT	169.58[P]
04/04/2012 10:00 CDT	169.90[P]
04/04/2012 11:00 CDT	169.90[P]
04/04/2012 12:00 CDT	169.89[P]
04/04/2012 13:00 CDT	169.88[P]
04/04/2012 14:00 CDT	169.87[P]
04/04/2012 15:00 CDT	169.90[P]
04/04/2012 16:00 CDT	169.89[P]
04/04/2012 17:00 CDT	169.81[P]
04/04/2012 18:00 CDT	169.89[P]
04/04/2012 19:00 CDT	169.80[P]
04/04/2012 20:00 CDT	169.85[P]
04/04/2012 21:00 CDT	169.85[P]
04/04/2012 22:00 CDT	169.84[P]
04/04/2012 23:00 CDT	169.86[P]
04/05/2012 00:00 CDT	169.87[P]
04/05/2012 01:00 CDT	169.77[P]
04/05/2012 02:00 CDT	169.86[P]
04/05/2012 03:00 CDT	169.53[P]
04/05/2012 04:00 CDT	169.77[P]
04/05/2012 05:00 CDT	169.89[P]
04/05/2012 06:00 CDT	169.87[P]
04/05/2012 07:00 CDT	169.86[P]
04/05/2012 08:00 CDT	169.80[P]
04/05/2012 09:00 CDT	169.66[P]
04/05/2012 10:00 CDT	169.88[P]
04/05/2012 11:00 CDT	169.88[P]
04/05/2012 12:00 CDT	169.92[P]
04/05/2012 13:00 CDT	169.96[P]
04/05/2012 14:00 CDT	169.96[P]
04/05/2012 15:00 CDT	169.89[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
04/05/2012 16:00 CDT	169.92[P]
04/05/2012 17:00 CDT	169.56[P]
04/05/2012 18:00 CDT	169.46[P]
04/05/2012 19:00 CDT	169.80[P]
04/05/2012 20:00 CDT	169.89[P]
04/05/2012 21:00 CDT	169.78[P]
04/05/2012 22:00 CDT	169.91[P]
04/05/2012 23:00 CDT	169.93[P]
04/06/2012 00:00 CDT	169.90[P]
04/06/2012 01:00 CDT	169.85[P]
04/06/2012 02:00 CDT	169.91[P]
04/06/2012 03:00 CDT	169.91[P]
04/06/2012 04:00 CDT	169.86[P]
04/06/2012 05:00 CDT	169.79[P]
04/06/2012 06:00 CDT	169.87[P]
04/06/2012 07:00 CDT	169.81[P]
04/06/2012 08:00 CDT	169.84[P]
04/06/2012 09:00 CDT	169.81[P]
04/06/2012 10:00 CDT	169.74[P]
04/06/2012 11:00 CDT	169.87[P]
04/06/2012 12:00 CDT	169.88[P]
04/06/2012 13:00 CDT	169.86[P]
04/06/2012 14:00 CDT	169.84[P]
04/06/2012 15:00 CDT	169.88[P]
04/06/2012 16:00 CDT	169.80[P]
04/06/2012 17:00 CDT	169.76[P]
04/06/2012 18:00 CDT	169.70[P]
04/06/2012 19:00 CDT	169.86[P]
04/06/2012 20:00 CDT	169.86[P]
04/06/2012 21:00 CDT	169.77[P]
04/06/2012 22:00 CDT	169.49[P]

Date	Gage height (ft)
04/06/2012 23:00 CDT	169.81[P]
04/07/2012 00:00 CDT	169.84[P]
04/07/2012 01:00 CDT	169.50[P]
04/07/2012 02:00 CDT	169.82[P]
04/07/2012 03:00 CDT	169.79[P]
04/07/2012 04:00 CDT	169.86[P]
04/07/2012 05:00 CDT	169.86[P]
04/07/2012 06:00 CDT	169.48[P]
04/07/2012 07:00 CDT	169.86[P]
04/07/2012 08:00 CDT	169.86[P]
04/07/2012 09:00 CDT	169.78[P]
04/07/2012 10:00 CDT	169.82[P]
04/07/2012 11:00 CDT	169.85[P]
04/07/2012 12:00 CDT	169.83[P]
04/07/2012 13:00 CDT	169.87[P]
04/07/2012 14:00 CDT	169.77[P]
04/07/2012 15:00 CDT	169.80[P]
04/07/2012 16:00 CDT	169.73[P]
04/07/2012 17:00 CDT	169.78[P]
04/07/2012 18:00 CDT	169.73[P]
04/07/2012 19:00 CDT	169.82[P]
04/07/2012 20:00 CDT	169.81[P]
04/07/2012 21:00 CDT	169.86[P]
04/07/2012 22:00 CDT	169.81[P]
04/07/2012 23:00 CDT	169.84[P]
04/08/2012 00:00 CDT	169.84[P]
04/08/2012 01:00 CDT	169.85[P]
04/08/2012 02:00 CDT	169.79[P]
04/08/2012 03:00 CDT	169.81[P]
04/08/2012 04:00 CDT	169.82[P]
04/08/2012 05:00 CDT	169.75[P]

Date	Gage height (ft)
04/08/2012 06:00 CDT	169.83[P]
04/08/2012 07:00 CDT	169.67[P]
04/08/2012 08:00 CDT	169.60[P]
04/08/2012 09:00 CDT	169.74[P]
04/08/2012 10:00 CDT	169.78[P]
04/08/2012 11:00 CDT	169.79[P]
04/08/2012 12:00 CDT	169.74[P]
04/08/2012 13:00 CDT	169.76[P]
04/08/2012 14:00 CDT	169.82[P]
04/08/2012 15:00 CDT	169.68[P]
04/08/2012 16:00 CDT	169.71[P]
04/08/2012 17:00 CDT	169.77[P]
04/08/2012 18:00 CDT	169.44[P]
04/08/2012 19:00 CDT	169.79[P]
04/08/2012 20:00 CDT	169.43[P]
04/08/2012 21:00 CDT	169.83[P]
04/08/2012 22:00 CDT	169.63[P]
04/08/2012 23:00 CDT	169.76[P]
04/09/2012 00:00 CDT	169.38[P]
04/09/2012 01:00 CDT	169.72[P]
04/09/2012 02:00 CDT	169.65[P]
04/09/2012 03:00 CDT	169.77[P]
04/09/2012 04:00 CDT	169.81[P]
04/09/2012 05:00 CDT	169.80[P]
04/09/2012 06:00 CDT	169.59[P]
04/09/2012 07:00 CDT	169.80[P]
04/09/2012 08:00 CDT	169.72[P]
04/09/2012 09:00 CDT	169.75[P]
04/09/2012 10:00 CDT	169.79[P]
04/09/2012 11:00 CDT	169.67[P]
04/09/2012 12:00 CDT	169.75[P]

Date	Gage height (ft)
04/09/2012 13:00 CDT	169.78[P]
04/09/2012 14:00 CDT	169.69[P]
04/09/2012 15:00 CDT	169.71[P]
04/09/2012 16:00 CDT	169.79[P]
04/09/2012 17:00 CDT	169.78[P]
04/09/2012 18:00 CDT	169.78[P]
04/09/2012 19:00 CDT	169.67[P]
04/09/2012 20:00 CDT	169.71[P]
04/09/2012 21:00 CDT	169.78[P]
04/09/2012 22:00 CDT	169.66[P]
04/09/2012 23:00 CDT	169.78[P]
04/10/2012 00:00 CDT	169.48[P]
04/10/2012 01:00 CDT	169.50[P]
04/10/2012 02:00 CDT	169.69[P]
04/10/2012 03:00 CDT	169.70[P]
04/10/2012 04:00 CDT	169.77[P]
04/10/2012 05:00 CDT	169.75[P]
04/10/2012 06:00 CDT	169.68[P]
04/10/2012 07:00 CDT	169.75[P]
04/10/2012 08:00 CDT	169.76[P]
04/10/2012 09:00 CDT	169.69[P]
04/10/2012 10:00 CDT	169.72[P]
04/10/2012 11:00 CDT	169.74[P]
04/10/2012 12:00 CDT	169.73[P]
04/10/2012 13:00 CDT	169.74[P]
04/10/2012 14:00 CDT	169.78[P]
04/10/2012 15:00 CDT	169.75[P]
04/10/2012 16:00 CDT	169.64[P]
04/10/2012 17:00 CDT	169.76[P]
04/10/2012 18:00 CDT	169.74[P]
04/10/2012 19:00 CDT	169.74[P]

Date	Gage height (ft)
04/10/2012 20:00 CDT	169.75[P]
04/10/2012 21:00 CDT	169.44[P]
04/10/2012 22:00 CDT	169.55[P]
04/10/2012 23:00 CDT	169.73[P]
04/11/2012 00:00 CDT	169.67[P]
04/11/2012 01:00 CDT	169.66[P]
04/11/2012 02:00 CDT	169.75[P]
04/11/2012 03:00 CDT	169.64[P]
04/11/2012 04:00 CDT	169.72[P]
04/11/2012 05:00 CDT	169.75[P]
04/11/2012 06:00 CDT	169.71[P]
04/11/2012 07:00 CDT	169.58[P]
04/11/2012 08:00 CDT	169.69[P]
04/11/2012 09:00 CDT	169.67[P]
04/11/2012 10:00 CDT	169.62[P]
04/11/2012 11:00 CDT	169.49[P]
04/11/2012 12:00 CDT	169.65[P]
04/11/2012 13:00 CDT	169.62[P]
04/11/2012 14:00 CDT	169.53[P]
04/11/2012 15:00 CDT	169.60[P]
04/11/2012 16:00 CDT	169.40[P]
04/11/2012 17:00 CDT	169.68[P]
04/11/2012 18:00 CDT	169.68[P]
04/11/2012 19:00 CDT	169.65[P]
04/11/2012 20:00 CDT	169.59[P]
04/11/2012 21:00 CDT	169.55[P]
04/11/2012 22:00 CDT	169.61[P]
04/11/2012 23:00 CDT	169.62[P]
04/12/2012 00:00 CDT	169.62[P]
04/12/2012 01:00 CDT	169.61[P]
04/12/2012 02:00 CDT	169.67[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
04/12/2012 03:00 CDT	169.62[P]
04/12/2012 04:00 CDT	169.62[P]
04/12/2012 05:00 CDT	169.56[P]
04/12/2012 06:00 CDT	169.58[P]
04/12/2012 07:00 CDT	169.64[P]
04/12/2012 08:00 CDT	169.54[P]
04/12/2012 09:00 CDT	169.57[P]
04/12/2012 10:00 CDT	169.63[P]
04/12/2012 11:00 CDT	169.62[P]
04/12/2012 12:00 CDT	169.62[P]
04/12/2012 13:00 CDT	169.62[P]
04/12/2012 14:00 CDT	169.61[P]
04/12/2012 15:00 CDT	169.64[P]
04/12/2012 16:00 CDT	169.64[P]
04/12/2012 17:00 CDT	169.55[P]
04/12/2012 18:00 CDT	169.62[P]
04/12/2012 19:00 CDT	169.58[P]
04/12/2012 20:00 CDT	169.60[P]
04/12/2012 21:00 CDT	169.58[P]
04/12/2012 22:00 CDT	169.64[P]
04/12/2012 23:00 CDT	169.58[P]
04/13/2012 00:00 CDT	169.64[P]
04/13/2012 01:00 CDT	169.63[P]
04/13/2012 02:00 CDT	169.64[P]
04/13/2012 03:00 CDT	169.63[P]
04/13/2012 04:00 CDT	169.63[P]
04/13/2012 05:00 CDT	169.59[P]
04/13/2012 06:00 CDT	169.62[P]
04/13/2012 07:00 CDT	169.66[P]
04/13/2012 08:00 CDT	169.33[P]
04/13/2012 09:00 CDT	169.59[P]

Date	Gage height (ft)
04/13/2012 10:00 CDT	169.49[P]
04/13/2012 11:00 CDT	169.56[P]
04/13/2012 12:00 CDT	169.61[P]
04/13/2012 13:00 CDT	169.65[P]
04/13/2012 14:00 CDT	169.58[P]
04/13/2012 15:00 CDT	169.65[P]
04/13/2012 16:00 CDT	169.64[P]
04/13/2012 17:00 CDT	169.65[P]
04/13/2012 18:00 CDT	169.63[P]
04/13/2012 19:00 CDT	169.62[P]
04/13/2012 20:00 CDT	169.26[P]
04/13/2012 21:00 CDT	169.52[P]
04/13/2012 22:00 CDT	169.54[P]
04/13/2012 23:00 CDT	169.32[P]
04/14/2012 00:00 CDT	169.51[P]
04/14/2012 01:00 CDT	169.54[P]
04/14/2012 02:00 CDT	169.59[P]
04/14/2012 03:00 CDT	169.54[P]
04/14/2012 04:00 CDT	169.50[P]
04/14/2012 05:00 CDT	169.60[P]
04/14/2012 06:00 CDT	169.57[P]
04/14/2012 07:00 CDT	169.52[P]
04/14/2012 08:00 CDT	169.51[P]
04/14/2012 09:00 CDT	169.52[P]
04/14/2012 10:00 CDT	169.57[P]
04/14/2012 11:00 CDT	169.58[P]
04/14/2012 12:00 CDT	169.57[P]
04/14/2012 13:00 CDT	169.58[P]
04/14/2012 14:00 CDT	169.54[P]
04/14/2012 15:00 CDT	169.45[P]
04/14/2012 16:00 CDT	169.53[P]

Date	Gage height (ft)
04/14/2012 17:00 CDT	169.53[P]
04/14/2012 18:00 CDT	169.52[P]
04/14/2012 19:00 CDT	169.42[P]
04/14/2012 20:00 CDT	169.49[P]
04/14/2012 21:00 CDT	169.48[P]
04/14/2012 22:00 CDT	169.54[P]
04/14/2012 23:00 CDT	169.55[P]
04/15/2012 00:00 CDT	169.52[P]
04/15/2012 01:00 CDT	169.52[P]
04/15/2012 02:00 CDT	169.48[P]
04/15/2012 03:00 CDT	169.36[P]
04/15/2012 04:00 CDT	169.46[P]
04/15/2012 05:00 CDT	169.55[P]
04/15/2012 06:00 CDT	169.52[P]
04/15/2012 07:00 CDT	169.46[P]
04/15/2012 08:00 CDT	169.52[P]
04/15/2012 09:00 CDT	169.47[P]
04/15/2012 10:00 CDT	169.52[P]
04/15/2012 11:00 CDT	169.47[P]
04/15/2012 12:00 CDT	169.53[P]
04/15/2012 13:00 CDT	169.41[P]
04/15/2012 14:00 CDT	169.53[P]
04/15/2012 15:00 CDT	169.33[P]
04/15/2012 16:00 CDT	169.45[P]
04/15/2012 17:00 CDT	169.54[P]
04/15/2012 18:00 CDT	169.65[P]
04/15/2012 19:00 CDT	169.49[P]
04/15/2012 20:00 CDT	169.48[P]
04/15/2012 21:00 CDT	169.50[P]
04/15/2012 22:00 CDT	169.50[P]
04/15/2012 23:00 CDT	169.38[P]

Date	Gage height (ft)
04/16/2012 00:00 CDT	169.46[P]
04/16/2012 01:00 CDT	169.53[P]
04/16/2012 02:00 CDT	169.52[P]
04/16/2012 03:00 CDT	169.40[P]
04/16/2012 04:00 CDT	169.52[P]
04/16/2012 05:00 CDT	169.48[P]
04/16/2012 06:00 CDT	169.57[P]
04/16/2012 07:00 CDT	169.55[P]
04/16/2012 08:00 CDT	169.55[P]
04/16/2012 09:00 CDT	169.48[P]
04/16/2012 10:00 CDT	169.48[P]
04/16/2012 11:00 CDT	169.53[P]
04/16/2012 12:00 CDT	169.51[P]
04/16/2012 13:00 CDT	169.52[P]
04/16/2012 14:00 CDT	169.51[P]
04/16/2012 15:00 CDT	169.45[P]
04/16/2012 16:00 CDT	169.29[P]
04/16/2012 17:00 CDT	169.52[P]
04/16/2012 18:00 CDT	169.44[P]
04/16/2012 19:00 CDT	169.51[P]
04/16/2012 20:00 CDT	169.47[P]
04/16/2012 21:00 CDT	169.35[P]
04/16/2012 22:00 CDT	169.51[P]
04/16/2012 23:00 CDT	169.39[P]
04/17/2012 00:00 CDT	169.41[P]
04/17/2012 01:00 CDT	169.49[P]
04/17/2012 02:00 CDT	169.43[P]
04/17/2012 03:00 CDT	169.51[P]
04/17/2012 04:00 CDT	169.32[P]
04/17/2012 05:00 CDT	169.50[P]
04/17/2012 06:00 CDT	169.50[P]

Date	Gage height (ft)
04/17/2012 07:00 CDT	169.49[P]
04/17/2012 08:00 CDT	169.39[P]
04/17/2012 09:00 CDT	169.45[P]
04/17/2012 10:00 CDT	169.40[P]
04/17/2012 11:00 CDT	169.40[P]
04/17/2012 12:00 CDT	169.42[P]
04/17/2012 13:00 CDT	169.40[P]
04/17/2012 14:00 CDT	169.47[P]
04/17/2012 15:00 CDT	169.27[P]
04/17/2012 16:00 CDT	169.42[P]
04/17/2012 17:00 CDT	169.43[P]
04/17/2012 18:00 CDT	169.42[P]
04/17/2012 19:00 CDT	169.42[P]
04/17/2012 20:00 CDT	169.32[P]
04/17/2012 21:00 CDT	169.36[P]
04/17/2012 22:00 CDT	169.43[P]
04/17/2012 23:00 CDT	169.41[P]
04/18/2012 00:00 CDT	169.38[P]
04/18/2012 01:00 CDT	169.45[P]
04/18/2012 02:00 CDT	169.42[P]
04/18/2012 03:00 CDT	169.39[P]
04/18/2012 04:00 CDT	169.36[P]
04/18/2012 05:00 CDT	169.01[P]
04/18/2012 06:00 CDT	169.36[P]
04/18/2012 07:00 CDT	169.44[P]
04/18/2012 08:00 CDT	169.02[P]
04/18/2012 09:00 CDT	169.38[P]
04/18/2012 10:00 CDT	169.39[P]
04/18/2012 11:00 CDT	169.43[P]
04/18/2012 12:00 CDT	169.34[P]
04/18/2012 13:00 CDT	169.38[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
04/18/2012 14:00 CDT	169.34[P]
04/18/2012 15:00 CDT	169.41[P]
04/18/2012 16:00 CDT	169.39[P]
04/18/2012 17:00 CDT	169.32[P]
04/18/2012 18:00 CDT	169.32[P]
04/18/2012 19:00 CDT	169.32[P]
04/18/2012 20:00 CDT	169.40[P]
04/18/2012 21:00 CDT	169.37[P]
04/18/2012 22:00 CDT	169.41[P]
04/18/2012 23:00 CDT	169.38[P]
04/19/2012 00:00 CDT	169.29[P]
04/19/2012 01:00 CDT	169.28[P]
04/19/2012 02:00 CDT	169.40[P]
04/19/2012 03:00 CDT	169.36[P]
04/19/2012 04:00 CDT	169.36[P]
04/19/2012 05:00 CDT	169.29[P]
04/19/2012 06:00 CDT	169.33[P]
04/19/2012 07:00 CDT	169.38[P]
04/19/2012 08:00 CDT	169.33[P]
04/19/2012 09:00 CDT	169.31[P]
04/19/2012 10:00 CDT	169.37[P]
04/19/2012 11:00 CDT	169.24[P]
04/19/2012 12:00 CDT	169.36[P]
04/19/2012 13:00 CDT	169.34[P]
04/19/2012 14:00 CDT	169.34[P]
04/19/2012 15:00 CDT	169.35[P]
04/19/2012 16:00 CDT	169.35[P]
04/19/2012 17:00 CDT	168.85[P]
04/19/2012 18:00 CDT	169.31[P]
04/19/2012 19:00 CDT	169.33[P]
04/19/2012 20:00 CDT	169.25[P]

Date	Gage height (ft)
04/19/2012 21:00 CDT	169.29[P]
04/19/2012 22:00 CDT	169.17[P]
04/19/2012 23:00 CDT	169.34[P]
04/20/2012 00:00 CDT	169.29[P]
04/20/2012 01:00 CDT	169.23[P]
04/20/2012 02:00 CDT	169.28[P]
04/20/2012 03:00 CDT	169.25[P]
04/20/2012 04:00 CDT	168.87[P]
04/20/2012 05:00 CDT	169.26[P]
04/20/2012 06:00 CDT	169.30[P]
04/20/2012 07:00 CDT	169.24[P]
04/20/2012 08:00 CDT	169.33[P]
04/20/2012 09:00 CDT	169.29[P]
04/20/2012 10:00 CDT	169.26[P]
04/20/2012 11:00 CDT	169.34[P]
04/20/2012 12:00 CDT	169.35[P]
04/20/2012 13:00 CDT	169.32[P]
04/20/2012 14:00 CDT	169.24[P]
04/20/2012 15:00 CDT	169.03[P]
04/20/2012 16:00 CDT	169.33[P]
04/20/2012 17:00 CDT	169.39[P]
04/20/2012 18:00 CDT	169.33[P]
04/20/2012 19:00 CDT	169.35[P]
04/20/2012 20:00 CDT	169.41[P]
04/20/2012 21:00 CDT	169.34[P]
04/20/2012 22:00 CDT	169.40[P]
04/20/2012 23:00 CDT	169.27[P]
04/21/2012 00:00 CDT	169.38[P]
04/21/2012 01:00 CDT	169.30[P]
04/21/2012 02:00 CDT	169.38[P]
04/21/2012 03:00 CDT	169.38[P]

Date	Gage height (ft)
04/21/2012 04:00 CDT	169.30[P]
04/21/2012 05:00 CDT	168.92[P]
04/21/2012 06:00 CDT	169.24[P]
04/21/2012 07:00 CDT	169.29[P]
04/21/2012 08:00 CDT	169.37[P]
04/21/2012 09:00 CDT	169.26[P]
04/21/2012 10:00 CDT	169.36[P]
04/21/2012 11:00 CDT	169.21[P]
04/21/2012 12:00 CDT	169.22[P]
04/21/2012 13:00 CDT	169.31[P]
04/21/2012 14:00 CDT	168.94[P]
04/21/2012 15:00 CDT	169.28[P]
04/21/2012 16:00 CDT	169.39[P]
04/21/2012 17:00 CDT	169.37[P]
04/21/2012 18:00 CDT	169.35[P]
04/21/2012 19:00 CDT	169.30[P]
04/21/2012 20:00 CDT	169.35[P]
04/21/2012 21:00 CDT	169.32[P]
04/21/2012 22:00 CDT	169.29[P]
04/21/2012 23:00 CDT	169.34[P]
04/22/2012 00:00 CDT	169.33[P]
04/22/2012 01:00 CDT	169.33[P]
04/22/2012 02:00 CDT	169.34[P]
04/22/2012 03:00 CDT	169.08[P]
04/22/2012 04:00 CDT	168.97[P]
04/22/2012 05:00 CDT	169.23[P]
04/22/2012 06:00 CDT	169.32[P]
04/22/2012 07:00 CDT	169.31[P]
04/22/2012 08:00 CDT	169.23[P]
04/22/2012 09:00 CDT	169.30[P]
04/22/2012 10:00 CDT	169.23[P]

Date	Gage height (ft)
04/22/2012 11:00 CDT	169.17[P]
04/22/2012 12:00 CDT	169.32[P]
04/22/2012 13:00 CDT	169.36[P]
04/22/2012 14:00 CDT	169.27[P]
04/22/2012 15:00 CDT	169.41[P]
04/22/2012 16:00 CDT	168.95[P]
04/22/2012 17:00 CDT	169.45[P]
04/22/2012 18:00 CDT	169.37[P]
04/22/2012 19:00 CDT	169.41[P]
04/22/2012 20:00 CDT	169.23[P]
04/22/2012 21:00 CDT	169.33[P]
04/22/2012 22:00 CDT	168.79[P]
04/22/2012 23:00 CDT	169.31[P]
04/23/2012 00:00 CDT	169.26[P]
04/23/2012 01:00 CDT	169.27[P]
04/23/2012 02:00 CDT	169.24[P]
04/23/2012 03:00 CDT	169.29[P]
04/23/2012 04:00 CDT	169.27[P]
04/23/2012 05:00 CDT	169.22[P]
04/23/2012 06:00 CDT	169.29[P]
04/23/2012 07:00 CDT	169.28[P]
04/23/2012 08:00 CDT	169.15[P]
04/23/2012 09:00 CDT	169.23[P]
04/23/2012 10:00 CDT	169.18[P]
04/23/2012 11:00 CDT	169.27[P]
04/23/2012 12:00 CDT	169.19[P]
04/23/2012 13:00 CDT	169.00[P]
04/23/2012 14:00 CDT	169.28[P]
04/23/2012 15:00 CDT	169.29[P]
04/23/2012 16:00 CDT	169.08[P]
04/23/2012 17:00 CDT	169.15[P]

Date	Gage height (ft)
04/23/2012 18:00 CDT	169.21[P]
04/23/2012 19:00 CDT	169.16[P]
04/23/2012 20:00 CDT	169.15[P]
04/23/2012 21:00 CDT	169.22[P]
04/23/2012 22:00 CDT	169.27[P]
04/23/2012 23:00 CDT	169.24[P]
04/24/2012 00:00 CDT	169.02[P]
04/24/2012 01:00 CDT	169.23[P]
04/24/2012 02:00 CDT	169.25[P]
04/24/2012 03:00 CDT	169.19[P]
04/24/2012 04:00 CDT	169.25[P]
04/24/2012 05:00 CDT	169.27[P]
04/24/2012 06:00 CDT	169.21[P]
04/24/2012 07:00 CDT	169.17[P]
04/24/2012 08:00 CDT	169.27[P]
04/24/2012 09:00 CDT	169.22[P]
04/24/2012 10:00 CDT	168.83[P]
04/24/2012 11:00 CDT	169.19[P]
04/24/2012 12:00 CDT	169.12[P]
04/24/2012 13:00 CDT	169.17[P]
04/24/2012 14:00 CDT	169.09[P]
04/24/2012 15:00 CDT	169.20[P]
04/24/2012 16:00 CDT	169.20[P]
04/24/2012 17:00 CDT	169.26[P]
04/24/2012 18:00 CDT	169.24[P]
04/24/2012 19:00 CDT	169.15[P]
04/24/2012 20:00 CDT	169.14[P]
04/24/2012 21:00 CDT	169.23[P]
04/24/2012 22:00 CDT	169.17[P]
04/24/2012 23:00 CDT	169.24[P]
04/25/2012 00:00 CDT	169.16[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
04/25/2012 01:00 CDT	169.11[P]
04/25/2012 02:00 CDT	169.24[P]
04/25/2012 03:00 CDT	169.15[P]
04/25/2012 04:00 CDT	169.22[P]
04/25/2012 05:00 CDT	169.24[P]
04/25/2012 06:00 CDT	169.19[P]
04/25/2012 07:00 CDT	169.24[P]
04/25/2012 08:00 CDT	169.25[P]
04/25/2012 09:00 CDT	169.14[P]
04/25/2012 10:00 CDT	169.20[P]
04/25/2012 11:00 CDT	169.28[P]
04/25/2012 12:00 CDT	169.07[P]
04/25/2012 13:00 CDT	169.14[P]
04/25/2012 14:00 CDT	169.29[P]
04/25/2012 15:00 CDT	169.22[P]
04/25/2012 16:00 CDT	169.07[P]
04/25/2012 17:00 CDT	169.24[P]
04/25/2012 18:00 CDT	169.13[P]
04/25/2012 19:00 CDT	169.13[P]
04/25/2012 20:00 CDT	169.22[P]
04/25/2012 21:00 CDT	169.20[P]
04/25/2012 22:00 CDT	169.18[P]
04/25/2012 23:00 CDT	169.21[P]
04/26/2012 00:00 CDT	169.25[P]
04/26/2012 01:00 CDT	169.19[P]
04/26/2012 02:00 CDT	169.18[P]
04/26/2012 03:00 CDT	169.22[P]
04/26/2012 04:00 CDT	169.22[P]
04/26/2012 05:00 CDT	168.81[P]
04/26/2012 06:00 CDT	169.11[P]
04/26/2012 07:00 CDT	169.19[P]

Date	Gage height (ft)
04/26/2012 08:00 CDT	168.79[P]
04/26/2012 09:00 CDT	169.15[P]
04/26/2012 10:00 CDT	169.26[P]
04/26/2012 11:00 CDT	169.22[P]
04/26/2012 12:00 CDT	169.26[P]
04/26/2012 13:00 CDT	169.15[P]
04/26/2012 14:00 CDT	169.16[P]
04/26/2012 15:00 CDT	169.15[P]
04/26/2012 16:00 CDT	169.01[P]
04/26/2012 17:00 CDT	168.66[P]
04/26/2012 18:00 CDT	169.13[P]
04/26/2012 19:00 CDT	169.22[P]
04/26/2012 20:00 CDT	169.12[P]
04/26/2012 21:00 CDT	169.10[P]
04/26/2012 22:00 CDT	169.22[P]
04/26/2012 23:00 CDT	169.19[P]
04/27/2012 00:00 CDT	169.24[P]
04/27/2012 01:00 CDT	169.22[P]
04/27/2012 02:00 CDT	169.11[P]
04/27/2012 03:00 CDT	168.93[P]
04/27/2012 04:00 CDT	169.08[P]
04/27/2012 05:00 CDT	168.67[P]
04/27/2012 06:00 CDT	169.05[P]
04/27/2012 07:00 CDT	169.23[P]
04/27/2012 08:00 CDT	169.11[P]
04/27/2012 09:00 CDT	169.06[P]
04/27/2012 10:00 CDT	169.13[P]
04/27/2012 11:00 CDT	169.21[P]
04/27/2012 12:00 CDT	169.19[P]
04/27/2012 13:00 CDT	169.12[P]
04/27/2012 14:00 CDT	169.14[P]

Date	Gage height (ft)
04/27/2012 15:00 CDT	169.18[P]
04/27/2012 16:00 CDT	168.67[P]
04/27/2012 17:00 CDT	169.01[P]
04/27/2012 18:00 CDT	169.19[P]
04/27/2012 19:00 CDT	168.88[P]
04/27/2012 20:00 CDT	169.17[P]
04/27/2012 21:00 CDT	168.64[P]
04/27/2012 22:00 CDT	169.09[P]
04/27/2012 23:00 CDT	169.06[P]
04/28/2012 00:00 CDT	169.19[P]
04/28/2012 01:00 CDT	168.99[P]
04/28/2012 02:00 CDT	169.13[P]
04/28/2012 03:00 CDT	169.10[P]
04/28/2012 04:00 CDT	169.03[P]
04/28/2012 05:00 CDT	169.07[P]
04/28/2012 06:00 CDT	169.17[P]
04/28/2012 07:00 CDT	169.15[P]
04/28/2012 08:00 CDT	169.16[P]
04/28/2012 09:00 CDT	169.16[P]
04/28/2012 10:00 CDT	169.14[P]
04/28/2012 11:00 CDT	169.09[P]
04/28/2012 12:00 CDT	169.09[P]
04/28/2012 13:00 CDT	169.18[P]
04/28/2012 14:00 CDT	169.26[P]
04/28/2012 15:00 CDT	169.10[P]
04/28/2012 16:00 CDT	169.22[P]
04/28/2012 17:00 CDT	169.13[P]
04/28/2012 18:00 CDT	169.09[P]
04/28/2012 19:00 CDT	169.09[P]
04/28/2012 20:00 CDT	169.06[P]
04/28/2012 21:00 CDT	169.17[P]

Date	Gage height (ft)
04/28/2012 22:00 CDT	169.16[P]
04/28/2012 23:00 CDT	169.04[P]
04/29/2012 00:00 CDT	169.16[P]
04/29/2012 01:00 CDT	169.21[P]
04/29/2012 02:00 CDT	169.25[P]
04/29/2012 03:00 CDT	169.16[P]
04/29/2012 04:00 CDT	169.16[P]
04/29/2012 05:00 CDT	169.24[P]
04/29/2012 06:00 CDT	169.23[P]
04/29/2012 07:00 CDT	169.03[P]
04/29/2012 08:00 CDT	169.14[P]
04/29/2012 09:00 CDT	169.02[P]
04/29/2012 10:00 CDT	169.20[P]
04/29/2012 11:00 CDT	169.21[P]
04/29/2012 12:00 CDT	168.89[P]
04/29/2012 13:00 CDT	169.24[P]
04/29/2012 14:00 CDT	169.09[P]
04/29/2012 15:00 CDT	169.22[P]
04/29/2012 16:00 CDT	169.20[P]
04/29/2012 17:00 CDT	169.21[P]
04/29/2012 18:00 CDT	169.20[P]
04/29/2012 19:00 CDT	169.18[P]
04/29/2012 20:00 CDT	169.15[P]
04/29/2012 21:00 CDT	169.00[P]
04/29/2012 22:00 CDT	169.04[P]
04/29/2012 23:00 CDT	169.19[P]
04/30/2012 00:00 CDT	169.12[P]
04/30/2012 01:00 CDT	168.82[P]
04/30/2012 02:00 CDT	169.25[P]
04/30/2012 03:00 CDT	169.06[P]
04/30/2012 04:00 CDT	168.98[P]

Date	Gage height (ft)
04/30/2012 05:00 CDT	169.18[P]
04/30/2012 06:00 CDT	169.19[P]
04/30/2012 07:00 CDT	169.16[P]
04/30/2012 08:00 CDT	169.07[P]
04/30/2012 09:00 CDT	169.10[P]
04/30/2012 10:00 CDT	169.13[P]
04/30/2012 11:00 CDT	168.98[P]
04/30/2012 12:00 CDT	169.24[P]
04/30/2012 13:00 CDT	169.11[P]
04/30/2012 14:00 CDT	169.22[P]
04/30/2012 15:00 CDT	169.22[P]
04/30/2012 16:00 CDT	168.66[P]
04/30/2012 17:00 CDT	169.05[P]
04/30/2012 18:00 CDT	169.19[P]
04/30/2012 19:00 CDT	168.84[P]
04/30/2012 20:00 CDT	169.20[P]
04/30/2012 21:00 CDT	169.19[P]
04/30/2012 22:00 CDT	169.13[P]
04/30/2012 23:00 CDT	169.17[P]
05/01/2012 00:00 CDT	169.22[P]
05/01/2012 01:00 CDT	169.17[P]
05/01/2012 02:00 CDT	169.20[P]
05/01/2012 03:00 CDT	169.21[P]
05/01/2012 04:00 CDT	169.21[P]
05/01/2012 05:00 CDT	169.15[P]
05/01/2012 06:00 CDT	169.16[P]
05/01/2012 07:00 CDT	169.19[P]
05/01/2012 08:00 CDT	168.98[P]
05/01/2012 09:00 CDT	169.13[P]
05/01/2012 10:00 CDT	169.04[P]
05/01/2012 11:00 CDT	168.86[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
05/01/2012 12:00 CDT	169.03[P]
05/01/2012 13:00 CDT	169.14[P]
05/01/2012 14:00 CDT	169.04[P]
05/01/2012 15:00 CDT	169.15[P]
05/01/2012 16:00 CDT	169.11[P]
05/01/2012 17:00 CDT	169.12[P]
05/01/2012 18:00 CDT	169.12[P]
05/01/2012 19:00 CDT	168.66[P]
05/01/2012 20:00 CDT	169.04[P]
05/01/2012 21:00 CDT	169.07[P]
05/01/2012 22:00 CDT	168.71[P]
05/01/2012 23:00 CDT	169.03[P]
05/02/2012 00:00 CDT	169.12[P]
05/02/2012 01:00 CDT	169.10[P]
05/02/2012 02:00 CDT	169.09[P]
05/02/2012 03:00 CDT	169.11[P]
05/02/2012 04:00 CDT	169.13[P]
05/02/2012 05:00 CDT	169.09[P]
05/02/2012 06:00 CDT	168.88[P]
05/02/2012 07:00 CDT	169.12[P]
05/02/2012 08:00 CDT	169.08[P]
05/02/2012 09:00 CDT	169.14[P]
05/02/2012 10:00 CDT	169.17[P]
05/02/2012 11:00 CDT	169.00[P]
05/02/2012 12:00 CDT	169.16[P]
05/02/2012 13:00 CDT	169.09[P]
05/02/2012 14:00 CDT	168.60[P]
05/02/2012 15:00 CDT	169.07[P]
05/02/2012 16:00 CDT	169.07[P]
05/02/2012 17:00 CDT	168.99[P]
05/02/2012 18:00 CDT	169.12[P]

Date	Gage height (ft)
05/02/2012 19:00 CDT	169.10[P]
05/02/2012 20:00 CDT	169.08[P]
05/02/2012 21:00 CDT	168.98[P]
05/02/2012 22:00 CDT	169.11[P]
05/02/2012 23:00 CDT	169.11[P]
05/03/2012 00:00 CDT	169.01[P]
05/03/2012 01:00 CDT	169.11[P]
05/03/2012 02:00 CDT	169.05[P]
05/03/2012 03:00 CDT	168.82[P]
05/03/2012 04:00 CDT	168.95[P]
05/03/2012 05:00 CDT	168.95[P]
05/03/2012 06:00 CDT	168.72[P]
05/03/2012 07:00 CDT	169.11[P]
05/03/2012 08:00 CDT	169.13[P]
05/03/2012 09:00 CDT	169.04[P]
05/03/2012 10:00 CDT	169.16[P]
05/03/2012 11:00 CDT	169.11[P]
05/03/2012 12:00 CDT	169.09[P]
05/03/2012 13:00 CDT	169.08[P]
05/03/2012 14:00 CDT	169.11[P]
05/03/2012 15:00 CDT	169.05[P]
05/03/2012 16:00 CDT	169.10[P]
05/03/2012 17:00 CDT	169.10[P]
05/03/2012 18:00 CDT	169.12[P]
05/03/2012 19:00 CDT	168.95[P]
05/03/2012 20:00 CDT	168.98[P]
05/03/2012 21:00 CDT	169.10[P]
05/03/2012 22:00 CDT	169.02[P]
05/03/2012 23:00 CDT	169.03[P]
05/04/2012 00:00 CDT	169.10[P]
05/04/2012 01:00 CDT	169.12[P]

Date	Gage height (ft)
05/04/2012 02:00 CDT	168.53[P]
05/04/2012 03:00 CDT	168.64[P]
05/04/2012 04:00 CDT	169.13[P]
05/04/2012 05:00 CDT	169.10[P]
05/04/2012 06:00 CDT	169.11[P]
05/04/2012 07:00 CDT	169.07[P]
05/04/2012 08:00 CDT	168.68[P]
05/04/2012 09:00 CDT	169.12[P]
05/04/2012 10:00 CDT	169.12[P]
05/04/2012 11:00 CDT	168.66[P]
05/04/2012 12:00 CDT	168.72[P]
05/04/2012 13:00 CDT	168.97[P]
05/04/2012 14:00 CDT	169.08[P]
05/04/2012 15:00 CDT	168.96[P]
05/04/2012 16:00 CDT	169.09[P]
05/04/2012 17:00 CDT	169.07[P]
05/04/2012 18:00 CDT	169.02[P]
05/04/2012 19:00 CDT	168.95[P]
05/04/2012 20:00 CDT	169.04[P]
05/04/2012 21:00 CDT	168.98[P]
05/04/2012 22:00 CDT	169.07[P]
05/04/2012 23:00 CDT	169.08[P]
05/05/2012 00:00 CDT	169.08[P]
05/05/2012 01:00 CDT	169.06[P]
05/05/2012 02:00 CDT	169.02[P]
05/05/2012 03:00 CDT	169.08[P]
05/05/2012 04:00 CDT	169.03[P]
05/05/2012 05:00 CDT	169.07[P]
05/05/2012 06:00 CDT	168.52[P]
05/05/2012 07:00 CDT	169.03[P]
05/05/2012 08:00 CDT	169.13[P]

Date	Gage height (ft)
05/05/2012 09:00 CDT	169.03[P]
05/05/2012 10:00 CDT	168.99[P]
05/05/2012 11:00 CDT	169.07[P]
05/05/2012 12:00 CDT	168.89[P]
05/05/2012 13:00 CDT	168.82[P]
05/05/2012 14:00 CDT	168.81[P]
05/05/2012 15:00 CDT	168.69[P]
05/05/2012 16:00 CDT	168.95[P]
05/05/2012 17:00 CDT	168.99[P]
05/05/2012 18:00 CDT	168.60[P]
05/05/2012 19:00 CDT	169.02[P]
05/05/2012 20:00 CDT	168.89[P]
05/05/2012 21:00 CDT	168.97[P]
05/05/2012 22:00 CDT	168.90[P]
05/05/2012 23:00 CDT	169.04[P]
05/06/2012 00:00 CDT	169.06[P]
05/06/2012 01:00 CDT	168.92[P]
05/06/2012 02:00 CDT	168.90[P]
05/06/2012 03:00 CDT	169.04[P]
05/06/2012 04:00 CDT	169.06[P]
05/06/2012 05:00 CDT	168.88[P]
05/06/2012 06:00 CDT	169.08[P]
05/06/2012 07:00 CDT	168.96[P]
05/06/2012 08:00 CDT	168.82[P]
05/06/2012 09:00 CDT	168.75[P]
05/06/2012 10:00 CDT	169.05[P]
05/06/2012 11:00 CDT	169.07[P]
05/06/2012 12:00 CDT	168.97[P]
05/06/2012 13:00 CDT	168.82[P]
05/06/2012 14:00 CDT	169.03[P]
05/06/2012 15:00 CDT	168.91[P]

Date	Gage height (ft)
05/06/2012 16:00 CDT	169.01[P]
05/06/2012 17:00 CDT	169.04[P]
05/06/2012 18:00 CDT	168.94[P]
05/06/2012 19:00 CDT	168.94[P]
05/06/2012 20:00 CDT	169.04[P]
05/06/2012 21:00 CDT	169.00[P]
05/06/2012 22:00 CDT	169.01[P]
05/06/2012 23:00 CDT	169.02[P]
05/07/2012 00:00 CDT	168.90[P]
05/07/2012 01:00 CDT	168.91[P]
05/07/2012 02:00 CDT	168.97[P]
05/07/2012 03:00 CDT	169.08[P]
05/07/2012 04:00 CDT	169.05[P]
05/07/2012 05:00 CDT	168.49[P]
05/07/2012 06:00 CDT	168.97[P]
05/07/2012 07:00 CDT	169.03[P]
05/07/2012 08:00 CDT	169.03[P]
05/07/2012 09:00 CDT	168.95[P]
05/07/2012 10:00 CDT	169.02[P]
05/07/2012 11:00 CDT	169.01[P]
05/07/2012 12:00 CDT	169.02[P]
05/07/2012 13:00 CDT	168.91[P]
05/07/2012 14:00 CDT	169.04[P]
05/07/2012 15:00 CDT	169.03[P]
05/07/2012 16:00 CDT	169.05[P]
05/07/2012 17:00 CDT	168.86[P]
05/07/2012 18:00 CDT	168.97[P]
05/07/2012 19:00 CDT	169.01[P]
05/07/2012 20:00 CDT	168.85[P]
05/07/2012 21:00 CDT	168.61[P]
05/07/2012 22:00 CDT	168.93[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
05/07/2012 23:00 CDT	169.19[P]
05/08/2012 00:00 CDT	169.01[P]
05/08/2012 01:00 CDT	168.99[P]
05/08/2012 02:00 CDT	168.98[P]
05/08/2012 03:00 CDT	169.10[P]
05/08/2012 04:00 CDT	169.12[P]
05/08/2012 05:00 CDT	169.13[P]
05/08/2012 06:00 CDT	168.99[P]
05/08/2012 07:00 CDT	169.10[P]
05/08/2012 08:00 CDT	168.98[P]
05/08/2012 09:00 CDT	169.06[P]
05/08/2012 10:00 CDT	168.63[P]
05/08/2012 11:00 CDT	168.49[P]
05/08/2012 12:00 CDT	168.93[P]
05/08/2012 13:00 CDT	169.00[P]
05/08/2012 14:00 CDT	168.68[P]
05/08/2012 15:00 CDT	169.00[P]
05/08/2012 16:00 CDT	168.94[P]
05/08/2012 17:00 CDT	168.89[P]
05/08/2012 18:00 CDT	168.99[P]
05/08/2012 19:00 CDT	168.93[P]
05/08/2012 20:00 CDT	169.01[P]
05/08/2012 21:00 CDT	169.02[P]
05/08/2012 22:00 CDT	169.00[P]
05/08/2012 23:00 CDT	168.93[P]
05/09/2012 00:00 CDT	168.99[P]
05/09/2012 01:00 CDT	169.04[P]
05/09/2012 02:00 CDT	168.99[P]
05/09/2012 03:00 CDT	168.92[P]
05/09/2012 04:00 CDT	169.02[P]
05/09/2012 05:00 CDT	168.88[P]

Date	Gage height (ft)
05/09/2012 06:00 CDT	168.95[P]
05/09/2012 07:00 CDT	168.65[P]
05/09/2012 08:00 CDT	168.98[P]
05/09/2012 09:00 CDT	168.46[P]
05/09/2012 10:00 CDT	168.47[P]
05/09/2012 11:00 CDT	169.00[P]
05/09/2012 12:00 CDT	168.91[P]
05/09/2012 13:00 CDT	168.84[P]
05/09/2012 14:00 CDT	169.00[P]
05/09/2012 15:00 CDT	168.69[P]
05/09/2012 16:00 CDT	169.03[P]
05/09/2012 17:00 CDT	169.01[P]
05/09/2012 18:00 CDT	169.02[P]
05/09/2012 19:00 CDT	168.79[P]
05/09/2012 20:00 CDT	168.84[P]
05/09/2012 21:00 CDT	168.96[P]
05/09/2012 22:00 CDT	168.97[P]
05/09/2012 23:00 CDT	168.99[P]
05/10/2012 00:00 CDT	168.88[P]
05/10/2012 01:00 CDT	168.99[P]
05/10/2012 02:00 CDT	168.90[P]
05/10/2012 03:00 CDT	169.03[P]
05/10/2012 04:00 CDT	168.93[P]
05/10/2012 05:00 CDT	169.00[P]
05/10/2012 06:00 CDT	169.01[P]
05/10/2012 07:00 CDT	169.02[P]
05/10/2012 08:00 CDT	168.95[P]
05/10/2012 09:00 CDT	169.00[P]
05/10/2012 10:00 CDT	168.96[P]
05/10/2012 11:00 CDT	169.04[P]
05/10/2012 12:00 CDT	169.03[P]

Date	Gage height (ft)
05/10/2012 13:00 CDT	168.96[P]
05/10/2012 14:00 CDT	168.90[P]
05/10/2012 15:00 CDT	168.90[P]
05/10/2012 16:00 CDT	168.96[P]
05/10/2012 17:00 CDT	168.95[P]
05/10/2012 18:00 CDT	169.01[P]
05/10/2012 19:00 CDT	169.00[P]
05/10/2012 20:00 CDT	168.81[P]
05/10/2012 21:00 CDT	169.00[P]
05/10/2012 22:00 CDT	168.89[P]
05/10/2012 23:00 CDT	169.01[P]
05/11/2012 00:00 CDT	169.01[P]
05/11/2012 01:00 CDT	168.95[P]
05/11/2012 02:00 CDT	168.88[P]
05/11/2012 03:00 CDT	168.99[P]
05/11/2012 04:00 CDT	168.95[P]
05/11/2012 05:00 CDT	168.93[P]
05/11/2012 06:00 CDT	168.82[P]
05/11/2012 07:00 CDT	168.87[P]
05/11/2012 08:00 CDT	168.54[P]
05/11/2012 09:00 CDT	168.97[P]
05/11/2012 10:00 CDT	168.87[P]
05/11/2012 11:00 CDT	168.50[P]
05/11/2012 12:00 CDT	168.94[P]
05/11/2012 13:00 CDT	168.97[P]
05/11/2012 14:00 CDT	169.00[P]
05/11/2012 15:00 CDT	168.94[P]
05/11/2012 16:00 CDT	168.97[P]
05/11/2012 17:00 CDT	168.80[P]
05/11/2012 18:00 CDT	168.91[P]
05/11/2012 19:00 CDT	168.82[P]

Date	Gage height (ft)
05/11/2012 20:00 CDT	168.97[P]
05/11/2012 21:00 CDT	168.95[P]
05/11/2012 22:00 CDT	168.98[P]
05/11/2012 23:00 CDT	168.83[P]
05/12/2012 00:00 CDT	168.96[P]
05/12/2012 01:00 CDT	168.98[P]
05/12/2012 02:00 CDT	169.00[P]
05/12/2012 03:00 CDT	168.98[P]
05/12/2012 04:00 CDT	168.98[P]
05/12/2012 05:00 CDT	169.08[P]
05/12/2012 06:00 CDT	168.98[P]
05/12/2012 07:00 CDT	168.87[P]
05/12/2012 08:00 CDT	168.93[P]
05/12/2012 09:00 CDT	168.92[P]
05/12/2012 10:00 CDT	169.07[P]
05/12/2012 11:00 CDT	168.80[P]
05/12/2012 12:00 CDT	169.08[P]
05/12/2012 13:00 CDT	169.10[P]
05/12/2012 14:00 CDT	169.07[P]
05/12/2012 15:00 CDT	168.90[P]
05/12/2012 16:00 CDT	169.07[P]
05/12/2012 17:00 CDT	169.12[P]
05/12/2012 18:00 CDT	168.75[P]
05/12/2012 19:00 CDT	168.96[P]
05/12/2012 20:00 CDT	169.05[P]
05/12/2012 21:00 CDT	169.08[P]
05/12/2012 22:00 CDT	169.09[P]
05/12/2012 23:00 CDT	168.83[P]
05/13/2012 00:00 CDT	169.00[P]
05/13/2012 01:00 CDT	169.10[P]
05/13/2012 02:00 CDT	169.00[P]

Date	Gage height (ft)
05/13/2012 03:00 CDT	168.99[P]
05/13/2012 04:00 CDT	168.74[P]
05/13/2012 05:00 CDT	169.14[P]
05/13/2012 06:00 CDT	169.09[P]
05/13/2012 07:00 CDT	169.04[P]
05/13/2012 08:00 CDT	169.02[P]
05/13/2012 09:00 CDT	168.92[P]
05/13/2012 10:00 CDT	169.05[P]
05/13/2012 11:00 CDT	169.12[P]
05/13/2012 12:00 CDT	168.65[P]
05/13/2012 13:00 CDT	169.01[P]
05/13/2012 14:00 CDT	169.16[P]
05/13/2012 15:00 CDT	169.15[P]
05/13/2012 16:00 CDT	169.09[P]
05/13/2012 17:00 CDT	169.16[P]
05/13/2012 18:00 CDT	168.99[P]
05/13/2012 19:00 CDT	169.02[P]
05/13/2012 20:00 CDT	169.12[P]
05/13/2012 21:00 CDT	169.16[P]
05/13/2012 22:00 CDT	169.11[P]
05/13/2012 23:00 CDT	169.10[P]
05/14/2012 00:00 CDT	169.18[P]
05/14/2012 01:00 CDT	169.01[P]
05/14/2012 02:00 CDT	169.16[P]
05/14/2012 03:00 CDT	169.04[P]
05/14/2012 04:00 CDT	169.07[P]
05/14/2012 05:00 CDT	169.14[P]
05/14/2012 06:00 CDT	169.14[P]
05/14/2012 07:00 CDT	169.06[P]
05/14/2012 08:00 CDT	169.06[P]
05/14/2012 09:00 CDT	169.05[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
05/14/2012 10:00 CDT	169.20[P]
05/14/2012 11:00 CDT	169.21[P]
05/14/2012 12:00 CDT	169.03[P]
05/14/2012 13:00 CDT	169.16[P]
05/14/2012 14:00 CDT	169.08[P]
05/14/2012 15:00 CDT	169.14[P]
05/14/2012 16:00 CDT	169.10[P]
05/14/2012 17:00 CDT	169.02[P]
05/14/2012 18:00 CDT	169.19[P]
05/14/2012 19:00 CDT	169.09[P]
05/14/2012 20:00 CDT	169.27[P]
05/14/2012 21:00 CDT	169.08[P]
05/14/2012 22:00 CDT	169.20[P]
05/14/2012 23:00 CDT	169.03[P]
05/15/2012 00:00 CDT	169.25[P]
05/15/2012 01:00 CDT	169.17[P]
05/15/2012 02:00 CDT	169.16[P]
05/15/2012 03:00 CDT	169.15[P]
05/15/2012 04:00 CDT	169.13[P]
05/15/2012 05:00 CDT	169.03[P]
05/15/2012 06:00 CDT	169.21[P]
05/15/2012 07:00 CDT	168.68[P]
05/15/2012 08:00 CDT	169.27[P]
05/15/2012 09:00 CDT	169.28[P]
05/15/2012 10:00 CDT	169.26[P]
05/15/2012 11:00 CDT	169.26[P]
05/15/2012 12:00 CDT	169.26[P]
05/15/2012 13:00 CDT	169.27[P]
05/15/2012 14:00 CDT	168.70[P]
05/15/2012 15:00 CDT	169.31[P]
05/15/2012 16:00 CDT	169.22[P]
05/15/2012 17:00 CDT	169.28[P]

Date	Gage height (ft)
05/15/2012 18:00 CDT	169.31[P]
05/15/2012 19:00 CDT	169.28[P]
05/15/2012 20:00 CDT	169.07[P]
05/15/2012 21:00 CDT	169.27[P]
05/15/2012 22:00 CDT	169.39[P]
05/15/2012 23:00 CDT	169.35[P]
05/16/2012 00:00 CDT	169.38[P]
05/16/2012 01:00 CDT	169.39[P]
05/16/2012 02:00 CDT	169.34[P]
05/16/2012 03:00 CDT	169.42[P]
05/16/2012 04:00 CDT	168.82[P]
05/16/2012 05:00 CDT	169.33[P]
05/16/2012 06:00 CDT	169.08[P]
05/16/2012 07:00 CDT	168.84[P]
05/16/2012 08:00 CDT	169.22[P]
05/16/2012 09:00 CDT	169.41[P]
05/16/2012 10:00 CDT	169.41[P]
05/16/2012 11:00 CDT	169.32[P]
05/16/2012 12:00 CDT	169.39[P]
05/16/2012 13:00 CDT	169.21[P]
05/16/2012 14:00 CDT	169.39[P]
05/16/2012 15:00 CDT	169.39[P]
05/16/2012 16:00 CDT	169.19[P]
05/16/2012 17:00 CDT	169.39[P]
05/16/2012 18:00 CDT	169.14[P]
05/16/2012 19:00 CDT	169.32[P]
05/16/2012 20:00 CDT	169.29[P]
05/16/2012 21:00 CDT	169.27[P]
05/16/2012 22:00 CDT	169.16[P]
05/16/2012 23:00 CDT	169.33[P]
05/17/2012 00:00 CDT	169.23[P]

Date	Gage height (ft)
05/17/2012 01:00 CDT	169.39[P]
05/17/2012 02:00 CDT	169.29[P]
05/17/2012 03:00 CDT	169.31[P]
05/17/2012 04:00 CDT	169.33[P]
05/17/2012 05:00 CDT	169.34[P]
05/17/2012 06:00 CDT	169.27[P]
05/17/2012 07:00 CDT	169.30[P]
05/17/2012 08:00 CDT	169.34[P]
05/17/2012 09:00 CDT	169.42[P]
05/17/2012 10:00 CDT	169.43[P]
05/17/2012 11:00 CDT	168.86[P]
05/17/2012 12:00 CDT	169.04[P]
05/17/2012 13:00 CDT	169.42[P]
05/17/2012 14:00 CDT	169.28[P]
05/17/2012 15:00 CDT	169.40[P]
05/17/2012 16:00 CDT	169.41[P]
05/17/2012 17:00 CDT	169.37[P]
05/17/2012 18:00 CDT	169.32[P]
05/17/2012 19:00 CDT	168.83[P]
05/17/2012 20:00 CDT	169.41[P]
05/17/2012 21:00 CDT	169.35[P]
05/17/2012 22:00 CDT	169.40[P]
05/17/2012 23:00 CDT	169.36[P]
05/18/2012 00:00 CDT	169.20[P]
05/18/2012 01:00 CDT	169.39[P]
05/18/2012 02:00 CDT	169.38[P]
05/18/2012 03:00 CDT	169.36[P]
05/18/2012 04:00 CDT	169.23[P]
05/18/2012 05:00 CDT	169.20[P]
05/18/2012 06:00 CDT	169.32[P]
05/18/2012 07:00 CDT	169.42[P]

Date	Gage height (ft)
05/18/2012 08:00 CDT	169.28[P]
05/18/2012 09:00 CDT	169.34[P]
05/18/2012 10:00 CDT	169.41[P]
05/18/2012 11:00 CDT	168.85[P]
05/18/2012 12:00 CDT	168.89[P]
05/18/2012 13:00 CDT	169.23[P]
05/18/2012 14:00 CDT	169.36[P]
05/18/2012 15:00 CDT	169.21[P]
05/18/2012 16:00 CDT	169.38[P]
05/18/2012 17:00 CDT	168.99[P]
05/18/2012 18:00 CDT	169.38[P]
05/18/2012 19:00 CDT	169.27[P]
05/18/2012 20:00 CDT	169.18[P]
05/18/2012 21:00 CDT	169.18[P]
05/18/2012 22:00 CDT	169.29[P]
05/18/2012 23:00 CDT	169.30[P]
05/19/2012 00:00 CDT	169.25[P]
05/19/2012 01:00 CDT	169.36[P]
05/19/2012 02:00 CDT	169.30[P]
05/19/2012 03:00 CDT	169.24[P]
05/19/2012 04:00 CDT	169.17[P]
05/19/2012 05:00 CDT	169.36[P]
05/19/2012 06:00 CDT	168.74[P]
05/19/2012 07:00 CDT	168.77[P]
05/19/2012 08:00 CDT	169.19[P]
05/19/2012 09:00 CDT	169.30[P]
05/19/2012 10:00 CDT	169.20[P]
05/19/2012 11:00 CDT	169.01[P]
05/19/2012 12:00 CDT	169.26[P]
05/19/2012 13:00 CDT	169.29[P]
05/19/2012 14:00 CDT	169.18[P]

Date	Gage height (ft)
05/19/2012 15:00 CDT	169.27[P]
05/19/2012 16:00 CDT	169.19[P]
05/19/2012 17:00 CDT	169.27[P]
05/19/2012 18:00 CDT	169.19[P]
05/19/2012 19:00 CDT	168.66[P]
05/19/2012 20:00 CDT	169.21[P]
05/19/2012 21:00 CDT	168.74[P]
05/19/2012 22:00 CDT	168.73[P]
05/19/2012 23:00 CDT	168.74[P]
05/20/2012 00:00 CDT	168.74[P]
05/20/2012 01:00 CDT	168.71[P]
05/20/2012 02:00 CDT	168.73[P]
05/20/2012 03:00 CDT	168.73[P]
05/20/2012 04:00 CDT	168.73[P]
05/20/2012 05:00 CDT	168.71[P]
05/20/2012 06:00 CDT	168.73[P]
05/20/2012 07:00 CDT	168.70[P]
05/20/2012 08:00 CDT	169.16[P]
05/20/2012 09:00 CDT	169.14[P]
05/20/2012 10:00 CDT	169.27[P]
05/20/2012 11:00 CDT	169.18[P]
05/20/2012 12:00 CDT	169.19[P]
05/20/2012 13:00 CDT	169.21[P]
05/20/2012 14:00 CDT	169.15[P]
05/20/2012 15:00 CDT	169.16[P]
05/20/2012 16:00 CDT	168.93[P]
05/20/2012 17:00 CDT	169.08[P]
05/20/2012 18:00 CDT	169.26[P]
05/20/2012 19:00 CDT	169.14[P]
05/20/2012 20:00 CDT	168.62[P]
05/20/2012 21:00 CDT	169.21[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
05/20/2012 22:00 CDT	169.20[P]
05/20/2012 23:00 CDT	169.17[P]
05/21/2012 00:00 CDT	169.16[P]
05/21/2012 01:00 CDT	169.22[P]
05/21/2012 02:00 CDT	169.10[P]
05/21/2012 03:00 CDT	169.15[P]
05/21/2012 04:00 CDT	169.08[P]
05/21/2012 05:00 CDT	168.78[P]
05/21/2012 06:00 CDT	169.23[P]
05/21/2012 07:00 CDT	168.96[P]
05/21/2012 08:00 CDT	169.18[P]
05/21/2012 09:00 CDT	169.19[P]
05/21/2012 10:00 CDT	169.19[P]
05/21/2012 11:00 CDT	169.19[P]
05/21/2012 12:00 CDT	169.21[P]
05/21/2012 13:00 CDT	168.59[P]
05/21/2012 14:00 CDT	169.25[P]
05/21/2012 15:00 CDT	169.21[P]
05/21/2012 16:00 CDT	169.16[P]
05/21/2012 17:00 CDT	169.08[P]
05/21/2012 18:00 CDT	169.23[P]
05/21/2012 19:00 CDT	169.08[P]
05/21/2012 20:00 CDT	169.22[P]
05/21/2012 21:00 CDT	169.20[P]
05/21/2012 22:00 CDT	169.00[P]
05/21/2012 23:00 CDT	168.60[P]
05/22/2012 00:00 CDT	169.18[P]
05/22/2012 01:00 CDT	169.16[P]
05/22/2012 02:00 CDT	168.91[P]
05/22/2012 03:00 CDT	169.19[P]
05/22/2012 04:00 CDT	169.12[P]

Date	Gage height (ft)
05/22/2012 05:00 CDT	169.15[P]
05/22/2012 06:00 CDT	169.12[P]
05/22/2012 07:00 CDT	169.12[P]
05/22/2012 08:00 CDT	168.54[P]
05/22/2012 09:00 CDT	169.11[P]
05/22/2012 10:00 CDT	169.13[P]
05/22/2012 11:00 CDT	168.54[P]
05/22/2012 12:00 CDT	169.08[P]
05/22/2012 13:00 CDT	168.56[P]
05/22/2012 14:00 CDT	169.15[P]
05/22/2012 15:00 CDT	168.98[P]
05/22/2012 16:00 CDT	169.10[P]
05/22/2012 17:00 CDT	169.08[P]
05/22/2012 18:00 CDT	169.07[P]
05/22/2012 19:00 CDT	169.12[P]
05/22/2012 20:00 CDT	169.07[P]
05/22/2012 21:00 CDT	168.99[P]
05/22/2012 22:00 CDT	168.90[P]
05/22/2012 23:00 CDT	169.00[P]
05/23/2012 00:00 CDT	168.92[P]
05/23/2012 01:00 CDT	168.96[P]
05/23/2012 02:00 CDT	169.07[P]
05/23/2012 03:00 CDT	168.97[P]
05/23/2012 04:00 CDT	169.06[P]
05/23/2012 05:00 CDT	169.09[P]
05/23/2012 06:00 CDT	168.97[P]
05/23/2012 07:00 CDT	168.67[P]
05/23/2012 08:00 CDT	169.09[P]
05/23/2012 09:00 CDT	169.07[P]
05/23/2012 10:00 CDT	169.05[P]
05/23/2012 11:00 CDT	168.99[P]

Date	Gage height (ft)
05/23/2012 12:00 CDT	168.85[P]
05/23/2012 13:00 CDT	169.02[P]
05/23/2012 14:00 CDT	168.94[P]
05/23/2012 15:00 CDT	169.11[P]
05/23/2012 16:00 CDT	168.97[P]
05/23/2012 17:00 CDT	168.51[P]
05/23/2012 18:00 CDT	169.07[P]
05/23/2012 19:00 CDT	168.97[P]
05/23/2012 20:00 CDT	168.54[P]
05/23/2012 21:00 CDT	168.76[P]
05/23/2012 22:00 CDT	169.00[P]
05/23/2012 23:00 CDT	168.94[P]
05/24/2012 00:00 CDT	169.08[P]
05/24/2012 01:00 CDT	169.08[P]
05/24/2012 02:00 CDT	168.97[P]
05/24/2012 03:00 CDT	168.94[P]
05/24/2012 04:00 CDT	169.05[P]
05/24/2012 05:00 CDT	169.00[P]
05/24/2012 06:00 CDT	168.87[P]
05/24/2012 07:00 CDT	169.06[P]
05/24/2012 08:00 CDT	169.06[P]
05/24/2012 09:00 CDT	168.99[P]
05/24/2012 10:00 CDT	168.89[P]
05/24/2012 11:00 CDT	168.95[P]
05/24/2012 12:00 CDT	169.05[P]
05/24/2012 13:00 CDT	168.97[P]
05/24/2012 14:00 CDT	168.95[P]
05/24/2012 15:00 CDT	169.02[P]
05/24/2012 16:00 CDT	168.99[P]
05/24/2012 17:00 CDT	168.94[P]
05/24/2012 18:00 CDT	168.50[P]

Date	Gage height (ft)
05/24/2012 19:00 CDT	168.85[P]
05/24/2012 20:00 CDT	168.97[P]
05/24/2012 21:00 CDT	168.59[P]
05/24/2012 22:00 CDT	168.90[P]
05/24/2012 23:00 CDT	169.02[P]
05/25/2012 00:00 CDT	169.03[P]
05/25/2012 01:00 CDT	168.88[P]
05/25/2012 02:00 CDT	168.93[P]
05/25/2012 03:00 CDT	169.00[P]
05/25/2012 04:00 CDT	169.01[P]
05/25/2012 05:00 CDT	168.40[P]
05/25/2012 06:00 CDT	169.00[P]
05/25/2012 07:00 CDT	169.01[P]
05/25/2012 08:00 CDT	169.00[P]
05/25/2012 09:00 CDT	168.95[P]
05/25/2012 10:00 CDT	168.89[P]
05/25/2012 11:00 CDT	169.01[P]
05/25/2012 12:00 CDT	169.01[P]
05/25/2012 13:00 CDT	168.97[P]
05/25/2012 14:00 CDT	168.91[P]
05/25/2012 15:00 CDT	168.88[P]
05/25/2012 16:00 CDT	168.96[P]
05/25/2012 17:00 CDT	168.96[P]
05/25/2012 18:00 CDT	168.98[P]
05/25/2012 19:00 CDT	168.97[P]
05/25/2012 20:00 CDT	168.92[P]
05/25/2012 21:00 CDT	168.82[P]
05/25/2012 22:00 CDT	168.88[P]
05/25/2012 23:00 CDT	168.95[P]
05/26/2012 00:00 CDT	168.98[P]
05/26/2012 01:00 CDT	168.96[P]

Date	Gage height (ft)
05/26/2012 02:00 CDT	168.87[P]
05/26/2012 03:00 CDT	168.98[P]
05/26/2012 04:00 CDT	168.92[P]
05/26/2012 05:00 CDT	168.76[P]
05/26/2012 06:00 CDT	168.95[P]
05/26/2012 07:00 CDT	169.01[P]
05/26/2012 08:00 CDT	168.99[P]
05/26/2012 09:00 CDT	169.01[P]
05/26/2012 10:00 CDT	169.02[P]
05/26/2012 11:00 CDT	168.98[P]
05/26/2012 12:00 CDT	168.94[P]
05/26/2012 13:00 CDT	168.87[P]
05/26/2012 14:00 CDT	168.99[P]
05/26/2012 15:00 CDT	168.79[P]
05/26/2012 16:00 CDT	168.98[P]
05/26/2012 17:00 CDT	168.86[P]
05/26/2012 18:00 CDT	168.97[P]
05/26/2012 19:00 CDT	168.98[P]
05/26/2012 20:00 CDT	168.91[P]
05/26/2012 21:00 CDT	168.93[P]
05/26/2012 22:00 CDT	168.88[P]
05/26/2012 23:00 CDT	168.79[P]
05/27/2012 00:00 CDT	168.96[P]
05/27/2012 01:00 CDT	168.84[P]
05/27/2012 02:00 CDT	168.95[P]
05/27/2012 03:00 CDT	168.93[P]
05/27/2012 04:00 CDT	168.82[P]
05/27/2012 05:00 CDT	168.92[P]
05/27/2012 06:00 CDT	168.95[P]
05/27/2012 07:00 CDT	168.93[P]
05/27/2012 08:00 CDT	168.95[P]

Preview Only

Caddo Lake (USGS Gage 07346310)
Latitude 32°42'36", Longitude 93°54'52" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140306
Spillway crest elevation is 168.5 ft NGVD 29

Date	Gage height (ft)
05/27/2012 09:00 CDT	168.80[P]
05/27/2012 10:00 CDT	168.86[P]
05/27/2012 11:00 CDT	168.94[P]
05/27/2012 12:00 CDT	168.97[P]
05/27/2012 13:00 CDT	168.91[P]
05/27/2012 14:00 CDT	168.96[P]
05/27/2012 15:00 CDT	168.95[P]
05/27/2012 16:00 CDT	168.76[P]
05/27/2012 17:00 CDT	168.96[P]
05/27/2012 18:00 CDT	168.92[P]
05/27/2012 19:00 CDT	168.95[P]
05/27/2012 20:00 CDT	168.38[P]
05/27/2012 21:00 CDT	168.92[P]
05/27/2012 22:00 CDT	168.88[P]
05/27/2012 23:00 CDT	168.80[P]
05/28/2012 00:00 CDT	168.80[P]
05/28/2012 01:00 CDT	168.76[P]
05/28/2012 02:00 CDT	168.96[P]
05/28/2012 03:00 CDT	168.87[P]
05/28/2012 04:00 CDT	168.98[P]
05/28/2012 05:00 CDT	168.81[P]
05/28/2012 06:00 CDT	168.78[P]
05/28/2012 07:00 CDT	168.80[P]
05/28/2012 08:00 CDT	168.77[P]
05/28/2012 09:00 CDT	168.85[P]
05/28/2012 10:00 CDT	168.55[P]
05/28/2012 11:00 CDT	168.97[P]
05/28/2012 12:00 CDT	168.94[P]
05/28/2012 13:00 CDT	168.96[P]
05/28/2012 14:00 CDT	168.96[P]
05/28/2012 15:00 CDT	168.88[P]

Date	Gage height (ft)
05/28/2012 16:00 CDT	168.81[P]
05/28/2012 17:00 CDT	168.95[P]
05/28/2012 18:00 CDT	168.88[P]
05/28/2012 19:00 CDT	168.93[P]
05/28/2012 20:00 CDT	168.81[P]
05/28/2012 21:00 CDT	168.93[P]
05/28/2012 22:00 CDT	168.82[P]
05/28/2012 23:00 CDT	168.91[P]
05/29/2012 00:00 CDT	168.93[P]
05/29/2012 01:00 CDT	168.73[P]
05/29/2012 02:00 CDT	168.93[P]
05/29/2012 03:00 CDT	168.82[P]
05/29/2012 04:00 CDT	168.80[P]
05/29/2012 05:00 CDT	168.77[P]
05/29/2012 06:00 CDT	168.92[P]
05/29/2012 07:00 CDT	168.93[P]
05/29/2012 08:00 CDT	168.78[P]
05/29/2012 09:00 CDT	168.92[P]
05/29/2012 10:00 CDT	168.85[P]
05/29/2012 11:00 CDT	168.96[P]
05/29/2012 12:00 CDT	168.82[P]
05/29/2012 13:00 CDT	168.97[P]
05/29/2012 14:00 CDT	168.83[P]
05/29/2012 15:00 CDT	168.96[P]
05/29/2012 16:00 CDT	168.89[P]
05/29/2012 17:00 CDT	168.94[P]
05/29/2012 18:00 CDT	168.78[P]
05/29/2012 19:00 CDT	168.84[P]
05/29/2012 20:00 CDT	168.91[P]
05/29/2012 21:00 CDT	168.79[P]
05/29/2012 22:00 CDT	168.79[P]

Date	Gage height (ft)
05/29/2012 23:00 CDT	168.66[P]
05/30/2012 00:00 CDT	168.79[P]
05/30/2012 01:00 CDT	168.91[P]
05/30/2012 02:00 CDT	168.80[P]
05/30/2012 03:00 CDT	168.85[P]
05/30/2012 04:00 CDT	168.65[P]
05/30/2012 05:00 CDT	168.96[P]
05/30/2012 06:00 CDT	168.82[P]
05/30/2012 07:00 CDT	169.16[P]
05/30/2012 08:00 CDT	168.70[P]
05/30/2012 09:00 CDT	168.95[P]
05/30/2012 10:00 CDT	168.88[P]
05/30/2012 11:00 CDT	168.64[P]
05/30/2012 12:00 CDT	168.77[P]
05/30/2012 13:00 CDT	168.73[P]
05/30/2012 14:00 CDT	168.86[P]
05/30/2012 15:00 CDT	168.75[P]
05/30/2012 16:00 CDT	168.66[P]
05/30/2012 17:00 CDT	168.68[P]
05/30/2012 18:00 CDT	168.92[P]
05/30/2012 19:00 CDT	168.91[P]
05/30/2012 20:00 CDT	168.79[P]
05/30/2012 21:00 CDT	168.82[P]
05/30/2012 22:00 CDT	168.86[P]
05/30/2012 23:00 CDT	168.85[P]
05/31/2012 00:00 CDT	168.84[P]
05/31/2012 01:00 CDT	168.87[P]
05/31/2012 02:00 CDT	168.88[P]
05/31/2012 03:00 CDT	168.68[P]
05/31/2012 04:00 CDT	168.93[P]
05/31/2012 05:00 CDT	168.96[P]

Date	Gage height (ft)
05/31/2012 06:00	168.65[P]
05/31/2012 07:00 CDT	168.94[P]
05/31/2012 08:00 CDT	168.64[P]

Preview Only

APPENDIX D

Preview Only

Water-Data Report 2011

07348000 Twelvemile Bayou near Dixie, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°38′45″, long 93°52′40″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.14, T.19 N., R.15 W., Caddo Parish, LA, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi downstream from Cottonwood Bayou, 4.2 mi southwest of Dixie, 5.5 mi downstream from Caddo Lake, and 17.3 mi upstream from mouth.

DRAINAGE AREA.--3137.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1942 to September 1995, gage height and discharge. October 1999 to current year, gage height only.

GAGE.--Water-stage recorder. Datum of gage is 136.12 ft above NGVD of 1929. Prior to Sept. 5, 1947, nonrecording gage, and Sept. 5, 1947 to June 26, 1978, water-stage recorder at present site. Datum of gage was lost during 1979 bridge construction. Gage was re-established in 1981 at present datum. Prior to June 26, 1978, at datum 3.88 ft higher. Oct. 1, 1950 to Sept. 30, 1962, at datum 7.76 ft higher. Aug. 13, 1942 to Sep. 30, 1950, at datum 9.76 ft higher. Nonrecording gage for Twelvemile Bayou near Mooringsport station 07347950) used as supplementary gage June 27, 1978, to May 7, 1981. Datum of supplementary gage, 140.00 ft above sea level (levels by Corps of Engineers). Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for this station from 1979-1995. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used as auxiliary gage.

COOPERATION.--Caddo-Bossier Office of Homeland Security and Emergency Preparedness.

REMARKS.--Gage operated as part of a flood alert system for Caddo and Bossier Parishes. Satellite telemetry at station. Regulation in the form of storage is affected by Caddo Lake Dam, 5.5 miles upstream. Fixed Crest dam. Flow discharges into Twelvemile Bayou from Cottonwood Bayou through flood gates when stage outside the levee exceeds stage inside.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.41 ft, Apr. 5, 1945, and May 5, 1958, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.24 ft, May 7; minimum gage height, 9.46 ft, Nov. 3.

Preview Only

07348000 Twelvemile Bayou near Dixie, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.88	9.98	9.78	9.98	e11.08	10.02	10.15	16.75	10.75	9.94	9.86	9.87
2	9.83	10.07	9.79	e10.03	e10.72	10.31	10.06	16.72	10.62	9.94	9.89	9.90
3	9.81	9.55	9.86	e10.17	10.40	10.28	10.00	16.49	10.56	9.91	9.85	9.86
4	9.89	9.66	9.88	10.17	e10.52	10.09	10.13	16.62	10.09	9.94	9.84	9.82
5	9.91	9.97	9.86	10.11	e10.59	10.20	9.97	17.84	9.94	9.91	9.85	9.68
6	9.81	10.02	e9.93	10.16	10.59	10.0	9.93	19.34	10.14	9.96	9.83	9.78
7	9.72	9.81	e9.97	10.04	10.70	10.15	10.13	20.10	10.13	10.09	9.80	9.87
8	9.77	9.82	9.94	9.91	10.35	10.32	10.13	19.98	10.10	10.61	9.80	9.97
9	10.05	10.07	e10.03	e10.06	10.63	10.13	9.99	19.12	10.09	10.59	9.77	10.00
10	9.94	10.06	10.06	e10.18	e10.82	10.10	9.98	18.31	9.92	10.32	9.84	10.00
11	9.90	9.87	e10.01	e10.03	e10.69	10.26	10.11	17.70	9.94	10.10	9.88	9.93
12	9.95	9.81	e9.96	e9.81	e10.60	10.22	9.97	17.24	10.03	10.13	9.99	9.95
13	9.90	9.85	e10.02	e9.99	10.59	10.18	9.78	16.57	9.93	10.02	9.98	9.99
14	9.85	9.97	e10.04	10.23	10.34	e10.22	9.93	15.80	9.97	10.0	9.95	9.97
15	9.81	10.02	10.17	10.11	10.30	e10.22	10.21	15.17	9.97	9.88	10.09	9.91
16	9.75	9.80	10.10	10.58	10.31	10.23	10.13	14.68	9.97	9.96	10.10	10.00
17	9.78	9.92	10.06	12.33	10.25	10.31	9.76	14.38	9.99	9.92	10.0	10.03
18	9.91	9.93	9.93	12.16	10.32	10.25	9.88	13.83	10.05	9.99	10.03	10.07
19	10.01	9.85	e9.93	11.54	10.34	10.26	10.08	13.05	10.10	9.97	10.10	10.02
20	9.83	9.87	10.07	11.37	10.23	10.27	10.0	12.05	10.17	9.88	10.07	9.91
21	9.81	9.98	10.08	11.13	10.22	10.22	10.20	11.74	10.08	9.86	10.12	9.80
22	9.93	10.00	10.08	11.13	10.08	10.25	10.65	11.52	9.99	9.83	10.14	9.82
23	9.99	9.95	9.99	11.15	10.07	10.17	11.04	11.72	9.82	9.83	10.05	9.86
24	9.96	9.97	9.82	11.10	10.23	10.02	11.23	12.07	9.81	10.00	9.88	9.90
25	10.01	9.92	9.83	11.02	10.23	9.92	11.22	13.13	9.94	10.11	9.90	9.90
26	9.98	9.83	e9.97	10.92	10.07	9.96	11.07	14.02	9.96	10.12	9.94	9.93
27	9.94	9.80	e10.13	10.88	10.35	10.09	11.74	13.81	10.05	10.03	9.95	10.02
28	9.83	9.87	10.11	10.85	10.38	10.08	12.76	13.62	10.08	9.80	10.00	10.01
29	9.84	10.03	10.14	10.72	---	10.02	14.49	13.31	10.01	9.84	9.96	9.92
30	9.90	9.91	10.13	10.51	---	9.89	16.12	12.69	9.89	9.86	9.94	9.82
31	9.92	---	10.02	10.46	---	10.0	---	11.52	---	9.82	9.88	---
Max	10.05	10.07	10.17	12.33	11.08	10.32	16.12	20.10	10.75	10.61	10.14	10.07
Min	9.72	9.55	9.78	9.81	10.07	9.89	9.76	11.52	9.81	9.80	9.77	9.68

Preview Only

Water-Data Report 2010

07348000 Twelvemile Bayou near Dixie, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°38′45″, long 93°52′40″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.14, T.19 N., R.15 W., Caddo Parish, LA, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi downstream from Cottonwood Bayou, 4.2 mi southwest of Dixie, 5.5 mi downstream from Caddo Lake, and 17.3 mi upstream from mouth.

DRAINAGE AREA.--3137.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1942 to September 1995, gage height and discharge. October 1999 to current year, gage height only.

GAGE.--Water-stage recorder. Datum of gage is 136.12 ft above NGVD of 1929. Prior to Sept. 5, 1947, nonrecording gage, and Sept. 5, 1947 to June 26, 1978, water-stage recorder at present site. Datum of gage was lost during 1979 bridge construction. Gage was re-established in 1981 at present datum. Prior to June 26, 1978, at datum 3.88 ft higher. Oct. 1, 1950 to Sept. 30, 1962, at datum 7.76 ft higher. Aug. 13, 1942 to Sep. 30, 1950, at datum 9.76 ft higher. Nonrecording gage for Twelvemile Bayou near Mooringsport station 07347950) used as supplementary gage June 27, 1978, to May 7, 1981. Datum of supplementary gage, 140.00 ft above sea level (levels by Corps of Engineers). Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for this station from 1979-1995. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used as auxiliary gage.

COOPERATION.--Caddo-Bossier Office of Homeland Security and Emergency Preparedness.

REMARKS.--Gage operated as part of a flood alert system for Caddo and Bossier Parishes. Satellite telemetry at station. Regulation in the form of storage is affected by Caddo Lake Dam, 5.5 miles upstream. Fixed Crest dam. Flow discharges into Twelvemile Bayou from Cottonwood Bayou through flood gates when stage outside the levee exceeds stage inside.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.41 ft, Apr. 5, 1945, and May 5, 1958, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 35.69 ft, Oct. 20; minimum gage height, 9.62 ft, Sept. 9.

Preview Only

07348000 Twelvemile Bayou near Dixie, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16.60	35.34	18.36	27.42	22.62	22.29	19.66	11.56	11.75	10.34	10.71	10.01
2	15.93	35.04	19.09	26.09	23.42	22.85	18.96	11.31	11.31	10.26	10.70	9.89
3	15.48	34.50	19.28	e24.88	23.47	22.45	18.35	11.10	10.86	10.33	10.69	9.72
4	16.95	33.85	19.10	24.09	23.04	22.24	17.18	10.91	10.52	10.25	10.62	9.68
5	20.90	33.24	18.98	e23.10	22.89	22.03	16.33	11.05	10.18	10.13	10.56	9.82
6	21.39	32.52	18.83	e22.10	23.03	21.56	15.98	11.31	10.15	10.16	10.41	9.95
7	21.66	31.64	e18.92	21.70	23.37	20.99	15.84	11.02	10.20	10.38	10.37	10.03
8	22.58	30.67	e18.95	e21.11	23.50	20.47	15.99	10.42	10.25	10.29	10.20	9.91
9	23.37	29.58	e19.04	e20.29	25.01	20.73	15.49	10.35	10.26	10.24	10.00	9.72
10	23.71	28.29	e18.47	e19.75	25.12	20.59	15.37	10.33	10.29	10.61	9.89	9.88
11	24.26	26.68	18.17	e19.42	25.43	21.60	15.04	10.44	10.15	10.71	9.93	10.06
12	27.50	25.40	18.39	e18.95	26.35	21.68	14.57	10.33	10.29	10.78	10.01	9.92
13	30.45	24.40	18.74	e18.48	26.94	21.35	14.27	10.33	10.76	10.90	10.08	9.81
14	32.13	23.45	18.61	18.22	27.02	21.22	13.81	10.28	10.86	10.88	10.07	9.74
15	33.20	22.42	18.48	18.10	26.59	21.30	13.29	10.06	10.88	11.49	9.94	9.86
16	34.11	21.85	18.16	18.31	25.70	21.16	12.87	10.24	10.81	11.76	9.86	10.18
17	34.87	21.00	18.02	19.21	e25.18	20.56	12.59	9.93	10.99	11.79	9.91	10.06
18	35.27	20.18	17.99	19.24	e24.53	19.67	12.28	10.23	11.34	11.64	9.97	9.87
19	35.53	19.57	17.84	19.11	23.97	18.87	11.99	10.11	11.48	11.45	10.06	9.95
20	35.52	19.26	e17.46	18.99	23.58	18.32	11.70	10.58	11.36	11.29	10.00	10.17
21	35.20	19.11	17.16	20.90	23.25	18.29	11.56	10.82	11.24	11.08	9.83	10.18
22	34.90	18.86	16.92	20.23	22.96	17.13	11.34	11.66	11.03	11.00	9.86	10.08
23	34.93	18.68	16.92	19.78	22.23	16.39	11.14	11.88	10.83	10.96	9.82	10.0
24	34.58	18.72	21.13	20.47	21.73	16.10	11.26	12.02	10.89	10.91	9.80	9.92
25	34.15	18.42	24.85	20.51	e20.99	17.34	11.32	12.27	10.48	10.79	9.89	9.96
26	33.87	18.10	e25.86	20.27	20.93	17.55	11.65	12.60	10.35	10.73	10.02	9.98
27	33.99	17.79	27.86	20.14	22.18	17.57	11.92	12.83	10.28	10.69	9.93	10.08
28	33.98	17.55	29.11	19.93	22.40	18.66	11.75	12.72	10.29	10.70	9.89	9.94
29	33.96	17.33	29.58	20.87	---	19.45	12.13	12.40	10.26	10.63	9.95	9.89
30	35.04	18.13	29.36	22.47	---	20.01	12.01	12.33	10.37	10.75	9.82	9.97
31	35.42	---	28.56	22.54	---	20.11	---	12.22	---	10.75	9.93	---
Max	35.53	35.34	29.58	27.42	27.02	22.85	19.66	12.83	11.75	11.79	10.71	10.18
Min	15.48	17.33	16.92	18.10	20.93	16.10	11.14	9.93	10.15	10.13	9.80	9.68

Preview Only

07348000 Twelvemile Bayou near Dixie, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°38′45″, long 93°52′40″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.14, T.19 N., R.15 W., Caddo Parish, LA, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi downstream from Cottonwood Bayou, 4.2 mi southwest of Dixie, 5.5 mi downstream from Caddo Lake, and 17.3 mi upstream from mouth.

DRAINAGE AREA.--3137.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1942 to September 1995, gage height and discharge. October 1999 to current year, gage height only.

GAGE.--Water-stage recorder. Datum of gage is 136.12 ft above NGVD of 1929. Prior to Sept. 5, 1947, nonrecording gage, and Sept. 5, 1947 to June 26, 1978, water-stage recorder at present site. Datum of gage was lost during 1979 bridge construction. Gage was re-established in 1981 at present datum. Prior to June 26, 1978, at datum 3.88 ft higher. Oct. 1, 1950 to Sept. 30, 1962, at datum 7.76 ft higher. Aug. 13, 1942 to Sep. 30, 1950, at datum 9.76 ft higher. Nonrecording gage for Twelvemile Bayou near Mooringsport station 07347950) used as supplementary gage June 27, 1978, to May 7, 1981. Datum of supplementary gage, 140.00 ft above sea level (levels by Corps of Engineers). Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for this station from 1979-1995. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used as auxiliary gage.

REMARKS.--Satellite telemetry at station. Regulation in the form of storage is affected by Caddo Lake Dam, 5.5 miles upstream. Fixed Crest dam. Flow discharges into Twelvemile Bayou from Cottonwood Bayou through flood gates when stage outside the levee exceeds stage inside.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.41 ft, Apr. 5, 1945, and May 5, 1958, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 30.53 ft, May 12; minimum gage height, 9.61 ft, Mar. 11.

Preview Only

07348000 Twelvemile Bayou near Dixie, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.33	10.02	10.12	10.52	10.61	9.86	16.54	13.73	22.82	11.61	e25.01	10.54
2	10.77	10.09	10.03	10.52	10.54	9.95	e16.90	13.53	22.59	11.68	e25.65	10.69
3	10.30	10.08	10.20	10.70	10.44	10.25	16.11	16.18	e22.32	11.90	e25.69	10.79
4	10.03	10.07	10.26	10.67	10.52	10.26	15.13	20.75	e22.20	12.12	e25.07	10.68
5	10.04	10.10	10.20	10.57	10.77	e10.19	15.20	23.28	e22.12	12.28	24.06	10.51
6	9.92	10.06	10.25	10.91	10.72	e10.17	14.93	e25.89	21.93	12.52	22.95	10.40
7	10.22	9.97	10.21	11.13	10.48	10.18	14.00	e28.11	21.72	12.50	21.65	10.29
8	10.25	9.97	10.29	11.02	10.39	10.15	13.27	28.88	21.53	12.55	20.36	10.20
9	10.75	9.94	10.66	10.94	10.29	e10.0	12.54	29.22	21.28	12.85	19.33	10.37
10	11.26	9.91	10.72	11.05	10.42	e9.96	12.42	e29.61	21.01	12.99	18.52	10.40
11	11.36	10.16	10.43	10.83	10.93	9.85	11.53	e30.02	21.02	13.02	17.80	10.30
12	11.00	10.25	10.58	10.79	10.59	10.14	11.42	30.38	20.68	13.30	17.20	10.20
13	10.58	10.21	10.82	11.06	10.46	10.90	11.95	30.25	19.99	13.43	16.70	10.32
14	10.46	10.23	10.56	11.06	10.38	12.67	11.81	29.77	19.22	13.49	16.41	10.80
15	10.42	10.54	10.27	10.99	10.48	e13.29	11.58	29.12	18.59	13.23	16.15	11.71
16	10.64	10.37	10.09	11.05	10.62	14.26	11.57	28.29	18.27	e12.62	15.80	12.61
17	10.52	10.15	10.20	11.22	10.76	14.87	12.49	e27.44	18.11	e10.82	15.30	13.03
18	10.54	10.11	10.32	11.11	10.84	e15.54	13.34	e26.74	18.12	10.59	14.95	14.16
19	10.76	10.24	10.42	10.88	10.76	16.17	13.78	e26.30	18.05	10.55	14.91	15.43
20	10.93	10.08	10.51	10.67	11.05	16.46	13.84	e25.64	17.81	10.49	14.73	16.80
21	10.73	10.07	10.36	10.50	11.08	16.78	13.92	e25.25	16.73	e10.49	13.88	18.92
22	10.58	10.18	10.20	10.63	10.85	16.92	14.22	e24.93	15.38	e10.54	13.01	20.86
23	10.69	10.32	10.24	10.60	10.62	16.86	13.97	e24.74	14.46	10.46	12.11	22.12
24	10.41	10.40	10.51	10.23	10.76	16.67	13.25	e24.55	e13.71	10.33	11.65	22.14
25	10.11	10.34	10.77	10.11	10.84	17.43	12.98	e24.37	e13.23	e10.09	11.46	21.87
26	10.14	10.33	10.72	10.13	e10.43	18.77	12.93	e24.21	e12.86	e9.93	11.45	21.61
27	10.11	10.39	10.74	10.38	10.21	19.08	13.05	e24.03	e12.51	e10.19	11.44	21.12
28	9.96	10.58	10.47	10.44	10.20	e20.20	13.49	e23.72	e12.17	e12.25	11.33	20.09
29	9.94	10.70	10.26	10.27	---	18.71	13.54	e23.24	e11.88	18.50	11.17	18.80
30	9.92	10.56	10.28	10.53	---	17.47	13.67	22.94	e11.68	21.62	10.86	17.61
31	9.87	---	10.45	10.56	---	17.18	---	22.83	---	23.84	10.41	---
Max	11.36	10.70	10.82	11.22	11.08	20.20	16.90	30.38	22.82	23.84	25.69	22.14
Min	9.87	9.91	10.03	10.11	10.20	9.85	11.42	13.53	11.68	9.93	10.41	10.20

Preview Only

Water-Data Report 2008

07348000 Twelvemile Bayou near Dixie, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°38′45″, long 93°52′40″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.14, T.19 N., R.15 W., Caddo Parish, LA, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi downstream from Cottonwood Bayou, 4.2 mi southwest of Dixie, 5.5 mi downstream from Caddo Lake, and 17.3 mi upstream from mouth.

DRAINAGE AREA.--3137.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1942 to September 1995, gage height and discharge. October 1999 to current year, gage height only.

GAGE.--Water-stage recorder. Datum of gage is 135.32 ft above NAVD of 1988. Prior to October 1, 2008 datum of gage is 136.12 ft above NGVD of 1929. Prior to Sept. 5, 1947, nonrecording gage and Sept.5, 1947 to June 26, 1978, water-stage recorder at present site. Oct. 1, 1950, to June 26, 1978, at datum 3.88 ft higher andprior to Oct. 1, 1950, at datum 5.88 ft higher. Nonrecording gage for Twelvemile Bayou near Mooringsport (station 07347950)used as supplementary gage June 27, 1978, to May 7, 1981. Datum of supplementary gage, 140.00 ft above sea level (levels byCorps of Engineers). Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for thisstation from 1979-1995. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used asauxiliary gage.

REMARKS.--Satellite telemetry and rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 41.53 ft, Apr. 5, 1945, and May 5, 1958, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 23.42 ft, Mar. 24; minimum gage height, 9.52 ft, Nov. 5.

Preview Only

07348000 Twelvemile Bayou near Dixie, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.80	9.68	10.61	10.94	10.81	17.22	20.56	19.61	15.23	10.59	9.95	10.34
2	10.79	9.86	10.81	10.76	10.52	17.05	20.48	e20.02	14.60	10.50	9.96	10.45
3	10.56	10.06	10.51	10.51	10.48	17.66	20.98	e19.68	13.90	10.39	10.06	10.42
4	10.45	10.18	10.26	10.51	10.39	19.25	21.82	e19.22	13.08	10.49	10.01	10.57
5	10.55	9.72	10.31	10.78	10.54	18.34	22.34	e18.84	12.50	10.57	10.08	10.90
6	10.63	9.69	9.97	10.78	10.71	18.31	22.73	e18.51	12.00	10.62	10.00	11.79
7	10.52	10.12	10.12	10.55	10.33	19.78	23.01	18.17	11.52	10.60	9.92	11.97
8	10.14	10.06	10.18	10.48	10.48	21.04	23.12	17.97	10.93	10.49	9.97	11.62
9	10.01	9.83	10.20	10.39	10.51	21.45	22.84	17.39	10.58	10.27	10.05	11.63
10	10.19	10.01	10.11	10.48	10.38	21.47	22.43	16.80	11.02	10.12	9.93	11.43
11	10.27	10.31	10.10	10.40	10.39	21.24	22.63	16.46	10.95	10.14	9.92	11.41
12	10.26	10.01	10.01	10.46	10.78	20.94	22.98	15.38	10.96	10.16	10.05	11.34
13	10.20	9.80	9.97	10.48	11.10	20.64	23.13	14.34	10.73	10.05	10.04	11.43
14	10.04	10.08	10.06	10.30	11.01	20.42	22.72	e17.63	10.48	9.96	10.09	11.09
15	10.02	10.09	10.50	10.10	11.22	20.41	22.39	e22.00	10.35	9.95	10.31	10.47
16	10.20	10.07	10.10	10.19	12.02	20.09	22.23	e22.88	10.33	10.13	10.64	10.65
17	10.25	9.98	10.11	10.41	16.88	20.03	21.98	22.72	10.50	10.29	10.07	11.09
18	10.15	9.90	10.76	10.17	17.39	19.91	22.02	22.90	11.29	10.28	10.03	11.34
19	9.93	9.80	11.06	9.91	17.49	20.35	21.69	22.56	12.20	10.20	10.10	11.80
20	10.16	9.72	11.58	10.39	18.32	20.25	21.34	21.90	12.64	10.09	10.37	11.85
21	10.76	e9.93	11.40	10.42	19.88	21.11	20.91	21.20	12.59	9.99	10.31	11.15
22	10.83	e10.42	11.79	10.26	20.42	22.43	20.78	20.49	12.37	9.92	9.99	10.22
23	10.60	e10.79	11.48	10.02	19.43	23.08	20.90	19.80	12.18	9.81	10.40	10.24
24	10.17	e10.71	11.25	9.94	18.31	23.38	21.01	19.43	12.19	10.03	10.13	11.08
25	9.95	e10.27	11.36	9.99	17.57	23.03	20.87	18.83	11.86	10.17	10.06	11.75
26	10.03	e9.86	11.34	10.16	17.69	22.03	20.51	18.20	11.10	10.05	10.11	11.58
27	10.10	9.77	11.14	10.25	17.15	21.60	20.10	17.73	11.05	9.94	10.17	10.88
28	10.04	10.50	11.08	10.53	17.09	21.53	19.65	17.48	10.80	10.14	10.46	10.14
29	9.94	10.87	10.85	10.85	17.16	21.44	19.41	16.84	10.83	10.04	10.64	9.96
30	9.83	10.61	10.69	10.46	---	21.05	19.35	16.45	10.64	9.86	10.31	9.93
31	9.76	---	10.89	10.86	---	20.71	---	15.92	---	9.93	10.15	---
Max	10.83	10.87	11.79	10.94	20.42	23.38	23.13	22.90	15.23	10.62	10.64	11.97
Min	9.76	9.68	9.97	9.91	10.33	17.05	19.35	14.34	10.33	9.81	9.92	9.93

Preview Only

07348000 Twelvemile Bayou near Dixie, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°38′45″, long 93°52′40″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.14, T.19 N., R.15 W., Caddo Parish, LA, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi downstream from Cottonwood Bayou, 4.2 mi southwest of Dixie, 5.5 mi downstream from Caddo Lake, and 17.3 mi upstream from mouth.

DRAINAGE AREA.--3137.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1942 to September 1995, gage height and discharge. October 1999 to current year, gage height only.

GAGE.--Water-stage recorder. Datum of gage is 136.12 ft above NGVD of 1929. Prior to Sept. 5, 1947, nonrecording gage and Sept. 5, 1947 to June 26, 1978, water-stage recorder at present site. Oct. 1, 1950, to June 26, 1978, at datum 3.88 ft higher and prior to Oct. 1, 1950, at datum 5.88 ft higher. Nonrecording gage for Twelvemile Bayou near Mooringsport (station 07347950) used as supplementary gage June 27, 1978, to May 7, 1981. Datum of supplementary gage, 140.00 ft above sea level (levels by Corps of Engineers). Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for this station from 1979-1995. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used as auxiliary gage.

REMARKS.--Satellite telemetry and rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 41.53 ft, Apr. 5, 1945, and May 5, 1958, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 30.87 ft, July 10; minimum gage height, 9.59 ft, Oct. 6.

Preview Only

07348000 Twelvemile Bayou near Dixie, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.72	10.08	9.76	10.60	18.42	11.53	12.82	15.16	11.39	20.46	21.00	16.41
2	9.75	10.09	10.15	10.83	18.17	11.44	13.40	16.24	12.68	20.93	20.88	16.39
3	9.76	10.03	10.15	12.22	17.79	11.37	13.36	16.52	14.74	21.31	20.75	16.25
4	9.76	9.77	10.03	13.56	17.45	11.11	12.97	15.97	16.48	21.22	20.79	15.99
5	9.71	10.04	9.83	14.52	17.04	10.62	12.71	15.26	17.55	21.64	21.11	15.74
6	9.64	10.14	10.34	15.35	16.76	10.56	12.61	14.64	17.33	24.79	21.51	15.59
7	9.70	9.76	10.86	16.30	16.19	10.71	12.48	14.48	16.68	28.93	21.32	15.56
8	9.70	9.87	11.10	16.69	15.56	10.72	12.61	14.79	16.29	30.18	20.47	15.36
9	9.74	10.25	10.75	16.47	14.95	10.41	12.64	15.12	15.74	30.64	19.79	14.82
10	9.87	10.32	10.60	15.95	14.40	10.26	12.94	14.85	15.18	30.70	19.50	14.53
11	9.89	10.43	10.69	15.52	13.84	10.39	13.39	14.42	14.57	30.41	19.43	14.42
12	9.86	10.51	11.01	15.23	13.46	10.38	12.78	14.39	14.34	30.02	19.22	13.75
13	9.80	10.58	10.87	14.75	14.30	10.08	12.30	15.43	14.62	29.43	18.97	13.48
14	9.76	10.42	11.22	18.47	13.23	10.51	12.49	17.00	15.01	28.85	18.79	12.83
15	9.88	10.29	10.86	23.19	12.47	10.63	12.09	17.60	15.38	28.28	18.67	12.26
16	10.03	10.43	10.96	26.15	12.41	10.58	11.82	17.43	15.95	27.13	18.61	11.82
17	9.86	10.40	10.91	28.04	12.48	10.74	11.53	16.90	15.89	26.41	18.48	11.75
18	9.81	10.12	10.70	29.43	12.20	10.66	11.40	16.49	15.49	25.79	18.22	11.80
19	9.74	10.09	10.50	30.10	12.10	10.67	11.47	15.40	15.37	25.16	17.99	11.42
20	9.75	9.85	10.43	30.27	12.13	10.57	11.47	14.79	15.10	24.75	17.84	11.27
21	9.72	10.24	10.03	30.09	12.14	10.49	11.17	14.46	15.00	24.49	17.65	11.44
22	9.77	10.26	10.29	29.44	11.88	10.34	10.58	14.39	14.54	24.20	17.41	11.11
23	10.11	10.25	10.32	28.38	11.43	10.22	10.74	13.89	15.48	23.98	17.17	10.98
24	9.99	10.26	10.11	26.60	11.90	10.21	10.97	13.20	17.61	23.60	16.82	11.21
25	9.97	10.20	9.83	24.70	12.35	10.16	10.95	12.66	18.46	23.15	16.65	11.03
26	10.19	10.02	9.90	23.24	11.47	10.05	11.07	12.21	18.87	22.77	16.46	10.68
27	10.02	9.85	10.33	22.12	11.22	10.35	10.99	12.14	19.29	22.40	16.33	10.58
28	9.78	9.99	10.52	21.21	11.24	12.01	10.94	11.83	19.53	22.04	16.41	10.42
29	9.95	10.26	10.93	20.27	---	12.12	11.92	11.79	19.83	21.66	16.46	10.60
30	10.08	10.06	10.95	19.67	---	11.78	13.85	11.72	20.19	21.23	16.45	10.71
31	10.03	---	10.83	19.04	---	11.83	---	11.36	---	21.11	16.40	---
Max	10.19	10.58	11.22	30.27	18.42	12.12	13.85	17.60	20.19	30.70	21.51	16.41
Min	9.64	9.76	9.76	10.60	11.22	10.05	10.58	11.36	11.39	20.46	16.33	10.42

Preview Only

07348000 Twelvemile Bayou near Dixie, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°38′45″, long 93°52′40″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.14, T.19 N., R.15 W., Caddo Parish, LA, Hydrologic Unit 11140304, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mi downstream from Cottonwood Bayou, 4.2 mi southwest of Dixie, 5.5 mi downstream from Caddo Lake, and 17.3 mi upstream from mouth.

DRAINAGE AREA.--3137.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1942 to September 1995, gage height and discharge. October 1999 to current year, gage height only.

GAGE.--Water-stage recorder. Datum of gage is 136.12 ft above NGVD of 1929. Prior to Sept. 5, 1947, nonrecording gage and Sept. 5, 1947 to June 26, 1978, water-stage recorder at present site. Oct. 1, 1950, to June 26, 1978, at datum 3.88 ft higher and prior to Oct. 1, 1950, at datum 5.88 ft higher. Nonrecording gage for Twelvemile Bayou near Mooringsport (station 07347950) used as supplementary gage June 27, 1978, to May 7, 1981. Datum of supplementary gage, 140.00 ft above sea level (levels by Corps of Engineers). Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for this station from 1979-1995. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used as auxiliary gage.

REMARKS.--Satellite telemetry and rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 41.53 ft, Apr. 5, 1945, and May 5, 1958, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.70 ft, Mar 24; minimum gage height, 9.49 ft, Jun 8.

Preview Only

07348000 Twelvemile Bayou near Dixie, LA—Continued

DCP
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.13	10.0	9.96	10.10	10.03	10.58	14.76	10.17	9.81	9.94	9.92	9.76
2	10.02	9.90	10.07	9.99	10.14	10.53	14.10	10.19	9.80	9.97	9.88	9.84
3	9.88	10.00	10.07	9.99	9.93	10.33	13.26	10.00	9.84	9.98	10.01	9.87
4	9.94	10.06	9.93	10.0	10.01	10.40	12.77	10.26	9.81	10.07	10.03	9.83
5	10.08	10.09	9.86	9.92	10.11	10.32	12.56	10.50	9.85	10.05	9.91	9.90
6	10.00	10.0	9.84	9.91	9.90	10.28	12.70	10.93	10.06	9.86	10.07	9.94
7	9.83	9.95	9.77	9.93	9.78	10.30	12.83	11.51	10.00	9.74	10.04	9.95
8	9.87	9.96	9.75	9.90	9.74	10.29	12.34	11.64	9.65	9.75	9.85	10.02
9	10.05	9.98	9.83	9.88	9.87	10.41	11.22	11.60	10.05	9.72	9.81	10.12
10	10.16	9.96	9.92	9.89	10.03	10.07	10.74	11.48	10.06	9.82	9.87	10.11
11	10.16	9.90	9.96	9.98	9.75	9.99	10.77	11.52	9.84	9.98	9.97	10.03
12	10.02	9.95	10.02	10.05	9.99	10.21	10.47	11.25	9.88	10.02	10.12	9.90
13	9.86	9.98	10.09	9.89	10.14	10.31	10.05	11.69	9.87	10.07	10.06	9.74
14	9.85	10.03	10.10	10.0	10.01	9.92	10.33	12.25	9.93	10.12	9.77	9.71
15	9.85	9.96	9.76	10.04	10.09	9.94	10.48	12.89	10.07	10.17	9.77	9.71
16	9.96	9.90	9.73	10.05	10.08	10.04	10.14	12.95	10.13	10.04	9.83	9.72
17	10.15	9.92	9.75	9.98	10.03	10.07	9.98	12.69	10.12	9.87	9.82	9.72
18	10.17	10.03	9.78	10.04	10.09	10.33	10.11	12.25	10.12	9.78	9.85	9.86
19	10.05	10.17	9.85	10.09	10.05	12.27	10.13	11.70	10.12	9.82	9.91	9.89
20	9.90	10.11	9.97	10.03	9.86	16.97	10.11	10.96	10.18	10.03	9.93	9.89
21	9.82	9.92	10.03	9.89	9.90	20.26	10.11	10.37	9.98	10.10	9.93	9.89
22	9.93	9.85	10.06	10.07	9.96	20.29	9.88	10.20	9.95	9.95	9.88	9.88
23	9.93	9.93	10.09	10.36	10.05	21.21	9.93	10.03	9.89	9.81	9.73	9.79
24	9.96	9.94	9.98	9.90	10.12	21.63	9.96	10.10	9.90	10.01	9.78	9.81
25	10.0	9.93	9.97	10.11	10.32	21.44	10.03	9.96	9.88	10.14	9.83	9.91
26	10.03	9.92	10.05	10.14	10.45	20.48	10.03	9.83	9.82	10.02	9.88	9.97
27	10.02	9.99	10.07	9.92	10.47	19.40	9.72	9.87	9.80	10.08	9.89	9.99
28	10.05	9.88	9.99	10.43	10.57	18.20	10.05	9.81	9.83	9.96	9.83	9.89
29	10.06	9.83	10.03	10.31	---	17.13	10.34	9.86	9.98	10.02	9.73	9.86
30	10.03	9.94	10.02	9.92	---	16.29	10.04	10.04	10.07	10.02	9.63	9.76
31	10.07	---	10.03	10.22	---	15.45	---	10.01	---	9.96	9.69	---
Max	10.17	10.17	10.10	10.43	10.57	21.63	14.76	12.95	10.18	10.17	10.12	10.12
Min	9.82	9.83	9.73	9.88	9.74	9.92	9.72	9.81	9.65	9.72	9.63	9.71

Preview Only

October 2004- September 2005

Twelvemile Bayou near Dixie, LA (USGS 07348000)
Latitude 32°38'45", Longitude 93°52'40" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Datum of gage: 136.12 feet above NGVD29.

Date	Gage height (ft)
10/1/2004	10.10[A]
10/2/2004	10.07[A]
10/3/2004	9.93[A]
10/4/2004	9.93[A]
10/5/2004	9.90[A]
10/6/2004	9.88[A]
10/7/2004	9.98[A]
10/8/2004	10.28[A]
10/9/2004	10.26[A]
10/10/2004	10.74[A]
10/11/2004	11.67[A]
10/12/2004	11.07[A]
10/13/2004	10.94[A]
10/14/2004	10.88[A]
10/15/2004	10.48[A]
10/16/2004	10.29[A]
10/17/2004	10.42[A]
10/18/2004	10.61[A]
10/19/2004	10.57[A]
10/20/2004	10.51[A]
10/21/2004	10.49[A]
10/22/2004	10.36[A]
10/23/2004	10.13[A]
10/24/2004	10.12[A]
10/25/2004	10.05[A]
10/26/2004	9.96[A]
10/27/2004	9.92[A]
10/28/2004	10.06[A]
10/29/2004	10.26[A]
10/30/2004	10.19[A]
10/31/2004	10.07[A]

Date	Gage height (ft)
11/1/2004	11.04[A]
11/2/2004	12.74[A]
11/3/2004	12.46[A]
11/4/2004	12.00[A]
11/5/2004	11.08[A]
11/6/2004	10.94[A]
11/7/2004	11.25[A]
11/8/2004	11.38[A]
11/9/2004	11.48[A]
11/10/2004	11.74[A]
11/11/2004	11.82[A]
11/12/2004	11.45[A]
11/13/2004	11.41[A]
11/14/2004	11.20[A]
11/15/2004	10.99[A]
11/16/2004	10.79[A]
11/17/2004	10.33[A]
11/18/2004	10.42[A]
11/19/2004	10.36[A]
11/20/2004	10.31[A]
11/21/2004	11.60[A]
11/22/2004	11.82[A]
11/23/2004	12.52[A]
11/24/2004	13.45[A]
11/25/2004	13.82[A]
11/26/2004	14.66[A]
11/27/2004	15.97[A]
11/28/2004	17.15[A]
11/29/2004	17.47[A]
11/30/2004	18.36[A]

Date	Gage height (ft)
12/1/2004	18.52[A]
12/2/2004	18.15[A]
12/3/2004	18.68[A]
12/4/2004	19.45[A]
12/5/2004	19.82[A]
12/6/2004	19.32[A]
12/7/2004	20.31[A]
12/8/2004	20.13[A]
12/9/2004	19.38[A]
12/10/2004	18.28[A]
12/11/2004	17.02[A]
12/12/2004	15.88[A]
12/13/2004	15.07[A]
12/14/2004	14.16[A]
12/15/2004	13.55[A]
12/16/2004	13.45[A]
12/17/2004	13.52[A]
12/18/2004	13.49[A]
12/19/2004	13.56[A]
12/20/2004	13.53[A]
12/21/2004	13.33[A]
12/22/2004	13.64[A]
12/23/2004	14.36[A]
12/24/2004	13.80[A]
12/25/2004	13.47[A]
12/26/2004	13.07[A]
12/27/2004	12.55[A]
12/28/2004	12.34[A]
12/29/2004	12.18[A]
12/30/2004	11.70[A]
12/31/2004	11.59[A]

Date	Gage height (ft)
1/1/2005	11.48[A]
1/2/2005	11.45[A]
1/3/2005	11.52[A]
1/4/2005	11.68[A]
1/5/2005	11.84[A]
1/6/2005	15.10[A]
1/7/2005	19.67[A]
1/8/2005	21.48[A]
1/9/2005	21.37[A]
1/10/2005	20.65[A]
1/11/2005	20.64[A]
1/12/2005	20.45[A]
1/13/2005	21.05[A]
1/14/2005	21.02[A]
1/15/2005	21.28[A]
1/16/2005	21.31[A]
1/17/2005	21.05[A]
1/18/2005	20.72[A]
1/19/2005	20.30[A]
1/20/2005	19.86[A]
1/21/2005	19.34[A]
1/22/2005	18.80[A]
1/23/2005	18.20[A]
1/24/2005	17.94[A]
1/25/2005	17.56[A]
1/26/2005	16.99[A]
1/27/2005	16.28[A]
1/28/2005	16.00[A]
1/29/2005	15.42[A]
1/30/2005	14.40[A]
1/31/2005	14.58[A]

Date	Gage height (ft)
2/1/2005	14.25[A]
2/2/2005	14.92[A]
2/3/2005	14.81[A]
2/4/2005	14.57[A]
2/5/2005	14.63[A]
2/6/2005	14.35[A]
2/7/2005	14.99[A]
2/8/2005	16.20[A]
2/9/2005	16.60[A]
2/10/2005	16.53[A]
2/11/2005	16.97[A]
2/12/2005	17.44[A]
2/13/2005	17.90[A]
2/14/2005	18.00[A]
2/15/2005	17.54[A]
2/16/2005	17.04[A]
2/17/2005	16.28[A]
2/18/2005	15.89[A]
2/19/2005	15.45[A]
2/20/2005	15.20[A]
2/21/2005	14.95[A]
2/22/2005	14.40[A]
2/23/2005	14.01[A]
2/24/2005	14.31[A]
2/25/2005	14.30[A]
2/26/2005	14.32[A]
2/27/2005	14.62[A]
2/28/2005	14.82[A]

Date	Gage height (ft)
3/1/2005	14.47[A]
3/2/2005	14.28[A]
3/3/2005	14.25[A]
3/4/2005	13.99[A]
3/5/2005	13.72[A]
3/6/2005	13.41[A]
3/7/2005	13.14[A]
3/8/2005	12.86[A]
3/9/2005	12.83[A]
3/10/2005	12.63[A]
3/11/2005	12.43[A]
3/12/2005	12.32[A]
3/13/2005	11.95[A]
3/14/2005	11.45[A]
3/15/2005	11.22[A]
3/16/2005	11.51[A]
3/17/2005	11.08[A]
3/18/2005	11.25[A]
3/19/2005	11.07[A]
3/20/2005	10.85[A]
3/21/2005	10.82[A]
3/22/2005	11.34[A]
3/23/2005	11.18[A]
3/24/2005	11.41[A]
3/25/2005	11.46[A]
3/26/2005	11.12[A]
3/27/2005	11.46[A]
3/28/2005	11.63[A]
3/29/2005	11.82[A]
3/30/2005	12.50[A]
3/31/2005	13.12[A]

Date	Gage height (ft)
4/1/2005	14.25[A]
4/2/2005	14.41[A]
4/3/2005	13.62[A]
4/4/2005	12.84[A]
4/5/2005	12.68[A]
4/6/2005	12.89[A]
4/7/2005	12.46[A]
4/8/2005	11.71[A]
4/9/2005	11.76[A]
4/10/2005	12.10[A]
4/11/2005	14.85[A]
4/12/2005	17.00[A]
4/13/2005	16.45[A]
4/14/2005	15.36[A]
4/15/2005	14.53[A]
4/16/2005	13.95[A]
4/17/2005	13.18[A]
4/18/2005	12.61[A]
4/19/2005	12.31[A]
4/20/2005	11.78[A]
4/21/2005	11.54[A]
4/22/2005	11.33[A]
4/23/2005	10.88[A]
4/24/2005	10.43[A]
4/25/2005	10.41[A]
4/26/2005	10.57[A]
4/27/2005	10.34[A]
4/28/2005	10.35[A]
4/29/2005	10.46[A]
4/30/2005	10.24[A]

Date	Gage height (ft)
5/1/2005	9.95[A]
5/2/2005	9.92[A]
5/3/2005	10.19[A]
5/4/2005	10.21[A]
5/5/2005	10.0[A]
5/6/2005	9.95[A]
5/7/2005	10.22[A]
5/8/2005	10.30[A]
5/9/2005	10.14[A]
5/10/2005	9.96[A]
5/11/2005	10.07[A]
5/12/2005	10.19[A]
5/13/2005	10.09[A]
5/14/2005	9.84[A]
5/15/2005	9.89[A]
5/16/2005	9.94[A]
5/17/2005	9.89[A]
5/18/2005	9.86[A]
5/19/2005	9.94[A]
5/20/2005	9.86[A]
5/21/2005	9.67[A]
5/22/2005	9.61[A]
5/23/2005	9.83[A]
5/24/2005	10.0[A]
5/25/2005	10.06[A]
5/26/2005	10.03[A]
5/27/2005	10.09[A]
5/28/2005	10.15[A]
5/29/2005	10.16[A]
5/30/2005	9.97[A]
5/31/2005	9.93[A]

Date	Gage height (ft)
6/1/2005	10.02[A]
6/2/2005	10.02[A]
6/3/2005	10.02[A]
6/4/2005	10.23[A]
6/5/2005	10.22[A]
6/6/2005	10.10[A]
6/7/2005	9.93[A]
6/8/2005	9.78[A]
6/9/2005	9.86[A]
6/10/2005	9.83[A]
6/11/2005	9.81[A]
6/12/2005	9.96[A]
6/13/2005	10.06[A]
6/14/2005	10.11[A]
6/15/2005	10.05[A]
6/16/2005	9.95[A]
6/17/2005	9.81[A]
6/18/2005	9.66[A]
6/19/2005	9.67[A]
6/20/2005	9.82[A]
6/21/2005	9.94[A]
6/22/2005	10.0[A]
6/23/2005	9.98[A]
6/24/2005	9.97[A]
6/25/2005	9.97[A]
6/26/2005	9.97[A]
6/27/2005	10.02[A]
6/28/2005	10.04[A]
6/29/2005	10.05[A]
6/30/2005	10.08[A]

Date	Gage height (ft)
7/1/2005	10.09[A]
7/2/2005	10.11[A]
7/3/2005	10.03[A]
7/4/2005	9.90[A]
7/5/2005	9.89[A]
7/6/2005	9.90[A]
7/7/2005	9.87[A]
7/8/2005	9.86[A]
7/9/2005	9.90[A]
7/10/2005	9.90[A]
7/11/2005	9.92[A]
7/12/2005	9.99[A]
7/13/2005	10.07[A]
7/14/2005	10.22[A]
7/15/2005	10.07[A]
7/16/2005	9.74[A]
7/17/2005	9.51[A]
7/18/2005	9.73[A]
7/19/2005	9.95[A]
7/20/2005	10.05[A]
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7/22/2005	9.87[A]
7/23/2005	9.97[A]
7/24/2005	10.03[A]
7/25/2005	10.08[A]
7/26/2005	10.04[A]
7/27/2005	9.96[A]
7/28/2005	10.02[A]
7/29/2005	10.08[A]
7/30/2005	10.05[A]
7/31/2005	9.98[A]

Date	Gage height (ft)
8/1/2005	10.08[A]
8/2/2005	10.07[A]
8/3/2005	9.99[A]
8/4/2005	9.83[A]
8/5/2005	9.93[A]
8/6/2005	10.03[A]
8/7/2005	10.09[A]
8/8/2005	10.16[A]
8/9/2005	10.22[A]
8/10/2005	9.88[A]
8/11/2005	10.03[A]
8/12/2005	10.09[A]
8/13/2005	10.10[A]
8/14/2005	10.02[A]
8/15/2005	10.04[A]
8/16/2005	10.14[A]
8/17/2005	10.14[A]
8/18/2005	10.15[A]
8/19/2005	10.19[A]
8/20/2005	10.06[A]
8/21/2005	9.91[A]
8/22/2005	9.85[A]
8/23/2005	9.83[A]
8/24/2005	9.86[A]
8/25/2005	9.99[A]
8/26/2005	10.13[A]
8/27/2005	10.19[A]
8/28/2005	10.12[A]
8/29/2005	9.93[A]
8/30/2005	9.85[A]
8/31/2005	9.94[A]

Date	Gage height (ft)
9/1/2005	10.00[A]
9/2/2005	10.02[A]
9/3/2005	9.96[A]
9/4/2005	9.88[A]
9/5/2005	9.93[A]
9/6/2005	9.97[A]
9/7/2005	9.99[A]
9/8/2005	9.99[A]
9/9/2005	10.00[A]
9/10/2005	10.06[A]
9/11/2005	10.03[A]
9/12/2005	9.97[A]
9/13/2005	9.96[A]
9/14/2005	9.92[A]
9/15/2005	9.92[A]
9/16/2005	9.91[A]
9/17/2005	9.99[A]
9/18/2005	10.01[A]
9/19/2005	10.0[A]
9/20/2005	9.90[A]
9/21/2005	9.85[A]
9/22/2005	9.97[A]
9/23/2005	10.06[A]
9/24/2005	10.30[A]
9/25/2005	9.36[A]
9/26/2005	9.81[A]
9/27/2005	10.19[A]
9/28/2005	9.94[A]
9/29/2005	10.05[A]
9/30/2005	10.13[A]

Preview Only

October 2003- September 2004

USGS 07348000 Twelvemile Bayou near Dixie, LA
Latitude 32°38'45", Longitude 93°52'40" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Datum of gage: 136.12 feet above NGVD29.

Date	Gage height (ft)
10/1/2003	9.69[A]
10/2/2003	9.74[A]
10/3/2003	9.85[A]
10/4/2003	9.91[A]
10/5/2003	9.94[A]
10/6/2003	9.98[A]
10/7/2003	10.03[A]
10/8/2003	10.02[A]
10/9/2003	10.08[A]
10/10/2003	10.01[A]
10/11/2003	9.91[A]
10/12/2003	9.77[A]
10/13/2003	9.66[A]
10/14/2003	9.62[A]
10/15/2003	9.63[A]
10/16/2003	9.64[A]
10/17/2003	9.56[A]
10/18/2003	9.55[A]
10/19/2003	9.58[A]
10/20/2003	9.60[A]
10/21/2003	9.65[A]
10/22/2003	9.61[A]
10/23/2003	9.59[A]
10/24/2003	9.63[A]
10/25/2003	9.79[A]
10/26/2003	9.88[A]
10/27/2003	9.98[A]
10/28/2003	9.96[A]
10/29/2003	9.81[A]
10/30/2003	9.65[A]
10/31/2003	9.57[A]

Date	Gage height (ft)
11/1/2003	9.70[A]
11/2/2003	9.76[A]
11/3/2003	9.79[A]
11/4/2003	9.75[A]
11/5/2003	9.65[A]
11/6/2003	9.57[A]
11/7/2003	9.56[A]
11/8/2003	9.52[A]
11/9/2003	9.60[A]
11/10/2003	9.73[A]
11/11/2003	9.79[A]
11/12/2003	9.74[A]
11/13/2003	9.75[A]
11/14/2003	9.98[A]
11/15/2003	10.21[A]
11/16/2003	10.13[A]
11/17/2003	9.71[A]
11/18/2003	9.66[A]
11/19/2003	9.48[A]
11/20/2003	9.63[A]
11/21/2003	9.95[A]
11/22/2003	10.11[A]
11/23/2003	10.03[A]
11/24/2003	9.83[A]
11/25/2003	9.85[A]
11/26/2003	10.07[A]
11/27/2003	9.92[A]
11/28/2003	9.44[A]
11/29/2003	9.62[A]
11/30/2003	9.96[A]

Date	Gage height (ft)
12/1/2003	9.82[A]
12/2/2003	9.74[A]
12/3/2003	9.70[A]
12/4/2003	9.66[A]
12/5/2003	9.47[A]
12/6/2003	9.49[A]
12/7/2003	9.65[A]
12/8/2003	9.90[A]
12/9/2003	10.15[A]
12/10/2003	9.73[A]
12/11/2003	9.51[A]
12/12/2003	9.71[A]
12/13/2003	9.97[A]
12/14/2003	9.95[A]
12/15/2003	9.97[A]
12/16/2003	9.73[A]
12/17/2003	9.68[A]
12/18/2003	9.60[A]
12/19/2003	9.56[A]
12/20/2003	9.69[A]
12/21/2003	9.82[A]
12/22/2003	10.0[A]
12/23/2003	9.79[A]
12/24/2003	9.64[A]
12/25/2003	9.67[A]
12/26/2003	9.72[A]
12/27/2003	9.76[A]
12/28/2003	9.71[A]
12/29/2003	9.74[A]
12/30/2003	9.58[A]
12/31/2003	9.59[A]

Date	Gage height (ft)
1/1/2004	9.80[A]
1/2/2004	10.0[A]
1/3/2004	10.01[A]
1/4/2004	9.94[A]
1/5/2004	9.67[A]
1/6/2004	9.50[A]
1/7/2004	9.72[A]
1/8/2004	9.90[A]
1/9/2004	9.82[A]
1/10/2004	9.63[A]
1/11/2004	9.62[A]
1/12/2004	9.66[A]
1/13/2004	9.70[A]
1/14/2004	9.75[A]
1/15/2004	9.75[A]
1/16/2004	9.85[A]
1/17/2004	10.00[A]
1/18/2004	9.88[A]
1/19/2004	9.78[A]
1/20/2004	9.68[A]
1/21/2004	9.62[A]
1/22/2004	9.70[A]
1/23/2004	10.29[A]
1/24/2004	10.73[A]
1/25/2004	11.19[A]
1/26/2004	11.45[A]
1/27/2004	11.42[A]
1/28/2004	11.11[A]
1/29/2004	11.21[A]
1/30/2004	11.17[A]
1/31/2004	10.89[A]

Date	Gage height (ft)
2/1/2004	10.79[A]
2/2/2004	10.87[A]
2/3/2004	10.64[A]
2/4/2004	10.50[A]
2/5/2004	10.54[A]
2/6/2004	10.62[A]
2/7/2004	11.12[A]
2/8/2004	11.56[A]
2/9/2004	11.74[A]
2/10/2004	11.83[A]
2/11/2004	13.02[A]
2/12/2004	14.69[A]
2/13/2004	14.85[A]
2/14/2004	14.12[A]
2/15/2004	14.28[A]
2/16/2004	14.24[A]
2/17/2004	14.32[A]
2/18/2004	14.29[A]
2/19/2004	14.32[A]
2/20/2004	14.65[A]
2/21/2004	14.44[A]
2/22/2004	13.92[A]
2/23/2004	13.80[A]
2/24/2004	13.63[A]
2/25/2004	15.10[A]
2/26/2004	16.84[A]
2/27/2004	16.58[A]
2/28/2004	16.18[A]
2/29/2004	15.61[A]

Date	Gage height (ft)
3/1/2004	18.79[A]
3/2/2004	20.88[A]
3/3/2004	20.53[A]
3/4/2004	19.68[A]
3/5/2004	21.09[A]
3/6/2004	20.86[A]
3/7/2004	19.89[A]
3/8/2004	18.88[A]
3/9/2004	17.93[A]
3/10/2004	17.00[A]
3/11/2004	17.03[A]
3/12/2004	16.69[A]
3/13/2004	16.22[A]
3/14/2004	15.80[A]
3/15/2004	15.79[A]
3/16/2004	15.41[A]
3/17/2004	14.86[A]
3/18/2004	14.54[A]
3/19/2004	14.13[A]
3/20/2004	13.68[A]
3/21/2004	12.88[A]
3/22/2004	12.46[A]
3/23/2004	12.33[A]
3/24/2004	12.17[A]
3/25/2004	11.91[A]
3/26/2004	11.45[A]
3/27/2004	11.24[A]
3/28/2004	11.31[A]
3/29/2004	11.26[A]
3/30/2004	11.19[A]
3/31/2004	11.04[A]

Date	Gage height (ft)
4/1/2004	10.94[A]
4/2/2004	10.88[A]
4/3/2004	10.82[A]
4/4/2004	10.63[A]
4/5/2004	10.40[A]
4/6/2004	10.32[A]
4/7/2004	10.33[A]
4/8/2004	10.27[A]
4/9/2004	10.20[A]
4/10/2004	10.16[A]
4/11/2004	10.01[A]
4/12/2004	10.27[A]
4/13/2004	10.56[A]
4/14/2004	10.52[A]
4/15/2004	10.77[A]
4/16/2004	10.79[A]
4/17/2004	10.52[A]
4/18/2004	10.18[A]
4/19/2004	10.27[A]
4/20/2004	10.35[A]
4/21/2004	10.26[A]
4/22/2004	10.14[A]
4/23/2004	9.93[A]
4/24/2004	9.98[A]
4/25/2004	10.54[A]
4/26/2004	10.82[A]
4/27/2004	10.67[A]
4/28/2004	10.73[A]
4/29/2004	11.62[A]
4/30/2004	11.67[A]

Date	Gage height (ft)
5/1/2004	13.85[A]
5/2/2004	16.18[A]
5/3/2004	15.61[A]
5/4/2004	15.09[A]
5/5/2004	14.77[A]
5/6/2004	14.69[A]
5/7/2004	14.63[A]
5/8/2004	14.49[A]
5/9/2004	14.23[A]
5/10/2004	13.96[A]
5/11/2004	13.70[A]
5/12/2004	13.63[A]
5/13/2004	13.32[A]
5/14/2004	13.50[A]
5/15/2004	13.03[A]
5/16/2004	12.60[A]
5/17/2004	12.25[A]
5/18/2004	11.92[A]
5/19/2004	11.59[A]
5/20/2004	11.14[A]
5/21/2004	10.64[A]
5/22/2004	10.55[A]
5/23/2004	10.43[A]
5/24/2004	10.16[A]
5/25/2004	10.02[A]
5/26/2004	10.10[A]
5/27/2004	10.20[A]
5/28/2004	10.09[A]
5/29/2004	9.82[A]
5/30/2004	9.83[A]
5/31/2004	10.06[A]

Date	Gage height (ft)
6/1/2004	10.62[A]
6/2/2004	10.52[A]
6/3/2004	10.95[A]
6/4/2004	11.15[A]
6/5/2004	11.02[A]
6/6/2004	12.66[A]
6/7/2004	14.61[A]
6/8/2004	14.87[A]
6/9/2004	16.31[A]
6/10/2004	16.79[A]
6/11/2004	16.56[A]
6/12/2004	16.37[A]
6/13/2004	16.09[A]
6/14/2004	16.10[A]
6/15/2004	16.62[A]
6/16/2004	18.22[A]
6/17/2004	18.83[A]
6/18/2004	18.56[A]
6/19/2004	18.35[A]
6/20/2004	18.44[A]
6/21/2004	18.35[A]
6/22/2004	18.10[A]
6/23/2004	17.85[A]
6/24/2004	17.73[A]
6/25/2004	17.46[A]
6/26/2004	17.17[A]
6/27/2004	18.30[A]
6/28/2004	19.54[A]
6/29/2004	18.97[A]
6/30/2004	18.46[A]

Date	Gage height (ft)
7/1/2004	18.88[A]
7/2/2004	18.67[A]
7/3/2004	18.37[A]
7/4/2004	17.76[A]
7/5/2004	17.25[A]
7/6/2004	17.19[A]
7/7/2004	17.02[A]
7/8/2004	16.53[A]
7/9/2004	16.05[A]
7/10/2004	15.28[A]
7/11/2004	14.12[A]
7/12/2004	13.13[A]
7/13/2004	12.48[A]
7/14/2004	12.33[A]
7/15/2004	12.33[A]
7/16/2004	12.01[A]
7/17/2004	11.77[A]
7/18/2004	11.28[A]
7/19/2004	10.91[A]
7/20/2004	10.62[A]
7/21/2004	10.28[A]
7/22/2004	10.24[A]
7/23/2004	10.21[A]
7/24/2004	10.03[A]
7/25/2004	9.63[A]
7/26/2004	9.79[A]
7/27/2004	10.16[A]
7/28/2004	10.16[A]
7/29/2004	10.15[A]
7/30/2004	10.11[A]
7/31/2004	9.99[A]

Date	Gage height (ft)
8/1/2004	9.93[A]
8/2/2004	9.90[A]
8/3/2004	9.92[A]
8/4/2004	9.90[A]
8/5/2004	9.87[A]
8/6/2004	9.87[A]
8/7/2004	9.97[A]
8/8/2004	10.01[A]
8/9/2004	9.75[A]
8/10/2004	9.94[A]
8/11/2004	10.44[A]
8/12/2004	10.20[A]
8/13/2004	9.93[A]
8/14/2004	10.13[A]
8/15/2004	10.01[A]
8/16/2004	9.79[A]
8/17/2004	9.80[A]
8/18/2004	10.04[A]
8/19/2004	10.23[A]
8/20/2004	10.07[A]
8/21/2004	9.63[A]
8/22/2004	9.84[A]
8/23/2004	10.07[A]
8/24/2004	10.08[A]
8/25/2004	9.99[A]
8/26/2004	10.08[A]
8/27/2004	9.95[A]
8/28/2004	9.79[A]
8/29/2004	9.67[A]
8/30/2004	9.75[A]
8/31/2004	9.82[A]

Date	Gage height (ft)
9/1/2004	10.02[A]
9/2/2004	10.16[A]
9/3/2004	9.99[A]
9/4/2004	9.91[A]
9/5/2004	9.98[A]
9/6/2004	9.96[A]
9/7/2004	10.04[A]
9/8/2004	10.09[A]
9/9/2004	10.04[A]
9/10/2004	9.88[A]
9/11/2004	9.85[A]
9/12/2004	9.92[A]
9/13/2004	9.94[A]
9/14/2004	9.95[A]
9/15/2004	9.89[A]
9/16/2004	9.91[A]
9/17/2004	10.08[A]
9/18/2004	10.07[A]
9/19/2004	10.06[A]
9/20/2004	10.10[A]
9/21/2004	10.09[A]
9/22/2004	9.95[A]
9/23/2004	9.89[A]
9/24/2004	10.11[A]
9/25/2004	10.00[A]
9/26/2004	9.81[A]
9/27/2004	9.92[A]
9/28/2004	9.96[A]
9/29/2004	9.93[A]
9/30/2004	9.99[A]

Preview Only

October 2002- September 2003

USGS 07348000 Twelvemile Bayou near Dixie, LA
Latitude 32°38'45", Longitude 93°52'40" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Datum of gage: 136.12 feet above NGVD29.

Date	Gage height (ft)
10/1/2002	P
10/2/2002	P
10/3/2002	9.75[A]
10/4/2002	9.87[A]
10/5/2002	9.85[A]
10/6/2002	9.91[A]
10/7/2002	10.00[A]
10/8/2002	9.84[A]
10/9/2002	9.71[A]
10/10/2002	10.02[A]
10/11/2002	10.01[A]
10/12/2002	9.91[A]
10/13/2002	9.88[A]
10/14/2002	9.90[A]
10/15/2002	9.91[A]
10/16/2002	9.97[A]
10/17/2002	10.01[A]
10/18/2002	9.96[A]
10/19/2002	9.99[A]
10/20/2002	9.96[A]
10/21/2002	9.91[A]
10/22/2002	9.90[A]
10/23/2002	9.99[A]
10/24/2002	10.35[A]
10/25/2002	11.15[A]
10/26/2002	11.17[A]
10/27/2002	10.71[A]
10/28/2002	10.76[A]
10/29/2002	10.75[A]
10/30/2002	10.51[A]
10/31/2002	10.46[A]

Date	Gage height (ft)
11/1/2002	10.47[A]
11/2/2002	10.57[A]
11/3/2002	10.49[A]
11/4/2002	10.34[A]
11/5/2002	10.89[A]
11/6/2002	10.80[A]
11/7/2002	10.91[A]
11/8/2002	10.96[A]
11/9/2002	10.96[A]
11/10/2002	10.89[A]
11/11/2002	10.53[A]
11/12/2002	10.42[A]
11/13/2002	10.33[A]
11/14/2002	10.25[A]
11/15/2002	10.18[A]
11/16/2002	9.95[A]
11/17/2002	10.06[A]
11/18/2002	10.26[A]
11/19/2002	10.16[A]
11/20/2002	10.03[A]
11/21/2002	9.83[A]
11/22/2002	9.81[A]
11/23/2002	9.87[A]
11/24/2002	9.87[A]
11/25/2002	9.80[A]
11/26/2002	9.81[A]
11/27/2002	9.77[A]
11/28/2002	9.89[A]
11/29/2002	10.12[A]
11/30/2002	10.00[A]

Date	Gage height (ft)
12/1/2002	9.81[A]
12/2/2002	9.91[A]
12/3/2002	9.99[A]
12/4/2002	10.37[A]
12/5/2002	10.29[A]
12/6/2002	10.13[A]
12/7/2002	10.16[A]
12/8/2002	10.22[A]
12/9/2002	10.34[A]
12/10/2002	10.34[A]
12/11/2002	10.39[A]
12/12/2002	10.70[A]
12/13/2002	11.34[A]
12/14/2002	11.09[A]
12/15/2002	11.10[A]
12/16/2002	11.04[A]
12/17/2002	11.15[A]
12/18/2002	11.42[A]
12/19/2002	17.46[A]
12/20/2002	19.76[A]
12/21/2002	17.72[A]
12/22/2002	15.97[A]
12/23/2002	14.85[A]
12/24/2002	17.65[A]
12/25/2002	17.43[A]
12/26/2002	16.63[A]
12/27/2002	16.43[A]
12/28/2002	16.28[A]
12/29/2002	16.37[A]
12/30/2002	16.57[A]
12/31/2002	19.25[A]

Date	Gage height (ft)
1/1/2003	19.91[A]
1/2/2003	20.07[A]
1/3/2003	19.27[A]
1/4/2003	19.18[A]
1/5/2003	19.49[A]
1/6/2003	19.01[A]
1/7/2003	18.32[A]
1/8/2003	17.84[A]
1/9/2003	17.42[A]
1/10/2003	17.15[A]
1/11/2003	16.52[A]
1/12/2003	15.75[A]
1/13/2003	15.37[A]
1/14/2003	15.08[A]
1/15/2003	14.71[A]
1/16/2003	15.00[A]
1/17/2003	14.30[A]
1/18/2003	14.02[A]
1/19/2003	13.36[A]
1/20/2003	12.64[A]
1/21/2003	12.23[A]
1/22/2003	11.49[A]
1/23/2003	11.29[A]
1/24/2003	11.24[A]
1/25/2003	11.21[A]
1/26/2003	10.96[A]
1/27/2003	10.83[A]
1/28/2003	10.82[A]
1/29/2003	10.86[A]
1/30/2003	11.16[A]
1/31/2003	11.03[A]

Date	Gage height (ft)
2/1/2003	10.80[A]
2/2/2003	10.85[A]
2/3/2003	10.66[A]
2/4/2003	10.26[A]
2/5/2003	10.39[A]
2/6/2003	10.75[A]
2/7/2003	10.79[A]
2/8/2003	10.66[A]
2/9/2003	10.94[A]
2/10/2003	11.50[A]
2/11/2003	11.67[A]
2/12/2003	11.62[A]
2/13/2003	11.44[A]
2/14/2003	11.73[A]
2/15/2003	13.12[A]
2/16/2003	16.26[A]
2/17/2003	16.10[A]
2/18/2003	15.46[A]
2/19/2003	15.15[A]
2/20/2003	15.08[A]
2/21/2003	18.27[A]
2/22/2003	24.11[A]
2/23/2003	27.23[A]
2/24/2003	28.01[A]
2/25/2003	28.21[A]
2/26/2003	28.66[A]
2/27/2003	28.97[A]
2/28/2003	28.71[A]

Date	Gage height (ft)
3/1/2003	28.02[A]
3/2/2003	27.04[A]
3/3/2003	26.10[A]
3/4/2003	25.39[A]
3/5/2003	24.57[A]
3/6/2003	23.60[A]
3/7/2003	22.59[A]
3/8/2003	21.72[A]
3/9/2003	20.83[A]
3/10/2003	19.89[A]
3/11/2003	19.36[A]
3/12/2003	18.90[A]
3/13/2003	18.50[A]
3/14/2003	17.90[A]
3/15/2003	17.43[A]
3/16/2003	17.16[A]
3/17/2003	16.60[A]
3/18/2003	16.30[A]
3/19/2003	17.46[A]
3/20/2003	17.35[A]
3/21/2003	16.72[A]
3/22/2003	16.18[A]
3/23/2003	16.06[A]
3/24/2003	15.77[A]
3/25/2003	15.40[A]
3/26/2003	15.34[A]
3/27/2003	15.06[A]
3/28/2003	14.91[A]
3/29/2003	P
3/30/2003	P
3/31/2003	P

Date	Gage height (ft)
4/1/2003	12.65[A]
4/2/2003	12.15[A]
4/3/2003	11.82[A]
4/4/2003	11.51[A]
4/5/2003	11.09[A]
4/6/2003	11.58[A]
4/7/2003	13.37[A]
4/8/2003	13.09[A]
4/9/2003	12.47[A]
4/10/2003	11.92[A]
4/11/2003	11.74[A]
4/12/2003	11.74[A]
4/13/2003	11.47[A]
4/14/2003	11.31[A]
4/15/2003	11.13[A]
4/16/2003	11.04[A]
4/17/2003	10.94[A]
4/18/2003	10.53[A]
4/19/2003	10.32[A]
4/20/2003	10.24[A]
4/21/2003	10.10[A]
4/22/2003	10.09[A]
4/23/2003	10.05[A]
4/24/2003	10.18[A]
4/25/2003	10.16[A]
4/26/2003	9.98[A]
4/27/2003	9.83[A]
4/28/2003	9.80[A]
4/29/2003	9.90[A]
4/30/2003	9.96[A]

Date	Gage height (ft)
5/1/2003	10.16[A]
5/2/2003	10.18[A]
5/3/2003	9.91[A]
5/4/2003	9.76[A]
5/5/2003	10.07[A]
5/6/2003	10.32[A]
5/7/2003	10.72[A]
5/8/2003	11.09[A]
5/9/2003	10.78[A]
5/10/2003	10.94[A]
5/11/2003	10.76[A]
5/12/2003	10.49[A]
5/13/2003	10.45[A]
5/14/2003	10.56[A]
5/15/2003	12.45[A]
5/16/2003	14.24[A]
5/17/2003	13.82[A]
5/18/2003	13.41[A]
5/19/2003	13.23[A]
5/20/2003	12.87[A]
5/21/2003	12.41[A]
5/22/2003	12.38[A]
5/23/2003	11.90[A]
5/24/2003	11.49[A]
5/25/2003	11.40[A]
5/26/2003	10.72[A]
5/27/2003	10.49[A]
5/28/2003	10.55[A]
5/29/2003	10.51[A]
5/30/2003	10.43[A]
5/31/2003	10.20[A]

Date	Gage height (ft)
6/1/2003	9.82[A]
6/2/2003	10.08[A]
6/3/2003	10.10[A]
6/4/2003	9.91[A]
6/5/2003	9.70[A]
6/6/2003	9.68[A]
6/7/2003	9.66[A]
6/8/2003	9.66[A]
6/9/2003	9.66[A]
6/10/2003	9.76[A]
6/11/2003	10.12[A]
6/12/2003	10.24[A]
6/13/2003	10.10[A]
6/14/2003	10.06[A]
6/15/2003	9.93[A]
6/16/2003	9.89[A]
6/17/2003	10.30[A]
6/18/2003	11.00[A]
6/19/2003	11.19[A]
6/20/2003	11.62[A]
6/21/2003	11.80[A]
6/22/2003	11.56[A]
6/23/2003	11.47[A]
6/24/2003	11.36[A]
6/25/2003	11.20[A]
6/26/2003	11.02[A]
6/27/2003	11.17[A]
6/28/2003	10.68[A]
6/29/2003	10.47[A]
6/30/2003	10.30[A]

Date	Gage height (ft)
7/1/2003	10.18[A]
7/2/2003	10.15[A]
7/3/2003	10.70[A]
7/4/2003	10.44[A]
7/5/2003	10.14[A]
7/6/2003	9.92[A]
7/7/2003	9.81[A]
7/8/2003	9.77[A]
7/9/2003	9.99[A]
7/10/2003	10.06[A]
7/11/2003	9.87[A]
7/12/2003	9.77[A]
7/13/2003	9.82[A]
7/14/2003	9.99[A]
7/15/2003	10.03[A]
7/16/2003	9.93[A]
7/17/2003	9.74[A]
7/18/2003	9.78[A]
7/19/2003	9.73[A]
7/20/2003	9.69[A]
7/21/2003	9.75[A]
7/22/2003	9.80[A]
7/23/2003	9.97[A]
7/24/2003	10.00[A]
7/25/2003	9.97[A]
7/26/2003	9.95[A]
7/27/2003	9.98[A]
7/28/2003	9.97[A]
7/29/2003	9.91[A]
7/30/2003	9.77[A]
7/31/2003	9.73[A]

Date	Gage height (ft)
8/1/2003	9.60[A]
8/2/2003	9.57[A]
8/3/2003	9.77[A]
8/4/2003	10.03[A]
8/5/2003	10.01[A]
8/6/2003	9.86[A]
8/7/2003	9.80[A]
8/8/2003	9.89[A]
8/9/2003	10.06[A]
8/10/2003	10.08[A]
8/11/2003	10.0[A]
8/12/2003	10.02[A]
8/13/2003	10.19[A]
8/14/2003	10.03[A]
8/15/2003	9.99[A]
8/16/2003	9.90[A]
8/17/2003	9.69[A]
8/18/2003	9.65[A]
8/19/2003	9.60[A]
8/20/2003	9.61[A]
8/21/2003	9.92[A]
8/22/2003	10.16[A]
8/23/2003	9.94[A]
8/24/2003	9.69[A]
8/25/2003	9.66[A]
8/26/2003	9.82[A]
8/27/2003	10.05[A]
8/28/2003	9.98[A]
8/29/2003	9.76[A]
8/30/2003	9.84[A]
8/31/2003	9.87[A]

Date	Gage height (ft)
9/1/2003	9.79[A]
9/2/2003	9.59[A]
9/3/2003	9.67[A]
9/4/2003	9.94[A]
9/5/2003	10.07[A]
9/6/2003	10.38[A]
9/7/2003	10.30[A]
9/8/2003	9.97[A]
9/9/2003	9.90[A]
9/10/2003	10.14[A]
9/11/2003	10.10[A]
9/12/2003	9.96[A]
9/13/2003	9.72[A]
9/14/2003	9.39[A]
9/15/2003	9.54[A]
9/16/2003	9.82[A]
9/17/2003	10.07[A]
9/18/2003	10.25[A]
9/19/2003	10.09[A]
9/20/2003	9.75[A]
9/21/2003	9.67[A]
9/22/2003	9.95[A]
9/23/2003	10.02[A]
9/24/2003	10.03[A]
9/25/2003	9.95[A]
9/26/2003	9.91[A]
9/27/2003	9.81[A]
9/28/2003	9.73[A]
9/29/2003	9.80[A]
9/30/2003	9.74[A]

Preliminary Only

October 2001- September 2002

Twelvemile Bayou near Dixie, LA (USGS 07348000)
Latitude 32°38'45", Longitude 93°52'40" NAD27
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Datum of gage: 136.12 feet above NGVD29.

Date	Gage height (ft)
10/1/2001	10.38[A]
10/2/2001	10.27[A]
10/3/2001	10.24[A]
10/4/2001	10.19[A]
10/5/2001	10.26[A]
10/6/2001	10.16[A]
10/7/2001	10.05[A]
10/8/2001	9.95[A]
10/9/2001	10.12[A]
10/10/2001	10.31[A]
10/11/2001	[P]
10/12/2001	14.99[A]
10/13/2001	19.18[A]
10/14/2001	24.02[A]
10/15/2001	25.88[A]
10/16/2001	26.34[A]
10/17/2001	25.94[A]
10/18/2001	25.15[A]
10/19/2001	23.88[A]
10/20/2001	22.07[A]
10/21/2001	19.94[A]
10/22/2001	18.12[A]
10/23/2001	16.54[A]
10/24/2001	15.44[A]
10/25/2001	14.40[A]
10/26/2001	13.80[A]
10/27/2001	13.38[A]
10/28/2001	13.01[A]
10/29/2001	12.91[A]
10/30/2001	12.91[A]
10/31/2001	12.91[A]

Date	Gage height (ft)
11/1/2001	12.85[A]
11/2/2001	12.87[A]
11/3/2001	12.89[A]
11/4/2001	12.80[A]
11/5/2001	12.71[A]
11/6/2001	12.59[A]
11/7/2001	12.62[A]
11/8/2001	12.55[A]
11/9/2001	12.34[A]
11/10/2001	12.33[A]
11/11/2001	12.23[A]
11/12/2001	12.08[A]
11/13/2001	12.01[A]
11/14/2001	11.96[A]
11/15/2001	11.95[A]
11/16/2001	11.86[A]
11/17/2001	11.67[A]
11/18/2001	11.40[A]
11/19/2001	11.30[A]
11/20/2001	11.03[A]
11/21/2001	10.85[A]
11/22/2001	10.47[A]
11/23/2001	10.40[A]
11/24/2001	10.58[A]
11/25/2001	10.33[A]
11/26/2001	10.27[A]
11/27/2001	10.33[A]
11/28/2001	10.17[A]
11/29/2001	11.71[A]
11/30/2001	13.21[A]

Date	Gage height (ft)
12/1/2001	14.82[A]
12/2/2001	16.37[A]
12/3/2001	17.23[A]
12/4/2001	17.37[A]
12/5/2001	17.12[A]
12/6/2001	16.77[A]
12/7/2001	16.34[A]
12/8/2001	16.41[A]
12/9/2001	16.03[A]
12/10/2001	15.78[A]
12/11/2001	15.54[A]
12/12/2001	18.31[A]
12/13/2001	21.49[A]
12/14/2001	23.65[A]
12/15/2001	24.29[A]
12/16/2001	25.28[A]
12/17/2001	28.74[A]
12/18/2001	30.70[A]
12/19/2001	32.53[A]
12/20/2001	33.68[A]
12/21/2001	34.06[A]
12/22/2001	33.96[A]
12/23/2001	33.59[A]
12/24/2001	[P]
12/25/2001	[P]
12/26/2001	[P]
12/27/2001	[P]
12/28/2001	[P]
12/29/2001	[P]
12/30/2001	[P]
12/31/2001	[P]

Date	Gage height (ft)
1/1/2002	[P]
1/2/2002	[P]
1/3/2002	[P]
1/4/2002	[P]
1/5/2002	[P]
1/6/2002	[P]
1/7/2002	[P]
1/8/2002	[P]
1/9/2002	[P]
1/10/2002	[P]
1/11/2002	[P]
1/12/2002	[P]
1/13/2002	[P]
1/14/2002	[P]
1/15/2002	[P]
1/16/2002	[P]
1/17/2002	[P]
1/18/2002	[P]
1/19/2002	[P]
1/20/2002	[P]
1/21/2002	[P]
1/22/2002	[P]
1/23/2002	[P]
1/24/2002	[P]
1/25/2002	[P]
1/26/2002	[P]
1/27/2002	[P]
1/28/2002	[P]
1/29/2002	[P]
1/30/2002	[P]
1/31/2002	[P]

Date	Gage height (ft)
2/1/2002	[P]
2/2/2002	[P]
2/3/2002	[P]
2/4/2002	[P]
2/5/2002	[P]
2/6/2002	[P]
2/7/2002	[P]
2/8/2002	[P]
2/9/2002	[P]
2/10/2002	[P]
2/11/2002	[P]
2/12/2002	[P]
2/13/2002	[P]
2/14/2002	[P]
2/15/2002	[P]
2/16/2002	[P]
2/17/2002	[P]
2/18/2002	[P]
2/19/2002	[P]
2/20/2002	[P]
2/21/2002	[P]
2/22/2002	[P]
2/23/2002	[P]
2/24/2002	[P]
2/25/2002	[P]
2/26/2002	[P]
2/27/2002	[P]
2/28/2002	[P]

Date	Gage height (ft)
3/1/2002	[P]
3/2/2002	[P]
3/3/2002	[P]
3/4/2002	[P]
3/5/2002	[P]
3/6/2002	[P]
3/7/2002	[P]
3/8/2002	[P]
3/9/2002	[P]
3/10/2002	[P]
3/11/2002	[P]
3/12/2002	[P]
3/13/2002	[P]
3/14/2002	[P]
3/15/2002	[P]
3/16/2002	[P]
3/17/2002	[P]
3/18/2002	[P]
3/19/2002	[P]
3/20/2002	[P]
3/21/2002	[P]
3/22/2002	[P]
3/23/2002	[P]
3/24/2002	[P]
3/25/2002	[P]
3/26/2002	[P]
3/27/2002	[P]
3/28/2002	[P]
3/29/2002	[P]
3/30/2002	[P]
3/31/2002	[P]

Date	Gage height (ft)
4/1/2002	[P]
4/2/2002	[P]
4/3/2002	[P]
4/4/2002	[P]
4/5/2002	[P]
4/6/2002	[P]
4/7/2002	[P]
4/8/2002	[P]
4/9/2002	[P]
4/10/2002	[P]
4/11/2002	[P]
4/12/2002	[P]
4/13/2002	[P]
4/14/2002	[P]
4/15/2002	[P]
4/16/2002	[P]
4/17/2002	[P]
4/18/2002	[P]
4/19/2002	[P]
4/20/2002	[P]
4/21/2002	[P]
4/22/2002	[P]
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4/28/2002	[P]
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Date	Gage height (ft)
5/1/2002	[P]
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Date	Gage height (ft)
6/1/2002	[P]
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6/3/2002	[P]
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6/26/2002	[P]
6/27/2002	[P]
6/28/2002	[P]
6/29/2002	[P]
6/30/2002	[P]

Date	Gage height (ft)
7/1/2002	[P]
7/2/2002	[P]
7/3/2002	[P]
7/4/2002	[P]
7/5/2002	[P]
7/6/2002	[P]
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7/30/2002	[P]
7/31/2002	[P]

Date	Gage height (ft)
8/1/2002	[P]
8/2/2002	[P]
8/3/2002	[P]
8/4/2002	[P]
8/5/2002	[P]
8/6/2002	[P]
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Date	Gage height (ft)
9/1/2002	[P]
9/2/2002	[P]
9/3/2002	[P]
9/4/2002	[P]
9/5/2002	[P]
9/6/2002	[P]
9/7/2002	[P]
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9/9/2002	[P]
9/10/2002	[P]
9/11/2002	[P]
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APPENDIX E

Preview Only

Water-Data Report 2011

07344370 Red River at Spring Bank, AR

Red-Saline Basin
Mckinney-Posten Bayous Subbasin

LOCATION.--Lat 33°05′22″, long 93°51′34″ referenced to North American Datum of 1983, Miller County, AR, Hydrologic Unit 11140201, near right bank on downstream side of bridge on State highway 160, 0.1 mi downstream from Sulphur river, 4.5 mi upstream from Arkansas-Louisiana State line, and 2.5 mi east of intersection of U.S. Highway 71 and State Highway 160 at Doddridge, AR.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1, 1995 to July 10, 1996 (daily observer record). July 11, 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.44 ft above NAVD of 1988. Prior to July 11, 1998, observer record of daily readings only.

REMARKS.--Records fair. Satellite telemetry at station.

Preview Only

07344370 Red River at Spring Bank, AR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5,550	2,110	1,520	3,880	e4,910	3,750	4,500	55,500	14,600	2,880	3,030	2,530
2	5,430	2,420	1,470	4,810	5,900	3,920	4,290	53,500	12,300	2,890	3,010	2,700
3	5,170	2,940	1,440	5,860	6,190	3,410	4,080	53,500	10,400	2,800	2,960	2,590
4	4,460	3,060	1,450	6,330	5,890	e2,940	3,720	58,100	8,910	2,680	2,930	2,430
5	3,890	3,080	1,440	6,910	6,200	e2,690	3,620	68,700	6,730	2,620	2,920	2,340
6	3,580	2,870	1,410	6,640	e6,660	e2,450	4,110	75,900	5,690	3,650	2,900	2,380
7	3,400	2,780	1,390	5,850	7,110	2,310	4,460	76,500	5,310	11,700	2,810	2,340
8	3,190	2,610	1,380	5,580	8,960	2,240	4,180	71,400	5,000	14,500	2,700	2,270
9	2,820	2,510	1,380	6,750	11,600	e2,440	3,800	64,900	4,660	12,600	2,660	2,220
10	2,540	2,480	1,580	6,560	11,700	e2,940	3,510	60,000	4,260	10,600	2,650	2,180
11	2,360	2,430	2,110	6,020	e10,400	e3,270	3,240	56,600	3,880	8,740	2,710	2,180
12	2,240	2,390	2,080	5,550	e9,040	e3,640	3,320	53,000	3,860	7,300	2,840	2,190
13	2,210	2,300	1,850	5,400	6,660	e4,040	3,290	49,200	3,890	6,260	2,930	2,200
14	2,140	2,190	1,660	5,620	e5,280	e4,440	2,910	45,800	3,810	5,550	2,800	2,180
15	2,090	2,130	1,890	5,510	e4,770	e4,790	2,690	43,200	3,760	5,250	2,660	2,150
16	2,060	2,090	2,430	5,990	e4,490	e4,850	2,610	41,300	3,710	5,120	2,590	2,020
17	2,030	2,100	2,750	7,740	e4,430	e5,220	2,520	38,300	3,730	4,930	2,580	1,850
18	2,020	2,040	2,550	8,610	e4,350	e5,920	2,470	33,800	3,800	4,600	2,620	1,780
19	1,950	2,010	2,300	8,200	3,990	e6,160	2,690	27,100	3,460	4,190	2,650	1,800
20	1,910	2,000	2,410	7,470	3,910	e6,060	6,770	21,500	3,200	3,890	2,610	1,730
21	1,870	2,040	2,790	6,780	3,850	e5,730	13,300	20,700	3,100	3,720	2,630	1,740
22	1,790	2,030	2,660	6,050	3,410	e5,390	e18,900	23,000	3,060	3,280	2,620	1,910
23	1,730	1,900	2,380	5,360	2,790	5,030	24,100	23,700	2,990	3,150	2,630	2,080
24	1,740	1,740	2,420	5,240	2,560	4,260	24,500	29,600	2,930	3,200	2,670	2,030
25	1,980	1,540	2,930	5,480	2,600	4,540	22,900	38,400	2,930	3,260	2,820	1,840
26	2,050	1,470	3,210	5,610	2,710	4,800	24,600	38,200	2,850	3,320	3,010	1,690
27	1,930	1,460	3,040	e5,180	2,640	4,320	33,400	35,300	2,790	3,270	3,030	1,600
28	2,020	1,470	2,910	e4,870	3,040	3,680	45,200	34,200	2,750	3,180	2,710	1,560
29	2,200	1,470	2,730	e4,860	---	3,540	53,200	30,600	2,700	3,120	2,500	1,540
30	2,170	1,460	2,870	e4,510	---	3,960	56,000	23,300	2,760	3,110	2,430	1,480
31	2,140	---	3,330	e4,390	---	4,390	---	17,400	---	3,070	2,410	---
Total	82,660	65,120	67,760	183,610	156,040	127,120	388,880	1,362,200	143,820	158,430	85,020	61,530
Mean	2,666	2,171	2,186	5,923	5,573	4,101	12,960	43,940	4,794	5,111	2,743	2,051
Max	5,550	3,080	3,330	8,610	11,700	6,160	56,000	76,500	14,600	14,500	3,030	2,700
Min	1,730	1,460	1,380	3,880	2,560	2,240	2,470	17,400	2,700	2,620	2,410	1,480
Ac-ft	164,000	129,200	134,400	364,200	309,500	252,100	771,300	2,702,000	285,300	314,200	168,600	122,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11,680	12,070	18,290	28,080	25,460	31,200	29,130	27,840	18,690	15,100	10,050	7,785
Max	74,630	56,740	48,070	87,290	60,190	106,200	104,700	100,400	56,740	90,120	61,390	26,750
(WY)	(2010)	(2010)	(2002)	(1998)	(2010)	(2001)	(2002)	(2009)	(2009)	(2007)	(2007)	(2007)
Min	2,518	1,900	1,479	2,102	3,043	4,101	5,739	4,267	3,276	2,644	2,465	1,566
(WY)	(2000)	(2006)	(2006)	(2006)	(2006)	(2011)	(2003)	(2005)	(2006)	(2006)	(2006)	(2006)

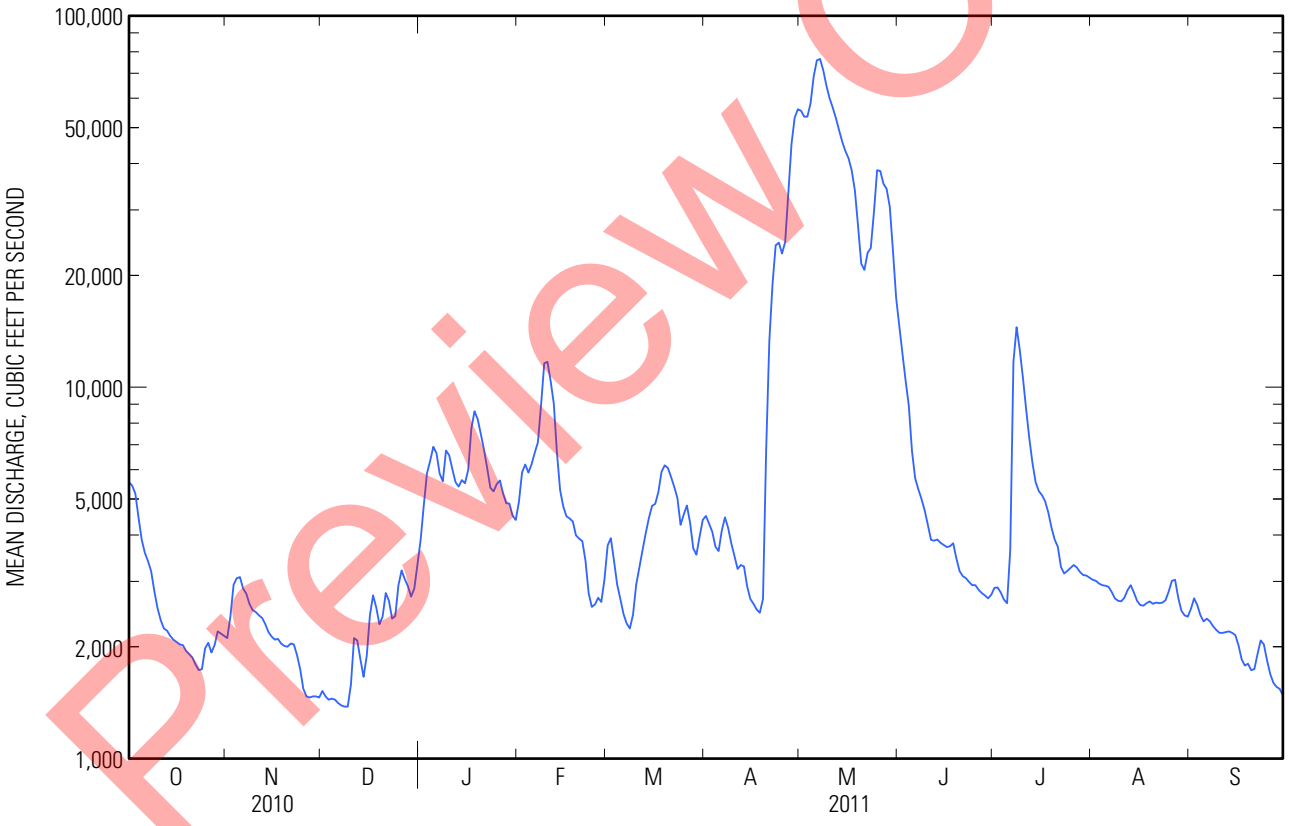
Preview Only

07344370 Red River at Spring Bank, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1998 - 2011	
Annual total	6,343,420		2,882,190			
Annual mean	17,380		7,896		19,600	
Highest annual mean					34,790	2001
Lowest annual mean					4,766	2006
Highest daily mean	93,100	Feb 12	76,500	May 7	138,000	Mar 14, 2001
Lowest daily mean	1,380	Dec 8	[a]1,380	Dec 8	1,100	Oct 11, 2006
Annual seven-day minimum	1,410	Dec 3	1,410	Dec 3	1,250	Jan 5, 2006
Maximum peak flow			78,100	May 6	140,000	Mar 14, 2001
Maximum peak stage			29.19	May 6	34.96	May 23, 2009
Instantaneous low flow			[a]1,370	Dec 7	1,070	Oct 11, 2006
Annual runoff (ac-ft)	12,580,000		5,717,000		14,200,000	
10 percent exceeds	44,300		22,100		52,200	
50 percent exceeds	9,380		3,190		8,720	
90 percent exceeds	2,040		1,910		2,720	

[a] Also occurred Dec. 9.



Preview Only

07344370 Red River at Spring Bank, AR—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13.30	11.08	10.56	12.33	e13.20	12.51	12.00	25.74	17.14	12.20	11.77	11.41
2	13.23	11.32	10.51	12.89	13.74	12.62	11.89	25.40	16.37	12.20	11.76	11.54
3	13.09	11.71	10.49	13.46	13.89	12.29	11.76	25.39	15.67	12.14	11.72	11.46
4	12.68	11.79	10.49	13.70	13.74	e11.97	11.55	26.16	15.11	12.06	11.70	11.33
5	12.34	11.80	10.48	13.99	13.90	e11.79	11.49	27.82	14.16	12.02	11.69	11.26
6	12.14	11.66	10.45	13.86	e14.13	e11.60	11.78	28.88	13.69	12.57	11.68	11.29
7	12.02	11.59	10.44	13.46	14.34	11.49	11.98	28.98	13.52	16.18	11.62	11.26
8	11.88	11.47	10.43	13.32	15.16	11.42	11.82	28.29	13.39	17.09	11.54	11.20
9	11.63	11.40	10.43	13.91	16.24	e11.49	11.60	27.34	13.23	16.41	11.51	11.17
10	11.41	11.37	10.61	13.82	16.26	e11.77	11.42	26.63	13.03	15.63	11.50	11.13
11	11.28	11.34	11.08	13.55	e15.74	e11.90	11.24	26.11	12.84	14.84	11.54	11.13
12	11.18	11.30	11.05	13.30	e15.20	e12.04	11.30	25.57	12.84	14.18	11.64	11.14
13	11.16	11.23	10.86	13.22	14.12	e12.21	11.28	24.95	12.86	13.67	11.70	11.15
14	11.11	11.14	10.69	13.33	e13.41	e12.34	11.03	24.37	12.81	13.30	11.61	11.13
15	11.06	11.09	10.89	13.28	e13.13	e12.45	10.88	23.87	12.78	13.14	11.50	11.11
16	11.04	11.06	11.33	13.53	e12.96	e12.39	10.82	23.48	12.75	13.07	11.45	11.00
17	11.01	11.07	11.57	14.39	e12.93	e12.50	10.76	22.87	12.76	12.96	11.45	10.86
18	11.00	11.02	11.42	14.78	e12.88	e12.77	10.72	21.89	12.81	12.77	11.48	10.80
19	10.95	10.99	11.23	14.62	12.66	e12.87	10.87	20.29	12.59	12.53	11.50	10.81
20	10.91	10.99	11.32	14.30	12.61	e12.82	13.10	18.82	12.42	12.34	11.47	10.75
21	10.88	11.02	11.60	13.99	12.57	e12.65	15.73	18.65	12.35	12.23	11.48	10.76
22	10.81	11.01	11.51	13.65	12.29	e12.48	e17.53	19.32	12.32	11.94	11.48	10.91
23	10.75	10.90	11.29	13.30	11.86	12.29	19.01	19.57	12.27	11.86	11.48	11.05
24	10.76	10.76	11.32	13.25	11.69	11.87	19.12	21.12	12.23	11.89	11.52	11.01
25	10.97	10.58	11.70	13.41	11.72	12.02	18.69	23.25	12.23	11.93	11.62	10.85
26	11.02	10.52	11.90	13.50	11.80	12.17	19.16	23.25	12.17	11.97	11.76	10.72
27	10.93	10.50	11.78	e13.28	11.75	11.90	21.31	22.63	12.13	11.94	11.77	10.64
28	11.00	10.51	11.69	e13.13	12.04	11.53	23.87	22.41	12.10	11.88	11.54	10.59
29	11.15	10.51	11.56	e13.14	---	11.43	25.35	21.58	12.07	11.83	11.39	10.58
30	11.13	10.51	11.66	e12.96	---	11.69	25.82	19.71	12.11	11.83	11.33	10.53
31	11.10	---	11.98	e12.91	---	11.94	---	18.04	---	11.80	11.32	---
Max	13.30	11.80	11.98	14.78	16.26	12.87	25.82	28.98	17.14	17.09	11.77	11.54
Min	10.75	10.50	10.43	12.33	11.69	11.42	10.72	18.04	12.07	11.80	11.32	10.53

Preview Only

Water-Data Report 2010

07344370 Red River at Spring Bank, AR

Red-Saline Basin
Mckinney-Posten Bayous Subbasin

LOCATION.--Lat 33°05′22″, long 93°51′34″ referenced to North American Datum of 1927, Miller County, AR, Hydrologic Unit 11140201, near right bank on downstream side of bridge on State highway 160, 0.1 mi downstream from Sulphur river, 4.5 mi upstream from Arkansas-Louisiana State line, and 2.5 mi east of intersection of U.S. Highway 71 and State Highway 160 at Doddridge, AR.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1, 1995 to July 10, 1996 (daily observer record). July 11, 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.44 ft above NAVD of 1988. Prior to July 11, 1998, observer record of daily readings only.

REMARKS.--Records fair. Satellite telemetry at station.

Preview Only

07344370 Red River at Spring Bank, AR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	26,200	109,000	29,100	45,200	54,600	45,400	48,200	14,700	18,300	6,840	14,200	4,240
2	26,400	103,000	29,600	42,900	61,600	44,300	44,500	13,100	15,200	7,040	14,200	3,200
3	24,900	96,700	29,700	41,600	58,600	43,700	39,200	12,300	11,700	6,950	13,800	2,800
4	29,700	90,100	29,600	40,300	50,900	43,400	32,600	12,200	9,450	6,910	13,700	2,580
5	37,000	83,900	28,900	38,700	50,400	42,400	30,900	13,900	8,350	7,620	12,500	2,430
6	41,500	79,700	27,600	37,200	58,100	39,600	29,700	12,800	7,500	8,560	11,200	2,350
7	42,100	76,800	27,100	36,200	63,600	37,100	29,100	10,600	8,110	8,250	9,510	2,290
8	40,300	74,800	27,400	35,400	61,300	35,100	29,400	8,770	8,490	9,170	7,510	2,340
9	41,200	72,300	27,200	34,400	62,000	32,700	29,600	7,760	7,870	10,700	6,890	2,750
10	49,800	70,300	27,100	33,300	69,600	30,300	28,500	7,410	7,420	11,200	6,580	2,890
11	61,500	68,300	27,800	31,900	83,500	32,600	26,600	7,260	9,380	12,000	6,410	2,750
12	73,500	66,200	28,400	29,900	93,100	37,000	25,800	7,000	12,400	11,900	6,400	2,530
13	86,700	61,900	28,000	29,100	90,000	41,100	24,400	6,700	14,700	12,600	6,280	2,690
14	102,000	55,400	27,000	29,200	76,500	44,300	22,100	6,290	15,200	17,200	6,190	3,740
15	110,000	50,100	25,600	27,900	66,700	44,300	20,600	6,080	14,500	19,800	6,110	6,570
16	110,000	46,200	24,300	27,000	64,100	40,600	18,900	6,080	13,200	19,400	6,040	7,040
17	110,000	43,400	23,500	27,400	61,100	36,200	17,600	6,400	12,600	18,000	5,940	6,170
18	109,000	41,700	22,900	27,700	57,500	33,200	16,000	7,320	11,800	17,100	6,000	6,550
19	104,000	41,000	22,100	27,200	56,600	30,100	14,600	9,570	9,470	16,600	5,940	7,160
20	94,500	40,200	20,900	27,100	55,600	28,000	13,400	12,200	7,950	15,900	5,550	7,490
21	83,000	38,600	20,300	27,700	54,000	26,100	12,500	18,300	7,610	15,300	4,540	7,550
22	74,900	37,600	19,500	28,500	51,300	25,000	11,900	21,100	7,880	14,800	3,930	7,260
23	74,000	37,800	19,800	29,100	47,900	24,900	11,400	21,700	8,480	14,400	4,400	6,830
24	79,700	36,000	27,900	31,900	45,200	27,400	12,100	22,900	8,230	14,100	5,280	6,640
25	86,200	33,800	47,400	36,500	44,400	31,000	14,700	25,500	7,710	13,900	5,600	6,550
26	89,800	32,100	58,300	38,400	47,900	33,100	17,000	27,300	7,420	13,800	5,690	6,890
27	94,300	30,700	62,000	38,800	50,600	40,000	17,500	26,700	7,210	13,700	5,490	6,900
28	97,500	29,200	65,100	37,900	48,500	48,300	18,800	24,900	7,040	13,500	4,320	6,690
29	99,800	27,500	63,400	37,600	---	53,000	18,100	24,300	7,010	13,800	3,360	6,490
30	105,000	27,800	56,300	39,100	---	54,300	16,700	23,700	6,920	14,100	3,640	5,910
31	109,000	---	49,000	43,200	---	52,500	---	21,500	---	14,200	4,730	---
Total	2,313,500	1,702,100	1,022,800	1,058,300	1,685,200	1,177,000	692,400	446,340	299,100	399,340	221,930	148,270
Mean	74,630	56,740	32,990	34,140	60,190	37,970	23,080	14,400	9,970	12,880	7,159	4,942
Max	110,000	109,000	65,100	45,200	93,100	54,300	48,200	27,300	18,300	19,800	14,200	7,550
Min	24,900	27,500	19,500	27,000	44,400	24,900	11,400	6,080	6,920	6,840	3,360	2,290
Ac-ft	4,589,000	3,376,000	2,029,000	2,099,000	3,343,000	2,335,000	1,373,000	885,300	593,300	792,100	440,200	294,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2010, BY WATER YEAR (WY)

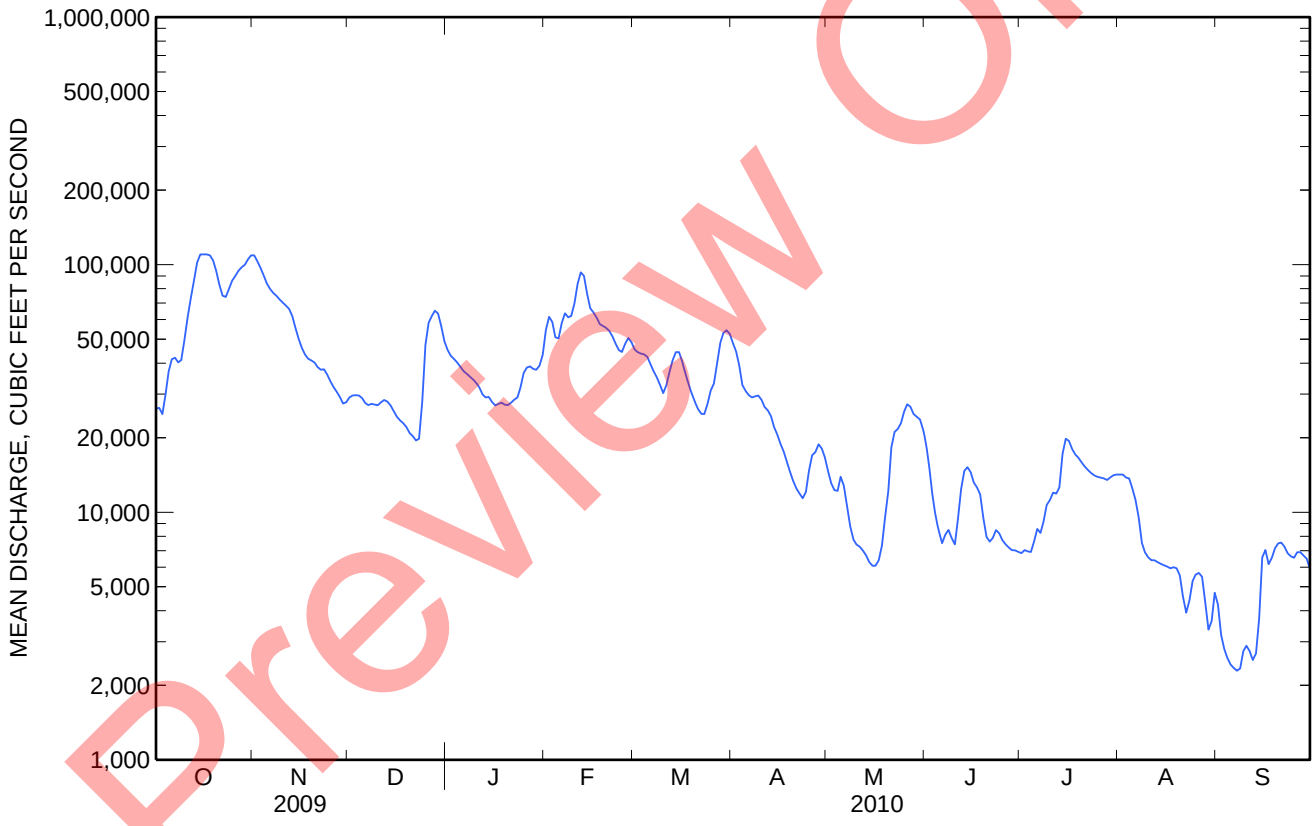
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	12,380	12,830	19,530	29,780	26,980	33,290	30,380	26,600	19,760	15,870	10,610	8,227
Max	74,630	56,740	48,070	87,290	60,190	106,200	104,700	100,400	56,740	90,120	61,390	26,750
(WY)	(2010)	(2010)	(2002)	(1998)	(2010)	(2001)	(2002)	(2009)	(2009)	(2007)	(2007)	(2007)
Min	2,518	1,900	1,479	2,102	3,043	6,089	5,739	4,267	3,276	2,644	2,465	1,566
(WY)	(2000)	(2006)	(2006)	(2006)	(2006)	(2007)	(2003)	(2005)	(2006)	(2006)	(2006)	(2006)

Preview Only

07344370 Red River at Spring Bank, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1998 - 2010	
Annual total	12,463,830		11,166,280			
Annual mean	34,150		30,590		20,500	
Highest annual mean					34,790	2001
Lowest annual mean					4,766	2006
Highest daily mean	127,000	May 15	110,000	Oct 15	138,000	Mar 14, 2001
Lowest daily mean	3,440	Mar 10	2,290	Sep 7	1,100	Oct 11, 2006
Annual seven-day minimum	3,900	Jan 20	2,510	Sep 3	1,250	Jan 5, 2006
Maximum peak flow			112,000	Oct 15	140,000	Mar 14, 2001
Maximum peak stage			33.88	Oct 15	34.96	May 23, 2009
Instantaneous low flow			2,250	Sep 7	1,070	Oct 11, 2006
Annual runoff (ac-ft)	24,720,000		22,150,000		14,850,000	
10 percent exceeds	95,000		67,300		53,900	
50 percent exceeds	18,900		26,100		9,640	
90 percent exceeds	5,270		6,240		2,970	



Preview Only

07344370 Red River at Spring Bank, AR—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	21.44	33.59	21.43	25.24	26.80	25.30	25.80	17.17	18.34	13.96	16.98	12.55
2	21.49	32.94	21.57	24.74	27.84	25.06	25.10	16.58	17.34	14.06	16.97	11.88
3	21.16	32.24	21.61	24.45	27.42	24.92	23.89	16.27	16.07	14.01	16.86	11.61
4	22.18	31.48	21.57	24.15	26.24	24.86	22.33	16.24	15.14	13.99	16.80	11.44
5	23.69	30.76	21.40	23.79	26.17	24.62	21.90	16.89	14.67	14.33	16.38	11.34
6	24.51	30.25	21.04	23.43	27.34	23.97	21.59	16.47	14.28	14.76	15.85	11.27
7	24.61	29.88	20.92	23.19	28.13	23.41	21.45	15.61	14.56	14.62	15.17	11.22
8	24.30	29.62	21.01	23.02	27.80	22.94	21.53	14.85	14.73	15.02	14.28	11.26
9	24.45	29.31	20.95	22.76	27.91	22.35	21.57	14.39	14.45	15.66	13.98	11.57
10	25.92	29.04	20.92	22.50	28.95	21.74	21.28	14.23	14.24	15.85	13.83	11.67
11	27.71	28.78	21.09	22.16	30.70	22.32	20.79	14.16	15.10	16.17	13.75	11.57
12	29.38	28.49	21.27	21.65	31.83	23.39	20.56	14.04	16.33	16.13	13.74	11.41
13	31.05	27.89	21.14	21.44	31.47	24.31	20.18	13.89	17.15	16.39	13.68	11.52
14	32.87	26.94	20.88	21.47	29.83	25.06	19.53	13.68	17.33	18.00	13.63	12.23
15	33.72	26.11	20.50	21.14	28.55	25.06	19.08	13.58	17.10	18.83	13.59	13.82
16	33.73	25.44	20.16	20.89	28.20	24.22	18.54	13.58	16.61	18.71	13.56	14.06
17	33.69	24.85	19.93	21.00	27.78	23.20	18.12	13.74	16.39	18.28	13.51	13.62
18	33.62	24.45	19.75	21.08	27.25	22.48	17.60	14.19	16.08	17.98	13.54	13.81
19	33.08	24.29	19.52	20.94	27.11	21.69	17.13	15.20	15.15	17.79	13.51	14.11
20	31.98	24.13	19.16	20.91	26.97	21.17	16.69	16.24	14.48	17.59	13.30	14.27
21	30.60	23.77	18.97	21.09	26.73	20.63	16.37	18.35	14.33	17.37	12.73	14.30
22	29.57	23.52	18.74	21.29	26.30	20.33	16.13	19.21	14.45	17.18	12.37	14.16
23	29.45	23.57	18.82	21.43	25.75	20.32	15.93	19.39	14.73	17.06	12.65	13.95
24	30.19	23.15	21.10	22.14	25.25	21.00	16.19	19.76	14.61	16.96	13.15	13.86
25	31.00	22.62	25.56	23.26	25.07	21.94	17.16	20.48	14.37	16.86	13.33	13.82
26	31.43	22.19	27.37	23.71	25.75	22.46	17.93	20.98	14.24	16.84	13.37	13.99
27	31.96	21.84	27.90	23.81	26.19	24.08	18.09	20.80	14.14	16.80	13.27	13.99
28	32.33	21.47	28.34	23.59	25.84	25.81	18.51	20.30	14.06	16.74	12.60	13.88
29	32.59	21.02	28.10	23.53	---	26.57	18.30	20.14	14.04	16.85	12.00	13.78
30	33.15	21.10	27.07	23.86	---	26.77	17.84	19.98	14.00	16.95	12.18	13.49
31	33.65	---	25.94	24.79	---	26.49	---	19.33	---	16.97	12.85	---
Max	33.73	33.59	28.34	25.24	31.83	26.77	25.80	20.98	18.34	18.83	16.98	14.30
Min	21.16	21.02	18.74	20.89	25.07	20.32	15.93	13.58	14.00	13.96	12.00	11.22

Preview Only

Water-Data Report 2009

07344370 Red River at Spring Bank, AR

Red-Saline Basin
Mckinney-Posten Bayous Subbasin

LOCATION.--Lat 33°05′22″, long 93°51′34″ referenced to North American Datum of 1927, Miller County, AR, Hydrologic Unit 11140201, near right bank on downstream side of bridge on State highway 160, 0.1 mi downstream from Sulphur river, 4.5 mi upstream from Arkansas-Louisiana State line, and 2.5 mi east of intersection of U.S. Highway 71 and State Highway 160 at Doddridge, AR.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1, 1995 to July 10, 1996 (daily observer record). July 11, 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.44 ft above NAVD of 1988. Prior to July 11, 1998, observer record of daily readings only.

REMARKS.--Records fair. Satellite telemetry at station.

Preview Only

07344370 Red River at Spring Bank, AR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10,700	2,510	2,720	e6,880	e8,780	4,640	16,300	8,040	95,800	17,500	18,400	5,300
2	8,330	2,430	2,710	e8,280	e8,340	4,210	15,300	12,000	93,100	16,800	17,800	6,130
3	6,910	2,390	2,660	e8,700	8,680	4,350	14,700	37,800	90,500	15,500	16,900	6,530
4	6,010	2,350	2,740	8,540	9,530	5,000	15,900	70,000	89,100	13,700	18,900	6,530
5	5,120	2,360	2,830	8,590	e9,110	5,280	17,000	87,400	88,300	12,700	24,000	5,820
6	5,240	2,330	2,740	e8,910	8,630	5,250	17,200	92,100	87,000	12,600	24,400	5,000
7	6,920	2,310	2,660	e8,350	7,310	4,710	15,800	89,900	84,500	11,800	21,900	4,990
8	10,600	2,310	2,630	8,410	5,620	4,100	11,500	90,600	81,500	10,700	19,700	5,360
9	14,100	2,350	2,590	e8,340	4,850	3,670	9,600	94,000	77,400	9,860	17,900	4,660
10	16,700	2,250	2,980	e7,830	5,150	3,440	7,720	99,800	74,500	9,010	16,600	4,020
11	14,800	2,330	5,050	e7,590	5,700	3,460	6,470	111,000	72,800	7,900	15,900	3,700
12	11,100	3,000	6,330	e7,100	5,940	4,320	5,740	120,000	67,600	6,810	16,700	3,520
13	9,470	4,040	5,770	e6,880	6,060	7,220	5,970	124,000	61,100	6,010	17,800	3,570
14	9,070	6,160	5,140	e7,800	6,100	14,200	6,570	126,000	55,700	6,420	19,000	3,800
15	8,900	6,410	4,450	e7,240	e6,350	22,600	8,410	127,000	53,700	9,210	18,600	7,170
16	8,380	5,990	4,040	e6,910	e6,400	27,000	15,500	125,000	53,500	9,380	16,000	9,950
17	8,360	5,670	4,140	e6,080	e6,950	28,200	22,700	124,000	54,700	9,110	15,400	15,100
18	8,640	5,220	4,070	4,480	e8,470	28,700	23,600	123,000	55,100	8,970	17,200	19,700
19	8,720	3,810	4,140	e3,820	e10,900	27,700	24,100	121,000	54,500	9,310	17,400	23,400
20	8,230	3,240	4,460	e3,670	e11,400	26,600	26,000	119,000	49,800	8,800	14,100	33,900
21	7,580	3,110	4,530	e3,960	10,700	25,400	29,100	119,000	41,400	8,690	10,600	38,100
22	5,830	3,060	4,410	e4,130	10,100	24,000	28,400	119,000	36,600	8,510	7,580	37,000
23	4,990	2,910	4,670	e4,030	10,200	18,900	22,900	121,000	32,500	8,060	5,930	37,100
24	4,750	2,730	7,780	e3,880	9,990	14,300	20,600	120,000	29,800	7,510	6,310	39,200
25	4,450	3,130	8,580	e3,870	7,660	13,500	18,300	117,000	26,500	6,560	7,550	42,600
26	3,660	2,980	6,530	3,750	7,090	14,000	16,800	112,000	21,800	4,970	7,260	44,100
27	3,340	2,660	5,770	4,220	6,770	15,100	15,300	106,000	18,900	4,300	6,880	41,500
28	3,280	2,560	5,690	5,450	5,520	15,600	13,200	102,000	18,300	6,430	6,330	36,500
29	3,330	2,690	6,010	e6,620	---	16,500	10,800	98,800	18,200	9,520	5,170	32,500
30	2,990	2,730	6,240	e8,240	---	15,300	8,280	98,000	17,900	13,200	4,080	28,800
31	2,670	---	e6,450	e9,140	---	14,900	---	97,800	---	17,500	4,010	---
Total	233,170	98,020	141,510	201,690	218,300	422,150	469,760	3,112,240	1,702,100	307,340	436,300	555,550
Mean	7,522	3,267	4,565	6,506	7,796	13,620	15,660	100,400	56,740	9,914	14,070	18,520
Max	16,700	6,410	8,580	9,140	11,400	28,700	29,100	127,000	95,800	17,500	24,400	44,100
Min	2,670	2,250	2,590	3,670	4,850	3,440	5,740	8,040	17,900	4,300	4,010	3,520
Ac-ft	462,500	194,400	280,700	400,100	433,000	837,300	931,800	6,173,000	3,376,000	609,600	865,400	1,102,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2009, BY WATER YEAR (WY)

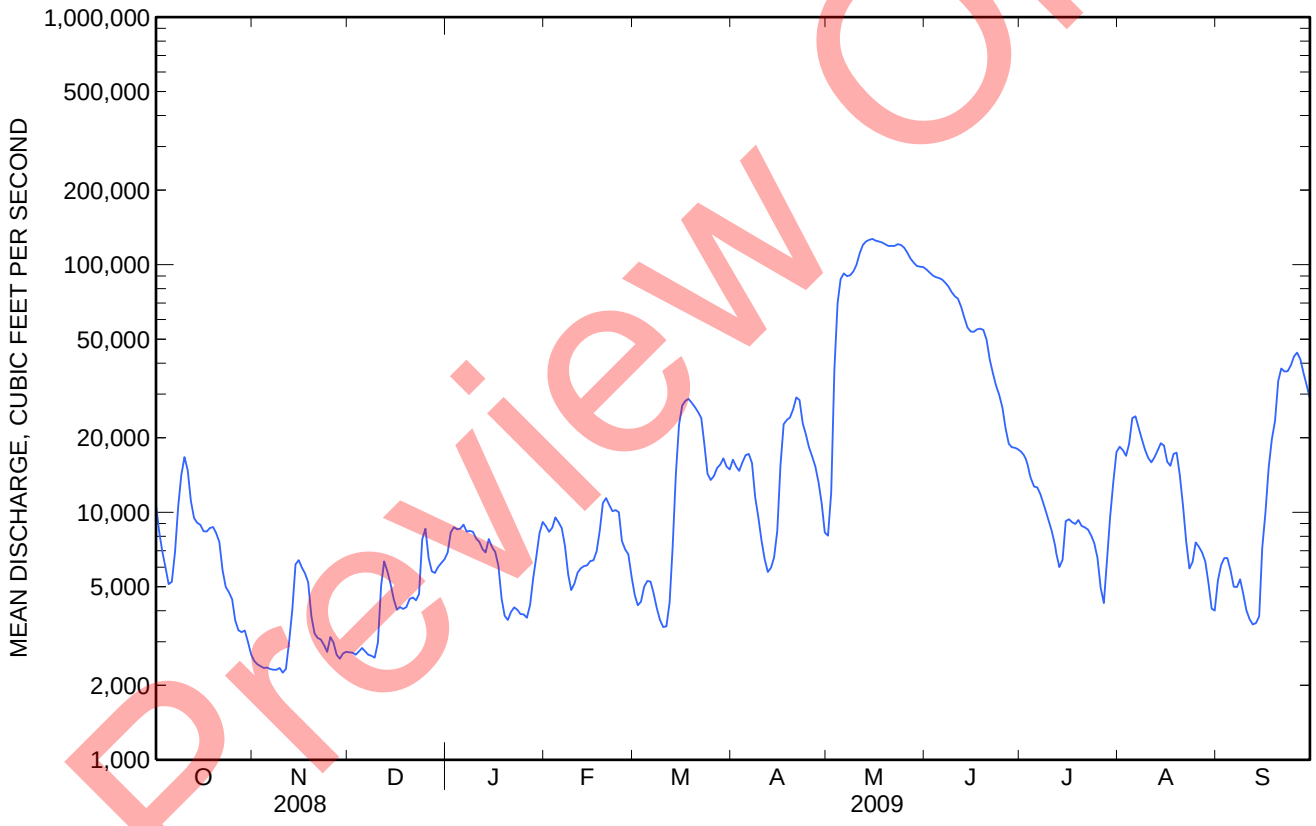
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,189	9,168	18,410	29,420	24,230	32,900	30,980	27,620	20,580	16,120	10,900	8,500
Max	20,320	34,920	48,070	87,290	56,960	106,200	104,700	100,400	56,740	90,120	61,390	26,750
(WY)	(2002)	(2001)	(2002)	(1998)	(2001)	(2001)	(2002)	(2009)	(2009)	(2007)	(2007)	(2007)
Min	2,518	1,900	1,479	2,102	3,043	6,089	5,739	4,267	3,276	2,644	2,465	1,566
(WY)	(2000)	(2006)	(2006)	(2006)	(2006)	(2007)	(2003)	(2005)	(2006)	(2006)	(2006)	(2006)

Preview Only

07344370 Red River at Spring Bank, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1998 - 2009	
Annual total	8,353,560		7,898,130			
Annual mean	22,820		21,640		19,660	
Highest annual mean					34,790	2001
Lowest annual mean					4,766	2006
Highest daily mean	103,000	Apr 12	127,000	May 15	138,000	Mar 14, 2001
Lowest daily mean	2,250	Nov 10	2,250	Nov 10	1,100	Oct 11, 2006
Annual seven-day minimum	2,320	Nov 5	2,320	Nov 5	1,250	Jan 5, 2006
Maximum peak flow			128,000	May 15	140,000	Mar 14, 2001
Maximum peak stage			34.96	May 23	34.96	May 23, 2009
Instantaneous low flow			2,190	Nov 11	1,070	Oct 11, 2006
Annual runoff (ac-ft)	16,570,000		15,670,000		14,240,000	
10 percent exceeds	74,500		75,700		51,900	
50 percent exceeds	7,910		8,590		8,910	
90 percent exceeds	3,320		3,310		2,910	



Preview Only

07344370 Red River at Spring Bank, AR—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16.49	12.05	12.08	e14.49	e15.27	13.25	18.21	14.93	32.14	19.18	19.45	14.22
2	15.49	11.98	12.07	e15.14	e15.06	12.99	17.87	16.45	31.82	18.97	19.28	14.69
3	14.83	11.95	12.03	e15.33	15.22	13.08	17.68	22.71	31.52	18.55	19.01	14.90
4	14.37	11.92	12.10	15.26	15.61	13.45	18.08	27.88	31.35	17.93	19.59	14.90
5	13.87	11.93	12.17	15.29	e15.42	13.60	18.45	30.14	31.25	17.56	20.95	14.52
6	13.94	11.90	12.10	e15.43	15.20	13.59	18.51	30.70	31.10	17.52	21.03	14.05
7	14.81	11.89	12.04	e15.17	14.60	13.29	18.03	30.45	30.79	17.25	20.42	14.04
8	16.40	11.88	12.01	15.20	13.78	12.93	16.44	30.53	30.42	16.80	19.85	14.26
9	17.70	11.91	11.97	e15.17	13.37	12.65	15.64	30.92	29.89	16.45	19.32	13.84
10	18.57	11.83	12.26	e14.92	13.53	12.51	14.78	31.59	29.52	16.09	18.89	13.43
11	17.96	11.88	13.56	e14.82	13.82	12.52	14.21	32.79	29.29	15.58	18.68	13.21
12	16.61	12.38	14.23	e14.59	13.95	13.05	13.84	33.75	28.59	15.04	18.92	13.08
13	15.95	13.06	13.93	e14.49	14.01	14.55	13.96	34.25	27.65	14.63	19.26	13.12
14	15.79	14.24	13.60	e14.91	14.02	17.42	14.25	34.55	26.85	14.83	19.63	13.27
15	15.71	14.36	13.19	e14.66	e14.15	20.16	15.09	34.74	26.55	16.17	19.53	15.21
16	15.47	14.15	12.95	e14.50	e14.18	21.36	17.90	34.63	26.52	16.25	18.72	16.48
17	15.47	13.98	13.01	e14.09	e14.43	21.66	20.18	34.69	26.69	16.13	18.51	18.39
18	15.59	13.72	12.97	13.21	e15.13	21.80	20.44	34.71	26.76	16.07	19.08	19.84
19	15.62	12.86	13.01	e12.80	e16.21	21.56	20.59	34.54	26.67	16.22	19.14	20.79
20	15.41	12.47	13.20	e12.71	e16.38	21.27	21.11	34.48	25.91	15.99	18.06	23.07
21	15.10	12.38	13.24	e12.89	16.12	20.94	21.89	34.53	24.49	15.94	16.77	23.89
22	14.21	12.34	13.17	e13.01	15.87	20.56	21.71	34.69	23.60	15.86	15.42	23.69
23	13.74	12.22	13.32	e12.94	15.92	19.03	20.24	34.88	22.81	15.65	14.58	23.70
24	13.60	12.09	14.91	e12.85	15.81	17.51	19.57	34.75	22.23	15.39	14.78	24.09
25	13.41	12.39	15.28	e12.84	14.76	17.24	18.88	34.45	21.52	14.91	15.41	24.71
26	12.91	12.28	14.32	12.76	14.50	17.41	18.39	33.92	20.41	14.02	15.27	24.96
27	12.69	12.03	13.93	13.04	14.35	17.79	17.87	33.29	19.61	13.62	15.08	24.51
28	12.64	11.96	13.89	13.73	13.73	17.97	17.09	32.80	19.43	14.80	14.79	23.59
29	12.68	12.05	14.06	e14.31	---	18.27	16.16	32.47	19.41	16.30	14.15	22.80
30	12.43	12.09	14.18	e15.04	---	17.89	15.04	32.39	19.30	17.73	13.46	22.03
31	12.18	---	e14.28	e15.44	---	17.73	---	32.37	---	19.18	13.42	---
Max	18.57	14.36	15.28	15.44	16.38	21.80	21.89	34.88	32.14	19.18	21.03	24.96
Min	12.18	11.83	11.97	12.71	13.37	12.51	13.84	14.93	19.30	13.62	13.42	13.08

Preview Only

Water-Data Report 2008

07344370 Red River at Spring Bank, AR

Red-Saline Basin
Mckinney-Posten Bayous Subbasin

LOCATION.--Lat 33°04′50″, long 93°51′42″ referenced to North American Datum of 1927, Miller County, AR, Hydrologic Unit 11140201, near right bank on downstream side of bridge on State highway 160, 0.1 mi downstream from Sulphur river, 4.5 mi upstream from Arkansas-Louisiana State line, and 2.5 mi east of intersection of U.S. Highway 71 and State Highway 160 at Doddridge, AR.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1, 1995 to July 10, 1996 (daily observer record). July 11, 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.44 ft above NAVD of 1988. Prior to July 11, 1998, observer record of daily readings only.

REMARKS.--Records fair. Satellite telemetry at station.

Preview Only

07344370 Red River at Spring Bank, AR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12,500	4,460	e12,000	8,570	9,370	36,100	71,200	73,500	22,000	7,570	4,800	6,210
2	12,100	4,870	e10,800	7,940	8,800	35,300	74,600	74,600	20,800	7,350	4,710	6,120
3	11,500	5,000	e9,320	7,900	7,390	35,200	79,400	71,600	18,100	7,490	4,590	6,580
4	11,400	4,480	e7,790	7,900	5,860	35,900	83,600	68,100	16,400	7,830	4,540	9,710
5	11,600	4,330	e6,830	7,850	5,460	38,600	87,000	63,700	14,500	8,450	4,540	17,700
6	11,300	4,530	6,070	7,510	e6,130	49,800	92,400	59,100	12,200	8,290	4,570	20,700
7	9,640	4,610	5,270	7,420	e6,630	63,700	97,200	56,100	10,200	7,840	4,650	18,600
8	8,290	4,380	5,260	7,060	e6,800	72,200	97,400	52,300	8,070	7,510	5,110	16,900
9	7,860	4,810	4,900	6,960	e7,160	74,400	93,800	48,000	7,060	6,970	4,670	16,500
10	7,440	5,060	4,950	e7,630	8,220	70,300	95,400	46,100	7,630	6,840	4,050	16,200
11	7,260	4,710	5,120	e8,350	7,920	66,400	101,000	41,700	7,570	6,730	3,920	15,700
12	6,880	4,460	4,640	e8,050	7,760	64,100	103,000	33,700	7,630	6,590	4,560	15,000
13	6,460	4,750	5,110	e7,100	9,020	58,900	99,800	32,500	7,460	6,310	5,110	13,200
14	6,520	4,910	5,610	6,140	e12,200	55,400	97,600	34,300	7,050	6,240	6,450	9,990
15	6,980	4,550	5,560	6,040	e15,100	54,700	96,500	36,700	6,610	6,210	8,930	10,500
16	6,910	4,330	6,780	5,920	e15,800	53,100	93,300	40,900	7,580	5,980	8,680	12,400
17	6,730	4,340	9,650	5,090	e19,200	50,200	90,000	46,400	10,900	5,810	6,820	14,200
18	6,450	3,960	12,700	5,170	24,000	49,300	87,300	45,200	17,500	5,810	6,330	17,500
19	7,330	3,610	16,600	5,570	35,700	50,400	85,300	40,900	22,200	5,800	7,020	18,200
20	9,690	3,540	17,200	6,040	49,400	56,000	80,900	38,000	22,200	5,760	7,510	14,900
21	12,700	3,800	16,800	6,070	55,400	78,800	78,400	34,100	20,700	5,700	6,980	8,040
22	11,700	3,850	17,100	5,110	51,900	93,500	80,100	30,000	19,200	5,510	6,870	6,490
23	9,720	4,280	16,800	4,640	44,200	101,000	82,900	27,800	19,300	5,310	6,580	10,600
24	8,730	4,470	15,600	4,800	39,400	100,000	83,400	24,800	17,700	5,200	6,090	17,800
25	7,600	4,280	14,300	4,800	37,900	91,500	81,600	23,500	13,600	5,080	5,690	18,000
26	6,990	4,160	13,200	5,170	37,900	86,500	78,300	22,800	10,700	5,030	5,950	13,400
27	6,310	6,710	12,500	6,500	38,700	87,100	73,700	21,500	9,880	5,010	7,120	7,320
28	6,070	12,800	11,500	7,280	38,400	87,400	71,100	21,100	9,060	4,980	7,870	5,370
29	5,380	12,400	10,100	e8,810	37,300	83,200	69,500	20,200	7,990	4,920	7,330	4,960
30	4,650	e12,000	10,000	e9,930	---	77,100	70,700	20,100	7,800	4,830	6,750	6,380
31	4,530	---	9,540	9,640	---	72,500	---	20,800	---	4,800	6,480	---
Total	259,220	158,440	309,600	212,960	649,020	2,028,600	2,576,400	1,270,100	389,590	193,750	185,270	375,170
Mean	8,362	5,281	9,987	6,870	22,380	65,440	85,880	40,970	12,990	6,250	5,976	12,510
Max	12,700	12,800	17,200	9,930	55,400	101,000	103,000	74,600	22,200	8,450	8,930	20,700
Min	4,530	3,540	4,640	4,640	5,460	35,200	69,500	20,100	6,610	4,800	3,920	4,960
Ac-ft	514,200	314,300	614,100	422,400	1,287,000	4,024,000	5,110,000	2,519,000	772,800	384,300	367,500	744,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,159	9,704	19,670	31,500	25,710	34,650	32,380	21,000	17,290	16,680	10,610	7,589
Max	20,320	34,920	48,070	87,290	56,960	106,200	104,700	40,970	47,850	90,120	61,390	26,750
(WY)	(2002)	(2001)	(2002)	(1998)	(2001)	(2001)	(2002)	(2008)	(2007)	(2007)	(2007)	(2007)
Min	2,518	1,900	1,479	2,102	3,043	6,089	5,739	4,267	3,276	2,644	2,465	1,566
(WY)	(2000)	(2006)	(2006)	(2006)	(2006)	(2007)	(2003)	(2005)	(2006)	(2006)	(2006)	(2006)

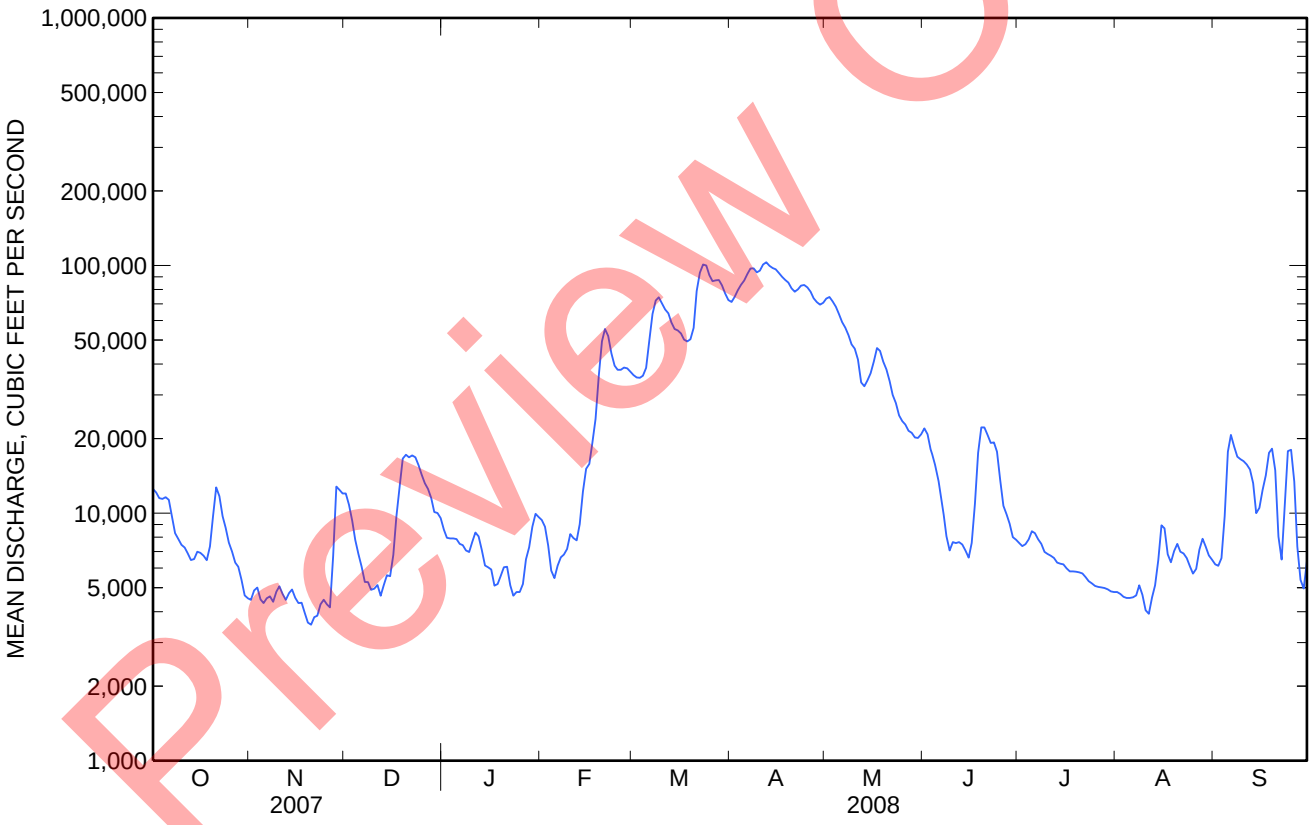
Preview Only

07344370 Red River at Spring Bank, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1998 - 2008	
Annual total	11,672,450		8,608,120			
Annual mean	31,980		23,520		19,480	
Highest annual mean					34,790	2001
Lowest annual mean					4,766	2006
Highest daily mean	103,000	Jul 17	103,000	Apr 12	138,000	Mar 14, 2001
Lowest daily mean	3,540	Nov 20	3,540	Nov 20	1,100	Oct 11, 2006
Annual seven-day minimum	3,910	Nov 17	3,910	Nov 17	1,250	Jan 5, 2006
Maximum peak flow			[a]103,000	Mar 23	140,000	Mar 14, 2001
Maximum peak stage			33.02	Apr 12	34.05	Jan 12, 1998
Instantaneous low flow			3,490	Nov 20	1,070	Oct 11, 2006
Annual runoff (ac-ft)	23,150,000		17,070,000		14,110,000	
10 percent exceeds	76,800		74,500		51,200	
50 percent exceeds	19,700		9,040		9,020	
90 percent exceeds	4,850		4,800		2,880	

[a] Also occurred on April 11



Preview Only

07344370 Red River at Spring Bank, AR—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17.30	13.64	e17.11	15.74	16.08	22.86	28.79	29.38	20.12	15.15	13.69	14.47
2	17.13	13.89	e16.63	15.46	15.84	22.71	29.28	29.54	19.82	15.04	13.63	14.43
3	16.94	13.96	e16.06	15.44	15.20	22.68	29.94	29.12	19.05	15.11	13.56	14.66
4	16.90	13.65	e15.39	15.44	14.43	22.84	30.50	28.62	18.55	15.27	13.53	16.06
5	16.96	13.56	e14.93	15.42	14.21	23.37	30.95	27.98	17.93	15.56	13.53	18.89
6	16.85	13.68	14.55	15.26	e14.49	25.42	31.64	27.27	17.14	15.48	13.55	19.81
7	16.19	13.73	14.12	15.22	e14.66	27.68	32.25	26.80	16.41	15.28	13.60	19.19
8	15.61	13.59	14.11	15.05	e14.66	28.94	32.28	26.17	15.50	15.12	13.87	18.66
9	15.42	13.85	13.91	14.99	e14.75	29.25	31.82	25.44	15.04	14.86	13.60	18.53
10	15.22	14.00	13.93	e15.31	15.14	28.66	32.03	25.10	15.31	14.80	13.22	18.44
11	15.14	13.79	14.03	e15.64	14.96	28.10	32.70	24.29	15.29	14.75	13.14	18.30
12	14.96	13.64	13.75	e15.51	14.89	27.75	32.93	22.70	15.32	14.67	13.54	18.05
13	14.75	13.81	14.02	e15.06	15.44	26.94	32.59	22.44	15.24	14.53	13.86	17.43
14	14.78	13.91	14.30	14.59	e16.67	26.37	32.34	22.84	15.04	14.49	14.59	16.21
15	15.01	13.70	14.27	14.53	e17.68	26.26	32.21	23.36	14.82	14.47	15.77	16.43
16	14.97	13.56	14.90	14.47	e17.87	25.99	31.82	24.21	15.26	14.35	15.65	17.15
17	14.88	13.56	16.19	14.01	e18.90	25.50	31.41	25.25	16.62	14.26	14.78	17.77
18	14.74	13.32	17.34	14.06	20.16	25.35	31.08	25.04	18.85	14.26	14.53	18.87
19	15.17	13.09	18.65	14.28	22.79	25.54	30.82	24.24	20.23	14.26	14.88	19.08
20	16.20	13.04	18.84	14.53	25.37	26.46	30.26	23.67	20.22	14.24	15.12	17.99
21	17.36	13.22	18.73	14.55	26.37	29.84	29.93	22.88	19.80	14.20	14.87	15.35
22	16.98	13.26	18.82	14.02	25.78	31.79	30.17	21.98	19.38	14.09	14.81	14.61
23	16.22	13.53	18.71	13.75	24.44	32.68	30.56	21.49	19.40	13.98	14.67	16.40
24	15.80	13.64	18.34	13.85	23.52	32.60	30.64	20.78	18.92	13.92	14.41	18.95
25	15.30	13.53	17.90	13.85	23.23	31.53	30.41	20.44	17.56	13.85	14.20	19.00
26	15.01	13.45	17.54	14.06	23.22	30.88	29.97	20.28	16.51	13.82	14.33	17.49
27	14.67	14.79	17.29	14.77	23.40	30.96	29.35	19.94	16.17	13.81	14.93	15.01
28	14.55	17.41	16.94	15.15	23.33	31.00	28.99	19.84	15.82	13.79	15.29	14.02
29	14.18	17.26	16.39	e15.84	23.11	30.45	28.77	19.61	15.35	13.75	15.03	13.78
30	13.76	e17.11	16.34	e16.31	---	29.62	28.95	19.58	15.26	13.70	14.75	14.54
31	13.68	---	16.15	16.19	---	28.98	---	19.79	---	13.68	14.61	---
Max	17.36	17.41	18.84	16.31	26.37	32.68	32.93	29.54	20.23	15.56	15.77	19.81
Min	13.68	13.04	13.75	13.75	14.21	22.68	28.77	19.58	14.82	13.68	13.14	13.78

Preview Only

Water-Data Report 2007

07344370 Red River at Spring Bank, AR

Red-Saline Basin
Mckinney-Posten Bayous Subbasin

LOCATION.--Lat 33°04′50″, long 93°51′42″ referenced to North American Datum of 1927, Miller County, AR, Hydrologic Unit 11140201, near right bank on downstream side of bridge on State highway 160, 0.1 mi downstream from Sulphur river, 4.5 mi upstream from Arkansas-Louisiana State line, and 2.5 mi east of intersection of U.S. Highway 71 and State Highway 160 at Doddridge, AR.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1, 1995 to July 10, 1996 (daily observer record). July 11, 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.44 ft above NAVD of 1988. Prior to July 11, 1998, observer record of daily readings only.

REMARKS.--Records fair. Satellite telemetry at station.

Preview Only

07344370 Red River at Spring Bank, AR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,530	6,440	6,340	18,400	46,100	11,200	7,010	49,200	23,300	73,700	78,200	48,800
2	1,520	6,280	5,830	24,300	44,100	11,800	7,360	50,300	38,800	77,100	76,900	48,000
3	1,440	4,440	5,090	33,000	41,500	10,400	8,030	45,700	49,400	77,400	76,900	46,800
4	1,350	3,640	4,880	38,500	39,400	8,030	10,500	41,100	55,000	75,100	79,800	45,000
5	1,270	3,230	7,530	41,900	37,600	7,610	10,700	37,600	55,000	76,700	83,500	44,100
6	1,220	3,040	17,400	44,400	34,100	7,470	12,100	35,800	51,900	82,600	82,900	43,800
7	1,270	3,100	21,300	46,500	31,900	7,350	16,300	38,000	49,600	88,100	75,000	43,400
8	1,400	4,650	19,800	45,500	28,700	7,260	18,900	39,600	47,000	89,700	67,200	40,600
9	1,400	7,810	17,200	43,400	25,900	6,940	22,600	38,100	44,100	88,900	64,200	38,600
10	1,230	11,900	16,900	41,500	23,300	6,080	25,400	35,600	40,600	88,500	63,300	37,400
11	1,100	13,100	18,400	40,600	20,900	5,120	23,600	35,300	38,900	90,100	63,000	34,300
12	1,250	14,500	20,000	37,800	19,300	4,940	19,700	40,700	40,600	91,600	62,600	32,000
13	1,540	15,900	20,300	35,400	16,800	5,430	16,300	51,900	42,400	92,600	62,100	28,200
14	1,580	16,500	19,200	40,300	13,600	6,780	14,400	55,200	41,900	93,300	61,800	24,400
15	1,500	17,300	17,400	50,000	12,600	6,880	13,800	52,400	42,900	96,500	61,400	21,800
16	1,400	15,800	16,600	63,700	13,100	6,610	13,500	50,800	43,400	101,000	61,000	20,000
17	1,440	11,900	15,800	75,800	13,000	5,610	13,500	49,900	42,600	103,000	59,800	19,500
18	1,550	9,120	15,000	80,800	12,800	4,990	14,100	44,200	42,700	101,000	58,100	18,700
19	1,620	7,280	13,300	80,700	13,600	4,680	14,100	39,200	41,200	101,000	56,800	17,800
20	1,780	6,630	10,100	75,700	14,200	4,630	12,000	37,600	38,500	102,000	56,300	16,900
21	2,780	6,860	9,450	71,300	13,400	4,480	9,340	36,800	36,700	102,000	55,000	16,300
22	4,250	7,210	9,830	67,900	12,200	4,720	9,000	34,500	40,800	101,000	53,000	15,400
23	5,220	7,410	9,440	65,200	12,300	5,060	10,100	31,200	53,100	99,500	51,400	14,900
24	5,330	7,260	7,290	e63,100	12,500	4,700	10,800	26,900	58,700	97,100	50,000	14,400
25	5,200	6,350	6,340	e61,800	12,900	4,310	11,000	23,300	58,000	95,600	49,200	13,200
26	4,970	5,700	6,060	e61,100	11,300	4,010	11,300	22,300	58,200	93,100	48,800	11,900
27	5,160	5,880	8,280	58,900	10,400	3,850	10,800	21,700	60,400	89,600	49,100	11,400
28	6,800	6,190	15,700	56,800	11,100	4,120	16,900	20,900	63,000	86,300	49,200	11,300
29	6,060	6,330	17,800	55,600	---	4,230	34,800	18,800	66,600	81,600	48,900	11,500
30	5,780	6,370	17,500	53,600	---	4,370	44,300	16,600	70,100	79,300	48,800	12,200
31	5,840	---	16,700	49,400	---	5,090	---	16,800	---	78,700	48,800	---
Total	85,780	248,120	412,760	1,622,900	598,600	188,750	462,240	1,138,000	1,435,400	2,793,700	1,903,000	802,600
Mean	2,767	8,271	13,310	52,350	21,380	6,089	15,410	36,710	47,850	90,120	61,390	26,750
Max	6,800	17,300	21,300	80,800	46,100	11,800	44,300	55,200	70,100	103,000	83,500	48,800
Min	1,100	3,040	4,880	18,400	10,400	3,850	7,010	16,600	23,300	73,700	48,800	11,300
Ac-ft	170,100	492,100	818,700	3,219,000	1,187,000	374,400	916,900	2,257,000	2,847,000	5,541,000	3,775,000	1,592,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2007, BY WATER YEAR (WY)

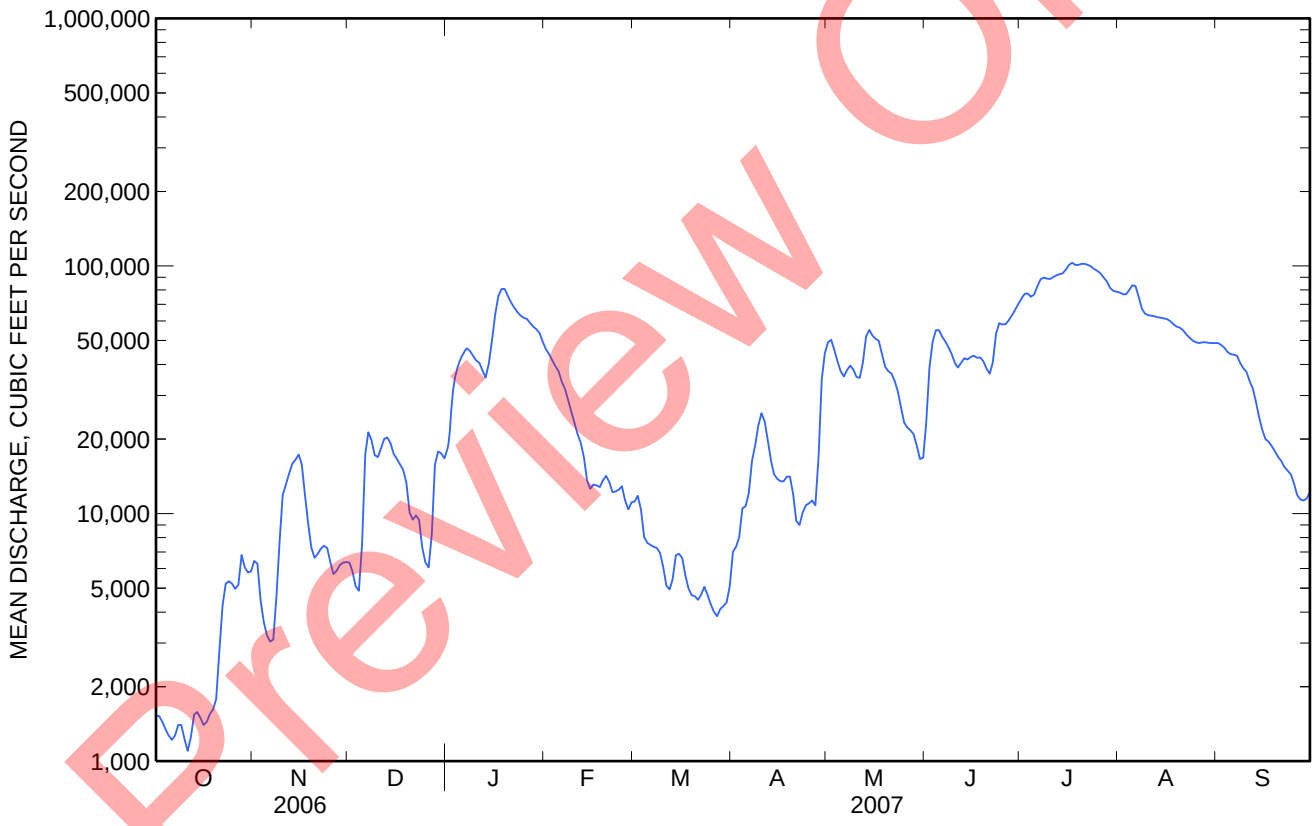
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,039	10,150	20,630	33,970	26,060	31,570	27,030	19,000	17,720	17,720	11,080	7,098
Max	20,320	34,920	48,070	87,290	56,960	106,200	104,700	36,710	47,850	90,120	61,390	26,750
(WY)	(2002)	(2001)	(2002)	(1998)	(2001)	(2001)	(2002)	(2007)	(2007)	(2007)	(2007)	(2007)
Min	2,518	1,900	1,479	2,102	3,043	6,089	5,739	4,267	3,276	2,644	2,465	1,566
(WY)	(2000)	(2006)	(2006)	(2006)	(2006)	(2007)	(2003)	(2005)	(2006)	(2006)	(2006)	(2006)

Preview Only

07344370 Red River at Spring Bank, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1998 - 2007	
Annual total	2,294,070		11,691,850			
Annual mean	6,285		32,030		19,070	
Highest annual mean					34,790	2001
Lowest annual mean					4,766	2006
Highest daily mean	42,200	Mar 24	103,000	Jul 17	138,000	Mar 14, 2001
Lowest daily mean	1,100	Oct 11	1,100	Oct 11	1,100	Oct 11, 2006
Annual seven-day minimum	1,250	Jan 5	1,270	Oct 6	1,250	Jan 5, 2006
Maximum peak flow			104,000	Jul 17	140,000	Mar 14, 2001
Maximum peak stage			33.91	Jul 17	34.05	Jan 12, 1998
Instantaneous low flow			1,070	Oct 11	1,070	Oct 11, 2006
Annual runoff (ac-ft)	4,550,000		23,190,000		13,820,000	
10 percent exceeds	17,400		76,800		49,400	
50 percent exceeds	3,320		20,300		9,010	
90 percent exceeds	1,440		4,670		2,760	



Preview Only

07344370 Red River at Spring Bank, AR—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11.51	14.47	14.42	19.08	25.46	16.63	14.76	26.02	20.42	29.92	30.56	25.96
2	11.50	14.38	14.14	20.70	25.10	16.83	14.93	26.22	24.05	30.41	30.38	25.81
3	11.41	13.33	13.72	22.85	24.61	16.27	15.25	25.39	26.06	30.45	30.38	25.60
4	11.31	12.82	13.60	24.01	24.19	15.25	16.30	24.52	27.03	30.12	30.78	25.27
5	11.22	12.54	14.95	24.68	23.82	15.06	16.42	23.83	27.03	30.35	31.29	25.09
6	11.17	12.39	18.74	25.15	23.10	14.99	16.94	23.45	26.49	31.16	31.21	25.05
7	11.22	12.44	19.93	25.53	22.60	14.93	18.42	23.91	26.10	31.90	30.10	24.97
8	11.36	13.46	19.49	25.36	21.85	14.88	19.23	24.24	25.64	32.11	28.96	24.42
9	11.37	15.13	18.72	24.96	21.15	14.73	20.28	23.94	25.09	32.01	28.50	24.03
10	11.17	16.88	18.62	24.60	20.48	14.28	21.04	23.43	24.42	31.95	28.36	23.79
11	11.02	17.33	19.08	24.43	19.80	13.74	20.55	23.35	24.09	32.16	28.32	23.15
12	11.16	17.82	19.54	23.88	19.35	13.64	19.46	24.43	24.43	32.35	28.26	22.63
13	11.46	18.30	19.64	23.38	18.57	13.92	18.41	26.49	24.78	32.49	28.18	21.76
14	11.46	18.48	19.32	24.35	17.51	14.64	17.79	27.07	24.68	32.57	28.13	20.83
15	11.34	18.74	18.77	26.17	17.14	14.70	17.57	26.59	24.87	32.98	28.08	20.15
16	11.19	18.25	18.50	28.42	17.34	14.56	17.45	26.31	24.96	33.54	28.01	19.65
17	11.20	16.86	18.25	30.23	17.27	14.02	17.45	26.15	24.81	33.78	27.82	19.52
18	11.28	15.74	17.98	30.92	17.21	13.67	17.67	25.10	24.83	33.50	27.54	19.30
19	11.31	14.89	17.38	30.91	17.49	13.49	17.66	24.15	24.55	33.50	27.32	19.01
20	11.44	14.56	16.17	30.21	17.70	13.45	16.91	23.83	24.01	33.62	27.25	18.76
21	12.25	14.69	15.89	29.58	17.45	13.36	15.84	23.65	23.64	33.60	27.03	18.57
22	13.25	14.86	16.05	29.07	16.98	13.51	15.69	23.18	24.45	33.59	26.69	18.29
23	13.80	14.96	15.88	28.66	17.04	13.71	16.15	22.44	26.70	33.35	26.41	18.12
24	13.86	14.89	14.90	e28.34	17.10	13.49	16.43	21.40	27.63	33.05	26.16	17.95
25	13.78	14.42	14.41	e28.14	17.24	13.26	16.52	20.48	27.52	32.86	26.03	17.54
26	13.65	14.07	14.26	e28.02	16.64	13.07	16.65	20.22	27.56	32.54	25.96	17.08
27	13.76	14.17	15.33	27.66	16.28	12.96	16.43	20.05	27.91	32.10	26.01	16.89
28	14.65	14.34	18.20	27.33	16.58	13.14	18.51	19.80	28.31	31.66	26.03	16.83
29	14.27	14.41	18.88	27.13	---	13.21	23.20	19.20	28.87	31.04	25.98	16.93
30	14.11	14.43	18.78	26.79	---	13.30	25.13	18.50	29.40	30.71	25.95	17.17
31	14.15	---	18.53	26.07	---	13.71	---	18.58	---	30.63	25.96	---
Max	14.65	18.74	19.93	30.92	25.46	16.83	25.13	27.07	29.40	33.78	31.29	25.96
Min	11.02	12.39	13.60	19.08	16.28	12.96	14.76	18.50	20.42	29.92	25.95	16.83

Preview Only

Water-Data Report 2006

07344370 Red River at Spring Bank, AR

Red-Saline Basin
Mckinney-Posten Bayous Subbasin

LOCATION.--Lat 33°04′50″, long 93°51′42″ referenced to North American Datum of 1927, in SW ¼ NW ¼ sec. 24, T. 19 S. R. 27 W., Miller County, AR, Hydrologic Unit 11140201, near right bank on downstream side of bridge on State highway 160, 0.1 mi downstream from Sulphur river, 4.5 mi upstream from Arkansas-Louisiana State line, and 2.5 mi east of intersection of U.S. Highway 71 and State Highway 160 at Doddridge, AR.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1, 1995 to July 10, 1996 daily observer record. July 11, 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.44 ft above NAVD of 1988. Prior to July 11, 1998, observer record of daily readings only.

REMARKS.--Records fair. Satellite telemetry at station.

Preview Only

07344370 Red River at Spring Bank, AR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,780	2,320	1,550	1,670	4,550	6,340	17,600	5,250	2,980	2,650	2,410	2,060
2	3,630	2,340	1,490	1,650	4,780	5,840	14,800	5,590	2,850	2,540	2,930	2,000
3	3,370	2,320	1,370	1,650	4,310	4,970	14,500	7,980	2,920	2,210	3,320	1,830
4	3,220	2,250	1,270	1,600	3,380	4,350	15,300	11,700	3,160	1,960	3,450	1,680
5	3,310	e2,180	1,210	1,470	2,940	3,590	19,000	17,300	2,970	1,830	3,370	1,710
6	3,390	e2,170	1,190	1,310	2,800	3,020	22,400	22,600	2,840	1,780	2,920	1,990
7	3,330	e2,140	1,170	1,210	2,680	2,570	20,800	23,600	3,320	1,700	2,360	2,220
8	3,260	2,100	1,230	1,170	2,480	2,280	14,800	21,900	3,840	1,670	2,140	2,050
9	3,160	1,970	1,430	1,150	2,330	2,260	11,000	20,300	4,090	1,620	2,580	1,830
10	2,930	1,760	1,580	1,150	2,230	2,480	9,220	19,600	4,060	1,570	2,960	1,610
11	2,870	1,580	1,610	1,280	2,420	2,790	7,950	18,900	3,940	1,590	3,120	1,440
12	3,030	1,460	1,570	1,480	2,640	2,940	6,090	20,600	3,840	1,960	3,190	1,400
13	3,130	1,400	1,450	1,490	2,390	2,920	4,950	25,800	3,800	2,360	2,790	1,330
14	3,230	1,360	1,300	1,570	2,200	2,760	4,560	30,000	3,750	3,030	2,240	1,320
15	3,320	1,320	1,260	1,600	2,320	2,600	4,370	30,700	3,560	3,390	1,940	1,310
16	3,240	1,680	1,420	1,620	2,670	2,400	4,010	28,900	3,510	3,040	2,080	1,320
17	2,950	2,370	1,530	1,590	2,810	2,290	3,790	26,200	3,640	2,440	2,320	1,340
18	2,710	2,260	1,580	1,610	2,780	2,390	3,790	22,800	3,550	2,150	2,440	1,500
19	2,570	1,950	1,600	1,520	2,600	3,750	3,980	16,900	3,490	2,860	2,470	1,490
20	2,460	1,740	1,490	1,360	2,390	8,910	4,130	10,600	3,350	3,400	2,310	1,400
21	2,350	2,190	1,360	1,220	2,370	20,400	4,990	e7,510	3,230	3,600	1,960	1,360
22	2,270	2,580	1,380	1,290	2,500	34,000	5,340	e6,280	3,140	3,520	1,750	1,380
23	2,200	2,290	1,560	1,790	2,590	41,300	5,350	5,610	3,070	2,970	1,870	1,370
24	2,160	1,960	1,630	2,720	2,660	42,200	5,090	5,060	3,030	2,300	2,240	1,410
25	2,240	1,710	1,670	3,580	2,990	37,900	4,860	4,310	2,830	2,210	2,460	1,410
26	2,560	1,510	1,680	4,390	3,980	32,600	3,850	3,880	2,730	2,990	2,560	1,390
27	2,750	1,450	1,640	4,560	4,870	29,300	3,560	3,580	2,750	3,670	2,470	1,360
28	2,650	1,440	1,640	4,320	5,540	27,000	4,210	3,380	2,730	4,280	2,250	1,400
29	2,530	1,590	1,690	4,160	---	24,400	4,480	3,200	2,710	4,320	1,880	1,510
30	2,420	1,620	1,660	4,030	---	22,100	4,700	3,160	2,600	3,620	1,730	1,550
31	2,350	---	1,650	3,960	---	21,000	---	3,110	---	2,740	1,890	---
Total	89,370	57,010	45,860	65,170	85,200	403,650	253,470	436,300	98,280	81,970	76,400	46,970
Mean	2,883	1,900	1,479	2,102	3,043	13,020	8,449	14,070	3,276	2,644	2,465	1,566
Max	3,780	2,580	1,690	4,560	5,540	42,200	22,400	30,700	4,090	4,320	3,450	2,220
Min	2,160	1,320	1,170	1,150	2,200	2,260	3,560	3,110	2,600	1,570	1,730	1,310
Ac-ft	177,300	113,100	90,960	129,300	169,000	800,600	502,800	865,400	194,900	162,600	151,500	93,160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,513	10,360	21,450	31,930	26,570	34,400	28,320	17,040	14,370	9,681	5,485	4,914
Max	20,320	34,920	48,070	87,290	56,960	106,200	104,700	31,490	31,770	18,390	7,257	9,104
(WY)	(2002)	(2001)	(2002)	(1998)	(2001)	(2001)	(2002)	(2002)	(2000)	(2004)	(2002)	(2001)
Min	2,518	1,900	1,479	2,102	3,043	11,020	5,739	4,267	3,276	2,644	2,465	1,566
(WY)	(2000)	(2006)	(2006)	(2006)	(2006)	(2000)	(2003)	(2005)	(2006)	(2006)	(2006)	(2006)

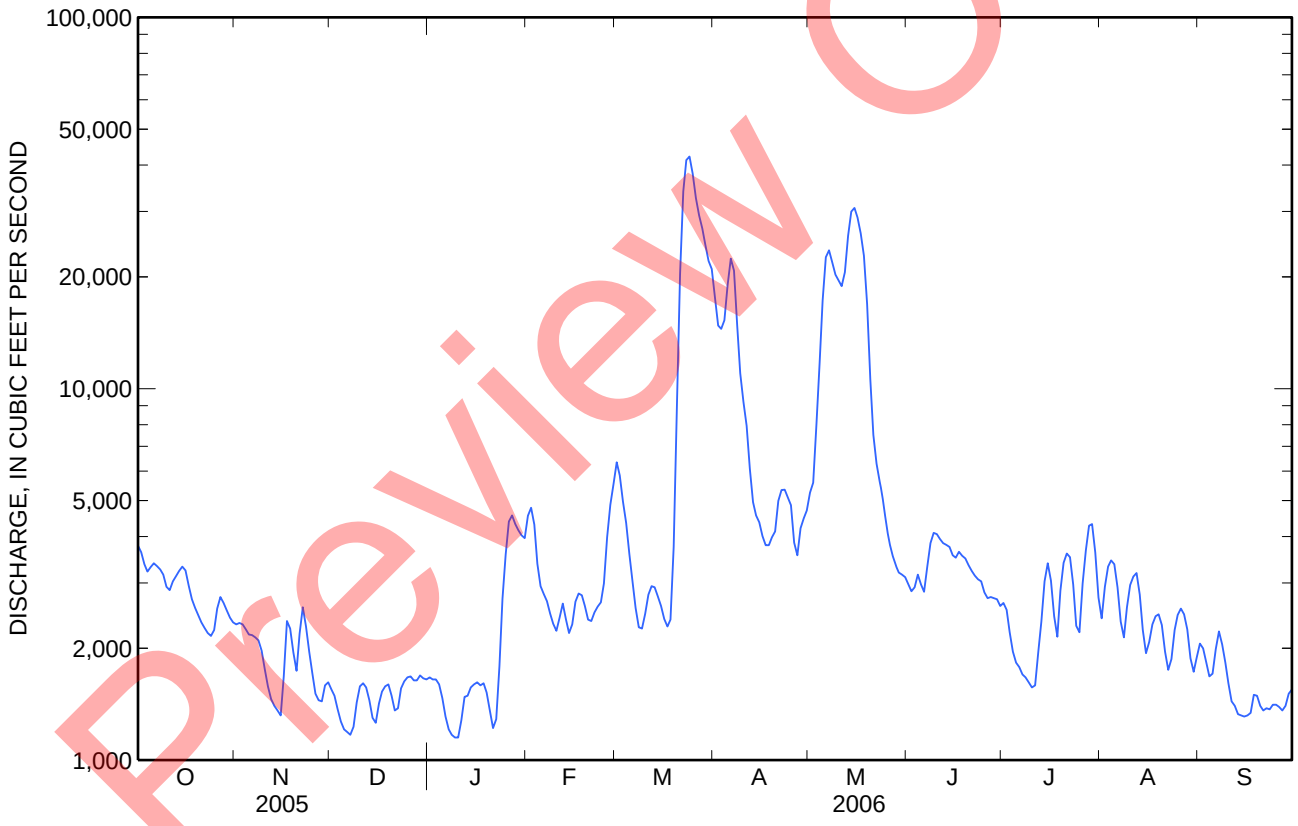
Preview Only

07344370 Red River at Spring Bank, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1998 - 2006	
Annual total	4,101,590		1,739,650			
Annual mean	11,240		4,766		17,640	
Highest annual mean					34,790	2001
Lowest annual mean					4,766	2006
Highest daily mean	92,600	Jan 8	42,200	Mar 24	138,000	Mar 14, 2001
Lowest daily mean	1,170	Dec 7	[a]1,150	Jan 9	1,150	Jan 9, 2006
Annual seven-day minimum	1,270	Dec 3	1,250	Jan 5	1,250	Jan 5, 2006
Maximum peak flow			42,800	Mar 24	140,000	Mar 14, 2001
Maximum peak stage			25.21	Mar 24	34.05	Jan 12, 1998
Instantaneous low flow			1,140	Jan 10	1,140	Jan 10, 2006
Annual runoff (ac-ft)	8,136,000		3,451,000		12,780,000	
10 percent exceeds	28,400		10,800		44,100	
50 percent exceeds	3,580		2,600		8,200	
90 percent exceeds	1,650		1,410		2,710	

[a] Also occurred Jan 10.



Preview Only

07344370 Red River at Spring Bank, AR—Continued

DCP
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13.20	12.19	11.70	11.79	13.70	14.73	19.18	14.13	12.62	12.40	12.24	11.98
2	13.10	12.20	11.65	11.77	13.85	14.46	18.27	14.32	12.54	12.32	12.59	11.93
3	12.91	12.19	11.55	11.78	13.55	13.96	18.19	15.54	12.58	12.09	12.88	11.77
4	12.80	12.15	11.47	11.73	12.92	13.58	18.44	17.12	12.76	11.90	12.97	11.62
5	12.87	e12.10	11.42	11.63	12.59	13.07	19.64	19.10	12.61	11.77	12.91	11.65
6	12.93	e12.10	11.40	11.50	12.51	12.66	20.65	20.73	12.53	11.72	12.58	11.91
7	12.88	e12.08	11.38	11.42	12.44	12.38	20.18	21.01	12.88	11.64	12.20	12.10
8	12.83	12.06	11.43	11.38	12.33	12.20	18.27	20.51	13.24	11.62	12.04	11.97
9	12.76	11.97	11.60	11.36	12.23	12.19	16.85	20.04	13.41	11.56	12.35	11.77
10	12.58	11.83	11.72	11.35	12.17	12.32	16.11	19.82	13.39	11.51	12.61	11.54
11	12.53	11.69	11.74	11.47	12.29	12.51	15.53	19.62	13.31	11.53	12.73	11.36
12	12.66	11.61	11.71	11.64	12.42	12.60	14.59	20.13	13.24	11.89	12.78	11.32
13	12.74	11.56	11.62	11.65	12.27	12.58	13.95	21.63	13.22	12.20	12.49	11.24
14	12.81	11.53	11.50	11.71	12.15	12.49	13.71	22.71	13.18	12.66	12.11	11.22
15	12.88	11.51	11.46	11.74	12.22	12.39	13.59	22.89	13.05	12.93	11.88	11.21
16	12.82	11.79	11.59	11.75	12.44	12.28	13.35	22.45	13.01	12.67	11.99	11.23
17	12.60	12.26	11.68	11.73	12.52	12.21	13.21	21.75	13.10	12.25	12.17	11.25
18	12.43	12.19	11.72	11.74	12.50	12.26	13.21	20.77	13.04	12.05	12.25	11.43
19	12.32	11.98	11.73	11.67	12.40	13.16	13.34	18.95	13.00	12.55	12.27	11.42
20	12.25	11.84	11.65	11.54	12.27	15.91	13.44	16.67	12.90	12.94	12.16	11.31
21	12.16	12.14	11.54	11.43	12.26	20.02	13.98	e15.32	12.81	13.08	11.90	11.27
22	12.11	12.39	11.56	11.48	12.34	23.58	14.18	e14.70	12.74	13.02	11.69	11.30
23	12.06	12.21	11.70	11.87	12.39	24.96	14.18	14.33	12.69	12.62	11.81	11.29
24	12.04	11.99	11.76	12.47	12.43	25.11	14.04	14.02	12.66	12.16	12.11	11.34
25	12.10	11.81	11.79	13.06	12.64	24.36	13.90	13.55	12.52	12.09	12.27	11.33
26	12.34	11.66	11.79	13.60	13.33	23.31	13.25	13.27	12.45	12.63	12.34	11.31
27	12.47	11.62	11.76	13.71	13.90	22.56	13.05	13.06	12.46	13.12	12.28	11.28
28	12.40	11.60	11.76	13.56	14.29	21.97	13.49	12.92	12.45	13.54	12.12	11.32
29	12.32	11.73	11.80	13.45	---	21.26	13.66	12.79	12.44	13.56	11.82	11.44
30	12.25	11.74	11.78	13.37	---	20.55	13.80	12.76	12.37	13.09	11.67	11.49
31	12.20	---	11.77	13.32	---	20.25	---	12.72	---	12.46	11.82	---
Max	13.20	12.39	11.80	13.71	14.29	25.11	20.65	22.89	13.41	13.56	12.97	12.10
Min	12.04	11.51	11.38	11.35	12.15	12.19	13.05	12.72	12.37	11.51	11.67	11.21

Preview Only

October 2004- September 2005

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/2004	3,710[A]
10/2/2004	3,480[A]
10/3/2004	3,730[A]
10/4/2004	3,350[A]
10/5/2004	2,920[A]
10/6/2004	3,170[A]
10/7/2004	3,870[A]
10/8/2004	4,650[A e]
10/9/2004	5,390[A e]
10/10/2004	5,320[A e]
10/11/2004	5,200[A e]
10/12/2004	5,280[A e]
10/13/2004	5,040[A e]
10/14/2004	4,720[A e]
10/15/2004	4,630[A e]
10/16/2004	4,630[A e]
10/17/2004	5,430[A e]
10/18/2004	7,240[A]
10/19/2004	9,530[A e]
10/20/2004	9,890[A]
10/21/2004	8,780[A]
10/22/2004	7,390[A e]
10/23/2004	6,190[A e]
10/24/2004	5,210[A]
10/25/2004	4,370[A]
10/26/2004	3,960[A]
10/27/2004	4,540[A]
10/28/2004	5,020[A]
10/29/2004	5,390[A]
10/30/2004	5,420[A]
10/31/2004	5,410[A]

Date	Gage height (ft)
11/1/2004	6,300[A e]
11/2/2004	7,310[A e]
11/3/2004	9,040[A e]
11/4/2004	9,220[A e]
11/5/2004	9,480[A]
11/6/2004	13,300[A e]
11/7/2004	17,900[A e]
11/8/2004	21,000[A e]
11/9/2004	22,700[A e]
11/10/2004	22,500[A e]
11/11/2004	20,500[A e]
11/12/2004	19,100[A e]
11/13/2004	17,700[A e]
11/14/2004	16,700[A e]
11/15/2004	15,900[A e]
11/16/2004	13,800[A e]
11/17/2004	10,800[A e]
11/18/2004	9,520[A e]
11/19/2004	9,210[A e]
11/20/2004	8,760[A e]
11/21/2004	8,790[A e]
11/22/2004	9,200[A e]
11/23/2004	12,300[A]
11/24/2004	22,200[A]
11/25/2004	32,900[A]
11/26/2004	41,200[A]
11/27/2004	51,300[A]
11/28/2004	55,300[A]
11/29/2004	51,800[A]
11/30/2004	49,600[A]

Date	Gage height (ft)
12/1/2004	49,400[A]
12/2/2004	52,400[A]
12/3/2004	61,600[A e]
12/4/2004	66,700[A]
12/5/2004	63,300[A]
12/6/2004	58,700[A]
12/7/2004	58,000[A]
12/8/2004	54,900[A]
12/9/2004	44,900[A]
12/10/2004	38,400[A]
12/11/2004	34,000[A]
12/12/2004	30,000[A]
12/13/2004	26,200[A]
12/14/2004	23,000[A]
12/15/2004	24,100[A]
12/16/2004	26,000[A]
12/17/2004	26,000[A]
12/18/2004	28,300[A]
12/19/2004	29,000[A]
12/20/2004	28,400[A]
12/21/2004	28,800[A]
12/22/2004	28,700[A]
12/23/2004	28,100[A]
12/24/2004	26,800[A]
12/25/2004	24,100[A]
12/26/2004	21,800[A]
12/27/2004	20,100[A]
12/28/2004	17,100[A]
12/29/2004	13,500[A]
12/30/2004	12,600[A]
12/31/2004	12,400[A]

Date	Gage height (ft)
1/1/2005	12,600[A]
1/2/2005	12,500[A]
1/3/2005	12,400[A]
1/4/2005	13,000[A]
1/5/2005	25,700[A]
1/6/2005	64,100[A]
1/7/2005	87,800[A]
1/8/2005	92,600[A]
1/9/2005	83,900[A]
1/10/2005	81,000[A]
1/11/2005	81,400[A]
1/12/2005	77,900[A]
1/13/2005	75,700[A]
1/14/2005	78,000[A]
1/15/2005	80,200[A]
1/16/2005	80,600[A]
1/17/2005	79,300[A]
1/18/2005	76,100[A]
1/19/2005	73,200[A]
1/20/2005	69,700[A]
1/21/2005	64,300[A]
1/22/2005	60,700[A]
1/23/2005	59,000[A]
1/24/2005	56,800[A]
1/25/2005	53,000[A]
1/26/2005	49,400[A]
1/27/2005	47,100[A]
1/28/2005	41,500[A]
1/29/2005	35,400[A]
1/30/2005	30,700[A]
1/31/2005	28,100[A]

Date	Gage height (ft)
2/1/2005	26,200[A]
2/2/2005	25,600[A]
2/3/2005	25,900[A]
2/4/2005	26,200[A]
2/5/2005	24,600[A]
2/6/2005	23,500[A]
2/7/2005	25,700[A]
2/8/2005	29,600[A]
2/9/2005	32,300[A]
2/10/2005	34,900[A]
2/11/2005	36,000[A]
2/12/2005	37,300[A]
2/13/2005	36,200[A]
2/14/2005	32,600[A]
2/15/2005	28,800[A]
2/16/2005	25,000[A]
2/17/2005	21,800[A]
2/18/2005	21,300[A]
2/19/2005	21,700[A]
2/20/2005	22,300[A]
2/21/2005	21,900[A]
2/22/2005	19,100[A]
2/23/2005	15,400[A]
2/24/2005	15,200[A]
2/25/2005	17,200[A]
2/26/2005	20,000[A]
2/27/2005	23,100[A]
2/28/2005	24,400[A]

Date	Gage height (ft)
3/1/2005	24,000[A]
3/2/2005	23,000[A]
3/3/2005	21,100[A]
3/4/2005	20,100[A]
3/5/2005	18,400[A]
3/6/2005	15,500[A]
3/7/2005	14,500[A]
3/8/2005	13,600[A]
3/9/2005	13,700[A]
3/10/2005	13,400[A]
3/11/2005	12,800[A]
3/12/2005	11,800[A]
3/13/2005	10,900[A]
3/14/2005	10,500[A]
3/15/2005	10,100[A]
3/16/2005	9,620[A]
3/17/2005	9,350[A]
3/18/2005	8,910[A]
3/19/2005	8,600[A]
3/20/2005	8,140[A]
3/21/2005	8,010[A]
3/22/2005	8,320[A]
3/23/2005	8,630[A]
3/24/2005	9,250[A]
3/25/2005	9,570[A]
3/26/2005	10,200[A]
3/27/2005	10,900[A]
3/28/2005	12,900[A]
3/29/2005	17,700[A]
3/30/2005	25,500[A]
3/31/2005	32,000[A]

Date	Gage height (ft)
4/1/2005	34,600[A]
4/2/2005	29,800[A]
4/3/2005	24,000[A]
4/4/2005	21,700[A]
4/5/2005	20,400[A e]
4/6/2005	17,700[A e]
4/7/2005	13,200[A e]
4/8/2005	13,500[A e]
4/9/2005	16,000[A]
4/10/2005	18,100[A]
4/11/2005	21,100[A]
4/12/2005	23,900[A]
4/13/2005	23,800[A]
4/14/2005	21,900[A]
4/15/2005	19,100[A]
4/16/2005	16,000[A]
4/17/2005	13,900[A]
4/18/2005	12,700[A]
4/19/2005	11,000[A]
4/20/2005	10,000[A]
4/21/2005	9,260[A]
4/22/2005	8,190[A]
4/23/2005	6,920[A]
4/24/2005	6,530[A]
4/25/2005	6,340[A]
4/26/2005	6,370[A]
4/27/2005	6,510[A]
4/28/2005	6,510[A]
4/29/2005	6,740[A]
4/30/2005	6,430[A]

Date	Gage height (ft)
5/1/2005	5,560[A]
5/2/2005	5,310[A]
5/3/2005	5,300[A]
5/4/2005	5,690[A e]
5/5/2005	5,870[A e]
5/6/2005	5,330[A e]
5/7/2005	4,920[A e]
5/8/2005	4,390[A]
5/9/2005	4,150[A]
5/10/2005	4,470[A]
5/11/2005	4,630[A]
5/12/2005	4,540[A]
5/13/2005	4,590[A]
5/14/2005	4,920[A]
5/15/2005	4,590[A]
5/16/2005	4,240[A]
5/17/2005	4,320[A]
5/18/2005	4,520[A]
5/19/2005	3,910[A]
5/20/2005	3,500[A]
5/21/2005	3,390[A]
5/22/2005	3,140[A]
5/23/2005	3,000[A]
5/24/2005	3,130[A]
5/25/2005	3,320[A]
5/26/2005	3,690[A]
5/27/2005	3,830[A]
5/28/2005	3,760[A]
5/29/2005	3,410[A]
5/30/2005	3,380[A]
5/31/2005	3,470[A]

Date	Gage height (ft)
6/1/2005	3,520[A]
6/2/2005	4,490[A]
6/3/2005	5,240[A]
6/4/2005	5,230[A]
6/5/2005	4,880[A]
6/6/2005	4,580[A]
6/7/2005	4,460[A]
6/8/2005	3,760[A]
6/9/2005	3,460[A]
6/10/2005	3,580[A]
6/11/2005	3,830[A]
6/12/2005	3,780[A]
6/13/2005	3,590[A]
6/14/2005	3,590[A]
6/15/2005	3,740[A]
6/16/2005	3,770[A]
6/17/2005	3,750[A]
6/18/2005	3,720[A]
6/19/2005	3,130[A]
6/20/2005	2,670[A]
6/21/2005	2,490[A]
6/22/2005	2,520[A]
6/23/2005	2,680[A]
6/24/2005	2,780[A]
6/25/2005	2,850[A]
6/26/2005	2,720[A]
6/27/2005	2,530[A]
6/28/2005	2,450[A]
6/29/2005	2,510[A]
6/30/2005	2,580[A]

Date	Gage height (ft)
7/1/2005	2,700[A]
7/2/2005	2,800[A]
7/3/2005	2,690[A]
7/4/2005	2,400[A]
7/5/2005	2,210[A]
7/6/2005	2,280[A]
7/7/2005	2,500[A]
7/8/2005	2,680[A]
7/9/2005	2,760[A]
7/10/2005	2,730[A]
7/11/2005	2,460[A]
7/12/2005	2,770[A]
7/13/2005	4,040[A]
7/14/2005	4,000[A]
7/15/2005	3,360[A]
7/16/2005	3,030[A]
7/17/2005	2,910[A]
7/18/2005	2,750[A]
7/19/2005	2,460[A]
7/20/2005	2,670[A]
7/21/2005	2,960[A]
7/22/2005	3,180[A]
7/23/2005	3,360[A]
7/24/2005	3,320[A]
7/25/2005	3,010[A]
7/26/2005	2,830[A]
7/27/2005	3,410[A]
7/28/2005	3,920[A]
7/29/2005	4,200[A]
7/30/2005	4,200[A]
7/31/2005	3,760[A]

Date	Gage height (ft)
8/1/2005	3,260[A]
8/2/2005	3,070[A]
8/3/2005	3,160[A]
8/4/2005	3,370[A]
8/5/2005	3,540[A]
8/6/2005	4,060[A]
8/7/2005	4,130[A]
8/8/2005	4,060[A]
8/9/2005	3,990[A]
8/10/2005	3,830[A]
8/11/2005	3,580[A]
8/12/2005	3,450[A]
8/13/2005	3,530[A]
8/14/2005	3,370[A]
8/15/2005	3,150[A]
8/16/2005	3,210[A]
8/17/2005	3,760[A]
8/18/2005	4,050[A]
8/19/2005	3,990[A]
8/20/2005	3,530[A]
8/21/2005	3,110[A]
8/22/2005	2,810[A]
8/23/2005	2,710[A]
8/24/2005	3,190[A]
8/25/2005	3,710[A]
8/26/2005	3,810[A]
8/27/2005	3,770[A]
8/28/2005	3,580[A]
8/29/2005	3,080[A]
8/30/2005	2,860[A]
8/31/2005	3,040[A e]

Date	Gage height (ft)
9/1/2005	3,240[A]
9/2/2005	3,360[A]
9/3/2005	3,360[A]
9/4/2005	3,180[A]
9/5/2005	2,890[A]
9/6/2005	2,830[A]
9/7/2005	2,990[A]
9/8/2005	3,100[A]
9/9/2005	3,020[A]
9/10/2005	2,820[A]
9/11/2005	2,620[A]
9/12/2005	2,430[A]
9/13/2005	2,340[A]
9/14/2005	2,410[A]
9/15/2005	2,470[A]
9/16/2005	2,420[A e]
9/17/2005	2,310[A e]
9/18/2005	2,320[A e]
9/19/2005	2,590[A e]
9/20/2005	2,740[A e]
9/21/2005	2,740[A e]
9/22/2005	2,880[A e]
9/23/2005	3,090[A e]
9/24/2005	3,180[A e]
9/25/2005	3,020[A e]
9/26/2005	2,990[A e]
9/27/2005	4,020[A]
9/28/2005	4,090[A]
9/29/2005	4,030[A]
9/30/2005	3,910[A]

Preliminary

October 2003- September 2004

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/2003	3,500[A]
10/2/2003	3,790[A]
10/3/2003	3,900[A]
10/4/2003	4,000[A]
10/5/2003	3,890[A]
10/6/2003	3,310[A]
10/7/2003	3,080[A]
10/8/2003	3,490[A]
10/9/2003	3,820[A]
10/10/2003	3,980[A]
10/11/2003	3,990[A]
10/12/2003	3,500[A]
10/13/2003	2,930[A]
10/14/2003	2,650[A]
10/15/2003	2,740[A]
10/16/2003	2,850[A]
10/17/2003	3,010[A]
10/18/2003	3,290[A]
10/19/2003	3,310[A]
10/20/2003	3,100[A]
10/21/2003	2,880[A]
10/22/2003	2,900[A]
10/23/2003	3,110[A]
10/24/2003	3,080[A]
10/25/2003	2,890[A]
10/26/2003	2,570[A e]
10/27/2003	2,250[A e]
10/28/2003	2,020[A e]
10/29/2003	1,990[A]
10/30/2003	2,060[A]
10/31/2003	2,010[A]

Date	Gage height (ft)
11/1/2003	1,950[A]
11/2/2003	1,900[A]
11/3/2003	1,850[A]
11/4/2003	1,750[A]
11/5/2003	1,670[A]
11/6/2003	1,700[A]
11/7/2003	1,810[A]
11/8/2003	1,860[A]
11/9/2003	1,840[A]
11/10/2003	1,860[A]
11/11/2003	1,860[A]
11/12/2003	2,680[A]
11/13/2003	4,050[A]
11/14/2003	4,840[A]
11/15/2003	4,950[A]
11/16/2003	4,230[A]
11/17/2003	3,700[A]
11/18/2003	3,480[A]
11/19/2003	3,940[A]
11/20/2003	6,460[A]
11/21/2003	7,720[A]
11/22/2003	10,000[A]
11/23/2003	10,700[A]
11/24/2003	10,200[A]
11/25/2003	9,250[A]
11/26/2003	6,910[A]
11/27/2003	4,100[A]
11/28/2003	3,610[A]
11/29/2003	3,590[A]
11/30/2003	4,370[A]

Date	Gage height (ft)
12/1/2003	4,620[A]
12/2/2003	4,420[A]
12/3/2003	3,930[A]
12/4/2003	3,490[A e]
12/5/2003	3,190[A e]
12/6/2003	2,950[A e]
12/7/2003	3,840[A e]
12/8/2003	4,090[A e]
12/9/2003	3,870[A]
12/10/2003	2,840[A]
12/11/2003	2,680[A]
12/12/2003	3,350[A]
12/13/2003	3,530[A]
12/14/2003	3,790[A]
12/15/2003	3,810[A]
12/16/2003	3,440[A]
12/17/2003	2,910[A]
12/18/2003	2,910[A]
12/19/2003	3,140[A]
12/20/2003	3,310[A]
12/21/2003	3,970[A]
12/22/2003	4,040[A]
12/23/2003	3,770[A]
12/24/2003	3,450[A]
12/25/2003	3,570[A]
12/26/2003	3,500[A]
12/27/2003	3,290[A]
12/28/2003	3,090[A]
12/29/2003	2,940[A]
12/30/2003	3,050[A]
12/31/2003	3,710[A]

Date	Gage height (ft)
1/1/2004	4,350[A]
1/2/2004	4,390[A]
1/3/2004	4,030[A]
1/4/2004	3,490[A]
1/5/2004	3,220[A]
1/6/2004	3,130[A]
1/7/2004	3,310[A]
1/8/2004	3,560[A]
1/9/2004	3,480[A e]
1/10/2004	3,120[A e]
1/11/2004	2,880[A e]
1/12/2004	2,720[A e]
1/13/2004	2,680[A]
1/14/2004	2,790[A]
1/15/2004	3,070[A]
1/16/2004	3,050[A]
1/17/2004	3,090[A]
1/18/2004	2,970[A]
1/19/2004	2,780[A]
1/20/2004	2,630[A]
1/21/2004	3,210[A]
1/22/2004	7,450[A]
1/23/2004	11,600[A]
1/24/2004	13,100[A]
1/25/2004	14,100[A]
1/26/2004	15,000[A]
1/27/2004	15,200[A]
1/28/2004	15,300[A]
1/29/2004	14,800[A]
1/30/2004	14,200[A]
1/31/2004	13,400[A]

Date	Gage height (ft)
2/1/2004	12,400[A]
2/2/2004	12,300[A]
2/3/2004	11,600[A]
2/4/2004	9,220[A]
2/5/2004	8,460[A]
2/6/2004	10,800[A]
2/7/2004	16,900[A]
2/8/2004	19,500[A]
2/9/2004	19,900[A]
2/10/2004	23,300[A]
2/11/2004	27,100[A]
2/12/2004	27,300[A]
2/13/2004	22,800[A]
2/14/2004	19,900[A]
2/15/2004	20,100[A]
2/16/2004	19,400[A]
2/17/2004	19,100[A]
2/18/2004	19,400[A]
2/19/2004	21,100[A]
2/20/2004	19,900[A]
2/21/2004	17,000[A]
2/22/2004	15,800[A]
2/23/2004	16,100[A]
2/24/2004	15,700[A]
2/25/2004	14,400[A]
2/26/2004	13,600[A]
2/27/2004	14,200[A]
2/28/2004	14,400[A]
2/29/2004	13,100[A]

Date	Gage height (ft)
3/1/2004	14,700[A]
3/2/2004	15,800[A]
3/3/2004	14,400[A]
3/4/2004	12,400[A]
3/5/2004	12,800[A]
3/6/2004	15,600[A]
3/7/2004	19,000[A]
3/8/2004	18,700[A]
3/9/2004	20,200[A]
3/10/2004	25,500[A]
3/11/2004	27,700[A]
3/12/2004	27,400[A]
3/13/2004	24,100[A]
3/14/2004	19,400[A]
3/15/2004	16,100[A]
3/16/2004	14,300[A]
3/17/2004	14,800[A]
3/18/2004	14,900[A]
3/19/2004	13,600[A]
3/20/2004	10,800[A]
3/21/2004	8,450[A]
3/22/2004	7,550[A]
3/23/2004	7,120[A]
3/24/2004	6,660[A]
3/25/2004	5,890[A]
3/26/2004	5,700[A]
3/27/2004	5,890[A]
3/28/2004	5,610[A]
3/29/2004	5,380[A]
3/30/2004	5,330[A]
3/31/2004	5,710[A]

Date	Gage height (ft)
4/1/2004	5,980[A]
4/2/2004	6,060[A]
4/3/2004	6,000[A]
4/4/2004	5,970[A]
4/5/2004	5,590[A]
4/6/2004	5,440[A]
4/7/2004	4,870[A]
4/8/2004	4,640[A]
4/9/2004	4,220[A]
4/10/2004	4,010[A]
4/11/2004	4,230[A]
4/12/2004	4,090[A]
4/13/2004	4,290[A]
4/14/2004	6,950[A]
4/15/2004	9,130[A]
4/16/2004	8,920[A]
4/17/2004	6,980[A]
4/18/2004	5,480[A]
4/19/2004	4,580[A]
4/20/2004	4,280[A]
4/21/2004	4,260[A]
4/22/2004	3,860[A]
4/23/2004	3,580[A]
4/24/2004	3,570[A]
4/25/2004	3,590[A]
4/26/2004	3,690[A]
4/27/2004	5,130[A]
4/28/2004	15,000[A]
4/29/2004	20,700[A]
4/30/2004	22,000[A]

Date	Gage height (ft)
5/1/2004	22,200[A]
5/2/2004	23,100[A]
5/3/2004	23,900[A]
5/4/2004	25,000[A]
5/5/2004	26,500[A]
5/6/2004	26,100[A]
5/7/2004	25,300[A]
5/8/2004	23,800[A]
5/9/2004	21,000[A]
5/10/2004	20,200[A]
5/11/2004	18,400[A]
5/12/2004	14,900[A]
5/13/2004	13,600[A]
5/14/2004	13,000[A]
5/15/2004	11,500[A]
5/16/2004	9,410[A]
5/17/2004	8,310[A]
5/18/2004	7,740[A]
5/19/2004	6,660[A]
5/20/2004	6,200[A]
5/21/2004	6,030[A]
5/22/2004	5,790[A]
5/23/2004	4,810[A]
5/24/2004	4,160[A]
5/25/2004	4,180[A]
5/26/2004	5,250[A]
5/27/2004	5,530[A]
5/28/2004	4,880[A]
5/29/2004	4,780[A]
5/30/2004	5,600[A]
5/31/2004	6,180[A]

Date	Gage height (ft)
6/1/2004	7,060[A]
6/2/2004	8,370[A]
6/3/2004	11,900[A]
6/4/2004	12,500[A]
6/5/2004	11,000[A]
6/6/2004	8,680[A]
6/7/2004	10,000[A]
6/8/2004	11,900[A]
6/9/2004	15,000[A]
6/10/2004	13,900[A]
6/11/2004	10,100[A]
6/12/2004	7,120[A]
6/13/2004	5,790[A]
6/14/2004	5,510[A]
6/15/2004	7,150[A]
6/16/2004	12,300[A]
6/17/2004	15,000[A]
6/18/2004	18,300[A]
6/19/2004	22,900[A]
6/20/2004	26,700[A]
6/21/2004	27,100[A]
6/22/2004	27,500[A]
6/23/2004	28,500[A]
6/24/2004	28,500[A]
6/25/2004	32,000[A]
6/26/2004	38,300[A]
6/27/2004	43,800[A]
6/28/2004	45,400[A]
6/29/2004	43,100[A]
6/30/2004	41,700[A]

Date	Gage height (ft)
7/1/2004	40,300[A]
7/2/2004	37,100[A]
7/3/2004	32,100[A]
7/4/2004	28,100[A]
7/5/2004	29,800[A]
7/6/2004	29,600[A]
7/7/2004	28,800[A]
7/8/2004	30,700[A]
7/9/2004	27,800[A]
7/10/2004	21,700[A]
7/11/2004	17,000[A]
7/12/2004	16,000[A]
7/13/2004	17,700[A]
7/14/2004	21,100[A]
7/15/2004	21,700[A]
7/16/2004	20,500[A]
7/17/2004	18,900[A]
7/18/2004	16,500[A]
7/19/2004	14,700[A]
7/20/2004	12,100[A]
7/21/2004	9,510[A]
7/22/2004	8,740[A]
7/23/2004	8,200[A]
7/24/2004	7,260[A]
7/25/2004	6,820[A]
7/26/2004	7,250[A]
7/27/2004	7,900[A]
7/28/2004	8,250[A]
7/29/2004	8,150[A]
7/30/2004	7,930[A]
7/31/2004	7,940[A]

Date	Gage height (ft)
8/1/2004	8,530[A]
8/2/2004	8,690[A]
8/3/2004	8,730[A]
8/4/2004	8,340[A]
8/5/2004	8,420[A]
8/6/2004	9,540[A]
8/7/2004	8,940[A]
8/8/2004	6,910[A]
8/9/2004	7,770[A]
8/10/2004	9,750[A]
8/11/2004	10,000[A]
8/12/2004	10,100[A]
8/13/2004	9,770[A]
8/14/2004	8,350[A]
8/15/2004	7,350[A]
8/16/2004	8,210[A]
8/17/2004	9,370[A e]
8/18/2004	8,890[A]
8/19/2004	8,150[A]
8/20/2004	6,950[A]
8/21/2004	5,550[A]
8/22/2004	4,740[A]
8/23/2004	4,210[A]
8/24/2004	4,310[A]
8/25/2004	4,760[A]
8/26/2004	5,020[A]
8/27/2004	5,020[A]
8/28/2004	4,650[A]
8/29/2004	3,870[A]
8/30/2004	3,380[A]
8/31/2004	3,460[A]

Date	Gage height (ft)
9/1/2004	4,110[A]
9/2/2004	4,380[A]
9/3/2004	4,410[A]
9/4/2004	4,420[A]
9/5/2004	4,380[A]
9/6/2004	3,950[A]
9/7/2004	3,790[A]
9/8/2004	4,080[A]
9/9/2004	3,970[A e]
9/10/2004	3,750[A e]
9/11/2004	3,770[A]
9/12/2004	3,450[A]
9/13/2004	2,950[A]
9/14/2004	2,690[A]
9/15/2004	2,660[A]
9/16/2004	3,090[A]
9/17/2004	3,450[A]
9/18/2004	3,550[A]
9/19/2004	3,400[A]
9/20/2004	2,960[A]
9/21/2004	2,770[A]
9/22/2004	3,160[A]
9/23/2004	3,610[A]
9/24/2004	3,890[A]
9/25/2004	4,050[A]
9/26/2004	3,590[A]
9/27/2004	2,990[A]
9/28/2004	2,760[A]
9/29/2004	3,280[A]
9/30/2004	3,870[A]

Preview Only

October 2002- September 2003

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/2002	3,100[A]
10/2/2002	3,030[A]
10/3/2002	2,930[A]
10/4/2002	2,980[A]
10/5/2002	3,340[A]
10/6/2002	3,610[A]
10/7/2002	3,320[A]
10/8/2002	2,950[A]
10/9/2002	3,570[A]
10/10/2002	5,130[A]
10/11/2002	5,550[A]
10/12/2002	5,550[A]
10/13/2002	5,520[A]
10/14/2002	5,370[A]
10/15/2002	5,570[A]
10/16/2002	5,190[A]
10/17/2002	4,600[A]
10/18/2002	4,060[A]
10/19/2002	4,010[A]
10/20/2002	4,340[A]
10/21/2002	4,660[A]
10/22/2002	5,870[A]
10/23/2002	11,700[A]
10/24/2002	20,100[A]
10/25/2002	24,000[A]
10/26/2002	19,900[A]
10/27/2002	17,100[A]
10/28/2002	15,000[A]
10/29/2002	13,900[A]
10/30/2002	13,600[A]
10/31/2002	13,400[A]

Date	Gage height (ft)
11/1/2002	13,700[A]
11/2/2002	13,100[A]
11/3/2002	11,700[A]
11/4/2002	11,200[A]
11/5/2002	11,800[A]
11/6/2002	12,800[A]
11/7/2002	14,200[A]
11/8/2002	14,300[A]
11/9/2002	14,000[A]
11/10/2002	12,600[A]
11/11/2002	11,300[A]
11/12/2002	10,400[A]
11/13/2002	9,350[A]
11/14/2002	7,970[A]
11/15/2002	6,620[A]
11/16/2002	5,910[A]
11/17/2002	6,120[A]
11/18/2002	6,100[A]
11/19/2002	5,190[A]
11/20/2002	4,150[A]
11/21/2002	3,900[A]
11/22/2002	3,760[A]
11/23/2002	3,530[A]
11/24/2002	3,140[A]
11/25/2002	2,830[A]
11/26/2002	2,740[A]
11/27/2002	3,020[A]
11/28/2002	3,290[A]
11/29/2002	3,330[A]
11/30/2002	3,180[A]

Date	Gage height (ft)
12/1/2002	2,860[A]
12/2/2002	2,520[A e]
12/3/2002	2,410[A e]
12/4/2002	3,050[A]
12/5/2002	3,740[A]
12/6/2002	3,720[A]
12/7/2002	4,150[A]
12/8/2002	4,350[A]
12/9/2002	4,380[A]
12/10/2002	4,710[A]
12/11/2002	6,640[A]
12/12/2002	8,730[A]
12/13/2002	9,240[A]
12/14/2002	9,110[A]
12/15/2002	8,460[A]
12/16/2002	9,960[A]
12/17/2002	11,700[A]
12/18/2002	13,400[A]
12/19/2002	14,500[A]
12/20/2002	13,300[A]
12/21/2002	11,800[A]
12/22/2002	10,900[A]
12/23/2002	11,800[A]
12/24/2002	16,100[A]
12/25/2002	17,000[A]
12/26/2002	21,400[A]
12/27/2002	24,400[A]
12/28/2002	30,300[A]
12/29/2002	34,300[A]
12/30/2002	32,700[A]
12/31/2002	32,700[A]

Date	Gage height (ft)
1/1/2003	36,200[A]
1/2/2003	38,500[A]
1/3/2003	44,800[A]
1/4/2003	52,300[A]
1/5/2003	51,000[A]
1/6/2003	45,600[A]
1/7/2003	41,700[A]
1/8/2003	40,000[A]
1/9/2003	39,500[A]
1/10/2003	37,500[A]
1/11/2003	32,000[A]
1/12/2003	27,200[A]
1/13/2003	24,500[A]
1/14/2003	23,600[A]
1/15/2003	23,200[A]
1/16/2003	21,800[A]
1/17/2003	20,400[A]
1/18/2003	17,500[A]
1/19/2003	14,600[A]
1/20/2003	12,500[A]
1/21/2003	10,500[A]
1/22/2003	9,920[A]
1/23/2003	10,800[A]
1/24/2003	10,800[A]
1/25/2003	9,430[A]
1/26/2003	8,200[A]
1/27/2003	7,630[A]
1/28/2003	9,450[A]
1/29/2003	12,700[A]
1/30/2003	12,600[A]
1/31/2003	11,700[A]

Date	Gage height (ft)
2/1/2003	10,900[A]
2/2/2003	8,710[A]
2/3/2003	7,460[A]
2/4/2003	7,720[A]
2/5/2003	8,430[A]
2/6/2003	8,550[A]
2/7/2003	7,570[A]
2/8/2003	7,300[A]
2/9/2003	7,290[A]
2/10/2003	8,830[A]
2/11/2003	9,910[A]
2/12/2003	9,240[A]
2/13/2003	8,340[A]
2/14/2003	8,430[A]
2/15/2003	9,840[A]
2/16/2003	12,000[A]
2/17/2003	13,700[A]
2/18/2003	13,700[A]
2/19/2003	14,400[A]
2/20/2003	19,400[A]
2/21/2003	21,000[A]
2/22/2003	25,500[A]
2/23/2003	28,200[A]
2/24/2003	31,500[A]
2/25/2003	35,900[A]
2/26/2003	39,200[A]
2/27/2003	38,000[A]
2/28/2003	36,100[A]

Date	Gage height (ft)
3/1/2003	37,300[A]
3/2/2003	42,200[A]
3/3/2003	46,500[A]
3/4/2003	46,900[A]
3/5/2003	43,900[A]
3/6/2003	41,300[A]
3/7/2003	38,800[A]
3/8/2003	33,800[A]
3/9/2003	30,600[A]
3/10/2003	28,900[A]
3/11/2003	27,100[A]
3/12/2003	24,500[A]
3/13/2003	22,200[A]
3/14/2003	21,600[A]
3/15/2003	21,000[A]
3/16/2003	17,600[A]
3/17/2003	16,600[A]
3/18/2003	16,700[A]
3/19/2003	18,500[A]
3/20/2003	20,600[A]
3/21/2003	24,000[A]
3/22/2003	27,000[A]
3/23/2003	27,300[A]
3/24/2003	27,700[A]
3/25/2003	26,500[A]
3/26/2003	23,600[A]
3/27/2003	22,400[A]
3/28/2003	22,900[A]
3/29/2003	22,500[A]
3/30/2003	18,900[A]
3/31/2003	15,400[A]

Date	Gage height (ft)
4/1/2003	13,400[A]
4/2/2003	12,300[A]
4/3/2003	10,600[A]
4/4/2003	7,930[A]
4/5/2003	6,770[A]
4/6/2003	6,250[A]
4/7/2003	5,970[A]
4/8/2003	5,820[A]
4/9/2003	5,540[A]
4/10/2003	5,800[A]
4/11/2003	5,700[A]
4/12/2003	5,740[A]
4/13/2003	6,460[A]
4/14/2003	6,400[A]
4/15/2003	6,110[A]
4/16/2003	6,110[A]
4/17/2003	5,660[A]
4/18/2003	5,210[A]
4/19/2003	4,460[A]
4/20/2003	3,820[A]
4/21/2003	3,550[A]
4/22/2003	3,320[A]
4/23/2003	3,250[A]
4/24/2003	3,430[A]
4/25/2003	3,520[A]
4/26/2003	3,610[A]
4/27/2003	3,770[A]
4/28/2003	3,670[A]
4/29/2003	3,560[A]
4/30/2003	4,440[A]

Date	Gage height (ft)
5/1/2003	4,740[A]
5/2/2003	3,750[A]
5/3/2003	3,390[A]
5/4/2003	3,660[A]
5/5/2003	3,870[A]
5/6/2003	3,580[A]
5/7/2003	4,260[A]
5/8/2003	5,510[A]
5/9/2003	7,500[A]
5/10/2003	9,680[A]
5/11/2003	9,390[A]
5/12/2003	8,540[A]
5/13/2003	7,710[A]
5/14/2003	6,570[A]
5/15/2003	7,750[A]
5/16/2003	8,910[A]
5/17/2003	11,400[A]
5/18/2003	13,000[A]
5/19/2003	12,000[A]
5/20/2003	12,500[A]
5/21/2003	14,900[A]
5/22/2003	14,100[A]
5/23/2003	13,100[A]
5/24/2003	10,200[A]
5/25/2003	7,880[A]
5/26/2003	7,790[A]
5/27/2003	7,490[A]
5/28/2003	7,110[A]
5/29/2003	6,880[A]
5/30/2003	6,060[A]
5/31/2003	6,360[A]

Date	Gage height (ft)
6/1/2003	6,740[A]
6/2/2003	5,730[A]
6/3/2003	4,790[A]
6/4/2003	4,300[A]
6/5/2003	3,980[A]
6/6/2003	3,690[A]
6/7/2003	3,710[A]
6/8/2003	3,740[A]
6/9/2003	4,380[A]
6/10/2003	5,480[A]
6/11/2003	5,650[A]
6/12/2003	5,640[A]
6/13/2003	5,630[A]
6/14/2003	4,880[A]
6/15/2003	4,610[A]
6/16/2003	4,800[A]
6/17/2003	5,440[A]
6/18/2003	8,840[A]
6/19/2003	13,400[A]
6/20/2003	13,800[A]
6/21/2003	12,800[A]
6/22/2003	11,800[A]
6/23/2003	10,900[A]
6/24/2003	10,200[A]
6/25/2003	10,200[A]
6/26/2003	10,900[A]
6/27/2003	11,400[A]
6/28/2003	8,630[A]
6/29/2003	6,560[A]
6/30/2003	5,560[A]

Date	Gage height (ft)
7/1/2003	6,870[A]
7/2/2003	12,200[A]
7/3/2003	13,900[A]
7/4/2003	11,200[A]
7/5/2003	8,480[A]
7/6/2003	6,520[A]
7/7/2003	5,670[A]
7/8/2003	5,730[A]
7/9/2003	5,360[A]
7/10/2003	5,800[A]
7/11/2003	7,040[A]
7/12/2003	7,230[A]
7/13/2003	6,800[A]
7/14/2003	6,750[A]
7/15/2003	6,410[A]
7/16/2003	5,790[A]
7/17/2003	5,960[A]
7/18/2003	5,820[A]
7/19/2003	5,420[A]
7/20/2003	5,110[A]
7/21/2003	5,550[A]
7/22/2003	5,720[A]
7/23/2003	5,630[A]
7/24/2003	6,180[A]
7/25/2003	6,490[A]
7/26/2003	6,610[A]
7/27/2003	6,350[A]
7/28/2003	5,640[A]
7/29/2003	5,040[A]
7/30/2003	4,600[A]
7/31/2003	4,370[A]

Date	Gage height (ft)
8/1/2003	4,180[A]
8/2/2003	4,850[A]
8/3/2003	5,070[A]
8/4/2003	4,200[A]
8/5/2003	4,010[A]
8/6/2003	4,780[A]
8/7/2003	5,170[A]
8/8/2003	6,690[A]
8/9/2003	7,000[A]
8/10/2003	6,150[A]
8/11/2003	6,180[A]
8/12/2003	7,260[A]
8/13/2003	7,650[A]
8/14/2003	7,620[A]
8/15/2003	7,020[A]
8/16/2003	6,020[A]
8/17/2003	4,610[A]
8/18/2003	4,210[A]
8/19/2003	4,550[A]
8/20/2003	5,370[A]
8/21/2003	5,410[A]
8/22/2003	5,400[A]
8/23/2003	5,540[A]
8/24/2003	5,010[A]
8/25/2003	4,840[A]
8/26/2003	6,120[A]
8/27/2003	6,470[A]
8/28/2003	5,820[A]
8/29/2003	5,810[A]
8/30/2003	5,900[A]
8/31/2003	4,870[A]

Date	Gage height (ft)
9/1/2003	4,520[A]
9/2/2003	5,160[A]
9/3/2003	6,010[A]
9/4/2003	7,410[A]
9/5/2003	10,300[A]
9/6/2003	11,400[A]
9/7/2003	10,200[A]
9/8/2003	9,420[A]
9/9/2003	7,990[A]
9/10/2003	6,140[A]
9/11/2003	5,290[A]
9/12/2003	4,990[A]
9/13/2003	4,700[A]
9/14/2003	4,420[A]
9/15/2003	4,270[A]
9/16/2003	4,830[A]
9/17/2003	7,030[A]
9/18/2003	7,050[A]
9/19/2003	5,300[A]
9/20/2003	4,580[A]
9/21/2003	4,020[A]
9/22/2003	3,590[A]
9/23/2003	3,380[A]
9/24/2003	3,300[A]
9/25/2003	3,160[A]
9/26/2003	3,560[A]
9/27/2003	3,790[A]
9/28/2003	3,360[A]
9/29/2003	2,850[A]
9/30/2003	2,940[A]

Preview Only

October 2001- September 2002

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/2001	9,070[A]
10/2/2001	8,550[A]
10/3/2001	7,740[A]
10/4/2001	7,300[A]
10/5/2001	7,000[A]
10/6/2001	6,620[A]
10/7/2001	6,000[A]
10/8/2001	5,620[A]
10/9/2001	5,460[A]
10/10/2001	5,760[A]
10/11/2001	18,400[A]
10/12/2001	24,500[A]
10/13/2001	31,300[A]
10/14/2001	34,000[A]
10/15/2001	34,600[A]
10/16/2001	39,200[A]
10/17/2001	44,500[A]
10/18/2001	43,300[A]
10/19/2001	38,500[A]
10/20/2001	33,900[A]
10/21/2001	31,200[A]
10/22/2001	29,600[A]
10/23/2001	26,400[A]
10/24/2001	22,700[A]
10/25/2001	21,500[A]
10/26/2001	19,800[A]
10/27/2001	16,200[A]
10/28/2001	13,600[A]
10/29/2001	12,800[A]
10/30/2001	12,600[A]
10/31/2001	12,300[A]

Date	Gage height (ft)
11/1/2001	11,800[A]
11/2/2001	11,600[A]
11/3/2001	11,300[A]
11/4/2001	11,500[A]
11/5/2001	11,300[A]
11/6/2001	10,900[A]
11/7/2001	10,000[A]
11/8/2001	9,990[A]
11/9/2001	9,460[A]
11/10/2001	8,110[A]
11/11/2001	6,740[A]
11/12/2001	5,650[A]
11/13/2001	5,100[A]
11/14/2001	4,740[A]
11/15/2001	4,380[A]
11/16/2001	4,190[A]
11/17/2001	4,100[A]
11/18/2001	4,040[A]
11/19/2001	3,920[A]
11/20/2001	3,770[A]
11/21/2001	3,690[A]
11/22/2001	3,640[A]
11/23/2001	3,670[A]
11/24/2001	3,610[A]
11/25/2001	3,630[A]
11/26/2001	3,550[A]
11/27/2001	3,400[A]
11/28/2001	4,850[A]
11/29/2001	10,100[A]
11/30/2001	15,100[A]

Date	Gage height (ft)
12/1/2001	19,500[A]
12/2/2001	20,500[A]
12/3/2001	18,700[A]
12/4/2001	16,700[A]
12/5/2001	15,500[A]
12/6/2001	14,600[A]
12/7/2001	13,400[A]
12/8/2001	12,100[A]
12/9/2001	12,300[A]
12/10/2001	11,600[A]
12/11/2001	11,300[A]
12/12/2001	17,000[A]
12/13/2001	24,100[A]
12/14/2001	32,300[A]
12/15/2001	35,500[A]
12/16/2001	38,400[A]
12/17/2001	52,500[A]
12/18/2001	84,900[A]
12/19/2001	111,000[A e]
12/20/2001	112,000[A e]
12/21/2001	105,000[A e]
12/22/2001	90,000[A e]
12/23/2001	77,000[A e]
12/24/2001	68,000[A e]
12/25/2001	66,000[A e]
12/26/2001	69,000[A e]
12/27/2001	70,000[A]
12/28/2001	69,400[A]
12/29/2001	69,000[A]
12/30/2001	67,400[A]
12/31/2001	65,400[A]

Date	Gage height (ft)
1/1/2002	61,100[A]
1/2/2002	56,900[A]
1/3/2002	54,600[A]
1/4/2002	53,400[A]
1/5/2002	48,400[A]
1/6/2002	44,700[A]
1/7/2002	42,300[A]
1/8/2002	40,400[A]
1/9/2002	37,500[A]
1/10/2002	34,400[A]
1/11/2002	31,700[A]
1/12/2002	28,900[A]
1/13/2002	27,700[A]
1/14/2002	28,200[A]
1/15/2002	26,100[A]
1/16/2002	23,000[A]
1/17/2002	22,500[A]
1/18/2002	22,800[A]
1/19/2002	21,900[A]
1/20/2002	22,000[A]
1/21/2002	24,000[A]
1/22/2002	25,000[A]
1/23/2002	25,100[A]
1/24/2002	26,100[A]
1/25/2002	30,600[A]
1/26/2002	35,500[A]
1/27/2002	39,800[A]
1/28/2002	43,200[A]
1/29/2002	47,600[A]
1/30/2002	49,200[A]
1/31/2002	44,700[A]

Date	Gage height (ft)
2/1/2002	40,400[A]
2/2/2002	49,700[A]
2/3/2002	69,900[A]
2/4/2002	74,000[A]
2/5/2002	67,600[A]
2/6/2002	61,600[A]
2/7/2002	57,700[A]
2/8/2002	56,400[A]
2/9/2002	57,600[A]
2/10/2002	58,500[A]
2/11/2002	56,000[A]
2/12/2002	53,700[A]
2/13/2002	51,600[A]
2/14/2002	46,300[A e]
2/15/2002	42,800[A]
2/16/2002	39,100[A]
2/17/2002	36,000[A]
2/18/2002	33,500[A]
2/19/2002	31,800[A]
2/20/2002	32,500[A]
2/21/2002	36,900[A]
2/22/2002	41,700[A]
2/23/2002	43,000[A]
2/24/2002	45,800[A]
2/25/2002	45,500[A]
2/26/2002	40,300[A]
2/27/2002	36,900[A]
2/28/2002	34,500[A]

Date	Gage height (ft)
3/1/2002	30,100[A]
3/2/2002	24,900[A]
3/3/2002	20,100[A]
3/4/2002	17,000[A]
3/5/2002	15,100[A]
3/6/2002	13,700[A]
3/7/2002	13,900[A]
3/8/2002	17,300[A]
3/9/2002	20,400[A]
3/10/2002	21,400[A]
3/11/2002	20,500[A]
3/12/2002	20,100[A]
3/13/2002	22,800[A]
3/14/2002	27,900[A]
3/15/2002	29,800[A]
3/16/2002	28,100[A]
3/17/2002	25,300[A]
3/18/2002	30,200[A]
3/19/2002	33,700[A]
3/20/2002	37,800[A]
3/21/2002	58,700[A]
3/22/2002	86,800[A]
3/23/2002	104,000[A]
3/24/2002	107,000[A]
3/25/2002	84,000[A]
3/26/2002	78,400[A]
3/27/2002	86,400[A]
3/28/2002	89,800[A]
3/29/2002	89,900[A]
3/30/2002	88,600[A]
3/31/2002	93,200[A]

Date	Gage height (ft)
4/1/2002	109,000[A]
4/2/2002	116,000[A]
4/3/2002	112,000[A]
4/4/2002	106,000[A]
4/5/2002	95,100[A]
4/6/2002	84,200[A]
4/7/2002	77,500[A]
4/8/2002	77,900[A]
4/9/2002	82,300[A]
4/10/2002	110,000[A]
4/11/2002	132,000[A]
4/12/2002	132,000[A]
4/13/2002	121,000[A]
4/14/2002	113,000[A]
4/15/2002	111,000[A]
4/16/2002	115,000[A]
4/17/2002	124,000[A]
4/18/2002	125,000[A]
4/19/2002	118,000[A]
4/20/2002	113,000[A]
4/21/2002	115,000[A]
4/22/2002	116,000[A]
4/23/2002	118,000[A]
4/24/2002	114,000[A]
4/25/2002	106,000[A]
4/26/2002	92,600[A]
4/27/2002	84,400[A]
4/28/2002	79,300[A]
4/29/2002	75,700[A]
4/30/2002	65,500[A]

Date	Gage height (ft)
5/1/2002	58,100[A]
5/2/2002	56,100[A]
5/3/2002	56,800[A]
5/4/2002	57,600[A]
5/5/2002	53,200[A]
5/6/2002	47,100[A]
5/7/2002	43,700[A]
5/8/2002	40,500[A]
5/9/2002	36,200[A]
5/10/2002	35,300[A]
5/11/2002	37,200[A]
5/12/2002	37,100[A]
5/13/2002	35,500[A]
5/14/2002	32,100[A]
5/15/2002	29,900[A]
5/16/2002	28,500[A e]
5/17/2002	26,400[A]
5/18/2002	23,600[A]
5/19/2002	20,200[A]
5/20/2002	20,200[A]
5/21/2002	23,100[A]
5/22/2002	25,400[A]
5/23/2002	24,600[A]
5/24/2002	22,600[A]
5/25/2002	19,200[A]
5/26/2002	15,400[A]
5/27/2002	13,800[A]
5/28/2002	13,300[A]
5/29/2002	12,800[A]
5/30/2002	13,100[A]
5/31/2002	17,700[A]

Date	Gage height (ft)
6/1/2002	23,500[A]
6/2/2002	15,600[A]
6/3/2002	9,950[A]
6/4/2002	10,100[A]
6/5/2002	18,300[A]
6/6/2002	23,700[A]
6/7/2002	23,100[A]
6/8/2002	20,100[A]
6/9/2002	17,500[A]
6/10/2002	18,800[A]
6/11/2002	18,600[A]
6/12/2002	16,000[A]
6/13/2002	15,100[A]
6/14/2002	12,600[A]
6/15/2002	10,900[A]
6/16/2002	8,730[A]
6/17/2002	7,490[A]
6/18/2002	6,710[A]
6/19/2002	6,310[A]
6/20/2002	7,680[A]
6/21/2002	8,990[A]
6/22/2002	8,270[A]
6/23/2002	6,730[A]
6/24/2002	5,690[A]
6/25/2002	5,330[A]
6/26/2002	5,230[A]
6/27/2002	5,340[A]
6/28/2002	5,200[A]
6/29/2002	5,040[A]
6/30/2002	4,890[A]

Date	Gage height (ft)
7/1/2002	4,940[A]
7/2/2002	5,800[A]
7/3/2002	6,250[A]
7/4/2002	6,170[A]
7/5/2002	6,050[A]
7/6/2002	5,880[A]
7/7/2002	5,960[A]
7/8/2002	6,330[A]
7/9/2002	7,570[A]
7/10/2002	8,250[A]
7/11/2002	7,740[A]
7/12/2002	7,170[A]
7/13/2002	6,680[A]
7/14/2002	6,270[A]
7/15/2002	6,400[A e]
7/16/2002	6,010[A]
7/17/2002	5,860[A]
7/18/2002	6,000[A]
7/19/2002	6,280[A]
7/20/2002	6,530[A]
7/21/2002	6,040[A]
7/22/2002	5,700[A]
7/23/2002	5,730[A]
7/24/2002	5,880[A]
7/25/2002	7,410[A]
7/26/2002	8,580[A]
7/27/2002	8,090[A]
7/28/2002	7,890[A]
7/29/2002	8,140[A]
7/30/2002	8,430[A]
7/31/2002	8,400[A]

Date	Gage height (ft)
8/1/2002	7,850[A]
8/2/2002	7,800[A]
8/3/2002	7,930[A]
8/4/2002	8,750[A]
8/5/2002	8,590[A]
8/6/2002	8,070[A]
8/7/2002	8,540[A]
8/8/2002	8,140[A]
8/9/2002	7,170[A]
8/10/2002	6,840[A]
8/11/2002	6,170[A]
8/12/2002	6,080[A]
8/13/2002	5,990[A]
8/14/2002	5,310[A]
8/15/2002	4,970[A]
8/16/2002	5,290[A]
8/17/2002	5,470[A]
8/18/2002	5,230[A]
8/19/2002	5,260[A]
8/20/2002	6,100[A]
8/21/2002	10,300[A]
8/22/2002	12,900[A]
8/23/2002	12,400[A]
8/24/2002	10,400[A]
8/25/2002	9,140[A]
8/26/2002	7,390[A]
8/27/2002	6,630[A]
8/28/2002	6,910[A]
8/29/2002	4,900[A]
8/30/2002	4,290[A]
8/31/2002	4,160[A]

Date	Gage height (ft)
9/1/2002	3,840[A]
9/2/2002	3,880[A]
9/3/2002	5,070[A]
9/4/2002	5,740[A]
9/5/2002	5,730[A]
9/6/2002	5,690[A]
9/7/2002	4,970[A]
9/8/2002	4,240[A]
9/9/2002	4,160[A]
9/10/2002	4,980[A]
9/11/2002	5,580[A]
9/12/2002	5,560[A]
9/13/2002	5,080[A]
9/14/2002	4,280[A]
9/15/2002	3,840[A]
9/16/2002	3,780[A]
9/17/2002	4,460[A]
9/18/2002	5,150[A]
9/19/2002	5,330[A]
9/20/2002	5,550[A]
9/21/2002	5,180[A]
9/22/2002	4,410[A]
9/23/2002	3,760[A]
9/24/2002	3,630[A]
9/25/2002	3,870[A]
9/26/2002	3,730[A]
9/27/2002	3,570[A]
9/28/2002	3,420[A]
9/29/2002	3,270[A]
9/30/2002	3,170[A]

Preview Only

October 2000- September 2001

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/2000	3,410[A]
10/2/2000	2,990[A]
10/3/2000	2,790[A]
10/4/2000	2,770[A]
10/5/2000	2,840[A]
10/6/2000	3,270[A]
10/7/2000	3,920[A]
10/8/2000	4,400[A]
10/9/2000	3,930[A]
10/10/2000	3,290[A]
10/11/2000	3,040[A]
10/12/2000	3,010[A]
10/13/2000	2,900[A]
10/14/2000	2,640[A]
10/15/2000	2,410[A]
10/16/2000	2,320[A]
10/17/2000	2,180[A]
10/18/2000	2,100[A]
10/19/2000	2,080[A]
10/20/2000	2,160[A]
10/21/2000	2,220[A]
10/22/2000	2,260[A]
10/23/2000	2,230[A]
10/24/2000	2,130[A]
10/25/2000	2,030[A]
10/26/2000	2,040[A]
10/27/2000	2,130[A]
10/28/2000	2,240[A]
10/29/2000	2,410[A]
10/30/2000	2,370[A]
10/31/2000	2,220[A]

Date	Gage height (ft)
11/1/2000	2,190[A]
11/2/2000	2,570[A]
11/3/2000	2,990[A]
11/4/2000	3,600[A]
11/5/2000	4,860[A]
11/6/2000	6,940[A]
11/7/2000	10,300[A]
11/8/2000	18,900[A]
11/9/2000	32,900[A]
11/10/2000	40,900[A]
11/11/2000	42,400[A]
11/12/2000	44,000[A]
11/13/2000	44,600[A]
11/14/2000	45,900[A]
11/15/2000	46,400[A]
11/16/2000	44,000[A]
11/17/2000	42,000[A]
11/18/2000	40,800[A]
11/19/2000	39,100[A]
11/20/2000	36,700[A]
11/21/2000	34,300[A]
11/22/2000	30,900[A]
11/23/2000	27,400[A]
11/24/2000	32,300[A]
11/25/2000	48,000[A]
11/26/2000	61,300[A]
11/27/2000	64,400[A]
11/28/2000	66,900[A]
11/29/2000	66,300[A]
11/30/2000	63,600[A]

Date	Gage height (ft)
12/1/2000	56,600[A]
12/2/2000	57,400[A]
12/3/2000	57,700[A]
12/4/2000	56,700[A]
12/5/2000	56,400[A]
12/6/2000	56,400[A]
12/7/2000	55,700[A]
12/8/2000	53,200[A]
12/9/2000	48,100[A]
12/10/2000	44,600[A]
12/11/2000	41,700[A]
12/12/2000	37,000[A e]
12/13/2000	32,000[A e]
12/14/2000	28,800[A]
12/15/2000	25,800[A]
12/16/2000	25,200[A]
12/17/2000	26,600[A]
12/18/2000	26,200[A]
12/19/2000	25,100[A]
12/20/2000	23,900[A]
12/21/2000	23,900[A]
12/22/2000	23,200[A]
12/23/2000	19,700[A]
12/24/2000	18,100[A]
12/25/2000	17,700[A]
12/26/2000	18,800[A]
12/27/2000	27,600[A]
12/28/2000	53,700[A]
12/29/2000	74,400[A]
12/30/2000	85,900[A]
12/31/2000	83,800[A]

Date	Gage height (ft)
1/1/2001	79,000[A e]
1/2/2001	73,000[A e]
1/3/2001	66,000[A e]
1/4/2001	62,500[A]
1/5/2001	59,500[A]
1/6/2001	56,700[A]
1/7/2001	56,500[A]
1/8/2001	56,700[A]
1/9/2001	56,000[A]
1/10/2001	54,400[A]
1/11/2001	53,000[A]
1/12/2001	51,500[A]
1/13/2001	49,800[A]
1/14/2001	47,900[A]
1/15/2001	46,000[A]
1/16/2001	44,700[A]
1/17/2001	41,600[A]
1/18/2001	45,500[A]
1/19/2001	53,900[A]
1/20/2001	59,600[A]
1/21/2001	61,200[A]
1/22/2001	58,800[A]
1/23/2001	53,500[A]
1/24/2001	49,000[A]
1/25/2001	42,400[A]
1/26/2001	37,900[A]
1/27/2001	35,100[A]
1/28/2001	33,800[A]
1/29/2001	33,900[A]
1/30/2001	32,100[A]
1/31/2001	30,100[A]

Date	Gage height (ft)
2/1/2001	30,300[A]
2/2/2001	39,200[A]
2/3/2001	47,200[A]
2/4/2001	47,100[A]
2/5/2001	42,700[A]
2/6/2001	36,000[A]
2/7/2001	31,400[A]
2/8/2001	29,800[A]
2/9/2001	29,000[A]
2/10/2001	28,000[A]
2/11/2001	27,100[A]
2/12/2001	27,600[A]
2/13/2001	29,800[A]
2/14/2001	31,700[A]
2/15/2001	36,300[A]
2/16/2001	57,100[A]
2/17/2001	79,800[A]
2/18/2001	97,400[A]
2/19/2001	102,000[A]
2/20/2001	97,800[A]
2/21/2001	85,400[A]
2/22/2001	79,800[A]
2/23/2001	81,200[A]
2/24/2001	82,300[A]
2/25/2001	79,900[A]
2/26/2001	74,100[A]
2/27/2001	74,600[A]
2/28/2001	90,400[A]

Date	Gage height (ft)
3/1/2001	108,000[A]
3/2/2001	124,000[A]
3/3/2001	131,000[A]
3/4/2001	133,000[A]
3/5/2001	131,000[A]
3/6/2001	127,000[A]
3/7/2001	125,000[A]
3/8/2001	118,000[A]
3/9/2001	113,000[A]
3/10/2001	112,000[A]
3/11/2001	112,000[A]
3/12/2001	121,000[A]
3/13/2001	132,000[A]
3/14/2001	138,000[A]
3/15/2001	133,000[A]
3/16/2001	127,000[A]
3/17/2001	120,000[A]
3/18/2001	112,000[A]
3/19/2001	106,000[A]
3/20/2001	105,000[A]
3/21/2001	103,000[A]
3/22/2001	99,900[A]
3/23/2001	91,100[A]
3/24/2001	82,200[A]
3/25/2001	76,200[A]
3/26/2001	71,300[A]
3/27/2001	69,200[A]
3/28/2001	70,600[A]
3/29/2001	71,700[A]
3/30/2001	68,000[A]
3/31/2001	62,300[A]

Date	Gage height (ft)
4/1/2001	57,600[A]
4/2/2001	55,200[A]
4/3/2001	48,000[A]
4/4/2001	42,000[A]
4/5/2001	41,500[A]
4/6/2001	43,100[A]
4/7/2001	41,800[A]
4/8/2001	41,000[A]
4/9/2001	39,800[A]
4/10/2001	36,400[A]
4/11/2001	32,800[A]
4/12/2001	29,600[A]
4/13/2001	29,000[A]
4/14/2001	31,800[A]
4/15/2001	37,600[A]
4/16/2001	43,100[A]
4/17/2001	46,700[A]
4/18/2001	50,000[A]
4/19/2001	51,200[A]
4/20/2001	49,700[A]
4/21/2001	44,000[A]
4/22/2001	37,600[A]
4/23/2001	33,000[A]
4/24/2001	29,600[A]
4/25/2001	28,800[A]
4/26/2001	29,900[A]
4/27/2001	35,200[A]
4/28/2001	37,800[A]
4/29/2001	35,900[A]
4/30/2001	32,500[A]

Date	Gage height (ft)
5/1/2001	28,600[A]
5/2/2001	25,500[A]
5/3/2001	23,100[A]
5/4/2001	21,300[A]
5/5/2001	20,100[A]
5/6/2001	20,400[A]
5/7/2001	20,500[A]
5/8/2001	24,300[A]
5/9/2001	28,600[A]
5/10/2001	29,100[A]
5/11/2001	28,500[A]
5/12/2001	28,100[A]
5/13/2001	27,000[A]
5/14/2001	26,400[A]
5/15/2001	26,100[A]
5/16/2001	25,000[A e]
5/17/2001	24,000[A e]
5/18/2001	22,000[A e]
5/19/2001	20,900[A]
5/20/2001	19,200[A]
5/21/2001	19,400[A]
5/22/2001	19,700[A]
5/23/2001	21,100[A]
5/24/2001	25,300[A]
5/25/2001	25,900[A]
5/26/2001	25,800[A]
5/27/2001	28,000[A]
5/28/2001	31,400[A]
5/29/2001	29,800[A]
5/30/2001	29,000[A e]
5/31/2001	42,500[A e]

Date	Gage height (ft)
6/1/2001	51,200[A e]
6/2/2001	55,300[A]
6/3/2001	55,300[A]
6/4/2001	59,300[A]
6/5/2001	59,100[A]
6/6/2001	55,300[A]
6/7/2001	49,600[A]
6/8/2001	44,300[A]
6/9/2001	38,200[A]
6/10/2001	32,600[A]
6/11/2001	30,800[A]
6/12/2001	29,700[A]
6/13/2001	28,700[A]
6/14/2001	26,900[A]
6/15/2001	25,900[A]
6/16/2001	25,900[A]
6/17/2001	26,600[A]
6/18/2001	26,100[A]
6/19/2001	24,600[A]
6/20/2001	23,300[A]
6/21/2001	21,100[A]
6/22/2001	18,900[A]
6/23/2001	16,900[A]
6/24/2001	16,300[A]
6/25/2001	17,300[A]
6/26/2001	18,000[A]
6/27/2001	18,300[A]
6/28/2001	18,100[A]
6/29/2001	18,600[A]
6/30/2001	19,200[A]

Date	Gage height (ft)
7/1/2001	20,200[A]
7/2/2001	23,000[A]
7/3/2001	26,200[A]
7/4/2001	27,100[A]
7/5/2001	23,700[A]
7/6/2001	21,100[A]
7/7/2001	19,100[A]
7/8/2001	18,100[A]
7/9/2001	18,600[A]
7/10/2001	17,800[A]
7/11/2001	16,200[A]
7/12/2001	14,700[A]
7/13/2001	12,900[A]
7/14/2001	11,000[A]
7/15/2001	9,610[A]
7/16/2001	9,020[A]
7/17/2001	8,630[A]
7/18/2001	8,200[A]
7/19/2001	7,840[A]
7/20/2001	7,870[A]
7/21/2001	8,260[A]
7/22/2001	8,910[A]
7/23/2001	8,910[A]
7/24/2001	9,090[A]
7/25/2001	9,830[A]
7/26/2001	9,960[A]
7/27/2001	10,000[A]
7/28/2001	9,820[A]
7/29/2001	8,750[A]
7/30/2001	8,550[A]
7/31/2001	8,520[A]

Date	Gage height (ft)
8/1/2001	8,500[A]
8/2/2001	8,470[A]
8/3/2001	8,550[A]
8/4/2001	8,670[A]
8/5/2001	8,790[A]
8/6/2001	9,290[A]
8/7/2001	9,000[A]
8/8/2001	7,320[A]
8/9/2001	6,530[A]
8/10/2001	6,730[A]
8/11/2001	6,310[A]
8/12/2001	5,930[A]
8/13/2001	5,990[A]
8/14/2001	6,450[A]
8/15/2001	6,350[A]
8/16/2001	5,500[A]
8/17/2001	5,310[A]
8/18/2001	5,170[A]
8/19/2001	4,810[A]
8/20/2001	4,630[A]
8/21/2001	4,820[A]
8/22/2001	5,200[A]
8/23/2001	5,260[A]
8/24/2001	5,170[A]
8/25/2001	4,970[A]
8/26/2001	4,710[A]
8/27/2001	4,680[A]
8/28/2001	4,580[A]
8/29/2001	4,600[A]
8/30/2001	4,940[A]
8/31/2001	5,320[A]

Date	Gage height (ft)
9/1/2001	7,330[A]
9/2/2001	10,100[A]
9/3/2001	12,700[A]
9/4/2001	12,100[A]
9/5/2001	10,800[A e]
9/6/2001	9,900[A e]
9/7/2001	8,990[A]
9/8/2001	8,520[A]
9/9/2001	8,490[A]
9/10/2001	9,360[A]
9/11/2001	10,600[A]
9/12/2001	10,900[A]
9/13/2001	9,850[A]
9/14/2001	8,770[A]
9/15/2001	8,090[A]
9/16/2001	7,950[A]
9/17/2001	7,660[A]
9/18/2001	7,310[A]
9/19/2001	6,170[A]
9/20/2001	5,900[A]
9/21/2001	6,140[A]
9/22/2001	6,900[A]
9/23/2001	6,990[A]
9/24/2001	7,370[A]
9/25/2001	8,120[A]
9/26/2001	11,600[A]
9/27/2001	13,500[A]
9/28/2001	11,900[A]
9/29/2001	10,200[A]
9/30/2001	8,910[A]

Preliminary

October 1999- September 2000

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/1999	2,890[A]
10/2/1999	3,180[A]
10/3/1999	3,280[A]
10/4/1999	2,920[A]
10/5/1999	2,600[A]
10/6/1999	2,420[A]
10/7/1999	2,460[A]
10/8/1999	2,690[A]
10/9/1999	3,000[A]
10/10/1999	3,000[A]
10/11/1999	2,710[A]
10/12/1999	2,410[A]
10/13/1999	2,250[A]
10/14/1999	2,220[A]
10/15/1999	2,240[A]
10/16/1999	2,240[A]
10/17/1999	2,220[A]
10/18/1999	2,150[A]
10/19/1999	2,090[A]
10/20/1999	2,010[A]
10/21/1999	2,220[A]
10/22/1999	2,610[A]
10/23/1999	2,930[A]
10/24/1999	2,880[A]
10/25/1999	2,490[A]
10/26/1999	2,210[A]
10/27/1999	2,180[A]
10/28/1999	2,300[A]
10/29/1999	2,370[A]
10/30/1999	2,420[A]
10/31/1999	2,470[A]

Date	Gage height (ft)
11/1/1999	2,370[A]
11/2/1999	2,170[A]
11/3/1999	2,150[A]
11/4/1999	2,280[A]
11/5/1999	2,380[A]
11/6/1999	2,420[A]
11/7/1999	2,410[A]
11/8/1999	2,270[A]
11/9/1999	2,080[A]
11/10/1999	2,030[A]
11/11/1999	2,160[A]
11/12/1999	2,260[A]
11/13/1999	2,300[A]
11/14/1999	2,290[A]
11/15/1999	2,180[A]
11/16/1999	2,000[A]
11/17/1999	1,920[A]
11/18/1999	2,040[A]
11/19/1999	2,170[A]
11/20/1999	2,250[A]
11/21/1999	2,270[A]
11/22/1999	2,170[A]
11/23/1999	2,010[A]
11/24/1999	1,910[A]
11/25/1999	1,910[A]
11/26/1999	2,030[A]
11/27/1999	2,220[A]
11/28/1999	2,330[A]
11/29/1999	2,310[A]
11/30/1999	2,200[A]

Date	Gage height (ft)
12/1/1999	2,300[A]
12/2/1999	2,420[A]
12/3/1999	2,450[A]
12/4/1999	2,360[A]
12/5/1999	2,270[A]
12/6/1999	2,370[A]
12/7/1999	2,210[A]
12/8/1999	2,080[A]
12/9/1999	2,240[A]
12/10/1999	3,130[A]
12/11/1999	4,130[A]
12/12/1999	4,430[A]
12/13/1999	4,430[A]
12/14/1999	5,070[A]
12/15/1999	8,550[A]
12/16/1999	13,000[A]
12/17/1999	16,400[A]
12/18/1999	15,200[A]
12/19/1999	12,200[A]
12/20/1999	10,800[A]
12/21/1999	9,890[A]
12/22/1999	9,490[A]
12/23/1999	9,340[A]
12/24/1999	8,930[A]
12/25/1999	7,920[A]
12/26/1999	7,100[A]
12/27/1999	6,380[A]
12/28/1999	6,150[A]
12/29/1999	5,850[A]
12/30/1999	4,970[A]
12/31/1999	4,530[A]

Date	Gage height (ft)
1/1/2000	4,400[A]
1/2/2000	4,480[A]
1/3/2000	4,710[A]
1/4/2000	4,820[A]
1/5/2000	5,030[A]
1/6/2000	5,270[A]
1/7/2000	4,700[A]
1/8/2000	4,310[A]
1/9/2000	3,790[A]
1/10/2000	3,420[A]
1/11/2000	3,390[A]
1/12/2000	3,770[A]
1/13/2000	4,390[A]
1/14/2000	4,520[A]
1/15/2000	4,370[A]
1/16/2000	4,170[A]
1/17/2000	4,110[A]
1/18/2000	4,310[A]
1/19/2000	4,560[A]
1/20/2000	4,630[A]
1/21/2000	4,610[A]
1/22/2000	4,410[A]
1/23/2000	4,010[A]
1/24/2000	3,680[A]
1/25/2000	3,810[A]
1/26/2000	4,020[A]
1/27/2000	3,870[A]
1/28/2000	3,900[A]
1/29/2000	3,870[A]
1/30/2000	3,630[A]
1/31/2000	3,320[A]

Date	Gage height (ft)
2/1/2000	3,390[A]
2/2/2000	4,220[A]
2/3/2000	4,810[A]
2/4/2000	5,090[A]
2/5/2000	5,330[A]
2/6/2000	5,420[A]
2/7/2000	5,290[A]
2/8/2000	5,750[A]
2/9/2000	7,060[A]
2/10/2000	7,550[A]
2/11/2000	7,540[A]
2/12/2000	7,210[A]
2/13/2000	6,770[A]
2/14/2000	6,410[A]
2/15/2000	6,160[A]
2/16/2000	5,260[A]
2/17/2000	4,580[A]
2/18/2000	4,330[A]
2/19/2000	4,220[A]
2/20/2000	3,940[A]
2/21/2000	3,750[A]
2/22/2000	3,780[A]
2/23/2000	4,030[A]
2/24/2000	4,390[A]
2/25/2000	4,500[A]
2/26/2000	4,790[A]
2/27/2000	5,230[A]
2/28/2000	5,870[A]
2/29/2000	7,390[A]

Date	Gage height (ft)
3/1/2000	10,900[A]
3/2/2000	12,900[A]
3/3/2000	13,100[A]
3/4/2000	13,300[A]
3/5/2000	13,800[A]
3/6/2000	13,800[A]
3/7/2000	13,500[A]
3/8/2000	13,000[A]
3/9/2000	13,000[A]
3/10/2000	12,500[A]
3/11/2000	12,100[A]
3/12/2000	11,300[A]
3/13/2000	11,300[A]
3/14/2000	11,400[A]
3/15/2000	11,800[A]
3/16/2000	11,900[A]
3/17/2000	12,000[A]
3/18/2000	11,200[A]
3/19/2000	10,300[A]
3/20/2000	9,890[A]
3/21/2000	9,770[A]
3/22/2000	10,500[A]
3/23/2000	10,200[A]
3/24/2000	9,710[A]
3/25/2000	8,830[A]
3/26/2000	7,780[A]
3/27/2000	7,490[A]
3/28/2000	7,460[A]
3/29/2000	7,850[A]
3/30/2000	8,990[A]
3/31/2000	10,200[A]

Date	Gage height (ft)
4/1/2000	11,900[A]
4/2/2000	13,800[A]
4/3/2000	16,200[A]
4/4/2000	18,200[A]
4/5/2000	19,400[A]
4/6/2000	20,100[A]
4/7/2000	21,300[A]
4/8/2000	22,000[A]
4/9/2000	20,500[A]
4/10/2000	19,200[A]
4/11/2000	18,900[A]
4/12/2000	17,200[A]
4/13/2000	14,400[A]
4/14/2000	13,800[A]
4/15/2000	16,600[A]
4/16/2000	17,800[A]
4/17/2000	22,300[A]
4/18/2000	25,200[A]
4/19/2000	25,100[A]
4/20/2000	23,300[A]
4/21/2000	20,800[A]
4/22/2000	17,200[A]
4/23/2000	13,500[A]
4/24/2000	12,000[A]
4/25/2000	10,900[A]
4/26/2000	9,790[A]
4/27/2000	8,830[A]
4/28/2000	8,260[A]
4/29/2000	7,420[A]
4/30/2000	6,640[A]

Date	Gage height (ft)
5/1/2000	6,170[A]
5/2/2000	6,140[A]
5/3/2000	6,470[A]
5/4/2000	7,460[A]
5/5/2000	10,700[A]
5/6/2000	20,500[A]
5/7/2000	27,500[A]
5/8/2000	30,300[A]
5/9/2000	31,500[A]
5/10/2000	32,600[A]
5/11/2000	30,800[A]
5/12/2000	27,900[A]
5/13/2000	24,900[A]
5/14/2000	22,900[A]
5/15/2000	21,300[A]
5/16/2000	19,000[A]
5/17/2000	15,100[A]
5/18/2000	12,600[A]
5/19/2000	12,700[A]
5/20/2000	16,600[A]
5/21/2000	21,600[A]
5/22/2000	25,100[A]
5/23/2000	29,000[A]
5/24/2000	31,900[A]
5/25/2000	29,900[A]
5/26/2000	27,700[A]
5/27/2000	24,400[A]
5/28/2000	20,900[A]
5/29/2000	20,200[A]
5/30/2000	19,900[A]
5/31/2000	18,900[A]

Date	Gage height (ft)
6/1/2000	18,300[A]
6/2/2000	18,000[A]
6/3/2000	17,600[A]
6/4/2000	17,800[A]
6/5/2000	18,700[A]
6/6/2000	19,200[A]
6/7/2000	17,700[A]
6/8/2000	17,700[A]
6/9/2000	20,400[A]
6/10/2000	21,700[A]
6/11/2000	20,700[A]
6/12/2000	20,400[A]
6/13/2000	21,200[A]
6/14/2000	21,900[A]
6/15/2000	21,700[A]
6/16/2000	24,900[A]
6/17/2000	33,400[A]
6/18/2000	37,000[A]
6/19/2000	36,700[A]
6/20/2000	38,700[A]
6/21/2000	42,700[A]
6/22/2000	45,400[A]
6/23/2000	49,300[A]
6/24/2000	52,100[A]
6/25/2000	52,100[A]
6/26/2000	50,100[A]
6/27/2000	49,200[A]
6/28/2000	50,000[A]
6/29/2000	50,200[A]
6/30/2000	48,400[A]

Date	Gage height (ft)
7/1/2000	42,600[A]
7/2/2000	35,100[A]
7/3/2000	31,100[A]
7/4/2000	29,100[A]
7/5/2000	27,900[A]
7/6/2000	27,500[A]
7/7/2000	24,100[A]
7/8/2000	21,400[A]
7/9/2000	19,000[A]
7/10/2000	18,600[A]
7/11/2000	18,500[A]
7/12/2000	17,400[A]
7/13/2000	16,400[A]
7/14/2000	16,700[A]
7/15/2000	16,500[A]
7/16/2000	16,400[A]
7/17/2000	16,400[A]
7/18/2000	16,800[A]
7/19/2000	16,200[A]
7/20/2000	13,700[A]
7/21/2000	12,000[A]
7/22/2000	9,760[A]
7/23/2000	7,250[A]
7/24/2000	6,540[A]
7/25/2000	7,570[A]
7/26/2000	7,850[A]
7/27/2000	7,170[A]
7/28/2000	7,310[A]
7/29/2000	7,200[A]
7/30/2000	6,110[A]
7/31/2000	5,710[A]

Date	Gage height (ft)
8/1/2000	6,880[A]
8/2/2000	7,600[A]
8/3/2000	7,720[A]
8/4/2000	7,640[A]
8/5/2000	6,900[A]
8/6/2000	5,620[A]
8/7/2000	5,170[A]
8/8/2000	6,110[A]
8/9/2000	6,910[A]
8/10/2000	7,170[A]
8/11/2000	7,420[A]
8/12/2000	7,610[A]
8/13/2000	6,290[A]
8/14/2000	5,090[A]
8/15/2000	6,660[A]
8/16/2000	8,360[A]
8/17/2000	7,570[A]
8/18/2000	6,600[A]
8/19/2000	5,870[A]
8/20/2000	4,860[A]
8/21/2000	4,350[A]
8/22/2000	5,000[A]
8/23/2000	5,660[A]
8/24/2000	5,830[A]
8/25/2000	5,870[A]
8/26/2000	5,520[A]
8/27/2000	4,580[A]
8/28/2000	3,990[A]
8/29/2000	4,300[A]
8/30/2000	5,050[A]
8/31/2000	5,380[A]

Date	Gage height (ft)
9/1/2000	5,550[A]
9/2/2000	5,400[A]
9/3/2000	4,520[A]
9/4/2000	3,880[A]
9/5/2000	4,300[A]
9/6/2000	5,180[A]
9/7/2000	5,990[A]
9/8/2000	6,060[A]
9/9/2000	5,500[A]
9/10/2000	4,770[A]
9/11/2000	4,190[A]
9/12/2000	4,150[A]
9/13/2000	4,710[A]
9/14/2000	5,250[A]
9/15/2000	5,200[A]
9/16/2000	5,430[A]
9/17/2000	5,110[A]
9/18/2000	4,570[A]
9/19/2000	4,500[A]
9/20/2000	4,330[A]
9/21/2000	4,270[A]
9/22/2000	4,260[A]
9/23/2000	4,220[A]
9/24/2000	4,060[A]
9/25/2000	3,860[A]
9/26/2000	3,950[A]
9/27/2000	6,260[A]
9/28/2000	6,000[A]
9/29/2000	5,280[A]
9/30/2000	4,300[A]

Preview Only

October 1998- September 1999

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/1998	4,640[A]
10/2/1998	4,050[A]
10/3/1998	4,710[A]
10/4/1998	5,110[A]
10/5/1998	4,990[A]
10/6/1998	7,710[A]
10/7/1998	14,200[A]
10/8/1998	26,800[A]
10/9/1998	34,400[A]
10/10/1998	34,700[A]
10/11/1998	33,600[A]
10/12/1998	31,600[A]
10/13/1998	29,000[A]
10/14/1998	29,100[A]
10/15/1998	29,900[A]
10/16/1998	29,700[A]
10/17/1998	28,100[A]
10/18/1998	26,000[A]
10/19/1998	24,600[A]
10/20/1998	22,600[A]
10/21/1998	20,400[A]
10/22/1998	17,800[A]
10/23/1998	16,600[A]
10/24/1998	15,200[A]
10/25/1998	12,600[A]
10/26/1998	11,400[A]
10/27/1998	10,200[A]
10/28/1998	9,320[A]
10/29/1998	9,100[A]
10/30/1998	7,680[A]
10/31/1998	6,450[A]

Date	Gage height (ft)
11/1/1998	5,670[A]
11/2/1998	5,330[A]
11/3/1998	5,390[A]
11/4/1998	5,300[A]
11/5/1998	5,180[A]
11/6/1998	6,740[A]
11/7/1998	9,560[A]
11/8/1998	10,700[A]
11/9/1998	10,000[A]
11/10/1998	8,620[A]
11/11/1998	8,160[A]
11/12/1998	7,930[A]
11/13/1998	8,760[A]
11/14/1998	13,200[A]
11/15/1998	12,300[A]
11/16/1998	12,800[A]
11/17/1998	13,800[A]
11/18/1998	13,200[A]
11/19/1998	12,400[A]
11/20/1998	12,900[A]
11/21/1998	9,600[A]
11/22/1998	7,750[A]
11/23/1998	6,560[A]
11/24/1998	5,930[A]
11/25/1998	4,740[A]
11/26/1998	4,700[A]
11/27/1998	4,550[A]
11/28/1998	4,500[A]
11/29/1998	4,430[A]
11/30/1998	4,510[A]

Date	Gage height (ft)
12/1/1998	5,290[A]
12/2/1998	6,030[A]
12/3/1998	6,590[A]
12/4/1998	7,320[A]
12/5/1998	7,590[A]
12/6/1998	7,790[A]
12/7/1998	12,400[A]
12/8/1998	21,000[A]
12/9/1998	25,500[A]
12/10/1998	28,300[A]
12/11/1998	32,200[A]
12/12/1998	33,900[A]
12/13/1998	33,500[A e]
12/14/1998	30,900[A]
12/15/1998	28,200[A]
12/16/1998	27,900[A]
12/17/1998	30,800[A]
12/18/1998	33,000[A]
12/19/1998	31,500[A]
12/20/1998	28,700[A]
12/21/1998	27,300[A]
12/22/1998	28,400[A]
12/23/1998	31,000[A]
12/24/1998	31,800[A]
12/25/1998	32,200[A]
12/26/1998	31,000[A]
12/27/1998	28,600[A]
12/28/1998	27,200[A]
12/29/1998	23,800[A]
12/30/1998	20,300[A]
12/31/1998	19,300[A]

Date	Gage height (ft)
1/1/1999	18,300[A]
1/2/1999	19,700[A]
1/3/1999	25,300[A]
1/4/1999	28,700[A]
1/5/1999	28,900[A]
1/6/1999	27,400[A]
1/7/1999	25,300[A]
1/8/1999	25,200[A]
1/9/1999	23,400[A]
1/10/1999	20,700[A]
1/11/1999	19,700[A]
1/12/1999	19,400[A]
1/13/1999	18,200[A]
1/14/1999	19,400[A]
1/15/1999	15,300[A]
1/16/1999	13,500[A]
1/17/1999	12,500[A]
1/18/1999	12,200[A]
1/19/1999	12,000[A]
1/20/1999	11,800[A]
1/21/1999	11,900[A]
1/22/1999	12,800[A]
1/23/1999	14,000[A]
1/24/1999	13,100[A]
1/25/1999	11,600[A]
1/26/1999	12,200[A]
1/27/1999	14,500[A]
1/28/1999	13,100[A]
1/29/1999	14,600[A]
1/30/1999	19,400[A]
1/31/1999	26,900[A]

Date	Gage height (ft)
2/1/1999	31,300[A]
2/2/1999	33,000[A]
2/3/1999	32,600[A]
2/4/1999	32,300[A]
2/5/1999	31,700[A]
2/6/1999	28,800[A]
2/7/1999	25,500[A]
2/8/1999	21,900[A]
2/9/1999	18,300[A]
2/10/1999	16,600[A]
2/11/1999	17,000[A]
2/12/1999	20,300[A]
2/13/1999	23,600[A]
2/14/1999	24,700[A]
2/15/1999	23,000[A]
2/16/1999	20,600[A]
2/17/1999	19,100[A]
2/18/1999	18,100[A]
2/19/1999	17,000[A]
2/20/1999	15,800[A]
2/21/1999	14,200[A]
2/22/1999	13,400[A]
2/23/1999	12,800[A]
2/24/1999	13,800[A]
2/25/1999	13,500[A]
2/26/1999	12,400[A]
2/27/1999	10,700[A]
2/28/1999	9,220[A]

Date	Gage height (ft)
3/1/1999	8,330[A]
3/2/1999	7,650[A]
3/3/1999	6,610[A]
3/4/1999	5,660[A]
3/5/1999	4,790[A]
3/6/1999	4,120[A]
3/7/1999	3,670[A]
3/8/1999	3,350[A]
3/9/1999	3,560[A]
3/10/1999	3,900[A]
3/11/1999	4,140[A]
3/12/1999	4,310[A]
3/13/1999	8,390[A]
3/14/1999	21,700[A]
3/15/1999	29,200[A]
3/16/1999	32,700[A]
3/17/1999	35,100[A]
3/18/1999	35,800[A]
3/19/1999	36,700[A]
3/20/1999	36,600[A]
3/21/1999	36,400[A]
3/22/1999	34,400[A]
3/23/1999	32,300[A]
3/24/1999	30,600[A]
3/25/1999	29,300[A]
3/26/1999	27,700[A]
3/27/1999	24,100[A]
3/28/1999	19,600[A]
3/29/1999	18,200[A]
3/30/1999	18,000[A]
3/31/1999	18,500[A]

Date	Gage height (ft)
4/1/1999	18,400[A]
4/2/1999	18,500[A]
4/3/1999	19,600[A]
4/4/1999	25,000[A]
4/5/1999	29,200[A]
4/6/1999	30,700[A]
4/7/1999	37,900[A]
4/8/1999	42,800[A]
4/9/1999	40,600[A]
4/10/1999	38,700[A]
4/11/1999	38,000[A]
4/12/1999	36,700[A]
4/13/1999	34,600[A]
4/14/1999	33,100[A]
4/15/1999	31,900[A]
4/16/1999	30,200[A]
4/17/1999	26,500[A]
4/18/1999	25,000[A]
4/19/1999	24,900[A]
4/20/1999	24,700[A]
4/21/1999	26,700[A]
4/22/1999	24,800[A]
4/23/1999	18,100[A]
4/24/1999	11,300[A]
4/25/1999	8,750[A]
4/26/1999	9,840[A]
4/27/1999	11,500[A]
4/28/1999	13,800[A]
4/29/1999	16,600[A]
4/30/1999	18,500[A]

Date	Gage height (ft)
5/1/1999	23,500[A]
5/2/1999	28,200[A]
5/3/1999	30,700[A]
5/4/1999	30,700[A]
5/5/1999	30,100[A]
5/6/1999	28,400[A]
5/7/1999	25,800[A]
5/8/1999	23,200[A]
5/9/1999	22,300[A]
5/10/1999	22,900[A]
5/11/1999	20,400[A]
5/12/1999	18,600[A]
5/13/1999	20,000[A]
5/14/1999	29,700[A]
5/15/1999	38,600[A]
5/16/1999	38,400[A]
5/17/1999	37,300[A]
5/18/1999	37,600[A]
5/19/1999	36,100[A]
5/20/1999	34,700[A]
5/21/1999	33,900[A]
5/22/1999	30,400[A]
5/23/1999	26,300[A]
5/24/1999	22,900[A]
5/25/1999	20,900[A]
5/26/1999	19,800[A]
5/27/1999	17,600[A]
5/28/1999	14,400[A]
5/29/1999	11,800[A]
5/30/1999	10,800[A]
5/31/1999	10,100[A]

Date	Gage height (ft)
6/1/1999	9,480[A]
6/2/1999	8,830[A]
6/3/1999	8,340[A]
6/4/1999	8,690[A]
6/5/1999	10,700[A]
6/6/1999	13,600[A]
6/7/1999	17,500[A]
6/8/1999	21,700[A]
6/9/1999	23,000[A]
6/10/1999	22,000[A]
6/11/1999	21,100[A]
6/12/1999	18,600[A]
6/13/1999	14,800[A]
6/14/1999	12,600[A]
6/15/1999	11,500[A]
6/16/1999	12,100[A]
6/17/1999	14,400[A]
6/18/1999	15,400[A]
6/19/1999	13,600[A]
6/20/1999	11,900[A]
6/21/1999	11,500[A]
6/22/1999	11,300[A]
6/23/1999	11,100[A]
6/24/1999	11,100[A]
6/25/1999	10,600[A]
6/26/1999	10,500[A]
6/27/1999	11,500[A]
6/28/1999	12,400[A]
6/29/1999	12,700[A]
6/30/1999	13,300[A]

Date	Gage height (ft)
7/1/1999	14,700[A]
7/2/1999	18,600[A]
7/3/1999	18,500[A]
7/4/1999	18,500[A]
7/5/1999	20,000[A]
7/6/1999	22,000[A]
7/7/1999	23,300[A]
7/8/1999	24,800[A]
7/9/1999	24,800[A]
7/10/1999	23,200[A]
7/11/1999	22,500[A]
7/12/1999	21,700[A]
7/13/1999	19,400[A]
7/14/1999	17,500[A]
7/15/1999	17,400[A]
7/16/1999	17,100[A]
7/17/1999	16,500[A]
7/18/1999	14,600[A]
7/19/1999	13,600[A]
7/20/1999	11,900[A]
7/21/1999	10,100[A]
7/22/1999	9,370[A]
7/23/1999	7,860[A]
7/24/1999	6,510[A]
7/25/1999	6,000[A]
7/26/1999	6,590[A]
7/27/1999	7,200[A]
7/28/1999	7,650[A]
7/29/1999	7,640[A]
7/30/1999	7,230[A]
7/31/1999	6,300[A]

Date	Gage height (ft)
8/1/1999	5,440[A]
8/2/1999	5,740[A]
8/3/1999	6,530[A]
8/4/1999	6,900[A]
8/5/1999	6,960[A]
8/6/1999	6,840[A]
8/7/1999	6,090[A]
8/8/1999	5,650[A]
8/9/1999	6,130[A]
8/10/1999	7,410[A]
8/11/1999	8,660[A]
8/12/1999	8,900[A]
8/13/1999	8,620[A]
8/14/1999	7,600[A]
8/15/1999	6,540[A]
8/16/1999	6,750[A]
8/17/1999	7,420[A]
8/18/1999	7,700[A]
8/19/1999	7,740[A]
8/20/1999	7,430[A]
8/21/1999	6,390[A]
8/22/1999	5,590[A]
8/23/1999	5,670[A]
8/24/1999	6,200[A]
8/25/1999	6,230[A]
8/26/1999	5,710[A]
8/27/1999	5,550[A]
8/28/1999	5,030[A]
8/29/1999	4,340[A]
8/30/1999	4,110[A]
8/31/1999	4,690[A]

Date	Gage height (ft)
9/1/1999	5,310[A]
9/2/1999	5,510[A]
9/3/1999	5,590[A]
9/4/1999	5,200[A]
9/5/1999	4,390[A e]
9/6/1999	4,090[A]
9/7/1999	4,740[A]
9/8/1999	5,100[A]
9/9/1999	4,700[A]
9/10/1999	4,400[A]
9/11/1999	4,280[A]
9/12/1999	3,990[A]
9/13/1999	3,820[A]
9/14/1999	3,920[A]
9/15/1999	4,220[A]
9/16/1999	4,420[A]
9/17/1999	4,400[A]
9/18/1999	4,480[A]
9/19/1999	4,290[A]
9/20/1999	3,890[A]
9/21/1999	3,860[A]
9/22/1999	4,010[A]
9/23/1999	3,910[A]
9/24/1999	3,740[A]
9/25/1999	3,580[A]
9/26/1999	3,280[A]
9/27/1999	3,040[A]
9/28/1999	2,880[A]
9/29/1999	2,760[A]
9/30/1999	2,820[A]

Preliminary

October 1997- September 1998

Red River at Spring Bank, AR
Latitude 33°05'22", Longitude 93°51'34" NAD83
Miller County, Arkansas, Hydrologic Unit 11140201
Datum of gage: 160.44 feet above NAVD88

Date	Gage height (ft)
10/1/1997	2,510[A]
10/2/1997	2,900[A]
10/3/1997	3,370[A]
10/4/1997	3,290[A]
10/5/1997	3,450[A]
10/6/1997	3,680[A]
10/7/1997	3,920[A]
10/8/1997	4,510[A]
10/9/1997	4,860[A]
10/10/1997	4,900[A]
10/11/1997	4,610[A]
10/12/1997	4,360[A]
10/13/1997	4,930[A]
10/14/1997	4,770[A]
10/15/1997	4,620[A]
10/16/1997	6,020[A]
10/17/1997	6,520[A]
10/18/1997	5,990[A]
10/19/1997	5,200[A]
10/20/1997	4,830[A]
10/21/1997	5,260[A]
10/22/1997	5,550[A]
10/23/1997	5,810[A]
10/24/1997	6,750[A]
10/25/1997	6,990[A]
10/26/1997	5,950[A]
10/27/1997	5,350[A]
10/28/1997	5,530[A]
10/29/1997	5,370[A]
10/30/1997	5,170[A]
10/31/1997	5,080[A]

Date	Gage height (ft)
11/1/1997	5,300[A]
11/2/1997	5,050[A]
11/3/1997	5,000[A]
11/4/1997	5,020[A]
11/5/1997	6,380[A]
11/6/1997	8,140[A]
11/7/1997	8,160[A]
11/8/1997	8,000[A]
11/9/1997	7,880[A]
11/10/1997	7,100[A]
11/11/1997	6,980[A]
11/12/1997	6,760[A]
11/13/1997	7,040[A]
11/14/1997	9,890[A]
11/15/1997	7,490[A]
11/16/1997	6,970[A]
11/17/1997	7,160[A]
11/18/1997	7,550[A]
11/19/1997	7,940[A]
11/20/1997	8,140[A]
11/21/1997	7,900[A]
11/22/1997	6,900[A]
11/23/1997	5,680[A]
11/24/1997	5,330[A]
11/25/1997	4,780[A]
11/26/1997	4,300[A]
11/27/1997	4,150[A]
11/28/1997	4,200[A]
11/29/1997	4,250[A]
11/30/1997	4,080[A]

Date	Gage height (ft)
12/1/1997	4,320[A]
12/2/1997	6,030[A]
12/3/1997	9,370[A]
12/4/1997	10,100[A]
12/5/1997	9,930[A]
12/6/1997	11,500[A]
12/7/1997	14,300[A]
12/8/1997	15,900[A]
12/9/1997	17,200[A]
12/10/1997	19,700[A]
12/11/1997	24,700[A]
12/12/1997	26,600[A]
12/13/1997	23,100[A]
12/14/1997	19,300[A]
12/15/1997	17,800[A]
12/16/1997	15,800[A]
12/17/1997	12,900[A]
12/18/1997	10,200[A]
12/19/1997	8,300[A]
12/20/1997	6,900[A]
12/21/1997	6,530[A]
12/22/1997	7,340[A]
12/23/1997	12,400[A]
12/24/1997	35,900[A]
12/25/1997	49,200[A]
12/26/1997	50,900[A]
12/27/1997	51,600[A]
12/28/1997	48,100[A]
12/29/1997	45,300[A]
12/30/1997	43,800[A]
12/31/1997	43,000[A]

Date	Gage height (ft)
1/1/1998	46,100[A]
1/2/1998	49,200[A]
1/3/1998	49,300[A]
1/4/1998	51,100[A]
1/5/1998	51,800[A]
1/6/1998	57,600[A]
1/7/1998	86,600[A]
1/8/1998	105,000[A]
1/9/1998	112,000[A]
1/10/1998	114,000[A]
1/11/1998	123,000[A]
1/12/1998	124,000[A]
1/13/1998	115,000[A]
1/14/1998	115,000[A]
1/15/1998	113,000[A]
1/16/1998	109,000[A]
1/17/1998	103,000[A]
1/18/1998	97,200[A]
1/19/1998	92,900[A]
1/20/1998	90,100[A]
1/21/1998	87,400[A]
1/22/1998	88,000[A]
1/23/1998	88,800[A]
1/24/1998	86,700[A]
1/25/1998	84,000[A]
1/26/1998	81,000[A]
1/27/1998	79,700[A]
1/28/1998	78,800[A]
1/29/1998	77,600[A]
1/30/1998	76,300[A]
1/31/1998	72,700[A]

Date	Gage height (ft)
2/1/1998	68,200[A]
2/2/1998	64,800[A]
2/3/1998	58,100[A]
2/4/1998	51,200[A]
2/5/1998	45,900[A]
2/6/1998	41,300[A]
2/7/1998	35,700[A]
2/8/1998	31,000[A]
2/9/1998	30,600[A]
2/10/1998	31,400[A]
2/11/1998	38,900[A]
2/12/1998	53,500[A]
2/13/1998	65,500[A]
2/14/1998	62,200[A]
2/15/1998	55,900[A]
2/16/1998	50,600[A]
2/17/1998	48,200[A]
2/18/1998	46,600[A]
2/19/1998	45,400[A]
2/20/1998	45,800[A]
2/21/1998	46,100[A]
2/22/1998	45,400[A]
2/23/1998	44,500[A]
2/24/1998	41,700[A]
2/25/1998	40,200[A]
2/26/1998	42,800[A]
2/27/1998	49,500[A]
2/28/1998	56,000[A]

Date	Gage height (ft)
3/1/1998	62,200[A]
3/2/1998	60,600[A]
3/3/1998	54,600[A]
3/4/1998	47,500[A]
3/5/1998	43,700[A]
3/6/1998	41,700[A]
3/7/1998	39,000[A]
3/8/1998	36,300[A]
3/9/1998	34,600[A]
3/10/1998	33,300[A]
3/11/1998	35,200[A]
3/12/1998	40,600[A]
3/13/1998	42,100[A]
3/14/1998	40,300[A]
3/15/1998	41,300[A]
3/16/1998	42,900[A]
3/17/1998	45,900[A]
3/18/1998	56,600[A]
3/19/1998	70,200[A]
3/20/1998	72,200[A]
3/21/1998	75,300[A]
3/22/1998	78,800[A]
3/23/1998	81,300[A]
3/24/1998	85,600[A]
3/25/1998	89,900[A]
3/26/1998	90,400[A]
3/27/1998	89,300[A]
3/28/1998	83,600[A]
3/29/1998	75,400[A]
3/30/1998	69,800[A]
3/31/1998	69,600[A]

Date	Gage height (ft)
4/1/1998	73,200[A]
4/2/1998	74,800[A]
4/3/1998	73,900[A]
4/4/1998	68,700[A]
4/5/1998	64,500[A]
4/6/1998	63,000[A]
4/7/1998	59,900[A]
4/8/1998	55,300[A]
4/9/1998	51,000[A]
4/10/1998	43,700[A]
4/11/1998	35,100[A]
4/12/1998	27,400[A]
4/13/1998	23,000[A]
4/14/1998	21,000[A]
4/15/1998	19,100[A]
4/16/1998	17,700[A]
4/17/1998	16,800[A]
4/18/1998	16,000[A]
4/19/1998	15,600[A]
4/20/1998	15,900[A]
4/21/1998	15,700[A]
4/22/1998	15,200[A]
4/23/1998	15,000[A]
4/24/1998	14,500[A]
4/25/1998	14,200[A]
4/26/1998	13,500[A]
4/27/1998	13,300[A]
4/28/1998	13,700[A]
4/29/1998	14,100[A]
4/30/1998	14,100[A]

Date	Gage height (ft)
5/1/1998	14,000[A]
5/2/1998	14,100[A]
5/3/1998	13,900[A]
5/4/1998	13,500[A]
5/5/1998	13,200[A]
5/6/1998	12,400[A]
5/7/1998	11,400[A]
5/8/1998	11,000[A]
5/9/1998	10,300[A]
5/10/1998	9,820[A]
5/11/1998	9,620[A]
5/12/1998	9,440[A]
5/13/1998	9,300[A]
5/14/1998	9,290[A]
5/15/1998	9,450[A]
5/16/1998	9,820[A]
5/17/1998	9,810[A]
5/18/1998	9,680[A]
5/19/1998	9,480[A]
5/20/1998	8,690[A]
5/21/1998	6,940[A]
5/22/1998	5,530[A]
5/23/1998	5,000[A]
5/24/1998	4,870[A]
5/25/1998	5,530[A]
5/26/1998	6,070[A]
5/27/1998	6,180[A]
5/28/1998	8,010[A]
5/29/1998	15,300[A]
5/30/1998	19,300[A]
5/31/1998	18,500[A]

Date	Gage height (ft)
6/1/1998	16,000[A]
6/2/1998	13,700[A]
6/3/1998	11,900[A]
6/4/1998	10,700[A]
6/5/1998	9,990[A]
6/6/1998	9,020[A]
6/7/1998	8,230[A]
6/8/1998	8,060[A]
6/9/1998	8,220[A]
6/10/1998	7,600[A]
6/11/1998	7,360[A]
6/12/1998	7,020[A]
6/13/1998	6,060[A]
6/14/1998	4,690[A]
6/15/1998	4,150[A]
6/16/1998	4,530[A]
6/17/1998	5,360[A]
6/18/1998	6,950[A]
6/19/1998	6,260[A]
6/20/1998	5,080[A]
6/21/1998	4,140[A]
6/22/1998	3,600[A]
6/23/1998	3,400[A]
6/24/1998	3,810[A]
6/25/1998	4,110[A]
6/26/1998	4,310[A]
6/27/1998	4,380[A]
6/28/1998	4,020[A]
6/29/1998	3,510[A]
6/30/1998	3,480[A]

Date	Gage height (ft)
7/1/1998	3,780[A]
7/2/1998	3,950[A]
7/3/1998	4,480[A]
7/4/1998	4,070[A]
7/5/1998	3,880[A]
7/6/1998	3,250[A]
7/7/1998	3,460[A]
7/8/1998	3,950[A]
7/9/1998	5,030[A]
7/10/1998	5,220[A]
7/11/1998	5,220[A]
7/12/1998	4,410[A]
7/13/1998	3,850[A]
7/14/1998	3,940[A]
7/15/1998	4,780[A]
7/16/1998	4,650[A]
7/17/1998	4,930[A]
7/18/1998	4,560[A]
7/19/1998	3,510[A]
7/20/1998	2,920[A]
7/21/1998	3,150[A]
7/22/1998	3,940[A]
7/23/1998	4,230[A]
7/24/1998	4,530[A]
7/25/1998	4,340[A]
7/26/1998	3,660[A]
7/27/1998	3,460[A]
7/28/1998	3,970[A]
7/29/1998	4,520[A]
7/30/1998	4,840[A]
7/31/1998	4,990[A]

Date	Gage height (ft)
8/1/1998	5,020[A]
8/2/1998	4,730[A]
8/3/1998	4,840[A]
8/4/1998	5,150[A]
8/5/1998	5,250[A]
8/6/1998	5,400[A]
8/7/1998	5,170[A]
8/8/1998	5,090[A]
8/9/1998	4,480[A]
8/10/1998	4,300[A]
8/11/1998	4,780[A]
8/12/1998	5,140[A]
8/13/1998	5,760[A]
8/14/1998	5,950[A]
8/15/1998	5,480[A]
8/16/1998	4,420[A]
8/17/1998	3,740[A]
8/18/1998	4,340[A]
8/19/1998	4,900[A]
8/20/1998	5,150[A]
8/21/1998	4,520[A]
8/22/1998	3,550[A]
8/23/1998	4,680[A]
8/24/1998	3,480[A]
8/25/1998	3,690[A]
8/26/1998	4,270[A]
8/27/1998	4,380[A]
8/28/1998	4,550[A]
8/29/1998	4,280[A]
8/30/1998	3,510[A]
8/31/1998	3,040[A]

Date	Gage height (ft)
9/1/1998	3,410[A]
9/2/1998	4,020[A]
9/3/1998	5,760[A]
9/4/1998	4,350[A]
9/5/1998	4,390[A]
9/6/1998	4,940[A]
9/7/1998	3,450[A]
9/8/1998	3,750[A]
9/9/1998	4,340[A]
9/10/1998	3,740[A]
9/11/1998	3,110[A]
9/12/1998	3,820[A]
9/13/1998	3,340[A]
9/14/1998	3,380[A]
9/15/1998	3,810[A]
9/16/1998	6,560[A]
9/17/1998	10,200[A]
9/18/1998	14,000[A]
9/19/1998	16,500[A]
9/20/1998	15,600[A]
9/21/1998	16,000[A]
9/22/1998	13,800[A]
9/23/1998	14,200[A]
9/24/1998	13,700[A]
9/25/1998	13,400[A]
9/26/1998	12,700[A]
9/27/1998	10,700[A]
9/28/1998	9,360[A]
9/29/1998	8,130[A]
9/30/1998	6,080[A]

Preview Only

APPENDIX F

Preview Only

Water-Data Report 2011

07349250 Lake Bistineau near Ringgold, LA

Red-Saline Basin
Loggy Bayou Subbasin

LOCATION.--Lat 32°19′46″, long 93°26′05″ referenced to North American Datum of 1983, in SE ¼ NW ¼ sec.31, T.16 N., R.10 W., Bossier Parish, LA, Hydrologic Unit 11140203, 40 ft upstream from spillway near right bank on upstream side of bridge on State Highway 154, 9.0 mi west of Ringgold, and 17.0 mi upstream from mouth of Loggy Bayou.

DRAINAGE AREA.--1443.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1968 to current year (gage heights only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder and concrete control at station. Datum of gage is 130.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with 12 adjustable gates and a fish ladder. Each gate is 6.0-ft wide and 5.0-ft high and fits into a notch along the spillway crest. The 1.75-ft thick spillway crest is flat and has an invert at 11 ft gage height with invert of the notches at 6 ft gage height. The fish ladder is 4-ft wide and begins flowing at 4.1 ft gage height. Capacity at spillway crest is 120,000 acre-ft. Dam was completed in 1935 and enlarged in 1951. Reservoir is used for flood control and conservation. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.79 ft, Apr. 18, 1991; minimum, 2.32 ft, Oct. 25 and 26, 2010.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.66 ft, May 30; minimum gage height, 2.32 ft, Oct. 25, 26.

Preview Only

07349250 Lake Bistineau near Ringgold, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.77	2.57	3.71	4.08	5.68	6.80	7.13	8.41	9.53	9.15	8.67	8.19
2	2.74	2.91	3.74	4.05	5.81	6.80	7.14	8.60	9.54	9.13	8.66	8.19
3	2.76	3.10	3.77	4.02	5.88	6.80	7.06	8.74	9.53	9.11	8.65	8.24
4	2.69	3.15	3.82	4.03	5.90	6.80	7.13	8.85	9.53	9.10	8.62	8.34
5	2.67	3.14	3.88	4.04	5.92	6.90	7.14	8.96	9.49	9.09	8.60	8.29
6	2.65	3.12	3.87	4.05	5.98	6.90	7.08	9.06	9.46	9.08	8.60	8.21
7	2.63	3.12	3.89	4.03	6.09	6.89	7.09	9.11	9.44	9.07	8.60	8.19
8	2.62	3.12	3.91	4.05	6.14	6.91	7.09	9.17	9.41	9.04	8.61	8.18
9	2.62	3.12	3.90	4.12	6.23	6.97	7.08	9.24	9.40	9.03	8.50	8.17
10	2.60	3.14	3.91	4.13	6.28	6.97	7.02	9.30	9.38	9.02	8.42	8.17
11	2.59	3.18	3.94	4.15	6.29	e6.95	7.09	9.23	9.36	8.95	8.43	8.17
12	2.60	3.17	4.01	4.17	6.33	e6.92	7.13	9.26	9.36	8.92	8.42	e8.18
13	2.61	3.23	3.97	4.13	6.34	e6.97	7.12	9.31	9.35	8.90	8.42	e8.16
14	2.61	3.24	3.95	4.13	6.40	e7.01	7.10	9.33	9.32	8.88	8.43	e8.13
15	2.56	3.31	3.86	4.15	6.42	7.03	7.15	9.32	9.31	8.90	8.44	e8.09
16	2.56	3.39	3.95	4.27	6.43	7.03	7.19	9.33	9.29	8.91	8.42	e8.07
17	2.55	3.38	4.04	4.51	6.45	7.02	7.13	9.31	9.25	8.92	e8.42	e8.05
18	2.54	3.47	4.01	4.72	6.50	7.05	7.11	9.29	9.23	8.96	e8.39	e8.03
19	2.54	3.45	3.98	4.85	6.52	7.09	7.07	9.29	9.20	8.89	e8.22	e8.02
20	2.57	3.46	3.94	4.97	6.49	7.08	7.16	9.30	9.17	8.84	8.18	e8.01
21	2.55	3.45	3.95	5.04	6.52	7.07	7.15	9.40	9.28	8.83	8.17	e7.99
22	2.51	3.46	4.01	5.08	6.60	7.05	6.99	9.40	9.39	8.81	8.17	e7.99
23	2.49	3.49	4.02	5.12	6.59	7.09	6.99	9.42	9.33	8.80	8.17	e7.97
24	2.47	3.45	4.01	5.21	6.54	7.15	7.00	9.42	9.28	8.79	e8.17	e7.95
25	2.42	3.52	4.07	5.35	6.71	7.12	6.99	9.44	9.27	8.70	8.21	e7.92
26	2.46	3.64	4.04	5.39	6.70	7.11	7.12	9.55	9.26	8.68	8.21	e7.91
27	2.55	3.57	3.99	5.43	6.66	7.19	7.80	9.56	9.26	8.70	8.22	e7.89
28	2.62	3.56	4.00	5.48	6.76	7.14	8.09	9.54	9.25	8.70	8.21	e7.86
29	2.57	3.60	4.00	5.49	---	7.11	8.21	9.59	9.18	8.73	8.21	e7.86
30	2.54	3.72	4.00	5.55	---	7.17	8.32	9.52	9.16	8.73	8.21	e7.84
31	2.54	---	4.02	5.61	---	7.13	---	9.52	---	8.69	8.19	---
Max	2.77	3.72	4.07	5.61	6.76	7.19	8.32	9.59	9.54	9.15	8.67	8.34
Min	2.42	2.57	3.71	4.02	5.68	6.80	6.99	8.41	9.16	8.68	8.17	7.84

Preview Only

07349250 Lake Bistineau near Ringgold, LA

Red-Saline Basin
Loggy Bayou Subbasin

LOCATION.--Lat 32°19′46″, long 93°26′05″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.31, T.16 N., R.10 W., Bossier Parish, LA, Hydrologic Unit 11140203, 40 ft upstream from spillway near right bank on upstream side of bridge on State Highway 154, 9.0 mi west of Ringgold, and 17.0 mi upstream from mouth of Loggy Bayou.

DRAINAGE AREA.--1443.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1968 to current year (gage heights only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder and concrete control at station. Datum of gage is 130.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with 12 adjustable gates and a fish ladder. Each gate is 6.0-ft wide and 5.0-ft high and fits into a notch along the spillway crest. The 1.75-ft thick spillway crest is flat and has an invert at 11 ft gage height with invert of the notches at 6 ft gage height. The fish ladder is 4-ft wide and begins flowing at 4.1 ft gage height. Capacity at spillway crest is 120,000 acre-ft. Dam was completed in 1935 and enlarged in 1951. Reservoir is used for flood control and conservation. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.79 ft, Apr. 18, 1991; minimum, 2.73 ft, Sep. 30, 2010.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.49 ft, Nov. 4; minimum gage height, 2.73 ft, Sept. 30.

Preview Only

07349250 Lake Bistineau near Ringgold, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.68	15.98	7.37	12.66	11.14	9.73	6.95	5.00	3.90	3.51	3.54	3.15
2	9.61	16.81	7.38	12.45	11.16	9.67	6.88	4.98	3.85	3.48	3.53	3.14
3	9.47	17.34	7.40	12.10	11.13	9.55	6.86	4.93	3.84	3.48	3.41	3.14
4	9.50	17.46	7.42	11.68	11.12	9.42	6.77	4.87	3.84	3.49	3.35	3.13
5	9.62	17.23	7.37	11.30	11.19	9.28	6.67	4.80	3.79	3.50	3.34	3.10
6	9.83	16.74	7.39	10.93	11.16	9.14	6.53	4.73	3.77	3.50	3.35	3.06
7	10.26	16.12	7.47	10.68	11.11	8.99	6.47	4.66	3.76	3.46	3.36	3.07
8	10.81	15.43	7.55	10.39	11.06	8.84	6.49	4.70	3.72	3.46	3.35	3.06
9	11.34	14.71	7.74	10.18	11.15	8.79	6.41	4.60	3.75	3.46	3.34	3.04
10	11.63	14.02	7.87	9.94	11.15	8.77	6.34	4.46	3.81	3.47	3.33	3.04
11	11.59	13.36	7.94	9.69	11.17	8.74	6.28	4.40	3.80	3.44	3.32	3.03
12	11.71	12.72	8.02	9.46	11.20	8.66	6.21	4.34	3.78	3.42	3.30	3.06
13	12.01	12.09	8.23	9.23	11.27	8.62	6.13	4.35	3.77	3.41	3.27	3.03
14	12.86	11.64	8.68	9.00	11.44	8.55	6.05	4.33	3.75	3.42	3.26	3.00
15	13.87	11.15	9.29	8.79	11.47	8.52	5.97	4.29	3.73	3.43	3.25	2.97
16	14.70	10.79	9.61	8.70	11.45	8.45	5.90	4.28	3.70	3.43	3.28	2.96
17	15.29	10.47	9.90	8.52	11.40	8.39	5.84	4.23	3.68	3.50	3.29	2.96
18	15.78	10.09	10.14	8.37	11.31	8.32	5.78	4.23	3.65	3.58	3.26	2.94
19	16.22	9.76	10.36	8.25	11.19	8.22	5.68	4.16	3.64	3.56	3.26	2.93
20	16.46	9.46	10.53	8.20	11.07	8.13	5.57	4.17	3.61	3.56	3.24	2.91
21	16.43	9.18	10.68	8.23	10.95	8.01	5.47	4.21	3.59	3.56	3.23	2.88
22	16.25	8.92	10.82	8.36	10.82	7.92	5.37	4.18	3.57	3.54	3.26	2.85
23	15.93	8.67	11.05	8.48	10.66	7.77	5.29	4.17	3.53	3.52	3.30	2.83
24	15.41	8.44	11.80	8.65	10.44	7.63	5.26	4.14	3.54	3.51	3.31	2.85
25	14.82	8.22	12.57	8.92	10.19	7.52	5.29	4.11	3.53	3.50	3.29	2.87
26	14.31	7.96	12.63	9.29	10.03	7.45	5.33	4.09	3.50	3.49	3.27	2.87
27	14.02	7.76	12.57	9.65	9.96	7.29	5.30	4.07	3.47	3.51	3.24	2.84
28	13.73	7.57	12.61	9.90	9.83	7.26	5.22	4.04	3.47	3.53	3.21	2.77
29	13.54	7.40	e12.75	10.26	---	7.18	5.08	4.01	3.52	3.56	3.19	2.77
30	14.31	7.47	e12.78	10.80	---	7.09	5.06	3.97	3.52	3.56	3.17	2.76
31	15.15	---	e12.62	11.09	---	7.00	---	3.93	---	3.55	3.16	---
Max	16.46	17.46	12.78	12.66	11.47	9.73	6.95	5.00	3.90	3.58	3.54	3.15
Min	9.47	7.40	7.37	8.20	9.83	7.00	5.06	3.93	3.47	3.41	3.16	2.76

Preview Only

07349250 Lake Bistineau near Ringgold, LA

Red-Saline Basin
Loggy Bayou Subbasin

LOCATION.--Lat 32°19′46″, long 93°26′10″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.31, T.16 N., R.10 W., Bossier Parish, LA, Hydrologic Unit 11140203, 40 ft upstream from spillway near right bank on upstream side of bridge on State Highway 154, 9.0 mi west of Ringgold, and 17.0 mi upstream from mouth of Loggy Bayou.

DRAINAGE AREA.--1443.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1968 to current year (gage heights only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder and concrete control at station. Datum of gage is 130.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with 12 adjustable gates and a fish ladder. Each gate is 6.0-ft wide and 5.0-ft high and fits into a notch along the spillway crest. The 1.75-ft thick spillway crest is flat and has an invert at 11 ft gage height with invert of the notches at 6 ft gage height. The fish ladder is 4-ft wide and begins flowing at 4.1 ft gage height. Capacity at spillway crest is 120,000 acre-ft. Dam was completed in 1935 and enlarged in 1951. Reservoir is used for flood control and conservation. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.79 ft, Apr. 18, 1991; minimum, 3.37 ft, Nov. 18, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.77 ft, May 12; minimum gage height, 3.70 ft, Nov. 3.

Preview Only

07349250 Lake Bistineau near Ringgold, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.71	3.76	4.76	5.35	5.36	7.39	11.77	11.42	11.32	e10.86	11.65	11.04
2	4.65	3.73	4.75	5.33	5.48	7.39	11.81	11.38	11.28	e10.84	11.69	11.02
3	4.59	3.75	4.74	5.30	5.58	7.40	11.90	11.90	11.28	10.81	11.68	11.01
4	4.54	3.83	4.96	5.34	5.63	7.39	11.88	12.41	11.35	10.78	e11.60	11.01
5	4.47	3.79	4.95	5.38	5.63	7.38	11.88	12.31	11.32	10.79	11.50	11.00
6	4.41	3.83	4.94	5.61	5.63	7.42	11.87	12.15	11.29	10.82	11.42	10.99
7	4.38	3.88	4.98	5.90	5.70	7.43	11.85	12.16	11.28	10.79	11.37	10.98
8	4.34	3.86	4.98	6.08	5.78	7.46	11.81	12.17	11.30	10.76	11.30	10.97
9	4.29	3.86	5.07	6.08	5.78	7.49	11.77	e12.33	11.28	10.74	11.25	10.95
10	4.23	3.85	5.24	6.13	5.82	7.50	11.77	e12.57	11.27	10.73	e11.23	10.95
11	4.19	3.92	5.32	6.14	5.92	7.64	11.70	12.71	11.28	10.72	e11.22	10.95
12	4.14	4.12	5.33	6.11	6.07	7.77	11.61	12.70	11.26	10.72	e11.20	11.00
13	4.10	4.20	5.30	6.13	6.14	7.96	11.55	12.66	11.23	10.68	e11.15	11.06
14	4.06	4.27	5.31	6.07	6.26	8.55	11.49	12.66	11.17	10.66	11.11	11.12
15	4.02	4.32	5.42	6.14	6.36	8.99	11.45	12.62	11.14	10.65	11.09	11.24
16	4.08	4.27	5.41	6.10	6.45	9.33	11.43	12.54	11.11	10.62	11.07	11.01
17	4.06	4.28	5.42	6.03	6.51	9.57	11.44	12.49	11.10	10.75	11.06	10.55
18	4.04	4.32	5.42	6.03	6.63	9.79	11.49	12.36	11.09	10.76	11.06	10.47
19	4.02	4.27	5.40	6.02	6.79	10.03	11.58	12.36	11.07	10.75	11.09	10.50
20	4.02	4.33	5.39	5.98	6.85	10.26	11.62	12.35	11.06	10.73	11.11	10.48
21	4.03	4.35	5.44	5.90	6.96	10.46	11.61	12.32	11.05	10.74	11.12	10.48
22	4.02	4.30	5.37	5.83	7.07	10.67	11.57	12.26	11.04	10.87	11.12	10.49
23	4.04	4.31	5.29	5.75	7.12	10.86	11.55	12.19	11.02	10.89	11.10	10.47
24	4.00	4.36	5.33	5.76	7.14	11.08	11.55	12.11	11.02	10.89	11.06	10.40
25	3.97	4.37	5.37	5.67	7.19	11.36	11.55	12.03	11.01	10.87	11.03	10.25
26	3.93	4.38	5.31	5.63	7.20	11.63	11.52	11.96	11.00	10.88	11.02	10.17
27	3.96	4.41	5.31	5.57	7.28	11.74	11.50	11.86	10.99	10.86	11.00	10.10
28	3.87	4.54	5.40	5.53	7.41	11.76	11.54	11.74	10.93	11.01	11.01	10.03
29	3.82	4.66	5.40	5.49	---	11.80	11.50	11.60	10.90	11.32	11.02	9.94
30	3.80	4.73	5.37	5.41	---	11.78	11.46	11.48	10.87	11.60	11.06	9.82
31	3.77	---	5.41	5.38	---	11.79	---	11.39	---	11.67	11.06	---
Max	4.71	4.73	5.44	6.14	7.41	11.80	11.90	12.71	11.35	11.67	11.69	11.24
Min	3.77	3.73	4.74	5.30	5.36	7.38	11.43	11.38	10.87	10.62	11.00	9.82

Preview Only

07349250 Lake Bistineau near Ringgold, LA

Red-Saline Basin
Loggy Bayou Subbasin

LOCATION.--Lat 32°19′46″, long 93°26′10″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.31, T.16 N., R.10 W., Bossier Parish, LA, Hydrologic Unit 11140203, 40 ft upstream from spillway near right bank on upstream side of bridge on State Highway 154, 9.0 mi west of Ringgold, and 17.0 mi upstream from mouth of Loggy Bayou.

DRAINAGE AREA.--1443.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1968 to current year (gage heights only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder and concrete control at station. Datum of gage is 130.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with 12 adjustable gates anda fish ladder. Each gate is 6.0-ft wide and 5.0-ft high and fits into a notch along the spillway crest. The 1.75-ft thickspillway crest is flat and has an invert at 11 ft gage height with invert of the notches at 6 ft gage height. The fish ladderis 4-ft wide and begins flowing at 4.1 ft gage height. Capacity at spillway crest is 120,000 acre-ft. Dam was completed in1935 and enlarged in 1951. Reservoir is used for flood control and conservation. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.79 ft, Apr. 18, 1991; minimum, 3.37 ft, Nov. 18, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.06 ft, Feb. 23; minimum gage height, 4.72 ft, Sept. 30.

Preview Only

07349250 Lake Bistineau near Ringgold, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.49	10.35	10.49	11.29	11.34	11.72	11.41	10.86	10.60	10.30	7.39	e4.97
2	10.48	10.34	10.52	11.28	11.33	11.62	11.34	10.82	10.52	10.29	7.26	e5.01
3	10.48	10.33	10.55	11.26	11.33	11.65	11.24	10.83	10.43	10.28	7.11	4.99
4	10.48	10.32	10.53	11.25	11.30	11.81	11.36	10.76	10.35	e10.27	6.98	5.01
5	10.47	10.30	10.54	11.25	11.31	11.81	11.52	10.68	10.29	e10.23	6.84	5.03
6	10.46	10.35	10.55	11.23	11.34	11.79	11.51	10.62	10.29	e10.19	6.71	4.99
7	10.46	10.30	10.53	11.23	11.31	11.77	11.49	10.52	10.29	e10.16	6.59	4.96
8	10.45	10.27	10.54	11.22	11.31	11.74	11.46	10.51	10.29	e10.14	6.49	4.92
9	10.46	10.27	10.55	11.24	11.32	11.74	11.46	10.44	10.28	e10.11	6.36	e4.91
10	10.43	10.28	10.56	11.20	11.32	11.76	11.47	10.37	10.50	e10.10	6.27	e4.89
11	10.42	10.26	10.55	11.19	11.29	11.79	11.52	10.33	10.72	e10.08	6.18	e4.91
12	10.40	10.26	10.59	11.19	11.34	11.78	11.51	10.24	10.91	10.06	6.16	4.97
13	10.37	10.25	10.63	11.19	11.36	11.75	11.49	10.18	11.03	10.05	6.10	e5.05
14	10.35	10.25	10.65	11.16	11.34	11.73	11.47	11.05	11.01	10.06	5.98	e5.16
15	10.36	10.26	10.74	11.16	11.37	11.73	11.42	11.83	10.99	e9.99	5.88	5.23
16	10.39	10.20	10.81	11.16	11.48	11.70	11.38	11.88	10.98	9.81	5.86	5.25
17	10.37	10.20	10.82	11.16	11.79	11.61	11.36	11.69	10.97	9.65	5.75	5.26
18	10.36	10.22	10.85	11.17	11.87	11.56	11.37	11.52	e10.96	9.49	5.66	5.26
19	10.38	10.22	10.89	11.19	11.86	11.59	11.35	11.41	e10.95	9.33	5.63	5.23
20	10.35	10.20	11.03	11.16	11.83	11.53	11.33	11.32	10.68	9.19	5.58	5.19
21	10.33	10.22	11.10	11.16	11.92	11.47	11.34	11.25	9.94	9.04	5.50	5.15
22	10.36	10.25	11.13	11.18	12.02	11.45	11.34	11.17	9.74	8.90	5.45	5.13
23	10.39	10.22	11.17	11.18	12.05	11.41	11.33	11.13	10.03	8.76	5.39	5.08
24	10.39	10.26	11.17	11.20	12.03	11.35	11.27	11.09	10.30	8.59	5.31	5.06
25	10.39	10.40	11.17	11.19	11.96	11.28	11.23	11.04	10.30	8.43	5.25	5.02
26	10.36	10.45	11.20	11.23	11.97	11.28	11.21	10.98	10.30	8.27	5.17	4.99
27	10.37	10.47	11.23	11.24	11.87	11.26	11.14	10.93	10.30	8.12	5.10	4.90
28	10.37	10.47	11.24	11.23	11.79	11.31	11.06	10.88	10.29	7.97	5.04	4.87
29	10.36	10.49	11.26	11.24	11.76	11.30	11.00	10.81	10.31	7.81	5.00	4.81
30	10.35	10.50	11.26	11.25	---	11.33	10.92	10.72	10.31	7.65	4.96	4.76
31	10.34	---	11.26	11.30	---	11.38	---	10.66	---	7.52	4.94	---
Max	10.49	10.50	11.26	11.30	12.05	11.81	11.52	11.88	11.03	10.30	7.39	5.26
Min	10.33	10.20	10.49	11.16	11.29	11.26	10.92	10.18	9.74	7.52	4.94	4.76

Preview Only

Water-Data Report 2007

07349250 Lake Bistineau near Ringgold, LA

Red-Saline Basin
Loggy Bayou Subbasin

LOCATION.--Lat 32°19′46″, long 93°26′10″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.31, T.16 N., R.10 W., Bossier Parish, LA, Hydrologic Unit 11140203, 40 ft upstream from spillway near right bank on upstream side of bridge on State Highway 154, 9.0 mi west of Ringgold, and 17.0 mi upstream from mouth of Loggy Bayou.

DRAINAGE AREA.--1443.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1968 to current year (gage heights only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder and concrete control at station. Datum of gage is 130.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with 12 adjustable gates and a fish ladder. Each gate is 6.0-ft wide and 5.0-ft high and fits into a notch along the spillway crest. The 1.75-ft thick spillway crest is flat and has an invert at 11 ft gage height with invert of the notches at 6 ft gage height. The fish ladder is 4-ft wide and begins flowing at 4.1 ft gage height. Capacity at spillway crest is 120,000 acre-ft. Dam was completed in 1935 and enlarged in 1951. Reservoir is used for flood control and conservation. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.79 ft, Apr. 18, 1991; minimum, 3.37 ft, Nov. 18, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.97 ft, Jan. 21, 22; minimum gage height, 9.55 ft, Oct. 15.

Preview Only

07349250 Lake Bistineau near Ringgold, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.76	10.15	e10.31	11.73	11.88	11.65	11.32	11.38	11.21	11.31	11.29	10.75
2	9.76	10.15	e10.30	11.65	11.79	11.65	11.37	11.36	11.21	11.28	11.28	10.72
3	9.75	10.11	e10.31	11.58	11.69	11.65	11.43	11.37	11.23	11.24	11.24	10.70
4	9.75	10.09	10.28	11.60	11.61	11.62	11.51	11.39	11.25	11.23	11.22	10.69
5	9.74	10.08	10.27	11.64	11.54	11.56	11.50	11.36	11.21	11.27	11.20	10.68
6	9.75	10.20	10.26	11.62	11.47	11.51	11.51	11.35	11.19	11.59	11.17	10.67
7	9.71	10.27	10.30	11.58	11.44	11.46	11.51	11.33	11.19	12.29	11.16	10.66
8	9.69	10.28	10.28	11.54	11.43	11.42	11.52	11.28	11.24	12.59	11.14	10.64
9	9.68	10.29	10.25	11.50	11.41	11.38	11.56	11.27	11.28	12.59	e11.13	10.63
10	9.66	10.29	10.25	11.46	11.37	11.35	11.63	11.34	11.29	12.62	e11.11	10.62
11	9.65	10.33	10.28	11.43	11.34	11.34	11.70	11.35	11.26	12.67	e11.09	10.63
12	9.67	10.31	10.53	11.44	11.33	11.31	11.71	11.36	11.19	12.69	e11.07	10.62
13	9.65	10.30	10.61	11.42	11.41	11.29	11.70	11.34	11.15	12.65	e11.05	10.61
14	9.63	10.29	10.63	11.95	11.45	11.29	11.74	11.32	11.13	12.56	e11.04	10.59
15	9.61	10.31	10.65	12.55	11.43	11.29	11.68	11.32	11.21	12.47	e11.02	10.58
16	9.72	e10.33	10.65	12.71	11.42	11.31	11.60	11.39	11.31	12.38	e10.99	10.55
17	9.82	10.32	10.67	12.62	11.43	11.27	11.53	11.38	11.39	12.27	e10.98	10.53
18	9.82	10.32	10.68	12.63	11.43	11.26	11.51	11.38	11.46	12.18	e10.97	10.51
19	9.84	10.33	10.70	12.73	11.40	11.26	11.47	11.36	11.52	12.09	e10.94	10.50
20	9.82	10.32	10.70	12.81	11.43	11.30	11.45	11.36	11.53	12.04	e10.92	10.48
21	9.81	10.31	10.73	12.93	11.46	11.29	11.42	11.36	11.59	12.01	e10.90	10.47
22	9.83	10.31	10.74	12.94	11.45	11.30	11.39	11.39	11.56	11.94	e10.88	10.46
23	9.79	e10.31	10.75	12.83	11.42	11.29	11.37	11.41	11.53	e11.85	e10.86	10.46
24	9.78	e10.30	10.77	12.66	11.38	11.29	11.33	11.42	11.50	11.76	e10.83	10.47
25	9.82	e10.31	10.89	12.50	11.52	11.28	11.44	11.41	11.43	e11.67	e10.81	10.48
26	9.96	e10.30	10.97	12.36	11.59	11.27	11.50	11.38	11.39	e11.57	e10.79	10.50
27	10.08	e10.30	11.00	12.26	11.63	11.28	11.52	11.34	11.40	e11.50	e10.78	10.54
28	10.10	e10.31	11.04	12.18	11.63	11.30	11.51	11.30	11.36	11.45	10.75	10.54
29	10.11	e10.32	11.07	12.09	---	11.30	11.49	11.29	11.34	11.39	10.74	10.52
30	10.09	e10.34	11.53	12.02	---	11.24	11.43	11.31	11.31	11.35	10.77	10.49
31	10.11	---	11.71	11.95	---	11.25	---	11.26	---	11.33	10.77	---
Max	10.11	10.34	11.71	12.94	11.88	11.65	11.74	11.42	11.59	12.69	11.29	10.75
Min	9.61	10.08	10.25	11.42	11.33	11.24	11.32	11.26	11.13	11.23	10.74	10.46

Preview Only

07349250 Lake Bistineau near Ringgold, LA

Red-Saline Basin
Loggy Bayou Subbasin

LOCATION.--Lat 32°19′46″, long 93°26′10″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.31, T.16 N., R.10 W., Bossier Parish, LA, Hydrologic Unit 11140203, 40 ft upstream from spillway near right bank on upstream side of bridge on State Highway 154, 9.0 mi west of Ringgold, and 17.0 mi upstream from mouth of Loggy Bayou.

DRAINAGE AREA.--1443.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1968 to current year (gage heights only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder and concrete control at station. Datum of gage is 130.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with 12 adjustable gates and a fish ladder. Each gate is 6.0-ft wide and 5.0-ft high and fits into a notch along the spillway crest. The 1.75-ft thick spillway crest is flat and has an invert at 11 ft gage height with invert of the notches at 6 ft gage height. The fish ladder is 4-ft wide and begins flowing at 4.1 ft gage height. Capacity at spillway crest is 120,000 acre-ft. Dam was completed in 1935 and enlarged in 1951. Reservoir is used for flood control and conservation. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.79 ft, Apr. 18, 1991; minimum, not determined..

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.34 ft, Mar 26; minimum gage height, not determined.

Preview Only

07349250 Lake Bistineau near Ringgold, LA—Continued

DCP
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.93	3.41	3.25	3.22	4.62	8.13	12.00	11.27	10.96	10.61	10.25	9.95
2	3.89	3.37	3.22	3.26	4.90	8.32	11.90	11.25	10.96	10.61	10.26	9.95
3	3.87	3.34	3.16	3.27	5.16	8.47	11.84	11.23	10.95	10.55	10.25	9.94
4	3.84	3.33	3.26	3.26	5.33	8.58	11.73	11.23	10.92	10.53	10.24	9.93
5	3.80	e3.30	3.26	3.28	5.42	8.70	11.59	11.27	10.89	10.52	10.23	9.91
6	3.80	3.35	3.21	3.27	5.55	8.82	11.46	11.32	10.90	10.55	10.23	9.91
7	3.79	3.33	3.22	3.19	5.63	8.88	11.39	11.37	10.94	10.54	10.18	9.88
8	3.71	3.32	3.26	3.12	5.69	8.89	11.39	11.37	10.94	10.52	10.16	9.78
9	3.67	e3.31	3.25	3.21	5.78	8.96	11.32	11.36	10.91	10.51	10.14	9.73
10	3.65	3.34	3.22	3.22	5.92	9.04	11.27	11.37	10.87	10.44	10.12	9.72
11	3.63	3.30	3.23	3.22	6.16	9.06	11.23	11.33	10.85	10.41	10.11	9.72
12	e3.61	e3.20	3.22	3.19	6.28	9.07	11.22	11.28	10.86	10.39	10.06	9.73
13	3.59	e3.23	3.22	3.27	6.39	9.15	11.21	11.24	10.88	10.39	10.02	9.73
14	3.58	e3.22	3.26	3.25	6.45	9.20	11.18	11.25	10.85	10.39	10.0	9.70
15	3.56	e3.25	3.35	3.20	6.50	9.18	11.15	11.24	10.78	10.39	9.98	9.68
16	3.54	e3.32	3.33	3.25	6.60	9.21	11.14	11.21	10.75	10.33	9.98	9.66
17	3.52	e3.24	3.34	3.43	6.79	9.26	11.13	11.18	10.75	10.30	9.97	9.64
18	3.50	e3.16	3.34	3.40	6.92	9.31	11.10	11.14	10.78	10.28	9.96	9.77
19	3.47	e3.15	3.35	3.38	6.97	9.55	11.10	11.12	10.81	10.26	9.96	9.77
20	3.43	e3.15	3.34	3.44	7.02	10.13	11.10	11.11	10.80	10.33	9.96	9.75
21	3.46	e3.15	3.33	3.51	7.08	10.93	11.21	11.11	10.75	10.33	9.91	9.71
22	3.43	e3.18	3.32	3.58	7.13	11.53	11.26	11.09	10.72	10.34	9.95	9.68
23	3.45	3.23	3.29	3.77	7.20	11.92	11.25	11.09	10.72	10.27	9.95	9.70
24	3.41	3.24	3.32	3.88	7.23	12.17	11.24	11.05	10.73	10.21	9.94	9.84
25	3.37	3.24	3.33	3.96	7.44	12.30	11.26	11.03	10.73	10.17	9.93	9.84
26	3.35	3.22	3.29	4.00	7.75	12.33	11.25	11.02	10.73	10.17	9.95	e9.81
27	3.34	3.17	3.21	4.04	7.86	12.30	11.20	11.00	10.67	10.23	9.99	e9.79
28	3.33	3.24	3.29	4.08	8.00	12.28	11.18	11.00	10.65	10.28	9.99	e9.79
29	e3.27	3.25	3.29	4.24	---	12.21	11.23	11.00	10.64	10.29	10.0	e9.79
30	e3.11	3.24	3.27	4.35	---	12.14	11.29	10.99	10.62	10.27	9.99	9.77
31	e3.18	---	3.28	4.46	---	12.07	---	10.99	---	10.25	9.97	---
Max	3.93	3.41	3.35	4.46	8.00	12.33	12.00	11.37	10.96	10.61	10.26	9.95
Min	e3.11	e3.15	3.16	3.12	4.62	8.13	11.10	10.99	10.62	10.17	9.91	9.64

Preview Only

October 2004- September 2005

Lake Bistineau (USGS Gage #########)
Latitude 32°19'46", Longitude 93°26'05" NAD83
Bossier Parish, Louisiana, Hydrologic Unit 11140203
Datum of gage: 130.00 feet above NGVD29. Spillway crest elevation is 141 ft

Date	Gage height (ft)
10/1/2004	3.52[A]
10/2/2004	3.52[A]
10/3/2004	3.52[A]
10/4/2004	3.51[A]
10/5/2004	3.52[A]
10/6/2004	3.51[A]
10/7/2004	3.52[A]
10/8/2004	3.65[A]
10/9/2004	4.17[A]
10/10/2004	4.80[A]
10/11/2004	5.86[A]
10/12/2004	6.63[A]
10/13/2004	7.06[A]
10/14/2004	7.36[A]
10/15/2004	7.57[A]
10/16/2004	7.80[A]
10/17/2004	7.96[A]
10/18/2004	8.08[A]
10/19/2004	8.17[A]
10/20/2004	8.15[A]
10/21/2004	8.02[A]
10/22/2004	7.84[A]
10/23/2004	7.66[A]
10/24/2004	7.49[A]
10/25/2004	7.33[A]
10/26/2004	7.16[A]
10/27/2004	7.01[A]
10/28/2004	6.85[A]
10/29/2004	6.67[A]
10/30/2004	6.56[A]
10/31/2004	6.45[A]

Date	Gage height (ft)
11/1/2004	6.42[A]
11/2/2004	6.61[A]
11/3/2004	6.79[A]
11/4/2004	6.93[A]
11/5/2004	7.02[A]
11/6/2004	7.09[A]
11/7/2004	7.19[A]
11/8/2004	7.31[A]
11/9/2004	7.44[A]
11/10/2004	7.57[A]
11/11/2004	7.73[A]
11/12/2004	7.87[A]
11/13/2004	7.98[A]
11/14/2004	8.05[A]
11/15/2004	8.04[A]
11/16/2004	7.96[A]
11/17/2004	7.86[A]
11/18/2004	7.78[A]
11/19/2004	7.67[A]
11/20/2004	7.61[A]
11/21/2004	7.61[A]
11/22/2004	7.71[A]
11/23/2004	7.81[A]
11/24/2004	8.06[A]
11/25/2004	8.29[A]
11/26/2004	8.45[A]
11/27/2004	8.64[A]
11/28/2004	8.80[A]
11/29/2004	8.93[A]
11/30/2004	9.45[A]

Date	Gage height (ft)
12/1/2004	10.02[A]
12/2/2004	10.43[A]
12/3/2004	10.75[A]
12/4/2004	11.01[A]
12/5/2004	11.19[A]
12/6/2004	11.36[A]
12/7/2004	11.74[A]
12/8/2004	11.91[A]
12/9/2004	12.05[A]
12/10/2004	12.16[A]
12/11/2004	12.11[A]
12/12/2004	11.96[A]
12/13/2004	11.85[A]
12/14/2004	11.73[A]
12/15/2004	11.61[A]
12/16/2004	11.53[A]
12/17/2004	11.43[A]
12/18/2004	11.33[A]
12/19/2004	11.25[A]
12/20/2004	11.11[A]
12/21/2004	11.05[A]
12/22/2004	11.12[A]
12/23/2004	11.29[A]
12/24/2004	11.23[A]
12/25/2004	11.11[A]
12/26/2004	11.03[A]
12/27/2004	10.99[A]
12/28/2004	10.97[A]
12/29/2004	10.98[A]
12/30/2004	10.99[A]
12/31/2004	10.99[A]

Date	Gage height (ft)
1/1/2005	11.01[A]
1/2/2005	10.96[A]
1/3/2005	10.91[A]
1/4/2005	10.86[A]
1/5/2005	10.80[A]
1/6/2005	P
1/7/2005	P
1/8/2005	P
1/9/2005	P
1/10/2005	P
1/11/2005	P
1/12/2005	10.94[A]
1/13/2005	11.27[A]
1/14/2005	11.63[A]
1/15/2005	11.80[A]
1/16/2005	11.91[A]
1/17/2005	11.97[A]
1/18/2005	11.99[A]
1/19/2005	11.93[A]
1/20/2005	11.86[A]
1/21/2005	11.77[A]
1/22/2005	11.70[A]
1/23/2005	11.57[A]
1/24/2005	11.43[A]
1/25/2005	11.31[A]
1/26/2005	11.23[A]
1/27/2005	11.12[A]
1/28/2005	11.10[A]
1/29/2005	11.14[A]
1/30/2005	11.10[A]
1/31/2005	11.26[A]

Date	Gage height (ft)
2/1/2005	11.55[A]
2/2/2005	11.84[A]
2/3/2005	11.93[A]
2/4/2005	11.97[A]
2/5/2005	11.96[A]
2/6/2005	11.92[A]
2/7/2005	12.10[A]
2/8/2005	12.34[A]
2/9/2005	12.36[A]
2/10/2005	12.30[A]
2/11/2005	12.19[A]
2/12/2005	12.11[A]
2/13/2005	12.05[A]
2/14/2005	12.03[A]
2/15/2005	11.96[A]
2/16/2005	11.94[A]
2/17/2005	11.87[A]
2/18/2005	11.80[A]
2/19/2005	11.74[A]
2/20/2005	11.69[A]
2/21/2005	11.63[A]
2/22/2005	11.60[A]
2/23/2005	11.64[A]
2/24/2005	11.78[A]
2/25/2005	11.75[A]
2/26/2005	11.69[A]
2/27/2005	11.64[A]
2/28/2005	11.62[A]

Date	Gage height (ft)
3/1/2005	11.61[A]
3/2/2005	11.58[A]
3/3/2005	11.58[A]
3/4/2005	11.56[A]
3/5/2005	11.53[A]
3/6/2005	11.50[A]
3/7/2005	11.48[A]
3/8/2005	11.47[A]
3/9/2005	11.45[A]
3/10/2005	11.41[A]
3/11/2005	11.41[A]
3/12/2005	11.35[A]
3/13/2005	11.39[A]
3/14/2005	11.40[A]
3/15/2005	11.37[A]
3/16/2005	11.36[A]
3/17/2005	11.33[A]
3/18/2005	11.29[A]
3/19/2005	11.31[A]
3/20/2005	11.33[A]
3/21/2005	11.34[A]
3/22/2005	11.37[A]
3/23/2005	11.39[A]
3/24/2005	11.41[A]
3/25/2005	11.40[A]
3/26/2005	11.46[A]
3/27/2005	11.51[A]
3/28/2005	11.56[A]
3/29/2005	11.56[A]
3/30/2005	11.60[A]
3/31/2005	11.61[A]

Date	Gage height (ft)
4/1/2005	11.68[A]
4/2/2005	11.62[A]
4/3/2005	11.57[A]
4/4/2005	11.53[A]
4/5/2005	11.51[A]
4/6/2005	11.57[A]
4/7/2005	11.57[A]
4/8/2005	11.53[A]
4/9/2005	11.47[A]
4/10/2005	11.42[A]
4/11/2005	11.76[A]
4/12/2005	12.42[A]
4/13/2005	12.45[A]
4/14/2005	12.35[A]
4/15/2005	12.27[A]
4/16/2005	12.21[A]
4/17/2005	12.15[A]
4/18/2005	12.09[A]
4/19/2005	12.03[A]
4/20/2005	11.97[A]
4/21/2005	11.91[A]
4/22/2005	11.84[A]
4/23/2005	11.77[A]
4/24/2005	11.64[A]
4/25/2005	11.50[A]
4/26/2005	11.43[A]
4/27/2005	11.34[A]
4/28/2005	11.23[A]
4/29/2005	11.22[A]
4/30/2005	11.22[A]

Date	Gage height (ft)
5/1/2005	11.17[A]
5/2/2005	11.18[A]
5/3/2005	11.16[A]
5/4/2005	11.15[A]
5/5/2005	11.13[A]
5/6/2005	11.11[A]
5/7/2005	11.09[A]
5/8/2005	11.06[A]
5/9/2005	11.09[A]
5/10/2005	11.07[A]
5/11/2005	11.05[A]
5/12/2005	11.04[A]
5/13/2005	11.02[A]
5/14/2005	11.01[A]
5/15/2005	11.03[A]
5/16/2005	10.99[A]
5/17/2005	10.97[A]
5/18/2005	10.95[A]
5/19/2005	10.94[A]
5/20/2005	10.94[A]
5/21/2005	10.95[A]
5/22/2005	10.94[A]
5/23/2005	10.94[A]
5/24/2005	10.93[A]
5/25/2005	10.95[A]
5/26/2005	10.93[A]
5/27/2005	10.91[A]
5/28/2005	10.92[A]
5/29/2005	10.94[A]
5/30/2005	10.96[A]
5/31/2005	10.97[A]

Date	Gage height (ft)
6/1/2005	10.96[A]
6/2/2005	10.96[A]
6/3/2005	10.94[A]
6/4/2005	10.93[A]
6/5/2005	10.95[A]
6/6/2005	11.00[A]
6/7/2005	11.03[A]
6/8/2005	11.03[A]
6/9/2005	11.02[A]
6/10/2005	11.02[A]
6/11/2005	11.06[A]
6/12/2005	11.10[A]
6/13/2005	11.10[A]
6/14/2005	11.09[A]
6/15/2005	11.08[A]
6/16/2005	11.07[A]
6/17/2005	11.08[A]
6/18/2005	11.08[A]
6/19/2005	11.06[A]
6/20/2005	11.04[A]
6/21/2005	11.03[A]
6/22/2005	11.01[A]
6/23/2005	11.00[A]
6/24/2005	10.98[A]
6/25/2005	10.97[A]
6/26/2005	10.95[A]
6/27/2005	10.93[A]
6/28/2005	10.91[A]
6/29/2005	10.90[A]
6/30/2005	10.89[A]

Date	Gage height (ft)
7/1/2005	10.90[A]
7/2/2005	10.89[A]
7/3/2005	10.88[A]
7/4/2005	10.86[A]
7/5/2005	10.86[A]
7/6/2005	10.92[A]
7/7/2005	10.91[A]
7/8/2005	10.90[A]
7/9/2005	10.88[A]
7/10/2005	10.88[A]
7/11/2005	10.82[A]
7/12/2005	10.78[A]
7/13/2005	10.78[A]
7/14/2005	10.79[A]
7/15/2005	10.65[A]
7/16/2005	10.34[A]
7/17/2005	10.08[A]
7/18/2005	9.80[A]
7/19/2005	9.53[A]
7/20/2005	9.26[A]
7/21/2005	8.99[A]
7/22/2005	8.72[A]
7/23/2005	8.47[A]
7/24/2005	8.23[A]
7/25/2005	8.01[A]
7/26/2005	7.77[A]
7/27/2005	7.56[A]
7/28/2005	7.37[A]
7/29/2005	7.17[A]
7/30/2005	6.98[A]
7/31/2005	6.80[A]

Date	Gage height (ft)
8/1/2005	6.61[A]
8/2/2005	6.42[A]
8/3/2005	6.26[A]
8/4/2005	6.13[A]
8/5/2005	5.98[A]
8/6/2005	5.85[A]
8/7/2005	5.74[A]
8/8/2005	5.62[A]
8/9/2005	5.52[A]
8/10/2005	5.43[A]
8/11/2005	5.33[A]
8/12/2005	5.23[A]
8/13/2005	5.13[A]
8/14/2005	5.03[A]
8/15/2005	4.96[A]
8/16/2005	4.86[A]
8/17/2005	4.79[A]
8/18/2005	4.70[A]
8/19/2005	4.63[A]
8/20/2005	4.57[A]
8/21/2005	4.51[A]
8/22/2005	4.44[A]
8/23/2005	4.38[A]
8/24/2005	P
8/25/2005	P
8/26/2005	4.26[A]
8/27/2005	4.24[A]
8/28/2005	4.27[A]
8/29/2005	4.27[A]
8/30/2005	4.15[A]
8/31/2005	4.11[A]

Date	Gage height (ft)
9/1/2005	4.07[A]
9/2/2005	4.03[A]
9/3/2005	4.01[A]
9/4/2005	3.98[A]
9/5/2005	3.93[A]
9/6/2005	3.88[A]
9/7/2005	3.86[A]
9/8/2005	3.81[A]
9/9/2005	3.76[A]
9/10/2005	3.73[A]
9/11/2005	3.69[A]
9/12/2005	3.66[A]
9/13/2005	3.62[A]
9/14/2005	3.59[A]
9/15/2005	3.57[A]
9/16/2005	3.58[A]
9/17/2005	3.58[A]
9/18/2005	3.54[A]
9/19/2005	3.51[A]
9/20/2005	3.50[A]
9/21/2005	3.48[A]
9/22/2005	3.46[A]
9/23/2005	3.45[A]
9/24/2005	3.67[A]
9/25/2005	3.89[A]
9/26/2005	4.06[A]
9/27/2005	4.08[A]
9/28/2005	4.04[A]
9/29/2005	4.06[A]
9/30/2005	3.98[A]

Preview Only

October 2003- September 2004

Lake Bistineau (USGS Gage #########)
Latitude 32°19'46", Longitude 93°26'05" NAD83
Bossier Parish, Louisiana, Hydrologic Unit 11140203
Datum of gage: 130.00 feet above NGVD29. Spillway crest elevation is 141 ft

Date	Gage height (ft)
10/1/2003	10.96[A]
10/2/2003	10.93[A]
10/3/2003	10.90[A]
10/4/2003	10.89[A]
10/5/2003	10.90[A]
10/6/2003	10.92[A]
10/7/2003	10.92[A]
10/8/2003	10.92[A]
10/9/2003	10.92[A]
10/10/2003	10.93[A]
10/11/2003	10.93[A]
10/12/2003	10.93[A]
10/13/2003	10.91[A]
10/14/2003	10.92[A]
10/15/2003	10.89[A]
10/16/2003	10.86[A]
10/17/2003	10.88[A]
10/18/2003	10.86[A]
10/19/2003	10.84[A]
10/20/2003	10.82[A]
10/21/2003	10.81[A]
10/22/2003	10.81[A]
10/23/2003	10.81[A]
10/24/2003	10.79[A]
10/25/2003	10.80[A]
10/26/2003	10.89[A]
10/27/2003	10.85[A]
10/28/2003	10.84[A]
10/29/2003	10.82[A]
10/30/2003	10.80[A]
10/31/2003	10.82[A]

Date	Gage height (ft)
11/1/2003	10.83[A]
11/2/2003	10.82[A]
11/3/2003	10.82[A]
11/4/2003	10.81[A]
11/5/2003	10.80[A]
11/6/2003	10.82[A]
11/7/2003	10.80[A]
11/8/2003	10.79[A]
11/9/2003	10.77[A]
11/10/2003	10.76[A]
11/11/2003	10.74[A]
11/12/2003	10.74[A]
11/13/2003	10.78[A]
11/14/2003	10.73[A]
11/15/2003	10.71[A]
11/16/2003	10.84[A]
11/17/2003	10.88[A]
11/18/2003	11.03[A]
11/19/2003	11.09[A]
11/20/2003	11.07[A]
11/21/2003	11.05[A]
11/22/2003	11.04[A]
11/23/2003	11.09[A]
11/24/2003	11.12[A]
11/25/2003	11.07[A]
11/26/2003	11.08[A]
11/27/2003	11.24[A]
11/28/2003	11.20[A]
11/29/2003	11.15[A]
11/30/2003	11.12[A]

Date	Gage height (ft)
12/1/2003	11.12[A]
12/2/2003	11.10[A]
12/3/2003	11.07[A]
12/4/2003	11.07[A]
12/5/2003	11.07[A]
12/6/2003	11.04[A]
12/7/2003	11.02[A]
12/8/2003	11.00[A]
12/9/2003	11.01[A]
12/10/2003	11.08[A]
12/11/2003	11.06[A]
12/12/2003	11.07[A]
12/13/2003	11.13[A]
12/14/2003	11.12[A]
12/15/2003	11.08[A]
12/16/2003	11.12[A]
12/17/2003	11.09[A]
12/18/2003	11.09[A]
12/19/2003	11.08[A]
12/20/2003	11.07[A]
12/21/2003	11.04[A]
12/22/2003	11.04[A]
12/23/2003	11.08[A]
12/24/2003	11.08[A]
12/25/2003	11.06[A]
12/26/2003	11.05[A]
12/27/2003	11.03[A]
12/28/2003	11.04[A]
12/29/2003	11.12[A]
12/30/2003	11.12[A]
12/31/2003	11.11[A]

Date	Gage height (ft)
1/1/2004	11.10[A]
1/2/2004	11.10[A]
1/3/2004	11.10[A]
1/4/2004	11.12[A]
1/5/2004	11.20[A]
1/6/2004	11.17[A]
1/7/2004	11.12[A]
1/8/2004	11.12[A]
1/9/2004	11.14[A]
1/10/2004	11.12[A]
1/11/2004	11.10[A]
1/12/2004	11.09[A]
1/13/2004	11.09[A]
1/14/2004	11.07[A]
1/15/2004	11.08[A]
1/16/2004	11.07[A]
1/17/2004	11.11[A]
1/18/2004	11.14[A]
1/19/2004	11.15[A]
1/20/2004	11.13[A]
1/21/2004	11.11[A]
1/22/2004	11.10[A]
1/23/2004	11.09[A]
1/24/2004	11.16[A]
1/25/2004	11.49[A]
1/26/2004	11.54[A]
1/27/2004	11.50[A]
1/28/2004	11.43[A]
1/29/2004	11.39[A]
1/30/2004	11.40[A]
1/31/2004	11.35[A]

Date	Gage height (ft)
2/1/2004	11.32[A]
2/2/2004	11.33[A]
2/3/2004	11.34[A]
2/4/2004	11.34[A]
2/5/2004	11.67[A]
2/6/2004	11.79[A]
2/7/2004	11.74[A]
2/8/2004	11.64[A]
2/9/2004	11.58[A]
2/10/2004	11.64[A]
2/11/2004	11.69[A]
2/12/2004	11.89[A]
2/13/2004	11.91[A]
2/14/2004	11.91[A]
2/15/2004	11.94[A]
2/16/2004	11.91[A]
2/17/2004	11.90[A]
2/18/2004	11.87[A]
2/19/2004	11.82[A]
2/20/2004	11.84[A]
2/21/2004	11.82[A]
2/22/2004	11.80[A]
2/23/2004	11.81[A]
2/24/2004	11.81[A]
2/25/2004	11.91[A]
2/26/2004	11.97[A]
2/27/2004	11.94[A]
2/28/2004	11.88[A]
2/29/2004	11.83[A]

Date	Gage height (ft)
3/1/2004	12.06[A]
3/2/2004	12.19[A]
3/3/2004	12.23[A]
3/4/2004	12.22[A]
3/5/2004	12.53[A]
3/6/2004	12.79[A]
3/7/2004	12.91[A]
3/8/2004	12.84[A]
3/9/2004	12.72[A]
3/10/2004	12.56[A]
3/11/2004	12.43[A]
3/12/2004	12.32[A]
3/13/2004	12.20[A]
3/14/2004	12.14[A]
3/15/2004	12.07[A]
3/16/2004	12.01[A]
3/17/2004	11.91[A]
3/18/2004	11.84[A]
3/19/2004	11.76[A]
3/20/2004	11.68[A]
3/21/2004	11.70[A]
3/22/2004	11.63[A]
3/23/2004	11.57[A]
3/24/2004	11.54[A]
3/25/2004	11.52[A]
3/26/2004	11.49[A]
3/27/2004	11.45[A]
3/28/2004	11.42[A]
3/29/2004	11.71[A]
3/30/2004	11.84[A]
3/31/2004	11.83[A]

Date	Gage height (ft)
4/1/2004	11.74[A]
4/2/2004	11.67[A]
4/3/2004	11.62[A]
4/4/2004	11.59[A]
4/5/2004	11.56[A]
4/6/2004	11.54[A]
4/7/2004	11.53[A]
4/8/2004	11.54[A]
4/9/2004	11.49[A]
4/10/2004	11.44[A]
4/11/2004	11.45[A]
4/12/2004	11.45[A]
4/13/2004	11.47[A]
4/14/2004	11.46[A]
4/15/2004	11.44[A]
4/16/2004	11.43[A]
4/17/2004	11.41[A]
4/18/2004	11.38[A]
4/19/2004	11.37[A]
4/20/2004	11.32[A]
4/21/2004	11.31[A]
4/22/2004	11.28[A]
4/23/2004	11.27[A]
4/24/2004	11.27[A]
4/25/2004	11.34[A]
4/26/2004	11.40[A]
4/27/2004	11.37[A]
4/28/2004	11.33[A]
4/29/2004	11.35[A]
4/30/2004	11.39[A]

Date	Gage height (ft)
5/1/2004	11.56[A]
5/2/2004	11.76[A]
5/3/2004	11.83[A]
5/4/2004	11.84[A]
5/5/2004	11.83[A]
5/6/2004	11.80[A]
5/7/2004	11.77[A]
5/8/2004	11.74[A]
5/9/2004	11.71[A]
5/10/2004	11.66[A]
5/11/2004	11.61[A]
5/12/2004	11.62[A]
5/13/2004	11.59[A]
5/14/2004	11.60[A]
5/15/2004	11.54[A]
5/16/2004	11.46[A]
5/17/2004	11.42[A]
5/18/2004	11.43[A]
5/19/2004	11.46[A]
5/20/2004	11.48[A]
5/21/2004	11.49[A]
5/22/2004	11.46[A]
5/23/2004	11.41[A]
5/24/2004	11.35[A]
5/25/2004	11.30[A]
5/26/2004	11.25[A]
5/27/2004	11.20[A]
5/28/2004	11.19[A]
5/29/2004	11.15[A]
5/30/2004	11.11[A]
5/31/2004	11.19[A]

Date	Gage height (ft)
6/1/2004	11.26[A]
6/2/2004	11.43[A]
6/3/2004	11.60[A]
6/4/2004	11.66[A]
6/5/2004	11.63[A]
6/6/2004	11.60[A]
6/7/2004	11.58[A]
6/8/2004	11.60[A]
6/9/2004	11.67[A]
6/10/2004	11.67[A]
6/11/2004	11.65[A]
6/12/2004	11.62[A]
6/13/2004	11.62[A]
6/14/2004	11.73[A]
6/15/2004	11.74[A]
6/16/2004	11.80[A]
6/17/2004	11.87[A]
6/18/2004	11.92[A]
6/19/2004	11.95[A]
6/20/2004	12.03[A]
6/21/2004	11.99[A]
6/22/2004	11.96[A]
6/23/2004	12.09[A]
6/24/2004	12.15[A]
6/25/2004	12.13[A]
6/26/2004	12.18[A]
6/27/2004	12.29[A]
6/28/2004	12.41[A]
6/29/2004	12.46[A]
6/30/2004	12.49[A]

Date	Gage height (ft)
7/1/2004	12.60[A]
7/2/2004	12.53[A]
7/3/2004	12.41[A]
7/4/2004	12.30[A]
7/5/2004	12.22[A]
7/6/2004	12.16[A]
7/7/2004	12.12[A]
7/8/2004	12.08[A]
7/9/2004	12.06[A]
7/10/2004	12.03[A]
7/11/2004	11.97[A]
7/12/2004	11.90[A]
7/13/2004	11.82[A]
7/14/2004	11.72[A]
7/15/2004	11.57[A]
7/16/2004	11.23[A]
7/17/2004	10.93[A]
7/18/2004	10.68[A]
7/19/2004	10.36[A]
7/20/2004	10.05[A]
7/21/2004	9.75[A]
7/22/2004	9.45[A]
7/23/2004	9.16[A]
7/24/2004	8.88[A]
7/25/2004	8.60[A]
7/26/2004	8.32[A]
7/27/2004	8.04[A]
7/28/2004	7.78[A]
7/29/2004	7.53[A]
7/30/2004	[P]
7/31/2004	[P]

Date	Gage height (ft)
8/1/2004	[P]
8/2/2004	[P]
8/3/2004	6.70[A]
8/4/2004	6.52[A]
8/5/2004	6.36[A]
8/6/2004	6.23[A]
8/7/2004	6.05[A]
8/8/2004	5.89[A]
8/9/2004	5.76[A]
8/10/2004	5.63[A]
8/11/2004	5.54[A]
8/12/2004	5.51[A]
8/13/2004	5.37[A]
8/14/2004	5.26[A]
8/15/2004	5.16[A]
8/16/2004	5.05[A]
8/17/2004	4.95[A]
8/18/2004	4.86[A]
8/19/2004	4.79[A]
8/20/2004	4.79[A]
8/21/2004	4.76[A]
8/22/2004	4.76[A]
8/23/2004	4.75[A]
8/24/2004	4.69[A]
8/25/2004	4.67[A]
8/26/2004	4.63[A]
8/27/2004	4.60[A]
8/28/2004	4.62[A]
8/29/2004	4.66[A]
8/30/2004	4.63[A]
8/31/2004	4.51[A]

Date	Gage height (ft)
9/1/2004	4.39[A]
9/2/2004	4.32[A]
9/3/2004	4.26[A]
9/4/2004	4.22[A]
9/5/2004	4.16[A]
9/6/2004	4.12[A]
9/7/2004	4.10[A]
9/8/2004	4.04[A]
9/9/2004	3.98[A]
9/10/2004	3.95[A]
9/11/2004	3.91[A]
9/12/2004	3.87[A]
9/13/2004	3.83[A]
9/14/2004	3.79[A]
9/15/2004	3.77[A]
9/16/2004	3.76[A]
9/17/2004	3.71[A]
9/18/2004	3.68[A]
9/19/2004	3.66[A]
9/20/2004	3.64[A]
9/21/2004	3.63[A]
9/22/2004	3.61[A]
9/23/2004	3.60[A]
9/24/2004	3.63[A]
9/25/2004	3.67[A]
9/26/2004	3.66[A]
9/27/2004	3.63[A]
9/28/2004	3.60[A]
9/29/2004	3.58[A]
9/30/2004	3.55[A]

Preview Only

October 2002- September 2003

Lake Bistineau (USGS Gage #########)
Latitude 32°19'46", Longitude 93°26'05" NAD83
Bossier Parish, Louisiana, Hydrologic Unit 11140203
Datum of gage: 130.00 feet above NGVD29. Spillway crest elevation is 141 ft

Date	Gage height (ft)
10/1/2002	10.39[A]
10/2/2002	10.38[A]
10/3/2002	10.44[A]
10/4/2002	10.42[A]
10/5/2002	10.44[A]
10/6/2002	10.41[A]
10/7/2002	10.49[A]
10/8/2002	10.46[A]
10/9/2002	10.47[A]
10/10/2002	10.57[A]
10/11/2002	10.59[A]
10/12/2002	10.59[A]
10/13/2002	10.61[A]
10/14/2002	10.58[A]
10/15/2002	10.56[A]
10/16/2002	10.54[A]
10/17/2002	10.52[A]
10/18/2002	10.50[A]
10/19/2002	10.57[A]
10/20/2002	10.62[A]
10/21/2002	10.62[A]
10/22/2002	10.62[A]
10/23/2002	10.63[A]
10/24/2002	10.63[A]
10/25/2002	10.63[A]
10/26/2002	10.65[A]
10/27/2002	10.68[A]
10/28/2002	10.69[A]
10/29/2002	10.76[A]
10/30/2002	10.77[A]
10/31/2002	10.79[A]

Date	Gage height (ft)
11/1/2002	10.79[A]
11/2/2002	10.78[A]
11/3/2002	10.81[A]
11/4/2002	10.87[A]
11/5/2002	11.16[A]
11/6/2002	11.20[A]
11/7/2002	11.18[A]
11/8/2002	11.14[A]
11/9/2002	11.12[A]
11/10/2002	11.12[A]
11/11/2002	11.14[A]
11/12/2002	11.13[A]
11/13/2002	11.09[A]
11/14/2002	11.06[A]
11/15/2002	11.09[A]
11/16/2002	11.08[A]
11/17/2002	11.03[A]
11/18/2002	11.01[A]
11/19/2002	11.04[A]
11/20/2002	11.04[A]
11/21/2002	11.03[A]
11/22/2002	11.03[A]
11/23/2002	11.01[A]
11/24/2002	11.00[A]
11/25/2002	11.02[A]
11/26/2002	11.06[A]
11/27/2002	11.08[A]
11/28/2002	11.05[A]
11/29/2002	11.03[A]
11/30/2002	11.06[A]

Date	Gage height (ft)
12/1/2002	11.05[A]
12/2/2002	11.03[A]
12/3/2002	11.09[A]
12/4/2002	11.19[A]
12/5/2002	11.22[A]
12/6/2002	11.21[A]
12/7/2002	11.19[A]
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12/10/2002	11.17[A]
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12/12/2002	11.18[A]
12/13/2002	11.26[A]
12/14/2002	11.28[A]
12/15/2002	11.26[A]
12/16/2002	11.24[A]
12/17/2002	11.20[A]
12/18/2002	11.22[A]
12/19/2002	11.33[A]
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12/22/2002	11.38[A]
12/23/2002	11.51[A]
12/24/2002	11.86[A]
12/25/2002	11.99[A]
12/26/2002	12.06[A]
12/27/2002	12.05[A]
12/28/2002	12.02[A]
12/29/2002	12.00[A]
12/30/2002	12.02[A]
12/31/2002	12.24[A]

Date	Gage height (ft)
1/1/2003	12.22[A]
1/2/2003	12.16[A]
1/3/2003	12.08[A]
1/4/2003	11.98[A]
1/5/2003	11.93[A]
1/6/2003	11.89[A]
1/7/2003	11.82[A]
1/8/2003	P
1/9/2003	P
1/10/2003	P
1/11/2003	11.67[A]
1/12/2003	11.62[A]
1/13/2003	11.55[A]
1/14/2003	11.50[A]
1/15/2003	11.43[A]
1/16/2003	11.41[A]
1/17/2003	11.34[A]
1/18/2003	11.29[A]
1/19/2003	11.27[A]
1/20/2003	11.24[A]
1/21/2003	11.26[A]
1/22/2003	11.28[A]
1/23/2003	11.26[A]
1/24/2003	11.21[A]
1/25/2003	11.19[A]
1/26/2003	11.21[A]
1/27/2003	11.20[A]
1/28/2003	11.17[A]
1/29/2003	11.21[A]
1/30/2003	11.21[A]
1/31/2003	11.18[A]

Date	Gage height (ft)
2/1/2003	11.18[A]
2/2/2003	11.15[A]
2/3/2003	11.18[A]
2/4/2003	11.20[A]
2/5/2003	11.20[A]
2/6/2003	11.26[A]
2/7/2003	11.29[A]
2/8/2003	11.26[A]
2/9/2003	11.29[A]
2/10/2003	11.31[A]
2/11/2003	11.33[A]
2/12/2003	11.36[A]
2/13/2003	11.38[A]
2/14/2003	11.39[A]
2/15/2003	11.46[A]
2/16/2003	11.49[A]
2/17/2003	11.51[A]
2/18/2003	11.54[A]
2/19/2003	11.59[A]
2/20/2003	11.75[A]
2/21/2003	12.22[A]
2/22/2003	12.83[A]
2/23/2003	12.92[A]
2/24/2003	12.91[A]
2/25/2003	12.92[A]
2/26/2003	12.91[A]
2/27/2003	12.90[A]
2/28/2003	12.87[A]

Date	Gage height (ft)
3/1/2003	12.81[A]
3/2/2003	12.74[A]
3/3/2003	12.67[A]
3/4/2003	12.59[A]
3/5/2003	12.52[A]
3/6/2003	12.46[A]
3/7/2003	12.37[A]
3/8/2003	12.27[A]
3/9/2003	12.20[A]
3/10/2003	12.12[A]
3/11/2003	12.04[A]
3/12/2003	11.96[A]
3/13/2003	11.91[A]
3/14/2003	11.84[A]
3/15/2003	11.76[A]
3/16/2003	11.68[A]
3/17/2003	11.61[A]
3/18/2003	11.56[A]
3/19/2003	11.58[A]
3/20/2003	11.61[A]
3/21/2003	11.61[A]
3/22/2003	11.59[A]
3/23/2003	11.58[A]
3/24/2003	11.56[A]
3/25/2003	11.57[A]
3/26/2003	11.64[A]
3/27/2003	11.60[A]
3/28/2003	11.60[A]
3/29/2003	P
3/30/2003	P
3/31/2003	11.51[A]

Date	Gage height (ft)
4/1/2003	11.49[A]
4/2/2003	11.51[A]
4/3/2003	11.51[A]
4/4/2003	11.52[A]
4/5/2003	11.53[A]
4/6/2003	11.55[A]
4/7/2003	11.78[A]
4/8/2003	11.88[A]
4/9/2003	11.89[A]
4/10/2003	11.88[A]
4/11/2003	11.88[A]
4/12/2003	11.88[A]
4/13/2003	11.87[A]
4/14/2003	11.82[A]
4/15/2003	11.74[A]
4/16/2003	11.62[A]
4/17/2003	11.56[A]
4/18/2003	11.46[A]
4/19/2003	11.37[A]
4/20/2003	11.34[A]
4/21/2003	11.32[A]
4/22/2003	11.27[A]
4/23/2003	11.23[A]
4/24/2003	11.19[A]
4/25/2003	11.21[A]
4/26/2003	11.18[A]
4/27/2003	11.16[A]
4/28/2003	11.14[A]
4/29/2003	11.13[A]
4/30/2003	11.13[A]

Date	Gage height (ft)
5/1/2003	11.13[A]
5/2/2003	11.14[A]
5/3/2003	11.15[A]
5/4/2003	11.10[A]
5/5/2003	11.09[A]
5/6/2003	11.12[A]
5/7/2003	11.11[A]
5/8/2003	11.08[A]
5/9/2003	11.11[A]
5/10/2003	11.19[A]
5/11/2003	11.36[A]
5/12/2003	11.46[A]
5/13/2003	11.54[A]
5/14/2003	11.61[A]
5/15/2003	11.82[A]
5/16/2003	11.84[A]
5/17/2003	11.88[A]
5/18/2003	11.92[A]
5/19/2003	12.02[A]
5/20/2003	12.13[A]
5/21/2003	12.16[A]
5/22/2003	12.14[A]
5/23/2003	12.09[A]
5/24/2003	12.03[A]
5/25/2003	11.96[A]
5/26/2003	11.91[A]
5/27/2003	11.82[A]
5/28/2003	11.71[A]
5/29/2003	11.59[A]
5/30/2003	11.47[A]
5/31/2003	11.37[A]

Date	Gage height (ft)
6/1/2003	11.32[A]
6/2/2003	11.23[A]
6/3/2003	11.21[A]
6/4/2003	11.17[A]
6/5/2003	11.14[A]
6/6/2003	11.23[A]
6/7/2003	11.21[A]
6/8/2003	11.17[A]
6/9/2003	11.13[A]
6/10/2003	11.09[A]
6/11/2003	11.06[A]
6/12/2003	11.07[A]
6/13/2003	11.09[A]
6/14/2003	11.09[A]
6/15/2003	11.12[A]
6/16/2003	11.11[A]
6/17/2003	11.11[A]
6/18/2003	11.12[A]
6/19/2003	11.14[A]
6/20/2003	11.17[A]
6/21/2003	11.19[A]
6/22/2003	11.22[A]
6/23/2003	11.24[A]
6/24/2003	11.27[A]
6/25/2003	11.29[A]
6/26/2003	11.33[A]
6/27/2003	11.36[A]
6/28/2003	11.35[A]
6/29/2003	11.34[A]
6/30/2003	11.31[A]

Date	Gage height (ft)
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7/2/2003	11.22[A]
7/3/2003	11.19[A]
7/4/2003	11.16[A]
7/5/2003	11.17[A]
7/6/2003	11.17[A]
7/7/2003	11.16[A]
7/8/2003	11.15[A]
7/9/2003	11.14[A]
7/10/2003	11.14[A]
7/11/2003	11.13[A]
7/12/2003	11.13[A]
7/13/2003	11.14[A]
7/14/2003	11.13[A]
7/15/2003	11.11[A]
7/16/2003	11.10[A]
7/17/2003	11.08[A]
7/18/2003	11.05[A]
7/19/2003	11.05[A]
7/20/2003	11.03[A]
7/21/2003	11.00[A]
7/22/2003	11.00[A]
7/23/2003	11.04[A]
7/24/2003	11.03[A]
7/25/2003	11.00[A]
7/26/2003	10.98[A]
7/27/2003	10.97[A]
7/28/2003	10.94[A]
7/29/2003	10.92[A]
7/30/2003	10.92[A]
7/31/2003	10.97[A]

Date	Gage height (ft)
8/1/2003	10.98[A]
8/2/2003	10.96[A]
8/3/2003	10.95[A]
8/4/2003	10.94[A]
8/5/2003	10.92[A]
8/6/2003	10.91[A]
8/7/2003	10.96[A]
8/8/2003	10.93[A]
8/9/2003	10.91[A]
8/10/2003	10.90[A]
8/11/2003	10.92[A]
8/12/2003	11.08[A]
8/13/2003	11.10[A]
8/14/2003	11.08[A]
8/15/2003	11.07[A]
8/16/2003	11.04[A]
8/17/2003	11.02[A]
8/18/2003	11.00[A]
8/19/2003	10.98[A]
8/20/2003	10.97[A]
8/21/2003	10.95[A]
8/22/2003	10.94[A]
8/23/2003	10.93[A]
8/24/2003	10.91[A]
8/25/2003	10.90[A]
8/26/2003	10.89[A]
8/27/2003	10.90[A]
8/28/2003	10.90[A]
8/29/2003	10.89[A]
8/30/2003	10.88[A]
8/31/2003	10.88[A]

Date	Gage height (ft)
9/1/2003	10.88[A]
9/2/2003	10.98[A]
9/3/2003	11.00[A]
9/4/2003	11.02[A]
9/5/2003	11.01[A]
9/6/2003	10.98[A]
9/7/2003	10.96[A]
9/8/2003	10.94[A]
9/9/2003	10.92[A]
9/10/2003	10.90[A]
9/11/2003	10.90[A]
9/12/2003	10.93[A]
9/13/2003	11.02[A]
9/14/2003	11.03[A]
9/15/2003	11.01[A]
9/16/2003	10.99[A]
9/17/2003	10.97[A]
9/18/2003	10.96[A]
9/19/2003	10.95[A]
9/20/2003	10.94[A]
9/21/2003	10.98[A]
9/22/2003	11.08[A]
9/23/2003	11.07[A]
9/24/2003	11.06[A]
9/25/2003	11.05[A]
9/26/2003	11.04[A]
9/27/2003	11.03[A]
9/28/2003	11.03[A]
9/29/2003	10.99[A]
9/30/2003	10.97[A]

Preview Only

October 2001- September 2002

Lake Bistineau (USGS Gage #########)
Latitude 32°19'46", Longitude 93°26'05" NAD83
Bossier Parish, Louisiana, Hydrologic Unit 11140203
Datum of gage: 130.00 feet above NGVD29. Spillway crest elevation is 141 ft

Date	Gage height (ft)
10/1/2001	11.04[A]
10/2/2001	11.04[A]
10/3/2001	11.03[A]
10/4/2001	11.02[A]
10/5/2001	11.05[A]
10/6/2001	11.13[A]
10/7/2001	11.07[A]
10/8/2001	11.05[A]
10/9/2001	11.04[A]
10/10/2001	11.03[A]
10/11/2001	11.08[A]
10/12/2001	11.10[A]
10/13/2001	11.23[A]
10/14/2001	11.29[A]
10/15/2001	11.32[A]
10/16/2001	11.37[A]
10/17/2001	11.46[A]
10/18/2001	11.71[A]
10/19/2001	12.10[A]
10/20/2001	12.38[A]
10/21/2001	12.47[A]
10/22/2001	12.43[A]
10/23/2001	12.34[A]
10/24/2001	12.24[A]
10/25/2001	12.14[A]
10/26/2001	12.02[A]
10/27/2001	11.90[A]
10/28/2001	11.77[A]
10/29/2001	11.65[A]
10/30/2001	11.53[A]
10/31/2001	11.42[A]

Date	Gage height (ft)
11/1/2001	11.34[A]
11/2/2001	11.30[A]
11/3/2001	11.26[A]
11/4/2001	11.23[A]
11/5/2001	11.19[A]
11/6/2001	11.16[A]
11/7/2001	11.15[A]
11/8/2001	11.14[A]
11/9/2001	11.13[A]
11/10/2001	11.11[A]
11/11/2001	11.10[A]
11/12/2001	11.10[A]
11/13/2001	11.09[A]
11/14/2001	11.08[A]
11/15/2001	11.08[A]
11/16/2001	11.07[A]
11/17/2001	11.07[A]
11/18/2001	11.06[A]
11/19/2001	11.06[A]
11/20/2001	11.06[A]
11/21/2001	11.03[A]
11/22/2001	11.03[A]
11/23/2001	11.01[A]
11/24/2001	11.05[A]
11/25/2001	11.05[A]
11/26/2001	11.06[A]
11/27/2001	11.24[A]
11/28/2001	11.34[A]
11/29/2001	11.51[A]
11/30/2001	11.58[A]

Date	Gage height (ft)
12/1/2001	11.58[A]
12/2/2001	11.56[A]
12/3/2001	11.55[A]
12/4/2001	11.55[A]
12/5/2001	11.55[A]
12/6/2001	11.55[A]
12/7/2001	11.56[A]
12/8/2001	11.62[A]
12/9/2001	11.62[A]
12/10/2001	11.60[A]
12/11/2001	11.61[A]
12/12/2001	12.33[A]
12/13/2001	12.77[A]
12/14/2001	12.74[A]
12/15/2001	12.57[A]
12/16/2001	12.48[A]
12/17/2001	12.74[A]
12/18/2001	12.98[A]
12/19/2001	13.15[A]
12/20/2001	13.29[A]
12/21/2001	13.47[A]
12/22/2001	13.64[A]
12/23/2001	13.70[A]
12/24/2001	13.60[A]
12/25/2001	13.36[A]
12/26/2001	13.02[A]
12/27/2001	12.69[A]
12/28/2001	12.45[A]
12/29/2001	12.28[A]
12/30/2001	12.15[A]
12/31/2001	12.02[A]

Date	Gage height (ft)
1/1/2002	11.93[A]
1/2/2002	11.83[A]
1/3/2002	11.72[A]
1/4/2002	11.62[A]
1/5/2002	11.62[A]
1/6/2002	11.64[A]
1/7/2002	11.60[A]
1/8/2002	11.54[A]
1/9/2002	11.51[A]
1/10/2002	11.51[A]
1/11/2002	11.52[A]
1/12/2002	11.50[A]
1/13/2002	11.47[A]
1/14/2002	11.49[A]
1/15/2002	11.47[A]
1/16/2002	11.45[A]
1/17/2002	11.46[A]
1/18/2002	11.45[A]
1/19/2002	11.46[A]
1/20/2002	11.45[A]
1/21/2002	11.44[A]
1/22/2002	11.43[A]
1/23/2002	11.42[A]
1/24/2002	11.61[A]
1/25/2002	11.80[A]
1/26/2002	11.83[A]
1/27/2002	11.82[A]
1/28/2002	11.81[A]
1/29/2002	11.80[A]
1/30/2002	11.79[A]
1/31/2002	11.79[A]

Date	Gage height (ft)
2/1/2002	11.80[A]
2/2/2002	11.76[A]
2/3/2002	11.72[A]
2/4/2002	11.69[A]
2/5/2002	11.69[A]
2/6/2002	11.79[A]
2/7/2002	11.80[A]
2/8/2002	11.77[A]
2/9/2002	11.75[A]
2/10/2002	11.75[A]
2/11/2002	11.72[A]
2/12/2002	11.70[A]
2/13/2002	11.70[A]
2/14/2002	11.68[A]
2/15/2002	11.69[A]
2/16/2002	11.67[A]
2/17/2002	11.65[A]
2/18/2002	11.61[A]
2/19/2002	11.59[A]
2/20/2002	11.64[A]
2/21/2002	11.64[A]
2/22/2002	11.64[A]
2/23/2002	11.62[A]
2/24/2002	11.62[A]
2/25/2002	11.67[A]
2/26/2002	11.70[A]
2/27/2002	11.68[A]
2/28/2002	11.68[A]

Date	Gage height (ft)
3/1/2002	11.71[A]
3/2/2002	11.72[A]
3/3/2002	11.70[A]
3/4/2002	11.63[A]
3/5/2002	11.59[A]
3/6/2002	11.56[A]
3/7/2002	11.53[A]
3/8/2002	11.48[A]
3/9/2002	11.50[A]
3/10/2002	11.46[A]
3/11/2002	11.42[A]
3/12/2002	11.54[A]
3/13/2002	11.59[A]
3/14/2002	11.63[A]
3/15/2002	11.71[A]
3/16/2002	11.76[A]
3/17/2002	11.77[A]
3/18/2002	11.79[A]
3/19/2002	11.79[A]
3/20/2002	11.96[A]
3/21/2002	12.16[A]
3/22/2002	12.28[A]
3/23/2002	12.52[A]
3/24/2002	12.78[A]
3/25/2002	12.96[A]
3/26/2002	13.08[A]
3/27/2002	13.05[A]
3/28/2002	12.92[A]
3/29/2002	12.76[A]
3/30/2002	12.63[A]
3/31/2002	12.68[A]

Date	Gage height (ft)
4/1/2002	12.60[A]
4/2/2002	12.50[A]
4/3/2002	12.41[A]
4/4/2002	12.30[A]
4/5/2002	12.24[A]
4/6/2002	12.21[A]
4/7/2002	12.17[A]
4/8/2002	12.66[A]
4/9/2002	13.05[A]
4/10/2002	12.99[A]
4/11/2002	12.82[A]
4/12/2002	12.65[A]
4/13/2002	12.48[A]
4/14/2002	12.34[A]
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4/17/2002	12.07[A]
4/18/2002	11.99[A]
4/19/2002	11.92[A]
4/20/2002	11.85[A]
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4/22/2002	11.71[A]
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4/24/2002	11.52[A]
4/25/2002	11.49[A]
4/26/2002	11.41[A]
4/27/2002	11.31[A]
4/28/2002	11.31[A]
4/29/2002	11.29[A]
4/30/2002	11.24[A]

Date	Gage height (ft)
5/1/2002	11.21[A]
5/2/2002	11.22[A]
5/3/2002	11.24[A]
5/4/2002	11.23[A]
5/5/2002	11.21[A]
5/6/2002	11.18[A]
5/7/2002	11.18[A]
5/8/2002	11.18[A]
5/9/2002	11.21[A]
5/10/2002	11.24[A]
5/11/2002	11.23[A]
5/12/2002	11.26[A]
5/13/2002	11.35[A]
5/14/2002	11.37[A]
5/15/2002	11.38[A]
5/16/2002	11.41[A]
5/17/2002	11.51[A]
5/18/2002	11.64[A]
5/19/2002	11.69[A]
5/20/2002	11.78[A]
5/21/2002	11.86[A]
5/22/2002	11.89[A]
5/23/2002	11.87[A]
5/24/2002	11.83[A]
5/25/2002	11.75[A]
5/26/2002	11.66[A]
5/27/2002	11.59[A]
5/28/2002	11.48[A]
5/29/2002	11.40[A]
5/30/2002	11.36[A]
5/31/2002	11.32[A]

Date	Gage height (ft)
6/1/2002	11.27[A]
6/2/2002	11.23[A]
6/3/2002	11.22[A]
6/4/2002	11.22[A]
6/5/2002	11.22[A]
6/6/2002	11.24[A]
6/7/2002	11.22[A]
6/8/2002	11.19[A]
6/9/2002	11.18[A]
6/10/2002	11.19[A]
6/11/2002	11.18[A]
6/12/2002	11.16[A]
6/13/2002	11.13[A]
6/14/2002	11.13[A]
6/15/2002	11.08[A]
6/16/2002	11.07[A]
6/17/2002	11.04[A]
6/18/2002	11.02[A]
6/19/2002	11.00[A]
6/20/2002	10.99[A]
6/21/2002	10.98[A]
6/22/2002	10.97[A]
6/23/2002	10.96[A]
6/24/2002	10.96[A]
6/25/2002	10.95[A]
6/26/2002	10.95[A]
6/27/2002	10.96[A]
6/28/2002	10.97[A]
6/29/2002	10.98[A]
6/30/2002	10.98[A]

Date	Gage height (ft)
7/1/2002	10.98[A]
7/2/2002	10.98[A]
7/3/2002	10.98[A]
7/4/2002	10.99[A]
7/5/2002	10.99[A]
7/6/2002	11.00[A]
7/7/2002	11.00[A]
7/8/2002	10.99[A]
7/9/2002	10.98[A]
7/10/2002	10.96[A]
7/11/2002	10.95[A]
7/12/2002	10.94[A]
7/13/2002	10.93[A]
7/14/2002	10.93[A]
7/15/2002	10.92[A]
7/16/2002	10.95[A]
7/17/2002	10.96[A]
7/18/2002	10.96[A]
7/19/2002	10.95[A]
7/20/2002	10.95[A]
7/21/2002	10.97[A]
7/22/2002	10.99[A]
7/23/2002	11.01[A]
7/24/2002	11.03[A]
7/25/2002	11.04[A]
7/26/2002	11.03[A]
7/27/2002	11.02[A]
7/28/2002	11.01[A]
7/29/2002	11.00[A]
7/30/2002	10.99[A]
7/31/2002	10.97[A]

Date	Gage height (ft)
8/1/2002	10.96[A]
8/2/2002	10.95[A]
8/3/2002	10.94[A]
8/4/2002	10.92[A]
8/5/2002	10.91[A]
8/6/2002	10.89[A]
8/7/2002	10.88[A]
8/8/2002	10.85[A]
8/9/2002	10.82[A]
8/10/2002	10.79[A]
8/11/2002	10.77[A]
8/12/2002	10.75[A]
8/13/2002	10.74[A]
8/14/2002	10.73[A]
8/15/2002	10.75[A]
8/16/2002	10.77[A]
8/17/2002	10.78[A]
8/18/2002	10.77[A]
8/19/2002	10.76[A]
8/20/2002	10.75[A]
8/21/2002	10.74[A]
8/22/2002	10.73[A]
8/23/2002	10.71[A]
8/24/2002	10.70[A]
8/25/2002	10.70[A]
8/26/2002	10.70[A]
8/27/2002	10.67[A]
8/28/2002	10.67[A]
8/29/2002	10.65[A]
8/30/2002	10.62[A]
8/31/2002	10.60[A]

Date	Gage height (ft)
9/1/2002	10.58[A]
9/2/2002	10.56[A]
9/3/2002	10.55[A]
9/4/2002	10.54[A]
9/5/2002	10.53[A]
9/6/2002	10.52[A]
9/7/2002	10.52[A]
9/8/2002	10.54[A]
9/9/2002	10.56[A]
9/10/2002	10.54[A]
9/11/2002	10.53[A]
9/12/2002	10.51[A]
9/13/2002	10.50[A]
9/14/2002	10.48[A]
9/15/2002	10.46[A]
9/16/2002	10.45[A]
9/17/2002	10.46[A]
9/18/2002	10.44[A]
9/19/2002	10.44[A]
9/20/2002	10.52[A]
9/21/2002	10.54[A]
9/22/2002	10.56[A]
9/23/2002	10.54[A]
9/24/2002	10.51[A]
9/25/2002	10.51[A]
9/26/2002	10.48[A]
9/27/2002	10.43[A]
9/28/2002	10.42[A]
9/29/2002	10.42[A]
9/30/2002	10.40[A]

Preview Only

APPENDIX G

Preview Only

07349815 Cypress Bayou Lake near Benton, LA

Red-Saline Basin
Red Chute Subbasin

LOCATION.--Lat 32°39′07″, long 93°40′11″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.12, T.19 N., R.13 W., Bossier Parish, LA, Hydrologic Unit 11140204, attached to pier of catwalk to diversion structure about 4,500 ft northwest of spillway, and 5.0 mi southeast of Benton.

DRAINAGE AREA.--163.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1975 to September 1996, October 1997 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by a 6,000-ft earthfill dam on Cypress Bayou. The 250-ft concrete spillway with crest at 9.60 ft, gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft. A 6- by 6-ft sluice gate with sill at -15.5 ft, gage datum, is located at diversion structure 4,500 ft northwest of spillway. Water from Cypress Bayou Lake is diverted into Black Bayou Lake by way of this structure. Dam completed and storage began in 1975. Reservoir is used for flood control, conservation, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.24 ft., Oct. 31, 2009; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.16 ft, May 25; minimum gage height, 2.01 ft, Oct. 24.

Preview Only

07349815 Cypress Bayou Lake near Benton, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.30	2.07	2.60	2.48	4.66	5.74	5.90	6.05	6.01	5.44	e4.80	4.17
2	2.28	2.30	2.64	2.46	4.72	5.76	5.89	6.09	5.99	5.42	4.79	4.14
3	2.27	2.42	2.68	2.45	4.78	5.77	5.85	6.09	5.96	5.40	4.76	4.14
4	2.23	2.42	2.70	2.45	4.86	5.78	5.95	6.07	5.95	5.37	4.73	4.16
5	2.20	2.39	2.71	2.47	4.91	5.83	e5.98	6.06	5.94	5.35	4.70	4.11
6	2.18	2.37	2.69	2.47	4.96	5.83	5.96	6.05	5.92	5.33	4.67	4.05
7	2.17	2.36	2.69	2.46	5.03	5.82	5.96	6.02	5.89	5.30	4.64	4.03
8	2.16	2.35	2.67	2.46	5.06	5.84	5.97	6.02	5.86	5.27	4.60	4.00
9	2.15	2.34	2.63	2.51	e5.11	5.88	5.97	6.01	5.83	5.24	4.58	3.98
10	2.14	2.34	2.61	2.54	e5.17	5.89	5.96	6.00	5.80	5.22	4.55	3.96
11	2.14	2.34	2.60	2.55	e5.21	5.88	5.99	5.99	5.79	5.19	4.53	3.94
12	2.14	2.33	2.58	2.55	e5.25	5.88	5.98	6.07	5.77	5.17	4.50	3.93
13	2.14	2.37	2.52	2.54	e5.29	5.91	5.96	6.08	5.74	5.14	4.47	3.90
14	2.12	2.35	2.48	2.54	e5.33	5.95	5.95	6.04	5.71	5.11	4.45	3.89
15	2.10	2.37	2.47	2.56	e5.37	5.95	6.00	6.02	5.68	5.11	4.42	3.88
16	2.09	2.41	2.50	2.88	5.40	5.95	5.98	6.01	5.66	5.10	4.39	3.85
17	2.08	2.39	2.50	3.33	5.42	5.95	5.94	5.98	5.63	5.09	4.37	3.82
18	2.07	2.40	2.49	3.61	5.45	5.96	5.92	e5.96	5.59	5.08	4.35	3.86
19	2.06	2.38	2.47	3.88	5.46	5.97	5.91	e5.93	5.55	5.06	4.32	3.95
20	2.08	2.38	2.46	4.11	5.46	5.96	5.93	5.93	5.51	5.04	4.32	3.94
21	2.08	2.37	2.47	4.20	5.49	5.96	5.91	6.05	5.51	5.01	4.29	3.94
22	2.05	2.38	2.48	4.25	5.50	5.95	5.88	6.06	5.55	4.98	4.29	3.93
23	2.05	2.39	2.47	4.29	5.50	5.95	5.86	6.08	5.55	4.95	4.27	3.95
24	2.04	2.37	2.47	4.34	5.51	5.95	5.85	6.10	5.53	4.94	4.28	3.92
25	2.13	2.41	2.48	4.43	5.62	5.93	5.81	6.11	5.51	4.94	4.31	3.89
26	2.14	2.48	2.47	4.45	5.63	5.93	5.83	6.13	5.48	4.93	4.30	3.90
27	2.14	2.45	2.44	4.48	5.63	5.93	5.96	6.09	5.46	4.91	4.28	3.88
28	2.13	2.44	2.44	4.50	5.72	5.91	5.99	6.06	5.44	4.88	4.26	3.87
29	2.09	2.49	2.45	4.52	---	5.90	6.02	6.04	5.42	4.86	4.23	3.85
30	2.07	2.60	2.46	4.54	---	e5.93	6.04	6.03	5.42	4.85	4.21	3.83
31	2.06	---	2.47	4.56	---	5.90	---	6.02	---	4.84	4.19	---
Max	2.30	2.60	2.71	4.56	5.72	5.97	6.04	6.13	6.01	5.44	4.80	4.17
Min	2.04	2.07	2.44	2.45	4.66	5.74	5.81	5.93	5.42	4.84	4.19	3.82

Preview Only

07349815 Cypress Bayou Lake near Benton, LA

Red-Saline Basin
Red Chute Subbasin

LOCATION.--Lat 32°39′07″, long 93°40′11″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.12, T.19 N., R.13 W., Bossier Parish, LA, Hydrologic Unit 11140204, attached to pier of catwalk to diversion structure about 4,500 ft northwest of spillway, and 5.0 mi southeast of Benton.

DRAINAGE AREA.--163.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1975 to September 1996, October 1997 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by a 6,000-ft earthfill dam on Cypress Bayou. The 250-ft concrete spillway with crest at 9.60 ft, gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft. A 6- by 6-ft sluice gate with sill at -15.5 ft, gage datum, is located at diversion structure 4,500 ft northwest of spillway. Water from Cypress Bayou Lake is diverted into Black Bayou Lake by way of this structure. Dam completed and storage began in 1975. Reservoir is used for flood control, conservation, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.24 ft., Oct. 31, 2009; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.24 ft, Oct. 31; minimum gage height, 2.29 ft, Sept. 30.

Preview Only

07349815 Cypress Bayou Lake near Benton, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.68	11.73	9.83	10.10	10.33	10.11	9.76	9.51	9.20	8.98	8.66	4.61
2	6.43	11.10	9.99	10.06	10.27	10.15	9.74	9.52	9.17	8.97	8.64	4.37
3	6.13	10.71	10.06	10.03	10.17	10.13	9.74	9.50	9.16	8.96	8.62	4.14
4	6.46	10.46	10.07	9.99	10.13	10.09	9.72	9.49	9.16	8.95	8.60	3.88
5	7.42	10.28	10.03	9.94	10.14	10.03	9.70	9.46	9.14	8.93	8.57	3.62
6	9.32	10.15	9.96	9.90	10.15	9.97	9.67	9.44	9.13	8.92	8.61	3.35
7	10.14	10.05	9.94	9.91	10.17	9.93	9.71	9.42	9.11	8.95	8.68	3.18
8	10.12	9.98	9.93	9.87	10.19	9.88	9.76	9.42	9.09	9.02	8.66	3.21
9	10.0	9.93	9.97	9.85	10.33	9.93	9.72	9.40	9.15	9.01	8.64	3.23
10	9.84	9.89	9.98	9.83	10.33	9.96	9.71	9.38	9.22	9.01	8.63	3.18
11	9.68	9.85	9.97	9.81	10.40	10.15	9.69	9.37	9.21	9.00	8.62	3.02
12	10.44	9.82	9.95	9.80	10.41	10.17	9.68	9.35	9.21	8.98	8.61	2.85
13	11.21	9.79	9.94	9.78	10.34	10.18	9.65	9.35	9.20	8.97	8.58	2.69
14	e11.83	9.77	9.94	9.78	10.28	10.15	9.64	9.35	9.21	8.96	8.55	2.65
15	11.87	9.75	9.94	9.78	10.21	10.08	9.62	9.34	e9.19	8.94	8.47	2.63
16	11.42	9.79	9.91	9.87	10.15	9.99	9.61	9.34	e9.18	8.93	8.22	2.61
17	10.97	9.77	9.88	10.0	10.07	9.93	9.63	9.33	e9.15	8.91	7.95	2.60
18	10.67	9.75	9.85	10.06	10.01	9.88	9.73	9.32	9.12	8.89	7.69	2.57
19	10.45	9.74	9.83	10.10	9.96	9.84	9.70	9.28	9.10	8.88	7.46	2.56
20	10.26	9.74	9.80	10.15	9.92	9.82	9.67	9.30	9.08	8.86	7.24	2.53
21	10.01	9.73	9.78	10.44	9.90	9.81	9.64	9.32	9.06	8.84	7.01	2.50
22	10.08	9.72	9.76	10.39	9.89	9.78	9.62	9.30	9.03	8.82	6.80	2.49
23	10.31	9.70	9.78	10.39	9.86	9.77	9.62	9.29	9.00	8.80	6.60	2.47
24	10.44	9.70	10.40	10.42	9.83	9.76	9.64	9.28	8.99	8.78	6.38	2.46
25	10.46	9.69	10.75	10.34	9.81	9.84	9.61	9.26	8.97	8.77	6.14	2.45
26	10.38	9.67	10.96	10.27	9.85	9.87	9.60	9.27	8.95	8.75	5.90	2.43
27	10.42	9.65	10.82	10.19	9.96	9.91	9.57	9.27	8.92	8.73	5.65	2.39
28	10.42	9.65	10.58	10.10	10.02	9.92	9.53	9.26	8.90	8.73	5.41	2.35
29	10.66	9.66	10.40	10.21	---	9.87	9.50	9.26	8.92	8.71	5.18	2.34
30	12.07	9.78	10.26	10.30	---	9.82	9.50	9.23	8.98	8.70	e4.95	2.32
31	12.19	---	10.16	10.32	---	9.79	---	9.22	---	8.69	e4.82	---
Max	12.19	11.73	10.96	10.44	10.41	10.18	9.76	9.52	9.22	9.02	8.68	4.61
Min	6.13	9.65	9.76	9.78	9.81	9.76	9.50	9.22	8.90	8.69	4.82	2.32

Preview Only

07349815 Cypress Bayou Lake near Benton, LA

Red-Saline Basin
Red Chute Subbasin

LOCATION.--Lat 32°39′07″, long 93°40′11″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.12, T.19 N., R.13 W., Bossier Parish, LA, Hydrologic Unit 11140204, attached to pier of catwalk to diversion structure about 4,500 ft northwest of spillway, and 5.0 mi southeast of Benton.

DRAINAGE AREA.--163.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1975 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by a 6,000-ft earthfill dam on Cypress Bayou. The 250-ft concrete spillway with crest at 9.60 ft, gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft. A 6- by 6-ft sluice gate with sill at -15.5 ft, gage datum, is located at diversion structure 4,500 ft northwest of spillway. Water from Cypress Bayou Lake is diverted into Black Bayou Lake by way of this structure. Dam completed and storage began in 1975. Reservoir is used for flood control, conservation, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.14 ft., Apr. 15, 1991; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.67 ft, May 6; minimum gage height, 6.86 ft, Sept. 30.

Preview Only

07349815 Cypress Bayou Lake near Benton, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.29	9.07	9.54	9.64	9.59	9.58	10.10	9.65	9.57	9.23	10.32	9.32
2	9.27	9.06	9.52	9.63	9.61	9.56	10.06	9.67	9.55	9.21	10.23	9.30
3	9.25	9.06	9.55	9.62	9.59	9.54	10.03	9.88	9.55	9.18	10.07	9.29
4	9.23	9.04	9.71	9.63	9.59	9.53	10.00	10.08	9.59	9.15	9.98	9.28
5	9.21	9.03	9.67	9.64	9.59	9.53	9.98	10.37	9.69	9.17	9.88	9.28
6	9.20	9.06	9.63	9.71	9.58	9.54	9.90	10.58	9.78	9.20	9.80	9.26
7	9.22	9.06	9.62	9.75	9.59	9.53	9.81	10.52	9.78	9.19	9.74	9.25
8	9.21	9.05	9.59	9.78	9.59	9.54	9.76	10.37	9.73	9.17	9.68	9.23
9	9.20	9.03	9.65	9.78	e9.61	9.55	9.72	10.28	9.69	9.15	9.65	9.22
10	9.18	9.01	9.68	9.77	9.65	9.54	9.73	10.19	9.65	9.12	9.62	9.20
11	9.16	9.12	9.68	9.72	9.76	9.57	9.69	10.21	9.67	9.10	9.61	9.19
12	9.16	9.31	9.69	9.69	9.78	9.64	9.68	10.25	9.63	9.07	9.59	9.21
13	9.14	9.34	9.68	9.67	9.80	9.77	9.71	10.19	9.61	9.05	9.56	9.31
14	9.13	9.39	9.67	9.63	9.79	10.07	9.71	10.14	9.59	9.02	9.53	9.39
15	9.14	9.41	9.67	9.63	9.76	10.12	9.72	10.03	9.57	9.00	9.51	9.52
16	9.26	9.39	9.64	9.60	9.72	10.12	9.71	9.95	9.54	9.00	9.49	9.66
17	9.25	9.39	9.62	9.59	9.70	10.10	9.70	9.88	9.52	9.18	9.47	9.78
18	9.24	9.39	9.61	9.59	9.71	10.02	9.75	9.81	9.50	9.16	9.47	9.86
19	9.22	9.38	9.62	9.59	9.69	9.94	9.78	9.76	9.48	9.13	9.48	9.79
20	9.20	9.39	9.61	9.57	9.66	9.86	9.80	9.72	9.46	9.10	9.47	9.57
21	9.20	9.37	9.61	9.55	9.65	9.80	9.81	9.70	9.44	9.11	9.46	9.35
22	9.18	9.35	9.57	9.55	9.65	9.75	9.77	9.67	9.42	9.16	9.44	9.13
23	9.19	9.34	9.56	9.55	9.62	9.70	9.72	9.66	9.41	9.15	9.41	8.91
24	9.18	9.37	9.59	9.57	9.61	9.71	9.69	9.67	9.39	9.12	9.38	8.71
25	9.17	9.36	9.60	9.55	9.61	9.81	9.67	9.64	9.37	9.09	9.36	8.49
26	9.16	9.35	9.59	9.55	9.61	10.01	9.63	9.62	9.34	9.14	9.34	8.23
27	9.15	9.35	9.61	9.55	e9.62	10.09	9.62	9.63	9.31	9.20	9.33	7.95
28	9.12	9.47	9.62	9.58	e9.63	10.35	9.67	9.62	9.29	9.63	9.35	7.68
29	9.10	9.59	9.63	9.58	---	10.33	9.64	9.62	9.27	9.86	9.36	7.37
30	9.09	9.58	9.66	9.58	---	10.27	9.65	9.61	9.25	10.08	9.36	7.03
31	9.08	---	9.67	9.59	---	10.23	---	9.59	---	10.32	9.34	---
Max	9.29	9.59	9.71	9.78	9.80	10.35	10.10	10.58	9.78	10.32	10.32	9.86
Min	9.08	9.01	9.52	9.55	9.58	9.53	9.62	9.59	9.25	9.00	9.33	7.03

Preview Only

Water-Data Report 2008

07349815 Cypress Bayou Lake near Benton, LA

Red-Saline Basin
Red Chute Subbasin

LOCATION.--Lat 32°39′07″, long 93°40′11″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.12, T.19 N., R.13 W., Bossier Parish, LA, Hydrologic Unit 11140204, attached to pier of catwalk to diversion structure about 4,500 ft northwest of spillway, and 5.0 mi southeast of Benton.

DRAINAGE AREA.--163.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1975 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by a 6,000-ft earthfill dam on Cypress Bayou. The 250-ft concrete spillway with crest at 9.60 ft,gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft. A 6- by 6-ft sluice gate with sill at-15.5 ft, gage datum, is located at diversion structure 4,500 ft northwest of spillway. Water from Cypress Bayou Lake isdiverted into Black Bayou Lake by way of this structure.Dam completed and storage began in 1975. Reservoir is used for floodcontrol, conservation, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.14 ft., Apr. 15, 1991; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.45 ft, May 17; minimum gage height, 8.43 ft, Nov. 23, 24.

Preview Only

07349815 Cypress Bayou Lake near Benton, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.84	8.63	8.65	9.19	9.54	9.77	9.75	9.45	9.52	9.48	8.88	8.99
2	8.82	8.62	8.66	9.18	9.57	9.73	9.81	9.47	9.50	9.47	8.87	9.13
3	8.82	8.61	8.66	9.16	9.60	9.81	9.81	9.49	9.47	9.46	8.85	9.22
4	8.80	8.60	8.64	9.15	9.60	9.96	9.83	9.47	9.44	9.44	8.82	9.26
5	8.79	8.59	8.64	9.15	9.62	10.01	9.84	9.45	9.40	9.41	8.79	9.34
6	8.77	8.60	8.63	9.16	9.64	10.07	9.85	9.44	9.40	9.39	8.76	9.39
7	8.76	8.57	8.61	9.17	9.60	10.09	9.87	9.43	9.38	9.37	8.75	9.41
8	8.75	8.55	8.62	9.19	9.60	10.06	9.83	9.47	9.36	9.35	8.76	9.41
9	8.75	8.55	8.62	9.21	9.59	10.02	9.78	9.46	9.35	9.33	8.76	9.42
10	8.73	8.54	8.63	9.21	9.58	10.00	9.74	9.44	10.09	9.31	8.74	9.43
11	8.71	8.53	8.62	9.20	9.57	9.98	9.73	9.45	10.05	9.31	8.75	9.42
12	8.68	8.53	8.68	9.21	9.67	9.94	9.69	9.40	9.89	9.29	8.79	9.42
13	8.65	8.53	8.73	9.23	9.71	9.90	9.65	9.39	9.81	9.28	8.80	9.39
14	8.63	8.53	8.72	9.23	9.73	9.87	9.62	9.78	9.74	9.29	8.79	9.51
15	8.64	8.52	8.82	9.24	9.75	9.84	9.58	10.11	9.69	9.28	8.77	9.49
16	8.66	8.48	8.84	9.24	9.82	9.79	9.56	10.34	9.64	9.26	8.76	9.48
17	e8.67	8.47	8.85	9.25	10.18	9.74	9.54	10.43	9.61	9.23	8.74	9.46
18	e8.76	8.47	8.86	9.25	10.18	9.72	9.58	10.32	9.59	9.21	8.72	9.45
19	8.77	8.47	8.87	9.26	10.18	9.77	9.57	10.13	9.56	9.18	8.81	9.44
20	8.74	8.46	8.93	9.24	10.18	9.71	9.55	9.96	9.54	9.16	8.85	9.44
21	8.72	8.48	8.95	9.23	10.17	9.70	9.55	9.84	9.53	9.15	8.86	9.43
22	8.74	8.47	8.96	9.28	10.10	9.70	9.55	9.74	9.50	9.12	8.91	9.42
23	8.75	8.45	8.95	9.29	10.01	9.68	9.60	9.70	9.48	9.10	9.03	9.41
24	8.72	8.50	8.94	9.31	9.96	9.64	9.57	9.67	9.45	9.06	9.05	9.40
25	8.70	8.64	8.94	9.32	9.90	9.61	9.56	9.64	9.43	9.05	9.05	9.39
26	8.68	8.68	9.01	9.38	9.89	9.60	9.56	9.61	9.41	9.03	9.04	9.37
27	8.68	8.68	9.07	9.39	9.81	9.60	9.56	9.60	9.39	9.01	9.02	9.35
28	8.67	8.67	9.12	9.41	9.78	9.61	9.53	9.60	9.38	8.98	9.01	9.34
29	8.65	8.67	9.14	9.45	9.78	9.61	9.51	9.58	9.47	8.95	9.00	9.32
30	8.64	8.66	9.16	9.44	---	9.62	9.48	9.55	9.47	8.92	9.01	9.31
31	8.63	---	9.17	9.51	---	9.67	---	9.53	---	8.90	8.99	---
Max	8.84	8.68	9.17	9.51	10.18	10.09	9.87	10.43	10.09	9.48	9.05	9.51
Min	8.63	8.45	8.61	9.15	9.54	9.60	9.48	9.39	9.35	8.90	8.72	8.99

Preview Only

07349815 Cypress Bayou Lake near Benton, LA

Red-Saline Basin
Red Chute Subbasin

LOCATION.--Lat 32°39′07″, long 93°40′11″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.12, T.19 N., R.13 W., Bossier Parish, LA, Hydrologic Unit 11140204, attached to pier of catwalk to diversion structure about 4,500 ft northwest of spillway, and 5.0 mi southeast of Benton.

DRAINAGE AREA.--163.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1975 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by a 6,000-ft earthfill dam on Cypress Bayou. The 250-ft concrete spillway with crest at 9.60 ft, gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft. A 6- by 6-ft sluice gate with sill at -15.5 ft, gage datum, is located at diversion structure 4,500 ft northwest of spillway. Water from Cypress Bayou Lake is diverted into Black Bayou Lake by way of this structure.Dam completed and storage began in 1975. Reservoir is used for flood control, conservation, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.14 ft., Apr. 15, 1991; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.63 ft, July 8; minimum gage height, 7.91 ft, Oct. 15.

Preview Only

07349815 Cypress Bayou Lake near Benton, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.15	8.31	8.46	9.42	9.76	9.88	9.88	9.57	9.53	9.65	9.58	9.17
2	8.14	8.32	8.45	9.50	9.76	9.83	9.85	9.58	9.52	9.71	9.56	9.15
3	8.13	8.29	8.45	9.54	9.75	9.80	9.83	9.62	9.50	9.76	9.55	9.14
4	8.13	8.28	8.42	9.62	9.76	9.76	9.81	9.64	9.49	9.85	9.53	9.12
5	8.12	8.27	8.41	9.68	9.75	9.73	9.75	9.65	9.47	9.93	9.51	9.14
6	8.10	8.49	8.40	9.70	9.73	9.71	9.70	9.66	9.44	10.55	9.49	9.16
7	8.07	8.54	8.41	9.83	9.72	9.69	9.65	9.66	9.42	11.28	9.47	9.16
8	8.05	8.53	8.39	9.87	9.72	9.67	9.62	9.65	9.42	11.58	9.45	9.15
9	8.03	8.53	8.38	9.87	9.70	9.65	9.60	9.63	9.43	11.22	9.43	9.14
10	8.01	8.54	8.37	9.83	9.69	9.64	9.61	9.63	9.42	10.79	9.42	9.14
11	8.01	8.53	8.41	9.79	9.67	9.65	9.62	9.64	9.40	10.51	9.40	9.14
12	8.01	8.51	8.48	9.76	9.68	9.64	9.61	9.64	9.39	10.37	9.38	9.11
13	7.99	8.50	8.48	9.77	9.88	9.63	9.60	9.62	9.38	10.21	9.36	9.10
14	7.97	8.49	8.47	10.46	9.91	9.66	9.65	9.60	9.37	10.16	9.34	9.09
15	7.95	8.51	8.47	10.86	9.95	9.68	9.64	9.59	9.43	10.16	9.31	9.07
16	8.03	8.49	8.47	11.09	9.93	9.71	9.66	9.65	9.45	10.16	9.28	9.04
17	8.09	8.47	8.47	11.09	9.91	9.69	9.67	9.62	9.49	10.20	9.25	9.02
18	8.09	8.47	8.48	10.89	9.82	9.68	9.67	9.64	9.55	10.18	9.23	9.00
19	8.09	8.46	8.48	10.64	9.78	9.67	9.66	9.64	9.59	10.07	9.21	8.99
20	8.06	8.45	8.48	10.43	9.76	9.66	9.64	9.61	9.62	9.97	9.19	8.98
21	8.05	8.43	8.53	10.37	9.75	9.64	9.62	9.59	9.68	9.89	9.17	8.96
22	8.05	8.42	8.53	10.26	9.73	9.63	9.60	9.57	9.68	9.83	9.15	8.94
23	8.02	8.42	8.53	10.18	9.70	9.62	9.59	9.55	9.68	9.78	9.13	8.93
24	8.01	8.42	8.54	10.13	9.78	9.61	9.57	9.54	9.67	9.72	9.11	8.94
25	8.04	8.41	8.68	10.06	9.96	9.61	9.63	9.53	9.65	9.68	9.09	8.93
26	8.14	8.41	8.69	9.97	9.98	9.60	9.69	9.51	9.67	9.64	9.08	8.92
27	8.33	8.41	8.69	9.93	9.97	9.60	9.65	9.49	9.71	9.62	9.05	8.91
28	8.32	8.43	8.70	9.89	9.92	9.70	9.63	9.47	9.69	9.60	9.02	8.90
29	8.30	8.44	8.73	9.83	---	9.81	9.62	9.48	9.68	9.59	9.03	8.87
30	8.29	8.47	9.10	9.80	---	9.87	9.59	9.54	9.66	9.58	9.19	8.85
31	8.30	---	9.28	9.77	---	9.90	---	9.55	---	9.58	9.19	---
Max	8.33	8.54	9.28	11.09	9.98	9.90	9.88	9.66	9.71	11.58	9.58	9.17
Min	7.95	8.27	8.37	9.42	9.67	9.60	9.57	9.47	9.37	9.58	9.02	8.85

Preview Only

07349815 Cypress Bayou Lake near Benton, LA

Red-Saline Basin
Red Chute Subbasin

LOCATION.--Lat 32°39′07″, long 93°40′11″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.12, T.19 N., R.13 W., Bossier Parish, LA, Hydrologic Unit 11140204, attached to pier of catwalk to diversion structure about 4,500 ft northwest of spillway, and 5.0 mi southeast of Benton.

DRAINAGE AREA.--163.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1975 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above NGVD of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by a 6,000-ft earthfill dam on Cypress Bayou. The 250-ft concrete spillway with crest at 9.60 ft, gage datum, is located at left end of dam. Capacity at spillway crest, 25,000 acre-ft. A 6- by 6-ft sluice gate with sill at -15.5 ft, gage datum, is located at diversion structure 4,500 ft northwest of spillway. Water from Cypress Bayou Lake is diverted into Black Bayou Lake by way of this structure. Dam completed and storage began in 1975. Reservoir is used for flood control, conservation, and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.14 ft., Apr. 15, 1991; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.11 ft, Mar 21; minimum gage height, 7.63 ft, Jan 8, 12, 15, 16.

Preview Only

07349815 Cypress Bayou Lake near Benton, LA—Continued

DCP
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.29	7.97	7.83	7.71	8.73	9.82	9.83	9.53	9.24	8.87	8.75	8.27
2	8.28	7.94	7.80	7.72	8.89	9.80	9.80	9.53	9.23	8.84	8.73	8.25
3	8.27	7.93	7.79	7.71	8.96	9.76	9.77	9.52	9.20	8.84	8.71	8.22
4	8.26	7.92	7.81	7.71	9.02	9.71	9.73	9.54	9.18	8.86	8.69	8.20
5	8.25	7.92	7.79	7.71	9.04	9.68	9.69	9.60	9.16	8.88	8.68	8.18
6	8.25	7.92	7.78	7.69	9.08	9.67	9.66	9.66	9.16	8.92	8.68	8.17
7	8.22	7.92	7.78	7.66	9.09	9.64	9.66	9.67	9.29	8.89	8.67	8.14
8	8.18	7.91	7.79	7.65	9.10	9.61	9.65	9.64	9.29	8.86	8.67	8.12
9	8.17	7.91	7.77	7.66	9.09	9.64	9.62	9.62	9.27	8.84	8.65	8.10
10	8.15	7.91	7.76	7.68	9.16	9.63	9.60	9.62	9.25	8.82	8.63	8.08
11	8.14	7.89	7.76	7.67	9.27	9.62	9.58	9.59	9.22	8.84	8.60	8.07
12	8.13	7.87	7.75	7.65	9.27	9.61	9.58	9.55	9.21	8.82	8.58	8.06
13	8.12	7.88	7.75	7.70	9.29	9.63	9.57	9.53	9.20	8.80	8.56	8.04
14	8.11	7.90	7.76	7.66	9.31	9.61	9.55	9.52	9.16	8.78	8.54	8.01
15	8.09	7.92	7.79	7.65	9.32	9.58	9.53	9.51	9.13	8.76	8.52	7.99
16	8.09	7.91	7.77	7.67	9.35	9.57	9.52	9.48	9.10	8.74	8.50	7.96
17	8.07	7.87	7.76	7.77	9.38	9.57	9.52	9.46	9.09	8.75	8.47	7.98
18	8.06	7.85	7.76	7.73	9.39	9.70	9.51	9.44	9.10	8.72	8.44	8.26
19	8.05	7.84	7.76	7.72	9.38	10.21	9.50	9.41	9.09	8.69	8.42	8.25
20	8.03	7.84	7.75	7.73	9.39	10.81	9.50	9.39	9.08	8.68	8.40	8.22
21	8.03	7.83	7.75	7.75	9.39	11.08	9.54	9.37	9.06	8.65	8.38	8.19
22	8.01	7.82	7.75	7.91	9.41	11.07	9.53	9.36	9.04	8.68	8.35	8.17
23	7.99	7.81	7.74	8.31	9.41	10.91	9.51	9.35	9.04	8.68	8.35	8.18
24	7.96	7.81	7.76	8.39	9.41	10.66	9.50	9.33	9.03	8.66	8.34	8.28
25	7.94	7.79	7.75	8.47	9.56	10.46	9.53	9.31	9.02	8.62	8.33	8.26
26	7.92	7.79	7.73	8.50	9.73	10.27	9.58	9.29	9.00	8.60	8.33	8.23
27	7.91	7.81	7.72	8.51	9.81	10.12	9.55	9.27	8.97	8.73	8.36	8.21
28	7.90	7.87	7.73	8.55	9.85	10.03	9.52	9.25	8.94	8.81	8.35	8.20
29	7.88	7.84	7.72	8.65	---	9.95	9.54	9.23	8.92	8.81	8.34	8.17
30	7.87	7.83	7.72	8.69	---	9.89	9.56	9.25	8.89	8.79	8.32	8.15
31	7.89	---	7.71	8.70	---	9.87	---	9.25	---	8.77	8.29	---
Max	8.29	7.97	7.83	8.70	9.85	11.08	9.83	9.67	9.29	8.92	8.75	8.28
Min	7.87	7.79	7.71	7.65	8.73	9.57	9.50	9.23	8.89	8.60	8.29	7.96

Preview Only

October 2004- September 2005

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/2004	8.72[A]
10/2/2004	8.73[A]
10/3/2004	8.73[A]
10/4/2004	8.75[A]
10/5/2004	8.78[A]
10/6/2004	8.76[A]
10/7/2004	8.76[A]
10/8/2004	8.93[A]
10/9/2004	9.17[A]
10/10/2004	9.33[A]
10/11/2004	9.56[A]
10/12/2004	9.65[A]
10/13/2004	9.68[A]
10/14/2004	9.66[A]
10/15/2004	9.62[A]
10/16/2004	9.60[A]
10/17/2004	9.58[A]
10/18/2004	9.57[A]
10/19/2004	9.56[A]
10/20/2004	9.56[A]
10/21/2004	9.56[A]
10/22/2004	9.55[A]
10/23/2004	9.54[A]
10/24/2004	9.53[A]
10/25/2004	9.54[A]
10/26/2004	9.53[A]
10/27/2004	9.52[A]
10/28/2004	9.51[A]
10/29/2004	9.50[A]
10/30/2004	9.51[A]
10/31/2004	9.50[A]

Date	Gage height (ft)
11/1/2004	9.66[A]
11/2/2004	9.82[A]
11/3/2004	9.91[A]
11/4/2004	9.95[A]
11/5/2004	9.94[A]
11/6/2004	9.88[A]
11/7/2004	9.82[A]
11/8/2004	9.77[A]
11/9/2004	9.72[A]
11/10/2004	9.68[A]
11/11/2004	9.66[A]
11/12/2004	9.63[A]
11/13/2004	9.61[A]
11/14/2004	9.60[A]
11/15/2004	9.59[A]
11/16/2004	9.59[A]
11/17/2004	9.59[A]
11/18/2004	9.66[A]
11/19/2004	9.67[A]
11/20/2004	9.69[A]
11/21/2004	9.80[A]
11/22/2004	9.86[A]
11/23/2004	9.93[A]
11/24/2004	10.01[A]
11/25/2004	9.98[A]
11/26/2004	9.95[A]
11/27/2004	9.92[A]
11/28/2004	9.87[A]
11/29/2004	9.86[A]
11/30/2004	10.08[A]

Date	Gage height (ft)
12/1/2004	10.12[A]
12/2/2004	10.13[A]
12/3/2004	10.14[A]
12/4/2004	10.10[A]
12/5/2004	10.06[A]
12/6/2004	10.04[A]
12/7/2004	10.22[A]
12/8/2004	10.22[A]
12/9/2004	10.22[A]
12/10/2004	10.19[A]
12/11/2004	10.12[A]
12/12/2004	10.03[A]
12/13/2004	9.96[A]
12/14/2004	9.89[A]
12/15/2004	9.83[A]
12/16/2004	9.81[A]
12/17/2004	9.78[A]
12/18/2004	9.76[A]
12/19/2004	9.75[A]
12/20/2004	9.70[A]
12/21/2004	9.70[A]
12/22/2004	9.81[A]
12/23/2004	9.96[A]
12/24/2004	10.05[A]
12/25/2004	10.11[A]
12/26/2004	10.10[A]
12/27/2004	10.02[A]
12/28/2004	9.95[A]
12/29/2004	9.90[A]
12/30/2004	9.87[A]
12/31/2004	9.85[A]

Date	Gage height (ft)
1/1/2005	9.84[A]
1/2/2005	9.84[A]
1/3/2005	9.85[A]
1/4/2005	9.87[A]
1/5/2005	9.87[A]
1/6/2005	9.89[A]
1/7/2005	9.99[A]
1/8/2005	10.12[A]
1/9/2005	10.19[A]
1/10/2005	10.26[A]
1/11/2005	10.24[A]
1/12/2005	10.18[A]
1/13/2005	10.26[A]
1/14/2005	10.21[A]
1/15/2005	10.17[A]
1/16/2005	10.15[A]
1/17/2005	10.08[A]
1/18/2005	10.0[A]
1/19/2005	9.94[A]
1/20/2005	9.90[A]
1/21/2005	9.87[A]
1/22/2005	9.86[A]
1/23/2005	9.81[A]
1/24/2005	9.78[A]
1/25/2005	9.76[A]
1/26/2005	9.76[A]
1/27/2005	9.75[A]
1/28/2005	9.81[A]
1/29/2005	9.85[A]
1/30/2005	9.88[A]
1/31/2005	10.03[A]

Date	Gage height (ft)
2/1/2005	10.10[A]
2/2/2005	10.19[A]
2/3/2005	10.20[A]
2/4/2005	10.18[A]
2/5/2005	10.14[A]
2/6/2005	10.06[A]
2/7/2005	10.09[A]
2/8/2005	10.14[A]
2/9/2005	10.16[A]
2/10/2005	10.15[A]
2/11/2005	10.11[A]
2/12/2005	10.03[A]
2/13/2005	9.97[A]
2/14/2005	9.94[A]
2/15/2005	9.90[A]
2/16/2005	9.88[A]
2/17/2005	9.84[A]
2/18/2005	9.80[A]
2/19/2005	9.78[A]
2/20/2005	9.77[A]
2/21/2005	9.76[A]
2/22/2005	9.76[A]
2/23/2005	9.79[A]
2/24/2005	9.84[A]
2/25/2005	9.89[A]
2/26/2005	9.92[A]
2/27/2005	9.91[A]
2/28/2005	9.87[A]

Date	Gage height (ft)
3/1/2005	9.83[A]
3/2/2005	9.80[A]
3/3/2005	9.78[A]
3/4/2005	9.76[A]
3/5/2005	9.76[A]
3/6/2005	9.74[A]
3/7/2005	9.74[A]
3/8/2005	9.72[A]
3/9/2005	9.73[A]
3/10/2005	9.72[A]
3/11/2005	9.73[A]
3/12/2005	9.69[A]
3/13/2005	9.69[A]
3/14/2005	9.68[A]
3/15/2005	9.66[A]
3/16/2005	9.65[A]
3/17/2005	9.63[A]
3/18/2005	9.61[A]
3/19/2005	9.62[A]
3/20/2005	9.63[A]
3/21/2005	9.64[A]
3/22/2005	9.70[A]
3/23/2005	9.76[A]
3/24/2005	9.81[A]
3/25/2005	9.80[A]
3/26/2005	9.79[A]
3/27/2005	9.78[A]
3/28/2005	9.76[A]
3/29/2005	9.75[A]
3/30/2005	9.76[A]
3/31/2005	9.75[A]

Date	Gage height (ft)
4/1/2005	9.76[A]
4/2/2005	9.73[A]
4/3/2005	9.71[A]
4/4/2005	9.70[A]
4/5/2005	9.68[A]
4/6/2005	9.73[A]
4/7/2005	9.77[A]
4/8/2005	9.81[A]
4/9/2005	9.80[A]
4/10/2005	9.77[A]
4/11/2005	10.44[A]
4/12/2005	10.74[A]
4/13/2005	10.68[A]
4/14/2005	10.58[A]
4/15/2005	10.42[A]
4/16/2005	10.24[A]
4/17/2005	10.09[A]
4/18/2005	9.97[A]
4/19/2005	9.89[A]
4/20/2005	9.84[A]
4/21/2005	9.79[A]
4/22/2005	9.76[A]
4/23/2005	9.72[A]
4/24/2005	9.66[A]
4/25/2005	9.62[A]
4/26/2005	9.65[A]
4/27/2005	9.63[A]
4/28/2005	9.60[A]
4/29/2005	9.60[A]
4/30/2005	9.61[A]

Date	Gage height (ft)
5/1/2005	9.59[A]
5/2/2005	9.57[A]
5/3/2005	9.55[A]
5/4/2005	9.54[A]
5/5/2005	9.53[A]
5/6/2005	9.52[A]
5/7/2005	9.50[A]
5/8/2005	9.48[A]
5/9/2005	9.49[A]
5/10/2005	9.48[A]
5/11/2005	9.48[A]
5/12/2005	9.47[A]
5/13/2005	9.46[A]
5/14/2005	9.45[A]
5/15/2005	9.44[A]
5/16/2005	9.41[A]
5/17/2005	9.38[A]
5/18/2005	9.37[A]
5/19/2005	9.35[A]
5/20/2005	9.34[A]
5/21/2005	9.33[A]
5/22/2005	9.31[A]
5/23/2005	9.29[A]
5/24/2005	9.27[A]
5/25/2005	9.26[A]
5/26/2005	9.23[A]
5/27/2005	9.21[A]
5/28/2005	9.20[A]
5/29/2005	9.22[A]
5/30/2005	9.23[A]
5/31/2005	9.23[A]

Date	Gage height (ft)
6/1/2005	9.23[A]
6/2/2005	9.28[A]
6/3/2005	9.25[A]
6/4/2005	9.24[A]
6/5/2005	9.23[A]
6/6/2005	9.21[A]
6/7/2005	9.20[A]
6/8/2005	9.19[A]
6/9/2005	9.17[A]
6/10/2005	9.16[A]
6/11/2005	9.14[A]
6/12/2005	9.12[A]
6/13/2005	9.09[A]
6/14/2005	9.08[A]
6/15/2005	9.07[A]
6/16/2005	9.04[A]
6/17/2005	9.01[A]
6/18/2005	9.00[A]
6/19/2005	8.97[A]
6/20/2005	8.95[A]
6/21/2005	8.93[A]
6/22/2005	8.91[A]
6/23/2005	8.88[A]
6/24/2005	8.86[A]
6/25/2005	8.84[A]
6/26/2005	8.82[A]
6/27/2005	8.80[A]
6/28/2005	8.78[A]
6/29/2005	8.76[A]
6/30/2005	8.74[A]

Date	Gage height (ft)
7/1/2005	8.76[A]
7/2/2005	8.78[A]
7/3/2005	8.76[A]
7/4/2005	8.75[A]
7/5/2005	8.74[A]
7/6/2005	8.73[A]
7/7/2005	8.71[A]
7/8/2005	8.69[A]
7/9/2005	8.66[A]
7/10/2005	8.65[A]
7/11/2005	8.62[A]
7/12/2005	8.60[A]
7/13/2005	8.62[A]
7/14/2005	8.62[A]
7/15/2005	8.61[A]
7/16/2005	8.62[A]
7/17/2005	8.62[A]
7/18/2005	8.66[A]
7/19/2005	8.65[A]
7/20/2005	8.63[A]
7/21/2005	8.63[A]
7/22/2005	8.64[A]
7/23/2005	8.62[A]
7/24/2005	8.61[A]
7/25/2005	8.60[A]
7/26/2005	8.58[A]
7/27/2005	8.59[A]
7/28/2005	8.65[A]
7/29/2005	8.63[A]
7/30/2005	8.61[A]
7/31/2005	8.58[A]

Date	Gage height (ft)
8/1/2005	8.56[A]
8/2/2005	8.54[A]
8/3/2005	8.52[A]
8/4/2005	8.50[A]
8/5/2005	8.48[A]
8/6/2005	8.46[A]
8/7/2005	8.44[A]
8/8/2005	8.43[A]
8/9/2005	8.41[A]
8/10/2005	8.40[A]
8/11/2005	8.38[A]
8/12/2005	8.35[A]
8/13/2005	8.33[A]
8/14/2005	8.31[A]
8/15/2005	8.30[A]
8/16/2005	8.28[A]
8/17/2005	8.27[A]
8/18/2005	8.24[A]
8/19/2005	8.22[A]
8/20/2005	8.20[A]
8/21/2005	8.19[A]
8/22/2005	8.16[A]
8/23/2005	8.14[A]
8/24/2005	8.13[A]
8/25/2005	8.11[A]
8/26/2005	8.09[A]
8/27/2005	8.10[A]
8/28/2005	8.12[A]
8/29/2005	8.11[A]
8/30/2005	8.08[A]
8/31/2005	8.06[A]

Date	Gage height (ft)
9/1/2005	8.03[A]
9/2/2005	8.01[A]
9/3/2005	7.99[A]
9/4/2005	7.96[A]
9/5/2005	7.93[A]
9/6/2005	7.91[A]
9/7/2005	7.89[A]
9/8/2005	7.86[A]
9/9/2005	7.84[A]
9/10/2005	[P]
9/11/2005	[P]
9/12/2005	[P]
9/13/2005	[P]
9/14/2005	[P]
9/15/2005	[P]
9/16/2005	[P]
9/17/2005	7.87[A]
9/18/2005	7.85[A]
9/19/2005	7.84[A]
9/20/2005	7.83[A]
9/21/2005	7.81[A]
9/22/2005	7.80[A]
9/23/2005	7.78[A]
9/24/2005	7.98[A]
9/25/2005	8.37[A]
9/26/2005	8.38[A]
9/27/2005	8.37[A]
9/28/2005	8.35[A]
9/29/2005	8.35[A]
9/30/2005	8.31[A]

Preview Only

October 2003- September 2004

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/2003	8.76[A]
10/2/2003	8.73[A]
10/3/2003	8.71[A]
10/4/2003	8.69[A]
10/5/2003	8.72[A]
10/6/2003	8.77[A]
10/7/2003	8.76[A]
10/8/2003	8.75[A]
10/9/2003	8.75[A]
10/10/2003	8.75[A]
10/11/2003	8.75[A]
10/12/2003	8.74[A]
10/13/2003	8.73[A]
10/14/2003	8.75[A]
10/15/2003	8.72[A]
10/16/2003	8.70[A]
10/17/2003	8.70[A]
10/18/2003	8.68[A]
10/19/2003	8.67[A]
10/20/2003	8.65[A]
10/21/2003	8.64[A]
10/22/2003	8.63[A]
10/23/2003	8.63[A]
10/24/2003	8.61[A]
10/25/2003	8.60[A]
10/26/2003	8.62[A]
10/27/2003	8.59[A]
10/28/2003	8.57[A]
10/29/2003	8.55[A]
10/30/2003	8.53[A]
10/31/2003	8.54[A]

Date	Gage height (ft)
11/1/2003	8.54[A]
11/2/2003	8.53[A]
11/3/2003	8.52[A]
11/4/2003	8.52[A]
11/5/2003	8.51[A]
11/6/2003	8.51[A]
11/7/2003	8.49[A]
11/8/2003	8.48[A]
11/9/2003	8.47[A]
11/10/2003	8.46[A]
11/11/2003	8.45[A]
11/12/2003	8.45[A]
11/13/2003	8.45[A]
11/14/2003	8.41[A]
11/15/2003	8.40[A]
11/16/2003	8.42[A]
11/17/2003	8.43[A]
11/18/2003	8.59[A]
11/19/2003	8.59[A]
11/20/2003	8.56[A]
11/21/2003	8.55[A]
11/22/2003	8.54[A]
11/23/2003	8.56[A]
11/24/2003	8.55[A]
11/25/2003	8.53[A]
11/26/2003	8.52[A]
11/27/2003	8.56[A]
11/28/2003	8.53[A]
11/29/2003	8.51[A]
11/30/2003	8.50[A]

Date	Gage height (ft)
12/1/2003	8.50[A]
12/2/2003	8.49[A]
12/3/2003	8.48[A]
12/4/2003	8.48[A]
12/5/2003	8.48[A]
12/6/2003	8.46[A]
12/7/2003	8.44[A]
12/8/2003	8.43[A]
12/9/2003	8.47[A]
12/10/2003	8.51[A]
12/11/2003	8.48[A]
12/12/2003	8.48[A]
12/13/2003	8.57[A]
12/14/2003	8.57[A]
12/15/2003	8.56[A]
12/16/2003	8.59[A]
12/17/2003	8.58[A]
12/18/2003	8.58[A]
12/19/2003	8.58[A]
12/20/2003	8.57[A]
12/21/2003	8.55[A]
12/22/2003	8.55[A]
12/23/2003	8.60[A]
12/24/2003	8.59[A]
12/25/2003	8.58[A]
12/26/2003	8.57[A]
12/27/2003	8.57[A]
12/28/2003	8.60[A]
12/29/2003	8.73[A]
12/30/2003	8.73[A]
12/31/2003	8.74[A]

Date	Gage height (ft)
1/1/2004	8.74[A]
1/2/2004	8.75[A]
1/3/2004	8.75[A]
1/4/2004	8.78[A]
1/5/2004	8.79[A]
1/6/2004	8.77[A]
1/7/2004	8.74[A]
1/8/2004	8.74[A]
1/9/2004	8.76[A]
1/10/2004	8.75[A]
1/11/2004	8.74[A]
1/12/2004	8.74[A]
1/13/2004	8.74[A]
1/14/2004	8.74[A]
1/15/2004	8.75[A]
1/16/2004	8.74[A]
1/17/2004	8.80[A]
1/18/2004	8.85[A]
1/19/2004	8.87[A]
1/20/2004	8.87[A]
1/21/2004	8.87[A]
1/22/2004	8.88[A]
1/23/2004	8.89[A]
1/24/2004	8.99[A]
1/25/2004	9.19[A]
1/26/2004	9.27[A]
1/27/2004	9.32[A]
1/28/2004	9.33[A]
1/29/2004	9.35[A]
1/30/2004	9.38[A]
1/31/2004	9.38[A]

Date	Gage height (ft)
2/1/2004	9.38[A]
2/2/2004	9.41[A]
2/3/2004	9.42[A]
2/4/2004	9.43[A]
2/5/2004	9.55[A]
2/6/2004	9.59[A]
2/7/2004	9.60[A]
2/8/2004	9.60[A]
2/9/2004	9.62[A]
2/10/2004	9.64[A]
2/11/2004	9.69[A]
2/12/2004	9.82[A]
2/13/2004	9.87[A]
2/14/2004	9.95[A]
2/15/2004	9.98[A]
2/16/2004	9.96[A]
2/17/2004	9.95[A]
2/18/2004	9.90[A]
2/19/2004	9.83[A]
2/20/2004	9.82[A]
2/21/2004	9.77[A]
2/22/2004	9.74[A]
2/23/2004	9.72[A]
2/24/2004	9.70[A]
2/25/2004	9.90[A]
2/26/2004	10.06[A]
2/27/2004	10.11[A]
2/28/2004	10.12[A]
2/29/2004	10.10[A]

Date	Gage height (ft)
3/1/2004	10.44[A]
3/2/2004	10.56[A]
3/3/2004	10.69[A]
3/4/2004	10.68[A]
3/5/2004	10.82[A]
3/6/2004	10.68[A]
3/7/2004	10.58[A]
3/8/2004	10.45[A]
3/9/2004	10.33[A]
3/10/2004	10.19[A]
3/11/2004	10.08[A]
3/12/2004	9.99[A]
3/13/2004	9.91[A]
3/14/2004	9.91[A]
3/15/2004	9.90[A]
3/16/2004	9.93[A]
3/17/2004	9.93[A]
3/18/2004	9.92[A]
3/19/2004	9.87[A]
3/20/2004	9.83[A]
3/21/2004	9.88[A]
3/22/2004	9.82[A]
3/23/2004	9.78[A]
3/24/2004	9.75[A]
3/25/2004	9.74[A]
3/26/2004	9.73[A]
3/27/2004	9.71[A]
3/28/2004	9.71[A]
3/29/2004	9.82[A]
3/30/2004	9.83[A]
3/31/2004	9.88[A]

Date	Gage height (ft)
4/1/2004	9.89[A]
4/2/2004	9.86[A]
4/3/2004	9.82[A]
4/4/2004	9.78[A]
4/5/2004	9.74[A]
4/6/2004	9.71[A]
4/7/2004	9.69[A]
4/8/2004	9.70[A]
4/9/2004	9.68[A]
4/10/2004	9.69[A]
4/11/2004	9.73[A]
4/12/2004	9.79[A]
4/13/2004	9.85[A]
4/14/2004	9.88[A]
4/15/2004	9.88[A]
4/16/2004	9.84[A]
4/17/2004	9.80[A]
4/18/2004	9.75[A]
4/19/2004	9.73[A]
4/20/2004	9.69[A]
4/21/2004	9.67[A]
4/22/2004	9.65[A]
4/23/2004	9.63[A]
4/24/2004	9.65[A]
4/25/2004	9.76[A]
4/26/2004	9.85[A]
4/27/2004	9.90[A]
4/28/2004	9.91[A]
4/29/2004	9.96[A]
4/30/2004	10.04[A]

Date	Gage height (ft)
5/1/2004	10.32[A]
5/2/2004	10.49[A]
5/3/2004	10.46[A]
5/4/2004	10.41[A]
5/5/2004	10.31[A]
5/6/2004	10.17[A]
5/7/2004	10.04[A]
5/8/2004	9.94[A]
5/9/2004	9.86[A]
5/10/2004	9.81[A]
5/11/2004	9.76[A]
5/12/2004	9.79[A]
5/13/2004	9.79[A]
5/14/2004	9.82[A]
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5/16/2004	9.80[A]
5/17/2004	9.76[A]
5/18/2004	9.74[A]
5/19/2004	9.71[A]
5/20/2004	9.69[A]
5/21/2004	9.66[A]
5/22/2004	9.64[A]
5/23/2004	9.62[A]
5/24/2004	9.60[A]
5/25/2004	9.58[A]
5/26/2004	9.56[A]
5/27/2004	9.54[A]
5/28/2004	9.54[A]
5/29/2004	9.52[A]
5/30/2004	9.50[A]
5/31/2004	9.53[A]

Date	Gage height (ft)
6/1/2004	9.65[A]
6/2/2004	9.82[A]
6/3/2004	9.83[A]
6/4/2004	9.77[A]
6/5/2004	9.72[A]
6/6/2004	9.80[A]
6/7/2004	9.83[A]
6/8/2004	9.87[A]
6/9/2004	10.02[A]
6/10/2004	10.00[A]
6/11/2004	9.98[A]
6/12/2004	9.92[A]
6/13/2004	9.85[A]
6/14/2004	9.79[A]
6/15/2004	9.86[A]
6/16/2004	10.07[A]
6/17/2004	10.11[A]
6/18/2004	10.11[A]
6/19/2004	10.10[A]
6/20/2004	10.01[A]
6/21/2004	9.95[A]
6/22/2004	9.94[A]
6/23/2004	9.90[A]
6/24/2004	9.85[A]
6/25/2004	9.81[A]
6/26/2004	9.80[A]
6/27/2004	10.02[A]
6/28/2004	10.15[A]
6/29/2004	10.12[A]
6/30/2004	10.15[A]

Date	Gage height (ft)
7/1/2004	10.19[A]
7/2/2004	10.15[A]
7/3/2004	10.12[A]
7/4/2004	10.08[A]
7/5/2004	9.99[A]
7/6/2004	9.90[A]
7/7/2004	9.82[A]
7/8/2004	9.77[A]
7/9/2004	9.72[A]
7/10/2004	9.68[A]
7/11/2004	9.65[A]
7/12/2004	9.62[A]
7/13/2004	9.60[A]
7/14/2004	9.58[A]
7/15/2004	9.56[A]
7/16/2004	9.54[A]
7/17/2004	9.52[A]
7/18/2004	9.50[A]
7/19/2004	9.47[A]
7/20/2004	9.45[A]
7/21/2004	9.43[A]
7/22/2004	9.41[A]
7/23/2004	9.39[A]
7/24/2004	9.37[A]
7/25/2004	9.36[A]
7/26/2004	9.33[A]
7/27/2004	9.30[A]
7/28/2004	9.28[A]
7/29/2004	9.26[A]
7/30/2004	9.27[A]
7/31/2004	9.27[A]

Date	Gage height (ft)
8/1/2004	9.25[A]
8/2/2004	9.24[A]
8/3/2004	9.21[A]
8/4/2004	9.20[A]
8/5/2004	9.18[A]
8/6/2004	9.16[A]
8/7/2004	9.12[A]
8/8/2004	9.09[A]
8/9/2004	9.07[A]
8/10/2004	9.06[A]
8/11/2004	9.05[A]
8/12/2004	9.05[A]
8/13/2004	9.02[A]
8/14/2004	8.99[A]
8/15/2004	8.97[A]
8/16/2004	8.95[A]
8/17/2004	8.93[A]
8/18/2004	8.91[A]
8/19/2004	8.91[A]
8/20/2004	8.96[A]
8/21/2004	8.99[A]
8/22/2004	9.03[A]
8/23/2004	9.04[A]
8/24/2004	9.03[A]
8/25/2004	9.01[A]
8/26/2004	9.00[A]
8/27/2004	8.99[A]
8/28/2004	8.98[A]
8/29/2004	8.97[A]
8/30/2004	8.96[A]
8/31/2004	8.93[A]

Date	Gage height (ft)
9/1/2004	8.91[A]
9/2/2004	8.89[A]
9/3/2004	8.87[A]
9/4/2004	8.86[A]
9/5/2004	8.85[A]
9/6/2004	8.86[A]
9/7/2004	8.90[A]
9/8/2004	8.86[A]
9/9/2004	8.84[A]
9/10/2004	8.82[A]
9/11/2004	8.80[A]
9/12/2004	8.79[A]
9/13/2004	8.77[A]
9/14/2004	8.75[A]
9/15/2004	8.73[A]
9/16/2004	8.73[A]
9/17/2004	8.70[A]
9/18/2004	8.68[A]
9/19/2004	8.66[A]
9/20/2004	8.63[A]
9/21/2004	8.61[A]
9/22/2004	8.58[A]
9/23/2004	8.57[A]
9/24/2004	8.64[A]
9/25/2004	8.73[A]
9/26/2004	8.74[A]
9/27/2004	8.75[A]
9/28/2004	8.74[A]
9/29/2004	8.73[A]
9/30/2004	8.73[A]

Preview Only

October 2002- September 2003

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/2002	8.14[A]
10/2/2002	8.13[A]
10/3/2002	8.15[A]
10/4/2002	8.13[A]
10/5/2002	8.12[A]
10/6/2002	8.10[A]
10/7/2002	8.13[A]
10/8/2002	8.11[A]
10/9/2002	8.10[A]
10/10/2002	8.29[A]
10/11/2002	8.32[A]
10/12/2002	8.32[A]
10/13/2002	8.32[A]
10/14/2002	8.29[A]
10/15/2002	8.28[A]
10/16/2002	8.25[A]
10/17/2002	8.24[A]
10/18/2002	8.22[A]
10/19/2002	8.28[A]
10/20/2002	8.32[A]
10/21/2002	8.32[A]
10/22/2002	8.31[A]
10/23/2002	8.30[A]
10/24/2002	8.29[A]
10/25/2002	8.33[A]
10/26/2002	8.34[A]
10/27/2002	8.34[A]
10/28/2002	8.36[A]
10/29/2002	8.40[A]
10/30/2002	8.39[A]
10/31/2002	8.40[A]

Date	Gage height (ft)
11/1/2002	8.39[A]
11/2/2002	8.38[A]
11/3/2002	8.40[A]
11/4/2002	8.43[A]
11/5/2002	8.61[A]
11/6/2002	8.63[A]
11/7/2002	8.64[A]
11/8/2002	8.64[A]
11/9/2002	8.64[A]
11/10/2002	8.65[A]
11/11/2002	8.66[A]
11/12/2002	8.66[A]
11/13/2002	8.63[A]
11/14/2002	8.62[A]
11/15/2002	8.64[A]
11/16/2002	8.63[A]
11/17/2002	8.61[A]
11/18/2002	8.59[A]
11/19/2002	8.60[A]
11/20/2002	8.60[A]
11/21/2002	8.59[A]
11/22/2002	8.59[A]
11/23/2002	8.57[A]
11/24/2002	8.57[A]
11/25/2002	8.58[A]
11/26/2002	8.68[A]
11/27/2002	8.70[A]
11/28/2002	8.69[A]
11/29/2002	8.69[A]
11/30/2002	8.70[A]

Date	Gage height (ft)
12/1/2002	8.69[A]
12/2/2002	8.68[A]
12/3/2002	8.71[A]
12/4/2002	8.90[A]
12/5/2002	8.95[A]
12/6/2002	8.98[A]
12/7/2002	9.01[A]
12/8/2002	9.03[A]
12/9/2002	9.06[A]
12/10/2002	9.07[A]
12/11/2002	9.06[A]
12/12/2002	9.10[A]
12/13/2002	9.25[A]
12/14/2002	9.29[A]
12/15/2002	9.34[A]
12/16/2002	9.37[A]
12/17/2002	9.38[A]
12/18/2002	9.41[A]
12/19/2002	9.61[A]
12/20/2002	9.84[A]
12/21/2002	10.45[A]
12/22/2002	10.63[A]
12/23/2002	10.52[A]
12/24/2002	10.56[A]
12/25/2002	10.40[A]
12/26/2002	10.34[A]
12/27/2002	10.30[A]
12/28/2002	10.23[A]
12/29/2002	10.14[A]
12/30/2002	10.08[A]
12/31/2002	10.26[A]

Date	Gage height (ft)
1/1/2003	10.27[A]
1/2/2003	10.28[A]
1/3/2003	10.27[A]
1/4/2003	10.24[A]
1/5/2003	10.17[A]
1/6/2003	10.08[A]
1/7/2003	9.98[A]
1/8/2003	9.90[A]
1/9/2003	9.86[A]
1/10/2003	9.82[A]
1/11/2003	9.78[A]
1/12/2003	9.75[A]
1/13/2003	9.73[A]
1/14/2003	9.71[A]
1/15/2003	9.69[A]
1/16/2003	9.69[A]
1/17/2003	9.66[A]
1/18/2003	9.65[A]
1/19/2003	9.64[A]
1/20/2003	9.64[A]
1/21/2003	9.65[A]
1/22/2003	9.65[A]
1/23/2003	9.64[A]
1/24/2003	9.61[A]
1/25/2003	9.61[A]
1/26/2003	9.62[A]
1/27/2003	9.61[A]
1/28/2003	9.61[A]
1/29/2003	9.63[A]
1/30/2003	9.62[A]
1/31/2003	9.62[A]

Date	Gage height (ft)
2/1/2003	9.61[A]
2/2/2003	9.60[A]
2/3/2003	9.62[A]
2/4/2003	9.61[A]
2/5/2003	9.60[A]
2/6/2003	9.67[A]
2/7/2003	9.70[A]
2/8/2003	9.72[A]
2/9/2003	9.77[A]
2/10/2003	9.80[A]
2/11/2003	9.82[A]
2/12/2003	9.83[A]
2/13/2003	9.81[A]
2/14/2003	9.81[A]
2/15/2003	9.91[A]
2/16/2003	10.06[A]
2/17/2003	10.16[A]
2/18/2003	10.30[A]
2/19/2003	10.34[A]
2/20/2003	10.31[A]
2/21/2003	10.55[A]
2/22/2003	11.00[A]
2/23/2003	11.18[A]
2/24/2003	11.18[A]
2/25/2003	10.95[A]
2/26/2003	10.77[A]
2/27/2003	10.67[A]
2/28/2003	10.58[A]

Date	Gage height (ft)
3/1/2003	10.51[A]
3/2/2003	10.43[A]
3/3/2003	10.32[A]
3/4/2003	10.22[A]
3/5/2003	10.15[A]
3/6/2003	10.06[A]
3/7/2003	10.0[A]
3/8/2003	9.95[A]
3/9/2003	9.91[A]
3/10/2003	9.87[A]
3/11/2003	9.83[A]
3/12/2003	9.81[A]
3/13/2003	9.80[A]
3/14/2003	9.78[A]
3/15/2003	9.77[A]
3/16/2003	9.77[A]
3/17/2003	9.75[A]
3/18/2003	9.78[A]
3/19/2003	9.89[A]
3/20/2003	9.95[A]
3/21/2003	10.00[A]
3/22/2003	10.01[A]
3/23/2003	9.95[A]
3/24/2003	9.88[A]
3/25/2003	9.83[A]
3/26/2003	9.82[A]
3/27/2003	9.79[A]
3/28/2003	9.82[A]
3/29/2003	9.82[A]
3/30/2003	9.77[A]
3/31/2003	9.73[A]

Date	Gage height (ft)
4/1/2003	9.70[A]
4/2/2003	9.68[A]
4/3/2003	9.68[A]
4/4/2003	9.67[A]
4/5/2003	9.67[A]
4/6/2003	9.81[A]
4/7/2003	10.18[A]
4/8/2003	10.20[A]
4/9/2003	10.18[A]
4/10/2003	10.15[A]
4/11/2003	10.04[A]
4/12/2003	9.93[A]
4/13/2003	9.85[A]
4/14/2003	9.79[A]
4/15/2003	9.74[A]
4/16/2003	9.70[A]
4/17/2003	9.69[A]
4/18/2003	9.66[A]
4/19/2003	9.63[A]
4/20/2003	9.64[A]
4/21/2003	9.64[A]
4/22/2003	9.62[A]
4/23/2003	9.60[A]
4/24/2003	9.60[A]
4/25/2003	9.60[A]
4/26/2003	9.58[A]
4/27/2003	9.56[A]
4/28/2003	9.56[A]
4/29/2003	9.55[A]
4/30/2003	9.53[A]

Date	Gage height (ft)
5/1/2003	9.52[A]
5/2/2003	9.53[A]
5/3/2003	9.52[A]
5/4/2003	9.49[A]
5/5/2003	9.49[A]
5/6/2003	9.49[A]
5/7/2003	9.50[A]
5/8/2003	9.57[A]
5/9/2003	9.78[A]
5/10/2003	10.01[A]
5/11/2003	10.06[A]
5/12/2003	9.93[A]
5/13/2003	9.82[A]
5/14/2003	9.77[A]
5/15/2003	10.10[A]
5/16/2003	10.12[A]
5/17/2003	10.20[A]
5/18/2003	10.23[A]
5/19/2003	10.18[A]
5/20/2003	10.09[A]
5/21/2003	9.97[A]
5/22/2003	9.88[A]
5/23/2003	9.82[A]
5/24/2003	9.77[A]
5/25/2003	9.73[A]
5/26/2003	9.70[A]
5/27/2003	9.66[A]
5/28/2003	9.63[A]
5/29/2003	9.61[A]
5/30/2003	9.59[A]
5/31/2003	9.57[A]

Date	Gage height (ft)
6/1/2003	9.55[A]
6/2/2003	9.53[A]
6/3/2003	9.52[A]
6/4/2003	9.50[A]
6/5/2003	9.48[A]
6/6/2003	9.51[A]
6/7/2003	9.51[A]
6/8/2003	9.50[A]
6/9/2003	9.47[A]
6/10/2003	9.45[A]
6/11/2003	9.43[A]
6/12/2003	9.43[A]
6/13/2003	9.47[A]
6/14/2003	9.48[A]
6/15/2003	9.49[A]
6/16/2003	9.50[A]
6/17/2003	9.56[A]
6/18/2003	9.61[A]
6/19/2003	9.65[A]
6/20/2003	9.64[A]
6/21/2003	9.61[A]
6/22/2003	9.59[A]
6/23/2003	9.56[A]
6/24/2003	9.54[A]
6/25/2003	9.52[A]
6/26/2003	9.51[A]
6/27/2003	9.49[A]
6/28/2003	9.46[A]
6/29/2003	9.44[A]
6/30/2003	9.43[A]

Date	Gage height (ft)
7/1/2003	9.44[A]
7/2/2003	9.42[A]
7/3/2003	9.41[A]
7/4/2003	9.40[A]
7/5/2003	9.41[A]
7/6/2003	9.40[A]
7/7/2003	9.39[A]
7/8/2003	9.40[A]
7/9/2003	9.38[A]
7/10/2003	9.38[A]
7/11/2003	9.37[A]
7/12/2003	9.35[A]
7/13/2003	9.34[A]
7/14/2003	9.32[A]
7/15/2003	9.30[A]
7/16/2003	9.28[A]
7/17/2003	9.26[A]
7/18/2003	9.25[A]
7/19/2003	9.22[A]
7/20/2003	9.21[A]
7/21/2003	9.19[A]
7/22/2003	9.17[A]
7/23/2003	9.16[A]
7/24/2003	9.13[A]
7/25/2003	9.10[A]
7/26/2003	9.07[A]
7/27/2003	9.06[A]
7/28/2003	9.04[A]
7/29/2003	9.01[A]
7/30/2003	9.02[A]
7/31/2003	9.07[A]

Date	Gage height (ft)
8/1/2003	9.07[A]
8/2/2003	9.05[A]
8/3/2003	9.04[A]
8/4/2003	9.02[A]
8/5/2003	9.00[A]
8/6/2003	8.98[A]
8/7/2003	8.97[A]
8/8/2003	8.95[A]
8/9/2003	8.93[A]
8/10/2003	8.91[A]
8/11/2003	8.92[A]
8/12/2003	9.21[A]
8/13/2003	9.29[A]
8/14/2003	9.30[A]
8/15/2003	9.31[A]
8/16/2003	9.31[A]
8/17/2003	9.29[A]
8/18/2003	9.28[A]
8/19/2003	9.26[A]
8/20/2003	9.24[A]
8/21/2003	9.23[A]
8/22/2003	9.22[A]
8/23/2003	9.21[A]
8/24/2003	9.20[A]
8/25/2003	9.18[A]
8/26/2003	9.16[A]
8/27/2003	9.14[A]
8/28/2003	9.12[A]
8/29/2003	9.11[A]
8/30/2003	9.08[A]
8/31/2003	9.07[A]

Date	Gage height (ft)
9/1/2003	9.06[A]
9/2/2003	9.09[A]
9/3/2003	9.09[A]
9/4/2003	9.08[A]
9/5/2003	9.05[A]
9/6/2003	9.02[A]
9/7/2003	9.00[A]
9/8/2003	8.98[A]
9/9/2003	8.96[A]
9/10/2003	8.95[A]
9/11/2003	8.93[A]
9/12/2003	8.94[A]
9/13/2003	8.96[A]
9/14/2003	8.95[A]
9/15/2003	8.92[A]
9/16/2003	8.90[A]
9/17/2003	8.88[A]
9/18/2003	8.87[A]
9/19/2003	8.86[A]
9/20/2003	8.84[A]
9/21/2003	8.85[A]
9/22/2003	8.91[A]
9/23/2003	8.90[A]
9/24/2003	8.89[A]
9/25/2003	8.88[A]
9/26/2003	8.87[A]
9/27/2003	8.86[A]
9/28/2003	8.85[A]
9/29/2003	8.80[A]
9/30/2003	8.78[A]

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October 2001- September 2002

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/2001	8.99[A]
10/2/2001	8.97[A]
10/3/2001	8.95[A]
10/4/2001	8.94[A]
10/5/2001	8.95[A]
10/6/2001	8.99[A]
10/7/2001	8.95[A]
10/8/2001	8.93[A]
10/9/2001	8.92[A]
10/10/2001	8.92[A]
10/11/2001	9.00[A]
10/12/2001	9.03[A]
10/13/2001	9.27[A]
10/14/2001	9.46[A]
10/15/2001	9.61[A]
10/16/2001	9.74[A]
10/17/2001	9.80[A]
10/18/2001	9.81[A]
10/19/2001	9.78[A]
10/20/2001	9.74[A]
10/21/2001	9.71[A]
10/22/2001	9.68[A]
10/23/2001	9.66[A]
10/24/2001	9.65[A]
10/25/2001	9.63[A]
10/26/2001	9.61[A]
10/27/2001	9.59[A]
10/28/2001	9.57[A]
10/29/2001	9.56[A]
10/30/2001	9.55[A]
10/31/2001	9.54[A]

Date	Gage height (ft)
11/1/2001	9.54[A]
11/2/2001	9.54[A]
11/3/2001	9.55[A]
11/4/2001	9.55[A]
11/5/2001	9.54[A]
11/6/2001	9.53[A]
11/7/2001	9.53[A]
11/8/2001	9.52[A]
11/9/2001	9.52[A]
11/10/2001	9.51[A]
11/11/2001	9.51[A]
11/12/2001	9.51[A]
11/13/2001	9.51[A]
11/14/2001	9.50[A]
11/15/2001	9.50[A]
11/16/2001	9.49[A]
11/17/2001	9.49[A]
11/18/2001	9.48[A]
11/19/2001	9.49[A]
11/20/2001	9.47[A]
11/21/2001	9.45[A]
11/22/2001	9.44[A]
11/23/2001	9.42[A]
11/24/2001	9.45[A]
11/25/2001	9.44[A]
11/26/2001	9.47[A]
11/27/2001	9.59[A]
11/28/2001	9.66[A]
11/29/2001	9.81[A]
11/30/2001	9.84[A]

Date	Gage height (ft)
12/1/2001	9.88[A]
12/2/2001	9.88[A]
12/3/2001	9.84[A]
12/4/2001	9.80[A]
12/5/2001	9.76[A]
12/6/2001	9.73[A]
12/7/2001	9.71[A]
12/8/2001	9.79[A]
12/9/2001	9.76[A]
12/10/2001	9.73[A]
12/11/2001	9.73[A]
12/12/2001	10.10[A]
12/13/2001	10.30[A]
12/14/2001	10.37[A]
12/15/2001	10.43[A]
12/16/2001	10.50[A]
12/17/2001	10.75[A]
12/18/2001	10.87[A]
12/19/2001	10.89[A]
12/20/2001	10.72[A]
12/21/2001	10.52[A]
12/22/2001	10.36[A]
12/23/2001	10.23[A]
12/24/2001	10.12[A]
12/25/2001	10.03[A]
12/26/2001	9.96[A]
12/27/2001	9.89[A]
12/28/2001	9.86[A]
12/29/2001	9.83[A]
12/30/2001	9.80[A]
12/31/2001	9.77[A]

Date	Gage height (ft)
1/1/2002	9.75[A]
1/2/2002	9.73[A]
1/3/2002	9.70[A]
1/4/2002	9.69[A]
1/5/2002	9.73[A]
1/6/2002	9.80[A]
1/7/2002	9.84[A]
1/8/2002	9.89[A]
1/9/2002	9.92[A]
1/10/2002	9.90[A]
1/11/2002	9.87[A]
1/12/2002	9.83[A]
1/13/2002	9.79[A]
1/14/2002	9.78[A]
1/15/2002	9.75[A]
1/16/2002	9.72[A]
1/17/2002	9.73[A]
1/18/2002	9.72[A]
1/19/2002	9.75[A]
1/20/2002	9.78[A]
1/21/2002	9.82[A]
1/22/2002	9.83[A]
1/23/2002	9.82[A]
1/24/2002	9.86[A]
1/25/2002	9.89[A]
1/26/2002	9.94[A]
1/27/2002	9.97[A]
1/28/2002	9.96[A]
1/29/2002	9.92[A]
1/30/2002	9.88[A]
1/31/2002	9.86[A]

Date	Gage height (ft)
2/1/2002	9.83[A]
2/2/2002	9.81[A]
2/3/2002	9.80[A]
2/4/2002	9.79[A]
2/5/2002	9.81[A]
2/6/2002	9.93[A]
2/7/2002	9.99[A]
2/8/2002	10.04[A]
2/9/2002	10.06[A]
2/10/2002	10.04[A]
2/11/2002	9.95[A]
2/12/2002	9.90[A]
2/13/2002	9.87[A]
2/14/2002	9.82[A]
2/15/2002	9.81[A]
2/16/2002	9.78[A]
2/17/2002	9.76[A]
2/18/2002	9.74[A]
2/19/2002	9.80[A]
2/20/2002	10.02[A]
2/21/2002	10.08[A]
2/22/2002	10.12[A]
2/23/2002	10.12[A]
2/24/2002	10.06[A]
2/25/2002	10.0[A]
2/26/2002	9.94[A]
2/27/2002	9.83[A]
2/28/2002	9.80[A]

Date	Gage height (ft)
3/1/2002	9.78[A]
3/2/2002	9.79[A]
3/3/2002	9.76[A]
3/4/2002	9.73[A]
3/5/2002	9.72[A]
3/6/2002	9.71[A]
3/7/2002	9.71[A]
3/8/2002	9.70[A]
3/9/2002	9.75[A]
3/10/2002	9.71[A]
3/11/2002	9.73[A]
3/12/2002	9.94[A]
3/13/2002	10.01[A]
3/14/2002	10.04[A]
3/15/2002	10.07[A]
3/16/2002	10.03[A]
3/17/2002	9.97[A]
3/18/2002	10.23[A]
3/19/2002	10.40[A]
3/20/2002	10.74[A]
3/21/2002	10.89[A]
3/22/2002	10.82[A]
3/23/2002	10.70[A]
3/24/2002	10.54[A]
3/25/2002	10.41[A]
3/26/2002	10.31[A]
3/27/2002	10.20[A]
3/28/2002	10.15[A]
3/29/2002	10.10[A]
3/30/2002	10.08[A]
3/31/2002	10.27[A]

Date	Gage height (ft)
4/1/2002	10.28[A]
4/2/2002	10.31[A]
4/3/2002	10.31[A]
4/4/2002	10.23[A]
4/5/2002	10.13[A]
4/6/2002	10.04[A]
4/7/2002	9.95[A]
4/8/2002	10.24[A]
4/9/2002	10.35[A]
4/10/2002	10.34[A]
4/11/2002	10.33[A]
4/12/2002	10.27[A]
4/13/2002	10.18[A]
4/14/2002	10.07[A]
4/15/2002	9.99[A]
4/16/2002	9.93[A]
4/17/2002	9.89[A]
4/18/2002	9.85[A]
4/19/2002	9.82[A]
4/20/2002	9.79[A]
4/21/2002	9.77[A]
4/22/2002	9.74[A]
4/23/2002	9.71[A]
4/24/2002	9.69[A]
4/25/2002	9.68[A]
4/26/2002	9.64[A]
4/27/2002	9.62[A]
4/28/2002	9.62[A]
4/29/2002	9.62[A]
4/30/2002	9.61[A]

Date	Gage height (ft)
5/1/2002	9.59[A]
5/2/2002	9.59[A]
5/3/2002	9.61[A]
5/4/2002	9.60[A]
5/5/2002	9.58[A]
5/6/2002	9.57[A]
5/7/2002	9.57[A]
5/8/2002	9.57[A]
5/9/2002	9.57[A]
5/10/2002	9.56[A]
5/11/2002	9.54[A]
5/12/2002	9.53[A]
5/13/2002	9.58[A]
5/14/2002	9.54[A]
5/15/2002	9.51[A]
5/16/2002	P
5/17/2002	9.52[A]
5/18/2002	9.54[A]
5/19/2002	9.51[A]
5/20/2002	9.49[A]
5/21/2002	9.48[A]
5/22/2002	9.46[A]
5/23/2002	9.44[A]
5/24/2002	9.43[A]
5/25/2002	9.43[A]
5/26/2002	9.43[A]
5/27/2002	9.46[A]
5/28/2002	9.44[A]
5/29/2002	9.44[A]
5/30/2002	9.44[A]
5/31/2002	9.43[A]

Date	Gage height (ft)
6/1/2002	9.42[A]
6/2/2002	9.40[A]
6/3/2002	9.38[A]
6/4/2002	9.36[A]
6/5/2002	9.36[A]
6/6/2002	9.35[A]
6/7/2002	9.32[A]
6/8/2002	9.30[A]
6/9/2002	9.38[A]
6/10/2002	9.45[A]
6/11/2002	9.43[A]
6/12/2002	9.42[A]
6/13/2002	9.41[A]
6/14/2002	9.40[A]
6/15/2002	9.36[A]
6/16/2002	9.34[A]
6/17/2002	9.31[A]
6/18/2002	9.29[A]
6/19/2002	9.26[A]
6/20/2002	9.25[A]
6/21/2002	9.25[A]
6/22/2002	9.23[A]
6/23/2002	9.21[A]
6/24/2002	9.22[A]
6/25/2002	9.21[A]
6/26/2002	P
6/27/2002	P
6/28/2002	P
6/29/2002	9.22[A]
6/30/2002	9.22[A]

Date	Gage height (ft)
7/1/2002	9.23[A]
7/2/2002	9.25[A]
7/3/2002	9.24[A]
7/4/2002	9.23[A]
7/5/2002	9.22[A]
7/6/2002	9.21[A]
7/7/2002	9.19[A]
7/8/2002	9.17[A]
7/9/2002	9.14[A]
7/10/2002	9.12[A]
7/11/2002	9.10[A]
7/12/2002	9.08[A]
7/13/2002	9.07[A]
7/14/2002	9.05[A]
7/15/2002	9.07[A]
7/16/2002	9.20[A]
7/17/2002	9.26[A]
7/18/2002	9.25[A]
7/19/2002	9.24[A]
7/20/2002	9.23[A]
7/21/2002	9.21[A]
7/22/2002	9.20[A]
7/23/2002	9.18[A]
7/24/2002	9.17[A]
7/25/2002	9.14[A]
7/26/2002	9.12[A]
7/27/2002	9.10[A]
7/28/2002	9.08[A]
7/29/2002	9.06[A]
7/30/2002	9.04[A]
7/31/2002	9.02[A]

Date	Gage height (ft)
8/1/2002	9.00[A]
8/2/2002	8.98[A]
8/3/2002	8.96[A]
8/4/2002	8.93[A]
8/5/2002	8.91[A]
8/6/2002	8.89[A]
8/7/2002	8.87[A]
8/8/2002	8.84[A]
8/9/2002	8.81[A]
8/10/2002	8.78[A]
8/11/2002	8.76[A]
8/12/2002	8.73[A]
8/13/2002	8.71[A]
8/14/2002	8.74[A]
8/15/2002	8.74[A]
8/16/2002	8.74[A]
8/17/2002	8.75[A]
8/18/2002	8.73[A]
8/19/2002	8.72[A]
8/20/2002	8.71[A]
8/21/2002	8.69[A]
8/22/2002	8.67[A]
8/23/2002	8.65[A]
8/24/2002	8.63[A]
8/25/2002	8.62[A]
8/26/2002	8.61[A]
8/27/2002	8.59[A]
8/28/2002	8.57[A]
8/29/2002	8.55[A]
8/30/2002	8.52[A]
8/31/2002	8.50[A]

Date	Gage height (ft)
9/1/2002	8.48[A]
9/2/2002	8.46[A]
9/3/2002	8.45[A]
9/4/2002	8.43[A]
9/5/2002	8.42[A]
9/6/2002	8.40[A]
9/7/2002	8.38[A]
9/8/2002	8.41[A]
9/9/2002	8.43[A]
9/10/2002	8.42[A]
9/11/2002	8.41[A]
9/12/2002	8.39[A]
9/13/2002	8.38[A]
9/14/2002	8.36[A]
9/15/2002	8.34[A]
9/16/2002	8.33[A]
9/17/2002	8.32[A]
9/18/2002	8.30[A]
9/19/2002	8.31[A]
9/20/2002	8.34[A]
9/21/2002	8.33[A]
9/22/2002	8.33[A]
9/23/2002	8.30[A]
9/24/2002	8.27[A]
9/25/2002	8.24[A]
9/26/2002	8.22[A]
9/27/2002	8.20[A]
9/28/2002	8.18[A]
9/29/2002	8.17[A]
9/30/2002	8.16[A]

Preview Only

October 2000- September 2001

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/2000	8.07[A]
10/2/2000	8.05[A]
10/3/2000	8.04[A]
10/4/2000	8.03[A]
10/5/2000	8.03[A]
10/6/2000	8.19[A]
10/7/2000	8.20[A]
10/8/2000	8.17[A]
10/9/2000	8.14[A]
10/10/2000	8.12[A]
10/11/2000	8.11[A]
10/12/2000	8.10[A]
10/13/2000	8.09[A]
10/14/2000	8.08[A]
10/15/2000	8.07[A]
10/16/2000	8.07[A]
10/17/2000	8.09[A]
10/18/2000	8.08[A]
10/19/2000	8.07[A]
10/20/2000	8.05[A]
10/21/2000	8.05[A]
10/22/2000	8.03[A]
10/23/2000	8.03[A]
10/24/2000	8.03[A]
10/25/2000	8.02[A]
10/26/2000	8.01[A]
10/27/2000	8.00[A]
10/28/2000	7.99[A]
10/29/2000	7.98[A]
10/30/2000	7.98[A]
10/31/2000	7.97[A]

Date	Gage height (ft)
11/1/2000	7.96[A]
11/2/2000	8.04[A]
11/3/2000	8.10[A]
11/4/2000	8.21[A]
11/5/2000	8.22[A]
11/6/2000	8.28[A]
11/7/2000	8.33[A]
11/8/2000	8.45[A]
11/9/2000	8.59[A]
11/10/2000	8.73[A]
11/11/2000	8.87[A]
11/12/2000	8.99[A]
11/13/2000	9.12[A]
11/14/2000	9.17[A]
11/15/2000	9.22[A]
11/16/2000	9.32[A]
11/17/2000	9.38[A]
11/18/2000	9.42[A]
11/19/2000	9.47[A]
11/20/2000	9.50[A]
11/21/2000	9.52[A]
11/22/2000	9.53[A]
11/23/2000	9.62[A]
11/24/2000	10.21[A]
11/25/2000	10.48[A]
11/26/2000	10.84[A]
11/27/2000	10.82[A]
11/28/2000	10.61[A]
11/29/2000	10.43[A]
11/30/2000	10.26[A]

Date	Gage height (ft)
12/1/2000	10.15[A]
12/2/2000	10.04[A]
12/3/2000	9.94[A]
12/4/2000	9.88[A]
12/5/2000	9.83[A]
12/6/2000	9.80[A]
12/7/2000	9.77[A]
12/8/2000	9.75[A]
12/9/2000	9.73[A]
12/10/2000	9.71[A]
12/11/2000	9.71[A]
12/12/2000	9.68[A]
12/13/2000	9.81[A]
12/14/2000	9.94[A]
12/15/2000	10.09[A]
12/16/2000	10.33[A]
12/17/2000	10.28[A]
12/18/2000	10.27[A]
12/19/2000	10.22[A]
12/20/2000	10.14[A]
12/21/2000	10.10[A]
12/22/2000	10.02[A]
12/23/2000	9.95[A]
12/24/2000	9.91[A]
12/25/2000	9.95[A]
12/26/2000	10.11[A]
12/27/2000	10.76[A]
12/28/2000	11.10[A]
12/29/2000	11.41[A]
12/30/2000	11.27[A]
12/31/2000	10.97[A]

Date	Gage height (ft)
1/1/2001	10.70[A]
1/2/2001	10.49[A]
1/3/2001	10.33[A]
1/4/2001	10.22[A]
1/5/2001	10.14[A]
1/6/2001	10.07[A]
1/7/2001	10.03[A]
1/8/2001	9.98[A]
1/9/2001	9.94[A]
1/10/2001	9.90[A]
1/11/2001	9.90[A]
1/12/2001	9.87[A]
1/13/2001	9.87[A]
1/14/2001	9.88[A]
1/15/2001	9.87[A]
1/16/2001	9.90[A]
1/17/2001	10.17[A]
1/18/2001	10.67[A]
1/19/2001	11.17[A]
1/20/2001	11.31[A]
1/21/2001	11.12[A]
1/22/2001	10.83[A]
1/23/2001	10.59[A]
1/24/2001	10.41[A]
1/25/2001	10.28[A]
1/26/2001	10.17[A]
1/27/2001	10.10[A]
1/28/2001	10.02[A]
1/29/2001	10.08[A]
1/30/2001	10.13[A]
1/31/2001	10.14[A]

Date	Gage height (ft)
2/1/2001	10.14[A]
2/2/2001	10.13[A]
2/3/2001	10.07[A]
2/4/2001	10.01[A]
2/5/2001	9.94[A]
2/6/2001	9.89[A]
2/7/2001	9.86[A]
2/8/2001	9.84[A]
2/9/2001	9.85[A]
2/10/2001	9.83[A]
2/11/2001	9.84[A]
2/12/2001	10.01[A]
2/13/2001	10.18[A]
2/14/2001	10.31[A]
2/15/2001	10.40[A]
2/16/2001	10.93[A]
2/17/2001	11.51[A]
2/18/2001	11.69[A]
2/19/2001	11.27[A]
2/20/2001	10.85[A]
2/21/2001	10.58[A]
2/22/2001	10.41[A]
2/23/2001	10.30[A]
2/24/2001	10.22[A]
2/25/2001	10.17[A]
2/26/2001	10.11[A]
2/27/2001	10.31[A]
2/28/2001	10.91[A]

Date	Gage height (ft)
3/1/2001	11.50[A]
3/2/2001	12.01[A]
3/3/2001	11.93[A]
3/4/2001	11.61[A]
3/5/2001	11.22[A]
3/6/2001	10.93[A]
3/7/2001	10.70[A]
3/8/2001	10.51[A]
3/9/2001	10.41[A]
3/10/2001	10.30[A]
3/11/2001	10.23[A]
3/12/2001	10.31[A]
3/13/2001	10.38[A]
3/14/2001	10.56[A]
3/15/2001	10.80[A]
3/16/2001	10.74[A]
3/17/2001	10.62[A]
3/18/2001	10.49[A]
3/19/2001	10.35[A]
3/20/2001	10.23[A]
3/21/2001	10.13[A]
3/22/2001	10.05[A]
3/23/2001	9.98[A]
3/24/2001	9.99[A]
3/25/2001	10.02[A]
3/26/2001	10.03[A]
3/27/2001	10.07[A]
3/28/2001	10.13[A]
3/29/2001	10.17[A]
3/30/2001	10.18[A]
3/31/2001	10.17[A]

Date	Gage height (ft)
4/1/2001	10.14[A]
4/2/2001	10.10[A]
4/3/2001	10.06[A]
4/4/2001	10.00[A]
4/5/2001	9.95[A]
4/6/2001	9.90[A]
4/7/2001	9.88[A]
4/8/2001	9.85[A]
4/9/2001	9.83[A]
4/10/2001	9.79[A]
4/11/2001	9.77[A]
4/12/2001	9.76[A]
4/13/2001	9.77[A]
4/14/2001	9.76[A]
4/15/2001	9.77[A]
4/16/2001	9.78[A]
4/17/2001	9.78[A]
4/18/2001	9.75[A]
4/19/2001	9.72[A]
4/20/2001	9.70[A]
4/21/2001	9.68[A]
4/22/2001	9.67[A]
4/23/2001	9.69[A]
4/24/2001	9.71[A]
4/25/2001	9.68[A]
4/26/2001	9.65[A]
4/27/2001	9.64[A]
4/28/2001	9.62[A]
4/29/2001	9.60[A]
4/30/2001	9.58[A]

Date	Gage height (ft)
5/1/2001	9.57[A]
5/2/2001	9.56[A]
5/3/2001	9.55[A]
5/4/2001	9.53[A]
5/5/2001	9.52[A]
5/6/2001	9.53[A]
5/7/2001	9.60[A]
5/8/2001	9.76[A]
5/9/2001	9.79[A]
5/10/2001	9.77[A]
5/11/2001	9.74[A]
5/12/2001	9.71[A]
5/13/2001	9.68[A]
5/14/2001	9.64[A]
5/15/2001	9.61[A]
5/16/2001	9.58[A]
5/17/2001	9.56[A]
5/18/2001	9.55[A]
5/19/2001	9.54[A]
5/20/2001	9.52[A]
5/21/2001	9.51[A]
5/22/2001	9.49[A]
5/23/2001	9.46[A]
5/24/2001	9.44[A]
5/25/2001	9.42[A]
5/26/2001	9.40[A]
5/27/2001	9.38[A]
5/28/2001	9.39[A]
5/29/2001	9.38[A]
5/30/2001	9.36[A]
5/31/2001	9.60[A]

Date	Gage height (ft)
6/1/2001	9.69[A]
6/2/2001	9.70[A]
6/3/2001	9.68[A]
6/4/2001	9.65[A]
6/5/2001	9.64[A]
6/6/2001	9.75[A]
6/7/2001	9.98[A]
6/8/2001	9.94[A]
6/9/2001	9.98[A]
6/10/2001	9.94[A]
6/11/2001	9.90[A]
6/12/2001	9.82[A]
6/13/2001	9.75[A]
6/14/2001	9.70[A]
6/15/2001	9.76[A]
6/16/2001	9.74[A]
6/17/2001	9.72[A]
6/18/2001	9.69[A]
6/19/2001	9.66[A]
6/20/2001	9.63[A]
6/21/2001	9.60[A]
6/22/2001	9.59[A]
6/23/2001	9.56[A]
6/24/2001	9.54[A]
6/25/2001	9.52[A]
6/26/2001	9.49[A]
6/27/2001	9.47[A]
6/28/2001	9.47[A]
6/29/2001	9.45[A]
6/30/2001	9.44[A]

Date	Gage height (ft)
7/1/2001	9.43[A]
7/2/2001	9.42[A]
7/3/2001	9.42[A]
7/4/2001	9.41[A]
7/5/2001	9.40[A]
7/6/2001	9.38[A]
7/7/2001	9.36[A]
7/8/2001	9.34[A]
7/9/2001	9.32[A]
7/10/2001	9.30[A]
7/11/2001	9.28[A]
7/12/2001	9.26[A]
7/13/2001	9.23[A]
7/14/2001	9.21[A]
7/15/2001	9.19[A]
7/16/2001	9.17[A]
7/17/2001	9.15[A]
7/18/2001	9.13[A]
7/19/2001	9.11[A]
7/20/2001	9.09[A]
7/21/2001	9.08[A]
7/22/2001	9.06[A]
7/23/2001	9.05[A]
7/24/2001	9.04[A]
7/25/2001	9.04[A]
7/26/2001	9.03[A]
7/27/2001	9.01[A]
7/28/2001	9.00[A]
7/29/2001	8.98[A]
7/30/2001	8.96[A]
7/31/2001	8.94[A]

Date	Gage height (ft)
8/1/2001	8.93[A]
8/2/2001	8.92[A]
8/3/2001	8.90[A]
8/4/2001	8.88[A]
8/5/2001	8.87[A]
8/6/2001	8.84[A]
8/7/2001	8.82[A]
8/8/2001	8.79[A]
8/9/2001	8.77[A]
8/10/2001	8.74[A]
8/11/2001	8.73[A]
8/12/2001	8.73[A]
8/13/2001	8.78[A]
8/14/2001	8.78[A]
8/15/2001	8.76[A]
8/16/2001	8.74[A]
8/17/2001	8.82[A]
8/18/2001	8.94[A]
8/19/2001	8.96[A]
8/20/2001	8.95[A]
8/21/2001	8.93[A]
8/22/2001	8.91[A]
8/23/2001	8.89[A]
8/24/2001	8.87[A]
8/25/2001	8.85[A]
8/26/2001	8.83[A]
8/27/2001	8.83[A]
8/28/2001	8.87[A]
8/29/2001	8.86[A]
8/30/2001	8.85[A]
8/31/2001	8.89[A]

Date	Gage height (ft)
9/1/2001	9.03[A]
9/2/2001	9.09[A]
9/3/2001	9.09[A]
9/4/2001	9.09[A]
9/5/2001	9.09[A]
9/6/2001	9.08[A]
9/7/2001	9.09[A]
9/8/2001	9.09[A]
9/9/2001	9.15[A]
9/10/2001	9.17[A]
9/11/2001	9.16[A]
9/12/2001	9.15[A]
9/13/2001	9.14[A]
9/14/2001	9.13[A]
9/15/2001	9.12[A]
9/16/2001	9.10[A]
9/17/2001	9.08[A]
9/18/2001	9.06[A]
9/19/2001	9.08[A]
9/20/2001	9.07[A]
9/21/2001	9.08[A]
9/22/2001	9.08[A]
9/23/2001	9.08[A]
9/24/2001	9.10[A]
9/25/2001	9.08[A]
9/26/2001	9.06[A]
9/27/2001	9.05[A]
9/28/2001	9.03[A]
9/29/2001	9.02[A]
9/30/2001	9.00[A]

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October 1999- September 2000

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/1999	7.54[A]
10/2/1999	7.34[A]
10/3/1999	7.13[A]
10/4/1999	6.94[A]
10/5/1999	6.72[A]
10/6/1999	6.50[A]
10/7/1999	6.31[A]
10/8/1999	6.14[A]
10/9/1999	5.90[A]
10/10/1999	5.61[A]
10/11/1999	5.31[A]
10/12/1999	5.01[A]
10/13/1999	4.70[A]
10/14/1999	4.39[A]
10/15/1999	4.09[A]
10/16/1999	4.02[A]
10/17/1999	4.02[A]
10/18/1999	4.00[A]
10/19/1999	3.99[A]
10/20/1999	3.97[A]
10/21/1999	3.96[A]
10/22/1999	3.95[A]
10/23/1999	3.95[A]
10/24/1999	3.93[A]
10/25/1999	3.91[A]
10/26/1999	3.90[A]
10/27/1999	3.89[A]
10/28/1999	3.89[A]
10/29/1999	3.88[A]
10/30/1999	3.91[A]
10/31/1999	4.01[A]

Date	Gage height (ft)
11/1/1999	4.03[A]
11/2/1999	4.00[A]
11/3/1999	3.72[A]
11/4/1999	3.65[A]
11/5/1999	3.65[A]
11/6/1999	3.65[A]
11/7/1999	3.65[A]
11/8/1999	3.65[A]
11/9/1999	3.60[A]
11/10/1999	3.29[A]
11/11/1999	2.95[A]
11/12/1999	2.84[A]
11/13/1999	2.83[A]
11/14/1999	2.83[A]
11/15/1999	2.83[A]
11/16/1999	2.81[A]
11/17/1999	2.81[A]
11/18/1999	2.79[A]
11/19/1999	2.79[A]
11/20/1999	2.83[A]
11/21/1999	2.81[A]
11/22/1999	2.81[A]
11/23/1999	2.81[A]
11/24/1999	2.81[A]
11/25/1999	2.81[A]
11/26/1999	2.79[A]
11/27/1999	2.78[A]
11/28/1999	2.78[A]
11/29/1999	2.79[A]
11/30/1999	2.77[A]

Date	Gage height (ft)
12/1/1999	2.75[A]
12/2/1999	2.73[A]
12/3/1999	2.83[A]
12/4/1999	2.87[A]
12/5/1999	3.00[A]
12/6/1999	2.99[A]
12/7/1999	2.98[A]
12/8/1999	2.97[A]
12/9/1999	2.99[A]
12/10/1999	3.02[A]
12/11/1999	3.02[A]
12/12/1999	3.13[A]
12/13/1999	3.21[A]
12/14/1999	3.22[A]
12/15/1999	3.25[A]
12/16/1999	3.25[A]
12/17/1999	3.26[A]
12/18/1999	3.30[A]
12/19/1999	3.30[A]
12/20/1999	3.32[A]
12/21/1999	3.32[A]
12/22/1999	3.30[A]
12/23/1999	3.30[A]
12/24/1999	3.30[A]
12/25/1999	3.30[A]
12/26/1999	3.30[A]
12/27/1999	3.30[A]
12/28/1999	3.29[A]
12/29/1999	3.29[A]
12/30/1999	3.28[A]
12/31/1999	3.29[A]

Date	Gage height (ft)
1/1/2000	3.28[A]
1/2/2000	3.28[A]
1/3/2000	3.29[A]
1/4/2000	3.29[A]
1/5/2000	3.27[A]
1/6/2000	3.27[A]
1/7/2000	3.27[A]
1/8/2000	3.38[A]
1/9/2000	[P]
1/10/2000	3.44[A]
1/11/2000	3.47[A]
1/12/2000	3.47[A]
1/13/2000	3.51[A]
1/14/2000	3.49[A]
1/15/2000	3.48[A]
1/16/2000	3.49[A]
1/17/2000	3.49[A]
1/18/2000	3.50[A]
1/19/2000	3.50[A]
1/20/2000	3.51[A]
1/21/2000	3.47[A]
1/22/2000	3.46[A]
1/23/2000	3.48[A]
1/24/2000	3.47[A]
1/25/2000	3.47[A]
1/26/2000	3.44[A]
1/27/2000	[P]
1/28/2000	3.65[A]
1/29/2000	3.66[A]
1/30/2000	3.68[A]
1/31/2000	3.71[A]

Date	Gage height (ft)
2/1/2000	3.74[A]
2/2/2000	3.76[A]
2/3/2000	3.78[A]
2/4/2000	3.81[A]
2/5/2000	3.80[A]
2/6/2000	3.80[A]
2/7/2000	3.82[A]
2/8/2000	3.83[A]
2/9/2000	3.83[A]
2/10/2000	3.84[A]
2/11/2000	3.87[A]
2/12/2000	3.87[A]
2/13/2000	3.86[A]
2/14/2000	3.87[A]
2/15/2000	3.86[A]
2/16/2000	3.88[A]
2/17/2000	3.87[A]
2/18/2000	3.91[A]
2/19/2000	3.95[A]
2/20/2000	3.94[A]
2/21/2000	3.93[A]
2/22/2000	3.92[A]
2/23/2000	3.92[A]
2/24/2000	3.93[A]
2/25/2000	3.92[A]
2/26/2000	4.07[A]
2/27/2000	4.22[A]
2/28/2000	4.35[A]
2/29/2000	4.47[A]

Date	Gage height (ft)
3/1/2000	4.56[A]
3/2/2000	4.58[A]
3/3/2000	4.62[A]
3/4/2000	4.62[A]
3/5/2000	4.63[A]
3/6/2000	4.64[A]
3/7/2000	4.65[A]
3/8/2000	4.67[A]
3/9/2000	4.69[A]
3/10/2000	4.73[A]
3/11/2000	4.84[A]
3/12/2000	4.89[A]
3/13/2000	4.98[A]
3/14/2000	5.04[A]
3/15/2000	5.24[A]
3/16/2000	5.91[A]
3/17/2000	6.36[A]
3/18/2000	6.84[A]
3/19/2000	7.39[A]
3/20/2000	7.67[A]
3/21/2000	7.87[A]
3/22/2000	8.03[A]
3/23/2000	8.14[A]
3/24/2000	8.22[A]
3/25/2000	8.30[A]
3/26/2000	8.39[A]
3/27/2000	8.58[A]
3/28/2000	8.77[A]
3/29/2000	9.13[A]
3/30/2000	9.46[A]
3/31/2000	9.76[A]

Date	Gage height (ft)
4/1/2000	10.01[A]
4/2/2000	10.22[A]
4/3/2000	10.32[A]
4/4/2000	10.31[A]
4/5/2000	10.28[A]
4/6/2000	10.26[A]
4/7/2000	10.20[A]
4/8/2000	10.14[A]
4/9/2000	10.00[A]
4/10/2000	9.91[A]
4/11/2000	9.87[A]
4/12/2000	9.97[A]
4/13/2000	10.02[A]
4/14/2000	10.05[A]
4/15/2000	10.03[A]
4/16/2000	9.98[A]
4/17/2000	9.92[A]
4/18/2000	9.86[A]
4/19/2000	9.79[A]
4/20/2000	9.77[A]
4/21/2000	9.72[A]
4/22/2000	9.67[A]
4/23/2000	9.64[A]
4/24/2000	9.74[A]
4/25/2000	9.78[A]
4/26/2000	9.83[A]
4/27/2000	9.85[A]
4/28/2000	9.84[A]
4/29/2000	9.81[A]
4/30/2000	9.78[A]

Date	Gage height (ft)
5/1/2000	9.76[A]
5/2/2000	9.76[A]
5/3/2000	9.74[A]
5/4/2000	9.93[A]
5/5/2000	10.17[A]
5/6/2000	10.25[A]
5/7/2000	10.33[A]
5/8/2000	10.36[A]
5/9/2000	10.31[A]
5/10/2000	10.22[A]
5/11/2000	10.09[A]
5/12/2000	9.99[A]
5/13/2000	9.96[A]
5/14/2000	9.89[A]
5/15/2000	9.85[A]
5/16/2000	9.84[A]
5/17/2000	9.80[A]
5/18/2000	9.76[A]
5/19/2000	9.91[A]
5/20/2000	10.20[A]
5/21/2000	10.22[A]
5/22/2000	10.21[A]
5/23/2000	10.19[A]
5/24/2000	10.15[A]
5/25/2000	10.05[A]
5/26/2000	9.93[A]
5/27/2000	9.86[A]
5/28/2000	9.89[A]
5/29/2000	9.85[A]
5/30/2000	9.82[A]
5/31/2000	9.78[A]

Date	Gage height (ft)
6/1/2000	9.73[A]
6/2/2000	9.69[A]
6/3/2000	9.67[A]
6/4/2000	9.64[A]
6/5/2000	9.74[A]
6/6/2000	9.72[A]
6/7/2000	9.69[A]
6/8/2000	9.67[A]
6/9/2000	9.65[A]
6/10/2000	9.68[A]
6/11/2000	9.67[A]
6/12/2000	9.68[A]
6/13/2000	9.66[A]
6/14/2000	9.64[A]
6/15/2000	9.62[A]
6/16/2000	9.60[A]
6/17/2000	9.61[A]
6/18/2000	9.63[A]
6/19/2000	9.61[A]
6/20/2000	9.61[A]
6/21/2000	9.64[A]
6/22/2000	9.71[A]
6/23/2000	9.72[A]
6/24/2000	9.70[A]
6/25/2000	9.68[A]
6/26/2000	9.65[A]
6/27/2000	9.63[A]
6/28/2000	9.62[A]
6/29/2000	9.66[A]
6/30/2000	9.66[A]

Date	Gage height (ft)
7/1/2000	9.68[A]
7/2/2000	9.68[A]
7/3/2000	9.66[A]
7/4/2000	9.64[A]
7/5/2000	9.62[A]
7/6/2000	9.60[A]
7/7/2000	9.59[A]
7/8/2000	9.57[A]
7/9/2000	9.54[A]
7/10/2000	9.51[A]
7/11/2000	9.48[A]
7/12/2000	9.46[A]
7/13/2000	9.44[A]
7/14/2000	9.43[A]
7/15/2000	9.41[A]
7/16/2000	9.38[A]
7/17/2000	9.36[A]
7/18/2000	9.34[A]
7/19/2000	9.31[A]
7/20/2000	9.29[A]
7/21/2000	9.27[A]
7/22/2000	9.24[A]
7/23/2000	9.21[A]
7/24/2000	9.18[A]
7/25/2000	9.14[A]
7/26/2000	9.11[A]
7/27/2000	9.09[A]
7/28/2000	9.07[A]
7/29/2000	9.04[A]
7/30/2000	9.04[A]
7/31/2000	9.03[A]

Date	Gage height (ft)
8/1/2000	9.01[A]
8/2/2000	8.98[A]
8/3/2000	8.96[A]
8/4/2000	8.94[A]
8/5/2000	8.92[A]
8/6/2000	8.89[A]
8/7/2000	8.86[A]
8/8/2000	8.83[A]
8/9/2000	8.81[A]
8/10/2000	8.80[A]
8/11/2000	8.78[A]
8/12/2000	8.77[A]
8/13/2000	8.74[A]
8/14/2000	8.71[A]
8/15/2000	8.69[A]
8/16/2000	8.67[A]
8/17/2000	8.64[A]
8/18/2000	8.62[A]
8/19/2000	8.59[A]
8/20/2000	8.57[A]
8/21/2000	8.55[A]
8/22/2000	8.56[A]
8/23/2000	8.54[A]
8/24/2000	8.52[A]
8/25/2000	8.50[A]
8/26/2000	8.48[A]
8/27/2000	8.45[A]
8/28/2000	8.43[A]
8/29/2000	8.41[A]
8/30/2000	8.39[A]
8/31/2000	8.37[A]

Date	Gage height (ft)
9/1/2000	8.35[A]
9/2/2000	8.33[A]
9/3/2000	8.31[A]
9/4/2000	8.29[A]
9/5/2000	8.26[A]
9/6/2000	8.22[A]
9/7/2000	8.19[A]
9/8/2000	8.16[A]
9/9/2000	8.15[A]
9/10/2000	8.13[A]
9/11/2000	8.12[A]
9/12/2000	8.12[A]
9/13/2000	8.12[A]
9/14/2000	8.11[A]
9/15/2000	8.09[A]
9/16/2000	8.05[A]
9/17/2000	8.02[A]
9/18/2000	8.00[A]
9/19/2000	7.97[A]
9/20/2000	7.96[A]
9/21/2000	7.97[A]
9/22/2000	7.96[A]
9/23/2000	7.94[A]
9/24/2000	8.03[A]
9/25/2000	8.21[A]
9/26/2000	8.15[A]
9/27/2000	8.13[A]
9/28/2000	8.12[A]
9/29/2000	8.10[A]
9/30/2000	8.08[A]

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October 1998- September 1999

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/1998	8.19[A]
10/2/1998	8.17[A]
10/3/1998	8.21[A]
10/4/1998	8.23[A]
10/5/1998	8.20[A]
10/6/1998	8.28[A]
10/7/1998	8.30[A]
10/8/1998	8.30[A]
10/9/1998	8.32[A]
10/10/1998	8.33[A]
10/11/1998	8.33[A]
10/12/1998	8.33[A]
10/13/1998	8.32[A]
10/14/1998	8.31[A]
10/15/1998	8.30[A]
10/16/1998	8.31[A]
10/17/1998	8.33[A]
10/18/1998	8.37[A]
10/19/1998	8.41[A]
10/20/1998	8.44[A]
10/21/1998	8.50[A]
10/22/1998	8.51[A]
10/23/1998	8.51[A]
10/24/1998	8.51[A]
10/25/1998	8.52[A]
10/26/1998	8.52[A]
10/27/1998	8.52[A]
10/28/1998	8.51[A]
10/29/1998	8.51[A]
10/30/1998	8.51[A]
10/31/1998	8.51[A]

Date	Gage height (ft)
11/1/1998	8.52[A]
11/2/1998	8.55[A]
11/3/1998	8.54[A]
11/4/1998	8.54[A]
11/5/1998	8.53[A]
11/6/1998	8.52[A]
11/7/1998	8.52[A]
11/8/1998	8.55[A]
11/9/1998	8.54[A]
11/10/1998	8.57[A]
11/11/1998	8.57[A]
11/12/1998	8.63[A]
11/13/1998	8.84[A]
11/14/1998	9.04[A]
11/15/1998	9.25[A]
11/16/1998	9.44[A]
11/17/1998	9.58[A]
11/18/1998	9.64[A]
11/19/1998	9.66[A]
11/20/1998	9.71[A]
11/21/1998	9.69[A]
11/22/1998	9.68[A]
11/23/1998	9.67[A]
11/24/1998	9.66[A]
11/25/1998	9.65[A]
11/26/1998	9.64[A]
11/27/1998	9.62[A]
11/28/1998	9.61[A]
11/29/1998	9.60[A]
11/30/1998	9.64[A]

Date	Gage height (ft)
12/1/1998	9.65[A]
12/2/1998	9.64[A]
12/3/1998	9.65[A]
12/4/1998	9.65[A]
12/5/1998	9.65[A]
12/6/1998	9.63[A]
12/7/1998	9.68[A]
12/8/1998	9.77[A]
12/9/1998	9.82[A]
12/10/1998	10.05[A]
12/11/1998	10.26[A]
12/12/1998	10.36[A]
12/13/1998	10.39[A]
12/14/1998	10.38[A]
12/15/1998	10.32[A]
12/16/1998	10.22[A]
12/17/1998	10.12[A]
12/18/1998	10.01[A]
12/19/1998	10.03[A]
12/20/1998	10.01[A]
12/21/1998	10.03[A]
12/22/1998	10.19[A]
12/23/1998	10.21[A]
12/24/1998	10.21[A]
12/25/1998	10.15[A]
12/26/1998	10.10[A]
12/27/1998	10.06[A]
12/28/1998	10.02[A]
12/29/1998	9.99[A]
12/30/1998	9.94[A]
12/31/1998	9.90[A]

Date	Gage height (ft)
1/1/1999	9.93[A]
1/2/1999	10.51[A]
1/3/1999	10.61[A]
1/4/1999	10.65[A]
1/5/1999	10.57[A]
1/6/1999	10.44[A]
1/7/1999	10.31[A]
1/8/1999	10.19[A]
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1/12/1999	9.89[A]
1/13/1999	9.87[A]
1/14/1999	9.83[A]
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1/27/1999	9.89[A]
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1/29/1999	10.89[A]
1/30/1999	11.72[A]
1/31/1999	11.97[A]

Date	Gage height (ft)
2/1/1999	11.67[A]
2/2/1999	11.15[A]
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2/19/1999	9.71[A]
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2/22/1999	9.67[A]
2/23/1999	9.67[A]
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2/25/1999	9.65[A]
2/26/1999	9.65[A]
2/27/1999	9.66[A]
2/28/1999	9.66[A]

Date	Gage height (ft)
3/1/1999	9.65[A]
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3/3/1999	9.65[A]
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3/18/1999	10.36[A]
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3/21/1999	10.02[A]
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3/25/1999	9.88[A]
3/26/1999	9.85[A]
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3/28/1999	9.84[A]
3/29/1999	9.85[A]
3/30/1999	9.84[A]
3/31/1999	9.84[A]

Date	Gage height (ft)
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4/30/1999	9.62[A]

Date	Gage height (ft)
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6/4/1999	9.64[A]
6/5/1999	9.61[A]
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Date	Gage height (ft)
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Date	Gage height (ft)
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8/5/1999	9.11[A]
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8/31/1999	8.50[A]

Date	Gage height (ft)
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9/6/1999	8.44[A]
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9/29/1999	7.97[A]
9/30/1999	7.75[A]

Preview Only

October 1997- September 1998

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
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10/2/1997	8.54[A]
10/3/1997	8.53[A]
10/4/1997	8.51[A]
10/5/1997	8.50[A]
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10/9/1997	8.46[A]
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10/15/1997	8.57[A]
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10/23/1997	8.64[A]
10/24/1997	8.95[A]
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10/27/1997	9.11[A]
10/28/1997	9.11[A]
10/29/1997	9.12[A]
10/30/1997	9.13[A]
10/31/1997	9.14[A]

Date	Gage height (ft)
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11/3/1997	9.11[A]
11/4/1997	9.09[A]
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11/23/1997	9.57[A]
11/24/1997	9.56[A]
11/25/1997	9.55[A]
11/26/1997	9.55[A]
11/27/1997	9.54[A]
11/28/1997	9.57[A]
11/29/1997	9.63[A]
11/30/1997	9.63[A]

Date	Gage height (ft)
12/1/1997	9.64[A]
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12/4/1997	9.68[A]
12/5/1997	9.69[A]
12/6/1997	9.68[A]
12/7/1997	9.68[A]
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12/9/1997	9.76[A]
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12/11/1997	9.77[A]
12/12/1997	9.74[A]
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12/18/1997	9.63[A]
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12/21/1997	9.84[A]
12/22/1997	9.91[A]
12/23/1997	10.02[A]
12/24/1997	10.35[A]
12/25/1997	10.34[A]
12/26/1997	10.32[A]
12/27/1997	10.28[A]
12/28/1997	10.20[A]
12/29/1997	10.12[A]
12/30/1997	10.01[A]
12/31/1997	9.93[A]

Date	Gage height (ft)
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1/5/1998	9.77[A]
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1/12/1998	10.39[A]
1/13/1998	10.34[A]
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1/24/1998	10.17[A]
1/25/1998	10.17[A]
1/26/1998	10.16[A]
1/27/1998	10.12[A]
1/28/1998	10.07[A]
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1/30/1998	10.02[A]
1/31/1998	9.96[A]

Date	Gage height (ft)
2/1/1998	9.96[A]
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2/4/1998	9.94[A]
2/5/1998	9.90[A]
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2/24/1998	10.08[A]
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Date	Gage height (ft)
3/1/1998	10.48[A]
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Date	Gage height (ft)
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Date	Gage height (ft)
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Date	Gage height (ft)
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6/30/1998	8.62[A]

Date	Gage height (ft)
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7/24/1998	8.13[A]
7/25/1998	8.10[A]
7/26/1998	8.07[A]
7/27/1998	8.05[A]
7/28/1998	8.03[A]
7/29/1998	7.99[A]
7/30/1998	7.97[A]
7/31/1998	7.95[A]

Date	Gage height (ft)
8/1/1998	7.92[A]
8/2/1998	7.90[A]
8/3/1998	7.87[A]
8/4/1998	7.86[A]
8/5/1998	7.88[A]
8/6/1998	8.00[A]
8/7/1998	8.04[A]
8/8/1998	8.04[A]
8/9/1998	8.02[A]
8/10/1998	8.00[A]
8/11/1998	7.98[A]
8/12/1998	7.99[A]
8/13/1998	8.03[A]
8/14/1998	8.04[A]
8/15/1998	8.03[A]
8/16/1998	8.02[A]
8/17/1998	8.00[A]
8/18/1998	7.98[A]
8/19/1998	7.97[A]
8/20/1998	7.95[A]
8/21/1998	7.93[A]
8/22/1998	7.93[A]
8/23/1998	7.90[A]
8/24/1998	7.88[A]
8/25/1998	7.86[A]
8/26/1998	7.84[A]
8/27/1998	7.82[A]
8/28/1998	7.80[A]
8/29/1998	7.77[A]
8/30/1998	7.74[A]
8/31/1998	7.71[A]

Date	Gage height (ft)
9/1/1998	7.69[A]
9/2/1998	7.67[A]
9/3/1998	7.64[A]
9/4/1998	7.61[A]
9/5/1998	7.58[A]
9/6/1998	7.56[A]
9/7/1998	7.54[A]
9/8/1998	7.52[A]
9/9/1998	7.50[A]
9/10/1998	7.45[A]
9/11/1998	7.49[A]
9/12/1998	7.82[A]
9/13/1998	7.98[A]
9/14/1998	8.01[A]
9/15/1998	8.12[A]
9/16/1998	8.21[A]
9/17/1998	8.26[A]
9/18/1998	8.29[A]
9/19/1998	8.30[A]
9/20/1998	8.31[A]
9/21/1998	8.31[A]
9/22/1998	8.31[A]
9/23/1998	8.30[A]
9/24/1998	8.28[A]
9/25/1998	8.26[A]
9/26/1998	8.25[A]
9/27/1998	8.25[A]
9/28/1998	8.24[A]
9/29/1998	8.22[A]
9/30/1998	8.20[A]

Preview Only

October 1996- September 1997

Cypress Bayou Lake (USGS Gage #########)
Latitude 32°39'07", Longitude 93°40'11" NAD27
Bossier Parish, Louisiana, Hydrologic Unit 11140204
Datum of gage: 170.00 feet above NGVD29. Spillway crest elevation is 179.6 ft

Date	Gage height (ft)
10/1/1996	9.81[A]
10/2/1996	9.76[A]
10/3/1996	9.72[A]
10/4/1996	9.67[A]
10/5/1996	9.64[A]
10/6/1996	9.62[A]
10/7/1996	9.60[A]
10/8/1996	9.58[A]
10/9/1996	9.56[A]
10/10/1996	9.56[A]
10/11/1996	P
10/12/1996	P
10/13/1996	P
10/14/1996	P
10/15/1996	P
10/16/1996	P
10/17/1996	P
10/18/1996	P
10/19/1996	P
10/20/1996	P
10/21/1996	P
10/22/1996	P
10/23/1996	P
10/24/1996	P
10/25/1996	P
10/26/1996	P
10/27/1996	P
10/28/1996	P
10/29/1996	P
10/30/1996	P
10/31/1996	P

Date	Gage height (ft)
11/1/1996	P
11/2/1996	P
11/3/1996	P
11/4/1996	P
11/5/1996	P
11/6/1996	P
11/7/1996	P
11/8/1996	P
11/9/1996	P
11/10/1996	P
11/11/1996	P
11/12/1996	P
11/13/1996	P
11/14/1996	P
11/15/1996	P
11/16/1996	P
11/17/1996	P
11/18/1996	P
11/19/1996	P
11/20/1996	P
11/21/1996	P
11/22/1996	P
11/23/1996	P
11/24/1996	P
11/25/1996	P
11/26/1996	P
11/27/1996	P
11/28/1996	P
11/29/1996	P
11/30/1996	P

Date	Gage height (ft)
12/1/1996	P
12/2/1996	P
12/3/1996	P
12/4/1996	P
12/5/1996	P
12/6/1996	P
12/7/1996	P
12/8/1996	P
12/9/1996	P
12/10/1996	P
12/11/1996	P
12/12/1996	P
12/13/1996	P
12/14/1996	P
12/15/1996	P
12/16/1996	P
12/17/1996	P
12/18/1996	P
12/19/1996	P
12/20/1996	P
12/21/1996	P
12/22/1996	P
12/23/1996	P
12/24/1996	P
12/25/1996	P
12/26/1996	P
12/27/1996	P
12/28/1996	P
12/29/1996	P
12/30/1996	P
12/31/1996	P

Date	Gage height (ft)
1/1/1997	P
1/2/1997	P
1/3/1997	P
1/4/1997	P
1/5/1997	P
1/6/1997	P
1/7/1997	P
1/8/1997	P
1/9/1997	P
1/10/1997	P
1/11/1997	P
1/12/1997	P
1/13/1997	P
1/14/1997	P
1/15/1997	P
1/16/1997	P
1/17/1997	P
1/18/1997	P
1/19/1997	P
1/20/1997	P
1/21/1997	P
1/22/1997	P
1/23/1997	P
1/24/1997	P
1/25/1997	P
1/26/1997	P
1/27/1997	P
1/28/1997	P
1/29/1997	P
1/30/1997	P
1/31/1997	P

Date	Gage height (ft)
2/1/1997	P
2/2/1997	P
2/3/1997	P
2/4/1997	P
2/5/1997	P
2/6/1997	P
2/7/1997	P
2/8/1997	P
2/9/1997	P
2/10/1997	P
2/11/1997	P
2/12/1997	P
2/13/1997	P
2/14/1997	P
2/15/1997	P
2/16/1997	P
2/17/1997	P
2/18/1997	P
2/19/1997	P
2/20/1997	P
2/21/1997	P
2/22/1997	P
2/23/1997	P
2/24/1997	P
2/25/1997	P
2/26/1997	P
2/27/1997	P
2/28/1997	P

Date	Gage height (ft)
3/1/1997	P
3/2/1997	P
3/3/1997	P
3/4/1997	P
3/5/1997	P
3/6/1997	P
3/7/1997	P
3/8/1997	P
3/9/1997	P
3/10/1997	P
3/11/1997	P
3/12/1997	P
3/13/1997	P
3/14/1997	P
3/15/1997	P
3/16/1997	P
3/17/1997	P
3/18/1997	P
3/19/1997	P
3/20/1997	P
3/21/1997	P
3/22/1997	P
3/23/1997	P
3/24/1997	P
3/25/1997	P
3/26/1997	P
3/27/1997	P
3/28/1997	P
3/29/1997	P
3/30/1997	P
3/31/1997	P

Date	Gage height (ft)
4/1/1997	P
4/2/1997	P
4/3/1997	P
4/4/1997	P
4/5/1997	P
4/6/1997	P
4/7/1997	P
4/8/1997	P
4/9/1997	P
4/10/1997	P
4/11/1997	P
4/12/1997	P
4/13/1997	P
4/14/1997	P
4/15/1997	P
4/16/1997	P
4/17/1997	P
4/18/1997	P
4/19/1997	P
4/20/1997	P
4/21/1997	P
4/22/1997	P
4/23/1997	P
4/24/1997	P
4/25/1997	P
4/26/1997	P
4/27/1997	P
4/28/1997	P
4/29/1997	P
4/30/1997	P

Date	Gage height (ft)
5/1/1997	P
5/2/1997	P
5/3/1997	P
5/4/1997	P
5/5/1997	P
5/6/1997	P
5/7/1997	P
5/8/1997	P
5/9/1997	P
5/10/1997	P
5/11/1997	P
5/12/1997	P
5/13/1997	P
5/14/1997	P
5/15/1997	P
5/16/1997	P
5/17/1997	P
5/18/1997	P
5/19/1997	P
5/20/1997	P
5/21/1997	P
5/22/1997	P
5/23/1997	P
5/24/1997	P
5/25/1997	P
5/26/1997	P
5/27/1997	P
5/28/1997	P
5/29/1997	P
5/30/1997	P
5/31/1997	P

Date	Gage height (ft)
6/1/1997	P
6/2/1997	P
6/3/1997	P
6/4/1997	P
6/5/1997	P
6/6/1997	P
6/7/1997	P
6/8/1997	P
6/9/1997	P
6/10/1997	P
6/11/1997	P
6/12/1997	P
6/13/1997	P
6/14/1997	P
6/15/1997	P
6/16/1997	P
6/17/1997	P
6/18/1997	P
6/19/1997	P
6/20/1997	P
6/21/1997	P
6/22/1997	P
6/23/1997	P
6/24/1997	P
6/25/1997	P
6/26/1997	P
6/27/1997	P
6/28/1997	P
6/29/1997	P
6/30/1997	P

Date	Gage height (ft)
7/1/1997	9.57[A]
7/2/1997	9.56[A]
7/3/1997	9.54[A]
7/4/1997	9.51[A]
7/5/1997	9.49[A]
7/6/1997	9.48[A]
7/7/1997	9.56[A]
7/8/1997	9.58[A]
7/9/1997	9.57[A]
7/10/1997	9.56[A]
7/11/1997	9.55[A]
7/12/1997	9.53[A]
7/13/1997	9.51[A]
7/14/1997	9.49[A]
7/15/1997	9.48[A]
7/16/1997	9.47[A]
7/17/1997	9.45[A]
7/18/1997	9.43[A]
7/19/1997	9.41[A]
7/20/1997	9.39[A]
7/21/1997	9.36[A]
7/22/1997	9.34[A]
7/23/1997	9.32[A]
7/24/1997	9.29[A]
7/25/1997	9.28[A]
7/26/1997	9.26[A]
7/27/1997	9.24[A]
7/28/1997	9.22[A]
7/29/1997	9.20[A]
7/30/1997	9.18[A]
7/31/1997	9.15[A]

Date	Gage height (ft)
8/1/1997	9.13[A]
8/2/1997	9.10[A]
8/3/1997	9.08[A]
8/4/1997	9.06[A]
8/5/1997	9.04[A]
8/6/1997	9.02[A]
8/7/1997	9.00[A]
8/8/1997	9.05[A]
8/9/1997	9.12[A]
8/10/1997	9.12[A]
8/11/1997	9.11[A]
8/12/1997	9.10[A]
8/13/1997	9.09[A]
8/14/1997	9.08[A]
8/15/1997	9.05[A]
8/16/1997	9.03[A]
8/17/1997	9.03[A]
8/18/1997	9.02[A]
8/19/1997	9.00[A]
8/20/1997	8.98[A]
8/21/1997	8.98[A]
8/22/1997	9.00[A]
8/23/1997	9.04[A]
8/24/1997	9.02[A]
8/25/1997	9.01[A]
8/26/1997	8.99[A]
8/27/1997	8.97[A]
8/28/1997	8.95[A]
8/29/1997	8.94[A]
8/30/1997	8.92[A]
8/31/1997	8.91[A]

Date	Gage height (ft)
9/1/1997	8.89[A]
9/2/1997	8.89[A]
9/3/1997	8.89[A]
9/4/1997	8.87[A]
9/5/1997	8.84[A]
9/6/1997	8.82[A]
9/7/1997	8.79[A]
9/8/1997	8.78[A]
9/9/1997	8.77[A]
9/10/1997	8.77[A]
9/11/1997	8.74[A]
9/12/1997	8.71[A]
9/13/1997	8.69[A]
9/14/1997	8.68[A]
9/15/1997	8.66[A]
9/16/1997	8.64[A]
9/17/1997	8.63[A]
9/18/1997	8.61[A]
9/19/1997	8.60[A]
9/20/1997	8.59[A]
9/21/1997	8.58[A]
9/22/1997	8.56[A]
9/23/1997	8.60[A]
9/24/1997	8.65[A]
9/25/1997	8.64[A]
9/26/1997	8.62[A]
9/27/1997	8.61[A]
9/28/1997	8.60[A]
9/29/1997	8.58[A]
9/30/1997	8.57[A]

Preview Only

APPENDIX H

Preview Only

Water-Data Report 2011

07349500 Bodcau Bayou near Sarepta, LA

Red-Saline Basin
Bodcau Bayou Subbasin

LOCATION.--Lat 32°54′18″, long 93°28′58″ referenced to North American Datum of 1927, in NE ¼ sec.15, T.22 N., R.11 W., Webster Parish, LA, Hydrologic Unit 11140205, on left bank on downstream side of bridge on State Highway 2, 2.1 mi northwest of Sarepta, and 9.5 mi upstream from Caney Creek.

DRAINAGE AREA.--546.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to September 1992 daily gage heights and discharges. October 1992 to current, gage heights and maximum peak discharge.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1939-1992), 598 ft^3/s, 433,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s, May 2, 1958, gage height, 25.14 ft; maximum gage height, 26.77 ft, Nov. 4, 2009; minimum, 0.1 ft^3/s at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft, Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft and flood of 1905 may have reached a stage of 27 ft from information by local residents.

REVISIONS.--The maximum discharges which were omitted for some water years are shown in the following table. Maximum gage heights for those years were not revised.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 1,280 ft^3/s, gage height, 12.46 ft, May 7; minimum gage height, 1.83 ft, Aug. 10, 11, 12.

Preview Only

07349500 Bodcau Bayou near Sarepta, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.02	2.57	5.09	2.75	3.39	3.14	2.43	4.62	6.12	2.00	1.95	2.02
2	2.02	3.05	4.18	2.66	4.16	3.11	2.43	5.19	6.07	2.01	1.94	2.04
3	2.02	3.80	3.38	2.52	4.89	3.09	2.42	7.24	5.90	2.06	1.94	2.04
4	2.01	3.79	3.01	2.54	4.56	2.97	2.53	9.19	4.85	2.04	1.93	2.06
5	2.02	3.34	2.81	2.61	4.17	2.92	2.83	10.93	4.12	1.99	1.91	2.06
6	2.05	2.81	2.68	2.65	4.04	2.89	2.83	12.04	3.66	1.99	1.88	2.05
7	2.07	2.48	2.59	2.66	4.14	2.86	2.69	12.43	2.84	2.08	1.85	2.04
8	2.09	2.32	2.53	2.62	4.32	2.88	2.59	12.34	2.40	2.07	1.85	2.04
9	2.11	2.30	2.54	2.61	4.23	3.12	2.51	11.97	2.21	2.03	1.85	2.04
10	2.15	2.32	2.57	2.75	4.00	3.33	2.45	11.53	2.11	1.99	1.84	2.06
11	2.21	2.37	2.58	2.83	3.81	3.18	2.41	11.13	2.04	1.96	1.83	2.05
12	2.29	2.43	2.56	2.83	3.66	2.99	2.42	10.90	2.01	1.94	1.85	2.04
13	2.31	2.50	2.48	2.77	3.53	2.88	2.40	10.50	2.00	1.92	1.88	2.04
14	2.36	2.51	2.48	2.71	3.38	2.83	2.36	9.95	1.99	1.91	1.90	2.04
15	2.36	2.58	2.49	2.73	3.24	2.78	2.45	9.29	1.99	1.93	1.92	2.06
16	2.37	2.72	2.52	4.08	3.13	2.71	2.53	8.48	1.99	1.95	1.93	2.09
17	2.40	2.72	2.55	7.23	3.00	2.65	2.55	7.60	1.98	1.96	1.93	2.10
18	2.43	2.77	2.56	8.80	2.89	2.60	2.46	6.96	1.97	1.97	1.94	2.12
19	2.46	2.75	2.52	9.28	2.82	2.56	2.37	6.64	1.98	1.99	1.94	2.16
20	2.47	2.73	2.53	8.17	2.87	2.55	2.31	6.50	1.98	2.00	1.93	2.17
21	2.49	2.75	2.53	6.26	2.83	2.53	2.39	6.94	1.99	1.98	1.93	2.17
22	2.50	2.77	2.55	5.36	2.71	2.50	3.02	7.50	2.06	1.98	1.94	2.16
23	2.50	2.78	2.79	4.66	2.69	2.48	3.58	7.00	2.11	1.96	1.97	2.15
24	2.51	2.78	2.66	4.21	2.68	2.46	3.92	6.66	2.16	1.95	1.99	2.15
25	2.56	2.83	2.50	4.01	2.75	2.39	3.73	6.44	2.14	1.95	2.10	2.17
26	2.59	3.54	2.46	3.87	2.76	2.38	3.46	6.30	2.10	1.95	2.23	2.13
27	2.65	4.73	2.40	3.74	3.00	2.39	5.65	6.24	2.05	1.96	2.22	2.13
28	2.61	4.33	2.53	3.58	3.11	2.37	5.79	6.24	2.02	2.03	2.15	2.11
29	2.56	3.67	2.63	3.46	---	2.36	5.72	6.23	2.01	2.04	2.09	2.08
30	2.54	4.17	2.69	3.35	---	2.37	5.18	6.20	2.01	2.02	2.04	2.07
31	2.54	---	2.80	3.22	---	2.40	---	6.17	---	1.97	2.02	---
Max	2.65	4.73	5.09	9.28	4.89	3.33	5.79	12.43	6.12	2.08	2.23	2.17
Min	2.01	2.30	2.40	2.52	2.68	2.36	2.31	4.62	1.97	1.91	1.83	2.02

Preview Only

07349500 Bodcau Bayou near Sarepta, LA

Red-Saline Basin
Bodcau Bayou Subbasin

LOCATION.--Lat 32°54′18″, long 93°28′58″ referenced to North American Datum of 1927, in NE ¼ sec.15, T.22 N., R.11 W., Webster Parish, LA, Hydrologic Unit 11140205, on left bank on downstream side of bridge on State Highway 2, 2.1 mi northwest of Sarepta, and 9.5 mi upstream from Caney Creek.

DRAINAGE AREA.--546.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to September 1992 daily gage heights and discharges. October 1992 to current, gage heights and maximum peak discharge.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1939-1992), 598 ft^3/s, 433,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s, May 2, 1958, gage height, 25.14 ft; maximum gage height, 26.77 ft, Nov. 4, 2009; minimum, 0.1 ft^3/s at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft, Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft and flood of 1905 may have reached a stage of 27 ft from information by local residents.

REVISIONS.--The maximum discharges which were omitted for some water years are shown in the following table. Maximum gage heights for those years were not revised.

Water year	Date	Discharge (ft^3/s)	Gage height (ft)
2001	Feb. 18, 2001	8,770	20.55
2008	Apr. 17, 2008	2,990	15.92
2009	May 17, 2009	6,990	19.86

EXTREMES FOR CURRENT YEAR.—Maximum discharge 9,520 ft^3/s, gage height 21.50 ft., Oct. 14; maximum gage height, 26.77 ft, Nov. 4; minimum gage height, 1.99 ft, Aug. 17 and 29.

Preview Only

07349500 Bodcau Bayou near Sarepta, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.50	26.61	20.20	18.33	14.04	11.21	6.89	2.69	2.32	2.25	2.11	2.07
2	12.32	26.70	19.96	17.72	13.73	11.20	6.68	2.65	2.32	2.25	2.04	2.06
3	12.74	26.74	19.65	17.25	13.23	10.97	6.58	2.57	2.34	2.37	2.03	2.05
4	14.54	26.76	19.32	16.87	12.85	10.70	6.52	2.50	2.33	2.32	2.02	2.04
5	17.16	26.74	18.97	16.52	12.80	10.41	6.50	2.48	2.31	2.28	2.03	2.03
6	18.75	26.67	18.62	16.18	12.93	10.13	6.40	2.45	2.31	2.22	2.08	2.02
7	18.30	26.54	18.28	15.88	13.16	9.88	5.93	2.41	2.27	2.23	2.17	2.01
8	17.49	26.38	17.98	15.57	13.28	9.69	5.75	2.42	2.25	2.41	2.12	2.01
9	16.88	26.18	17.67	15.27	13.95	9.63	5.72	2.56	2.31	2.70	2.14	2.09
10	16.61	25.97	17.31	14.95	14.52	9.71	5.60	2.72	2.92	2.56	2.11	2.11
11	16.64	25.75	16.95	14.60	14.94	10.18	5.30	2.79	3.00	2.47	2.08	2.13
12	17.38	25.52	16.60	14.24	15.18	10.78	5.07	2.84	2.73	2.38	2.05	2.12
13	18.56	25.26	16.27	13.88	15.35	11.30	4.98	2.76	2.57	2.28	2.05	2.10
14	20.63	25.00	15.92	13.53	15.57	11.26	4.93	2.64	2.41	2.21	2.04	2.16
15	22.01	24.73	15.57	13.17	15.73	10.71	4.89	2.68	2.33	2.18	2.04	2.15
16	22.32	24.51	15.20	12.89	15.66	10.07	4.84	2.72	2.31	2.16	2.02	2.10
17	22.50	24.25	14.84	12.73	15.36	9.56	4.79	2.77	2.26	2.14	1.99	2.06
18	22.51	23.97	14.46	12.60	14.92	9.22	4.76	2.70	2.20	2.14	2.00	2.05
19	22.22	23.69	14.07	12.50	14.40	9.02	4.75	2.63	2.23	2.16	2.03	2.03
20	21.77	23.40	13.68	12.44	13.87	8.87	4.73	2.66	2.19	2.16	2.08	2.01
21	21.34	23.11	13.29	13.19	13.30	8.74	4.68	2.81	2.17	2.13	2.12	2.01
22	21.23	22.82	12.93	13.10	12.72	8.19	4.63	2.79	2.17	2.11	2.10	2.01
23	21.57	22.53	12.66	13.33	12.15	7.54	4.60	2.70	2.17	2.09	2.06	2.01
24	21.99	22.23	14.11	13.67	11.61	7.20	4.59	2.59	2.31	2.07	2.03	2.02
25	22.14	21.93	15.38	13.81	11.06	7.33	4.53	2.46	2.36	2.06	2.03	2.01
26	22.27	21.62	16.21	13.94	10.72	7.94	4.48	2.36	2.21	2.11	2.02	2.03
27	22.75	21.31	16.63	13.85	10.82	8.39	4.40	2.45	2.22	2.32	2.01	2.02
28	23.18	20.99	18.07	13.56	11.04	8.21	3.73	2.58	2.22	2.82	2.00	2.01
29	23.68	20.68	19.51	13.54	---	7.73	3.07	2.64	2.33	2.59	2.00	2.01
30	25.51	20.49	19.64	13.74	---	7.35	2.78	2.47	2.46	2.38	2.00	2.02
31	26.34	---	19.04	14.00	---	7.12	---	2.37	---	2.22	2.02	---
Max	26.34	26.76	20.20	18.33	15.73	11.30	6.89	2.84	3.00	2.82	2.17	2.16
Min	10.50	20.49	12.66	12.44	10.72	7.12	2.78	2.36	2.17	2.06	1.99	2.01

Preview Only

07349500 Bodcau Bayou near Sarepta, LA

Red-Saline Basin
Bodcau Bayou Subbasin

LOCATION.--Lat 32°54′18″, long 93°28′58″ referenced to North American Datum of 1927, in NE ¼ sec.15, T.22 N., R.11 W., Webster Parish, LA, Hydrologic Unit 11140205, on left bank on downstream side of bridge on State Highway 2, 2.1 mi northwest of Sarepta, and 9.5 mi upstream from Caney Creek.

DRAINAGE AREA.--546.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to September 1992 daily gage heights and discharges. October 1992 to 2008, gage heights and maximum peak discharge. October 2009 to current, gage heights only.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1939-1992), 598 ft^3/s, 433,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s, May 2, 1958, gage height, 25.14 ft; minimum, 0.1 ft^3/s at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft, Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft and flood of 1905 may have reached a stage of 27 ft from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.86 ft, May 17; minimum gage height, 2.19 ft, July 18, 19.

Preview Only

07349500 Bodcau Bayou near Sarepta, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.62	7.21	6.54	6.05	5.73	5.73	8.60	8.59	8.46	2.71	9.27	2.65
2	6.50	7.09	6.43	5.89	5.73	5.70	7.35	8.84	7.90	2.62	6.88	2.64
3	7.19	6.97	6.36	5.79	5.69	5.62	7.44	11.49	7.47	2.54	6.78	2.62
4	7.43	6.87	6.48	5.73	5.68	5.54	8.30	15.39	7.95	2.50	5.95	2.61
5	7.45	6.77	6.40	5.76	5.68	5.47	8.88	17.56	8.78	2.57	4.49	2.59
6	7.39	6.69	6.34	6.34	5.68	5.37	9.03	17.78	8.19	2.65	3.66	2.56
7	7.37	6.61	6.27	6.97	5.67	4.53	9.07	17.58	7.01	2.74	3.31	2.52
8	7.28	6.57	6.19	7.30	5.65	3.45	8.85	17.84	6.19	2.68	3.18	2.49
9	7.18	6.96	6.70	7.21	5.68	2.90	8.21	18.10	5.79	2.56	3.12	2.46
10	7.09	7.54	7.18	6.85	6.07	2.91	7.49	17.89	5.58	2.48	3.08	2.44
11	7.00	7.98	7.51	6.52	6.93	2.84	7.07	17.45	5.61	2.41	3.05	2.51
12	6.92	8.44	7.37	6.35	6.93	4.71	7.27	16.99	5.68	2.36	3.03	2.53
13	6.88	8.46	7.00	6.28	6.80	7.24	7.28	16.63	5.50	2.32	3.04	2.85
14	6.87	8.33	6.65	6.27	6.60	8.76	7.42	16.69	5.32	2.29	3.02	3.36
15	6.92	8.07	6.39	6.30	6.34	9.21	7.63	18.05	5.22	2.26	2.97	4.17
16	7.58	7.81	6.21	6.34	6.10	9.13	7.28	19.47	5.14	2.23	2.94	4.56
17	8.19	7.62	6.14	6.37	6.01	8.56	6.74	19.78	5.06	2.22	2.91	4.29
18	8.50	7.44	6.10	6.37	6.04	6.96	6.63	19.26	4.99	2.20	2.91	4.06
19	8.58	7.12	6.11	6.34	6.07	5.29	7.15	18.35	4.93	2.20	2.95	4.39
20	8.55	6.86	6.12	6.32	6.12	4.38	8.17	17.37	4.87	2.23	2.94	5.07
21	8.47	6.74	6.10	6.26	6.13	3.88	9.14	16.50	4.81	2.48	2.90	4.97
22	8.36	6.71	6.02	6.18	6.08	3.50	9.42	15.77	4.75	3.32	2.85	5.68
23	8.26	6.72	5.97	6.11	6.04	3.26	9.23	15.12	4.69	3.11	2.82	6.81
24	8.13	6.72	5.96	6.04	6.00	3.16	8.82	14.47	4.63	2.71	2.80	8.32
25	8.02	6.68	5.99	5.98	5.94	5.35	8.44	13.74	4.52	2.47	2.76	9.55
26	7.92	6.63	5.95	5.92	5.89	8.67	8.33	12.96	3.96	2.56	2.73	10.35
27	7.78	6.58	5.92	5.86	5.84	9.96	8.46	12.17	3.27	2.60	2.69	10.82
28	7.63	6.57	6.01	5.94	5.79	10.93	8.62	11.31	2.80	7.66	2.66	10.98
29	7.53	6.68	6.33	5.99	---	10.55	8.57	10.52	2.73	13.20	2.67	10.87
30	7.44	6.63	6.44	5.92	---	10.13	8.52	9.80	2.77	12.99	2.69	10.65
31	7.33	---	6.26	5.81	---	9.74	---	9.11	---	11.61	2.64	---
Max	8.58	8.46	7.51	7.30	6.93	10.93	9.42	19.78	8.78	13.20	9.27	10.98
Min	5.62	6.57	5.92	5.73	5.65	2.84	6.63	8.59	2.73	2.20	2.64	2.44

Preview Only

Water-Data Report 2008

07349500 Bodcau Bayou near Sarepta, LA

Red-Saline Basin
Bodcau Bayou Subbasin

LOCATION.--Lat 32°54′18″, long 93°28′58″ referenced to North American Datum of 1927, in NE ¼ sec.15, T.22 N., R.11 W., Webster Parish, LA, Hydrologic Unit 11140205, on left bank on downstream side of bridge on State Highway 2, 2.1 mi northwest of Sarepta, and 9.5 mi upstream from Caney Creek.

DRAINAGE AREA.--546.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to September 1992 daily gage heights and discharges. October 1992 to current year (gage-heights and maximum peak discharge).

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1939-1992), 598 ft^3/s, 433,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s, May 2, 1958, gage height, 25.14 ft; minimum, 0.1 ft^3/s at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft, Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft and flood of 1905 may have reached a stage of 27 ft from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.92 ft, Apr. 17; minimum gage height, 1.96 ft, Oct. 13, 14.

Preview Only

07349500 Bodcau Bayou near Sarepta, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.02	2.21	2.69	3.41	4.25	9.72	11.41	5.22	4.72	3.37	2.30	3.11
2	2.04	2.25	2.56	3.17	4.64	9.15	10.68	4.85	4.47	3.30	2.28	3.88
3	2.03	2.26	2.63	2.97	4.55	9.03	9.97	4.83	4.28	3.24	2.25	6.27
4	2.03	2.26	2.83	2.83	4.54	9.65	9.46	5.18	4.11	3.19	2.22	6.37
5	2.02	2.30	2.91	2.75	4.66	10.17	9.42	5.29	3.94	3.15	2.20	6.41
6	2.02	2.37	2.97	2.81	4.86	10.57	9.80	5.00	3.83	3.15	2.16	6.04
7	2.02	2.41	3.02	2.82	5.49	10.42	10.07	4.74	3.77	3.16	2.13	5.10
8	2.02	2.46	3.05	2.82	5.75	10.16	10.08	4.60	3.74	3.13	2.14	4.32
9	2.03	2.50	3.09	2.86	5.59	9.94	9.98	4.57	3.72	3.10	2.13	4.01
10	2.03	2.58	3.13	2.88	5.42	9.87	9.92	4.74	4.69	3.07	2.12	4.46
11	2.01	2.70	3.18	2.86	5.25	9.84	9.92	4.63	6.31	3.07	2.27	6.18
12	1.99	2.79	3.27	2.86	5.56	9.90	10.06	4.51	5.99	3.03	3.11	7.53
13	1.97	2.85	3.58	2.97	6.65	10.08	10.49	4.44	4.97	3.24	2.71	8.53
14	1.96	2.90	3.67	3.09	7.35	10.22	11.70	6.18	4.43	4.33	2.55	9.17
15	2.02	2.91	3.92	3.16	7.33	10.22	14.61	9.59	4.17	3.48	2.48	9.45
16	2.26	2.92	4.26	3.11	7.01	10.13	15.73	10.75	4.18	3.12	2.45	9.47
17	2.76	2.95	4.10	3.03	9.43	9.99	15.89	10.60	4.15	2.98	2.48	9.21
18	2.94	2.98	3.56	3.00	10.45	9.66	15.68	9.89	3.92	2.90	2.48	8.58
19	2.62	3.01	3.21	2.87	11.51	9.20	15.24	8.93	3.80	2.85	2.66	7.79
20	2.39	3.07	3.05	2.87	11.99	8.69	14.67	8.19	3.70	2.79	3.09	7.10
21	2.23	3.09	3.00	2.77	11.84	8.67	13.92	7.75	3.64	2.74	3.34	6.74
22	2.15	3.07	3.00	3.00	11.38	8.73	12.96	7.69	3.58	2.70	4.59	6.68
23	2.18	3.10	3.02	3.19	10.87	8.72	11.87	7.93	3.54	2.67	5.37	6.79
24	2.22	3.16	2.98	3.20	10.54	8.79	10.68	8.25	3.50	2.63	4.65	6.91
25	2.20	3.55	2.91	3.15	10.38	9.11	9.51	8.29	3.45	2.60	4.45	6.86
26	2.14	4.06	3.20	3.40	10.47	9.85	8.41	7.91	3.40	2.57	4.18	6.62
27	2.11	3.90	4.03	3.65	10.50	10.80	7.55	7.24	3.36	2.53	3.55	6.25
28	2.11	3.42	4.48	3.67	10.53	11.55	6.88	6.58	3.34	2.50	3.16	5.90
29	2.12	3.06	4.35	3.52	10.27	11.91	6.38	6.12	3.50	2.44	3.05	5.67
30	2.17	2.85	4.10	3.38	---	12.02	5.77	5.67	3.44	2.39	3.11	5.56
31	2.19	---	3.70	3.72	---	12.00	---	5.15	---	2.35	3.15	---
Max	2.94	4.06	4.48	3.72	11.99	12.02	15.89	10.75	6.31	4.33	5.37	9.47
Min	1.96	2.21	2.56	2.75	4.25	8.67	5.77	4.44	3.34	2.35	2.12	3.11

Preview Only

07349500 Bodcau Bayou near Sarepta, LA

Red-Saline Basin
Bodcau Bayou Subbasin

LOCATION.--Lat 32°54′18″, long 93°28′58″ referenced to North American Datum of 1927, in NE ¼ sec.15, T.22 N., R.11 W., Webster Parish, LA, Hydrologic Unit 11140205, on left bank on downstream side of bridge on State Highway 2, 2.1 mi northwest of Sarepta, and 9.5 mi upstream from Caney Creek.

DRAINAGE AREA.--546.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to September 1992 daily gage heights and discharges. October 1992 to current year (gage-heights and maximum peak discharge).

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1939-1992), 598 ft^3/s, 433,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s, May 2, 1958, gage height, 25.14 ft; minimum, 0.1 ft^3/s at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft, Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft and flood of 1905 may have reached a stage of 27 ft from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 5,850 ft^3/s, gage height 18.95 ft., Jan. 17; minimum gage height, 1.92 ft, Oct. 1.

Preview Only

07349500 Bodcau Bayou near Sarepta, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.92	2.94	3.57	8.80	10.33	6.13	9.30	5.49	2.41	5.28	4.60	2.08
2	1.94	2.99	3.55	8.31	9.68	6.07	9.85	5.35	2.28	4.70	4.43	2.11
3	1.95	3.04	3.55	6.69	9.21	6.38	11.21	5.43	2.32	4.52	4.38	2.27
4	1.95	3.04	3.54	4.97	9.02	6.71	11.96	5.75	2.55	4.40	4.31	2.19
5	1.96	3.06	3.51	5.09	8.68	7.06	11.98	6.03	2.32	4.43	4.12	2.13
6	1.95	3.35	3.48	5.88	8.16	7.32	11.59	6.05	2.18	7.92	3.76	2.16
7	1.94	3.35	3.46	6.39	7.60	7.45	10.96	5.82	2.11	13.47	3.47	2.19
8	1.94	3.29	3.45	6.58	7.10	7.38	10.31	5.56	2.08	16.20	3.32	2.14
9	1.93	3.16	3.45	6.76	6.72	7.12	9.72	5.51	2.10	16.07	3.20	2.08
10	1.94	3.08	3.44	6.26	6.44	6.77	9.20	5.97	2.22	15.49	3.03	2.18
11	1.97	3.04	3.52	5.19	6.20	6.37	8.75	6.58	2.27	15.03	2.86	2.42
12	1.97	3.05	3.83	4.33	5.98	6.01	8.24	6.60	2.26	14.43	2.70	2.34
13	1.99	3.22	3.96	3.89	6.75	5.75	7.75	6.33	2.17	13.69	2.53	2.20
14	2.01	3.31	3.72	10.12	7.56	5.62	7.44	5.98	2.11	13.09	2.40	2.12
15	2.02	3.32	3.54	14.92	8.30	5.66	7.69	5.75	4.02	12.64	2.29	2.08
16	2.16	3.35	3.40	18.10	8.38	5.82	8.16	6.29	4.30	12.16	2.21	2.06
17	2.33	3.40	3.29	18.86	7.97	5.78	8.14	7.41	4.75	11.57	2.16	2.05
18	2.46	3.43	3.24	18.21	7.49	5.63	7.56	7.60	5.24	10.92	2.13	2.04
19	2.53	3.41	3.21	17.32	7.22	5.41	6.87	6.91	5.49	10.30	2.13	2.03
20	2.57	3.37	3.19	16.72	6.93	5.25	6.36	6.04	4.92	9.81	2.14	2.01
21	2.58	3.36	3.24	16.59	6.66	5.20	5.92	5.38	4.97	9.48	2.11	2.01
22	2.61	3.36	3.27	16.52	6.64	5.22	5.51	5.00	4.98	9.33	2.09	2.00
23	2.63	3.36	3.25	16.33	6.64	5.23	5.20	4.81	5.14	9.19	2.09	2.03
24	2.63	3.35	3.21	15.96	7.55	5.26	5.00	4.71	4.86	8.95	2.08	2.13
25	2.73	3.36	3.67	15.45	8.03	5.54	5.02	4.70	5.18	8.51	2.06	2.17
26	2.86	3.36	4.25	14.86	7.10	5.53	5.15	4.70	6.15	7.90	2.05	2.14
27	2.94	3.35	4.25	14.19	6.82	5.84	5.58	4.64	6.00	7.22	2.03	2.11
28	2.86	3.40	3.70	13.43	6.43	8.00	6.03	4.61	6.09	6.52	2.01	2.10
29	2.81	3.45	3.32	12.64	---	9.19	5.99	3.99	6.64	5.87	2.01	2.06
30	2.79	3.53	6.47	11.88	---	10.19	5.73	2.99	6.23	5.37	2.04	2.04
31	2.86	---	8.10	11.08	---	9.98	---	2.56	---	4.92	2.06	---
Max	2.94	3.53	8.10	18.86	10.33	10.19	11.98	7.60	6.64	16.20	4.60	2.42
Min	1.92	2.94	3.19	3.89	5.98	5.20	5.00	2.56	2.08	4.40	2.01	2.00

Preview Only

07349500 Bodcau Bayou near Sarepta, LA

Red-Saline Basin
Bodcau Bayou Subbasin

LOCATION.--Lat 32°54′18″, long 93°28′58″ referenced to North American Datum of 1927, in NE ¼ sec.15, T.22 N., R.11 W., Webster Parish, LA, Hydrologic Unit 11140205, on left bank on downstream side of bridge on State Highway 2, 2.1 mi northwest of Sarepta, and 9.5 mi upstream from Caney Creek.

DRAINAGE AREA.--546.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1938 to September 1992 daily gage heights and discharges. October 1992 to current year (gage-heights and maximum peak discharge).

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--54 years (water years 1939-1992), 598 ft^3/s, 433,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s, May 2, 1958, gage height, 25.14 ft; minimum, 0.1 ft^3/s at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft, Aug. 14-19, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft and flood of 1905 may have reached a stage of 27 ft from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,800 ft^3/s, maximum gage height, 15.67 ft, Mar 22; minimum gage height, 1.87 ft, Jul 20, 26.

Preview Only

07349500 Bodcau Bayou near Sarepta, LA—Continued

DDR
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.33	2.76	2.88	2.24	4.20	6.82	12.11	2.68	2.14	1.93	1.93	2.02
2	3.28	2.75	2.83	2.23	4.44	5.62	11.46	2.72	2.15	1.96	1.92	1.98
3	3.23	2.70	2.87	2.23	4.75	4.92	10.59	2.59	2.14	1.96	1.92	1.96
4	3.18	2.66	2.89	2.22	4.86	4.52	9.58	2.52	2.11	1.99	1.92	1.95
5	3.15	2.63	2.73	2.24	4.62	4.28	8.64	2.61	2.06	2.03	1.92	1.94
6	3.13	2.60	2.66	2.24	4.27	4.15	7.70	2.75	2.03	2.39	1.93	1.93
7	3.10	2.57	2.65	2.21	3.93	4.07	6.74	3.21	2.13	2.20	1.94	1.93
8	3.07	2.58	2.69	2.18	3.73	4.05	6.00	3.58	2.18	2.06	1.94	1.92
9	3.06	2.60	2.69	2.17	3.52	4.14	5.79	3.60	2.33	1.99	1.93	1.92
10	3.02	2.59	2.69	2.34	3.50	4.19	5.52	3.55	2.39	1.98	1.92	1.91
11	2.97	2.59	2.68	2.44	4.31	4.09	4.99	3.66	2.29	1.95	1.91	1.93
12	2.93	2.59	2.65	2.41	5.39	4.03	4.55	4.05	2.16	1.91	1.92	2.01
13	2.91	2.59	2.62	2.43	5.45	4.03	4.23	4.08	2.05	1.90	1.94	1.98
14	2.88	2.66	2.62	2.39	4.82	4.21	4.06	3.87	2.00	1.90	1.95	1.96
15	2.86	2.70	2.64	2.37	4.29	4.23	3.92	3.72	1.96	1.90	1.95	1.94
16	2.84	2.71	2.65	2.43	3.98	4.10	3.59	3.78	1.95	1.90	1.91	1.93
17	2.82	2.78	2.66	2.75	3.79	3.98	3.18	3.83	1.95	1.90	1.92	1.94
18	2.80	2.85	2.63	2.75	3.69	4.44	3.01	3.73	1.97	1.90	1.94	2.15
19	2.78	2.84	2.60	2.73	3.62	8.74	2.96	3.63	2.00	1.90	1.94	2.07
20	2.75	2.80	2.58	2.68	3.58	12.64	2.81	3.90	1.99	1.88	1.93	2.03
21	2.72	2.77	2.56	2.63	3.56	15.00	2.85	3.69	1.97	1.88	1.94	1.98
22	2.69	2.75	2.52	3.32	3.56	15.62	2.96	3.40	1.99	1.97	2.04	1.98
23	2.69	2.73	2.46	5.78	3.56	15.06	3.06	2.96	1.98	1.91	1.98	1.95
24	2.67	2.70	2.41	6.53	3.56	14.06	2.91	2.54	1.97	1.89	2.01	2.13
25	2.65	2.65	2.40	6.04	4.62	12.94	2.72	2.36	1.99	1.88	2.04	2.03
26	2.64	2.63	2.39	4.90	6.30	12.06	2.63	2.25	1.96	1.88	2.03	2.00
27	2.61	2.71	2.36	4.07	7.39	11.85	2.59	2.14	1.93	2.11	2.00	1.95
28	2.57	2.86	2.37	3.65	7.65	12.28	2.75	2.08	1.92	2.21	1.99	1.93
29	2.54	2.92	2.39	4.03	---	12.72	2.68	2.04	1.91	2.14	2.12	1.93
30	2.52	2.91	2.34	4.75	---	12.84	2.71	2.07	1.92	2.02	2.16	1.91
31	2.57	---	2.26	4.69	---	12.61	---	2.11	---	1.96	2.10	---
Max	3.33	2.92	2.89	6.53	7.65	15.62	12.11	4.08	2.39	2.39	2.16	2.15
Min	2.52	2.57	2.26	2.17	3.50	3.98	2.59	2.04	1.91	1.88	1.91	1.91

Preview Only

October 2004- September 2005

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/2004	5.39[A]
10/2/2004	5.73[A]
10/3/2004	5.76[A]
10/4/2004	5.74[A]
10/5/2004	5.73[A]
10/6/2004	5.66[A]
10/7/2004	5.56[A]
10/8/2004	6.23[A]
10/9/2004	7.21[A]
10/10/2004	8.24[A]
10/11/2004	8.43[A]
10/12/2004	8.24[A]
10/13/2004	7.86[A]
10/14/2004	7.19[A]
10/15/2004	6.48[A]
10/16/2004	6.14[A]
10/17/2004	5.96[A]
10/18/2004	5.75[A]
10/19/2004	5.49[A]
10/20/2004	5.50[A]
10/21/2004	5.52[A]
10/22/2004	5.46[A]
10/23/2004	5.77[A]
10/24/2004	5.98[A]
10/25/2004	5.98[A]
10/26/2004	5.92[A]
10/27/2004	5.40[A]
10/28/2004	4.88[A]
10/29/2004	4.59[A]
10/30/2004	4.53[A]
10/31/2004	4.53[A]

Date	Gage height (ft)
11/1/2004	5.21[A]
11/2/2004	7.73[A]
11/3/2004	10.00[A]
11/4/2004	10.85[A]
11/5/2004	10.65[A]
11/6/2004	9.57[A]
11/7/2004	7.64[A]
11/8/2004	5.78[A]
11/9/2004	4.93[A]
11/10/2004	4.69[A]
11/11/2004	4.57[A]
11/12/2004	4.32[A]
11/13/2004	4.91[A]
11/14/2004	5.29[A]
11/15/2004	5.32[A]
11/16/2004	5.29[A]
11/17/2004	5.26[A]
11/18/2004	5.74[A]
11/19/2004	6.36[A]
11/20/2004	6.09[A]
11/21/2004	6.33[A]
11/22/2004	7.42[A]
11/23/2004	8.85[A]
11/24/2004	9.66[A]
11/25/2004	10.11[A]
11/26/2004	10.19[A]
11/27/2004	9.81[A]
11/28/2004	8.85[A]
11/29/2004	7.64[A]
11/30/2004	8.27[A]

Date	Gage height (ft)
12/1/2004	9.17[A]
12/2/2004	10.20[A]
12/3/2004	10.71[A]
12/4/2004	10.43[A]
12/5/2004	9.52[A]
12/6/2004	8.39[A]
12/7/2004	8.73[A]
12/8/2004	8.74[A]
12/9/2004	9.04[A]
12/10/2004	8.99[A]
12/11/2004	8.53[A]
12/12/2004	7.74[A]
12/13/2004	6.79[A]
12/14/2004	6.06[A]
12/15/2004	6.09[A]
12/16/2004	6.57[A]
12/17/2004	7.07[A]
12/18/2004	7.57[A]
12/19/2004	7.86[A]
12/20/2004	7.87[A]
12/21/2004	7.66[A]
12/22/2004	8.54[A]
12/23/2004	8.90[A]
12/24/2004	8.70[A]
12/25/2004	8.95[A]
12/26/2004	8.91[A]
12/27/2004	8.71[A]
12/28/2004	8.48[A]
12/29/2004	8.25[A]
12/30/2004	8.09[A]
12/31/2004	8.05[A]

Date	Gage height (ft)
1/1/2005	8.01[A]
1/2/2005	8.02[A]
1/3/2005	8.03[A]
1/4/2005	8.01[A]
1/5/2005	7.96[A]
1/6/2005	8.06[A]
1/7/2005	9.43[A]
1/8/2005	10.97[A]
1/9/2005	12.34[A]
1/10/2005	13.38[A]
1/11/2005	13.63[A]
1/12/2005	13.46[A]
1/13/2005	13.43[A]
1/14/2005	13.54[A]
1/15/2005	14.06[A]
1/16/2005	14.38[A]
1/17/2005	14.32[A]
1/18/2005	14.00[A]
1/19/2005	13.51[A]
1/20/2005	12.94[A]
1/21/2005	12.39[A]
1/22/2005	11.92[A]
1/23/2005	11.47[A]
1/24/2005	11.07[A]
1/25/2005	10.49[A]
1/26/2005	9.76[A]
1/27/2005	9.07[A]
1/28/2005	8.63[A]
1/29/2005	8.53[A]
1/30/2005	8.42[A]
1/31/2005	8.68[A]

Date	Gage height (ft)
2/1/2005	8.82[A]
2/2/2005	9.72[A]
2/3/2005	10.08[A]
2/4/2005	10.32[A]
2/5/2005	10.29[A]
2/6/2005	10.01[A]
2/7/2005	9.98[A]
2/8/2005	10.43[A]
2/9/2005	11.20[A]
2/10/2005	11.77[A]
2/11/2005	11.87[A]
2/12/2005	11.62[A]
2/13/2005	11.18[A]
2/14/2005	10.72[A]
2/15/2005	10.43[A]
2/16/2005	10.36[A]
2/17/2005	10.29[A]
2/18/2005	10.15[A]
2/19/2005	9.81[A]
2/20/2005	9.30[A]
2/21/2005	8.71[A]
2/22/2005	8.14[A]
2/23/2005	8.00[A]
2/24/2005	8.34[A]
2/25/2005	8.35[A]
2/26/2005	8.33[A]
2/27/2005	8.12[A]
2/28/2005	7.81[A]

Date	Gage height (ft)
3/1/2005	7.53[A]
3/2/2005	7.25[A]
3/3/2005	6.97[A]
3/4/2005	6.72[A]
3/5/2005	6.60[A]
3/6/2005	6.49[A]
3/7/2005	6.38[A]
3/8/2005	6.28[A]
3/9/2005	P
3/10/2005	P
3/11/2005	P
3/12/2005	P
3/13/2005	P
3/14/2005	P
3/15/2005	P
3/16/2005	P
3/17/2005	P
3/18/2005	P
3/19/2005	P
3/20/2005	P
3/21/2005	P
3/22/2005	P
3/23/2005	P
3/24/2005	P
3/25/2005	P
3/26/2005	P
3/27/2005	P
3/28/2005	P
3/29/2005	P
3/30/2005	P
3/31/2005	P

Date	Gage height (ft)
4/1/2005	P
4/2/2005	P
4/3/2005	P
4/4/2005	P
4/5/2005	P
4/6/2005	P
4/7/2005	6.82[A]
4/8/2005	6.91[A]
4/9/2005	6.92[A]
4/10/2005	6.78[A]
4/11/2005	9.39[A]
4/12/2005	11.39[A]
4/13/2005	11.83[A]
4/14/2005	11.91[A]
4/15/2005	11.61[A]
4/16/2005	11.02[A]
4/17/2005	10.33[A]
4/18/2005	9.72[A]
4/19/2005	9.22[A]
4/20/2005	8.75[A]
4/21/2005	8.29[A]
4/22/2005	7.78[A]
4/23/2005	7.23[A]
4/24/2005	6.83[A]
4/25/2005	6.38[A]
4/26/2005	6.00[A]
4/27/2005	5.92[A]
4/28/2005	5.88[A]
4/29/2005	5.77[A]
4/30/2005	5.71[A]

Date	Gage height (ft)
5/1/2005	5.68[A]
5/2/2005	5.65[A]
5/3/2005	5.60[A]
5/4/2005	5.56[A]
5/5/2005	5.51[A]
5/6/2005	5.45[A]
5/7/2005	5.41[A]
5/8/2005	5.37[A]
5/9/2005	5.33[A]
5/10/2005	5.26[A]
5/11/2005	4.57[A]
5/12/2005	4.06[A]
5/13/2005	3.93[A]
5/14/2005	3.92[A]
5/15/2005	3.93[A]
5/16/2005	3.86[A]
5/17/2005	3.80[A]
5/18/2005	3.74[A]
5/19/2005	3.70[A]
5/20/2005	3.82[A]
5/21/2005	3.92[A]
5/22/2005	3.84[A]
5/23/2005	3.35[A]
5/24/2005	2.98[A]
5/25/2005	2.91[A]
5/26/2005	2.89[A]
5/27/2005	2.87[A]
5/28/2005	2.87[A]
5/29/2005	2.97[A]
5/30/2005	3.23[A]
5/31/2005	3.17[A]

Date	Gage height (ft)
6/1/2005	3.02[A]
6/2/2005	2.97[A]
6/3/2005	2.85[A]
6/4/2005	2.76[A]
6/5/2005	2.66[A]
6/6/2005	2.67[A]
6/7/2005	2.90[A]
6/8/2005	5.30[A]
6/9/2005	7.35[A]
6/10/2005	6.33[A]
6/11/2005	4.22[A]
6/12/2005	3.24[A]
6/13/2005	2.86[A]
6/14/2005	2.66[A]
6/15/2005	2.56[A]
6/16/2005	2.47[A]
6/17/2005	3.26[A]
6/18/2005	3.55[A]
6/19/2005	3.48[A]
6/20/2005	3.53[A]
6/21/2005	3.64[A]
6/22/2005	3.61[A]
6/23/2005	3.54[A]
6/24/2005	3.34[A]
6/25/2005	2.78[A]
6/26/2005	2.64[A]
6/27/2005	2.58[A]
6/28/2005	2.53[A]
6/29/2005	2.49[A]
6/30/2005	2.45[A]

Date	Gage height (ft)
7/1/2005	2.44[A]
7/2/2005	2.43[A]
7/3/2005	2.45[A]
7/4/2005	2.43[A]
7/5/2005	2.39[A]
7/6/2005	2.37[A]
7/7/2005	2.36[A]
7/8/2005	2.34[A]
7/9/2005	2.31[A]
7/10/2005	2.28[A]
7/11/2005	2.25[A]
7/12/2005	2.22[A]
7/13/2005	2.33[A]
7/14/2005	2.45[A]
7/15/2005	2.54[A]
7/16/2005	2.75[A]
7/17/2005	2.51[A]
7/18/2005	2.89[A]
7/19/2005	3.20[A]
7/20/2005	2.63[A]
7/21/2005	2.42[A]
7/22/2005	2.36[A]
7/23/2005	2.37[A]
7/24/2005	2.30[A]
7/25/2005	2.25[A]
7/26/2005	2.21[A]
7/27/2005	2.19[A]
7/28/2005	2.20[A]
7/29/2005	2.23[A]
7/30/2005	2.22[A]
7/31/2005	2.19[A]

Date	Gage height (ft)
8/1/2005	2.17[A]
8/2/2005	2.14[A]
8/3/2005	2.12[A]
8/4/2005	2.11[A]
8/5/2005	2.09[A]
8/6/2005	2.07[A]
8/7/2005	2.07[A]
8/8/2005	2.08[A]
8/9/2005	2.10[A]
8/10/2005	2.14[A]
8/11/2005	2.23[A]
8/12/2005	2.18[A]
8/13/2005	2.13[A]
8/14/2005	2.11[A]
8/15/2005	2.13[A]
8/16/2005	2.14[A]
8/17/2005	2.14[A]
8/18/2005	2.13[A]
8/19/2005	2.11[A]
8/20/2005	2.10[A]
8/21/2005	2.10[A]
8/22/2005	2.10[A]
8/23/2005	2.11[A]
8/24/2005	2.13[A]
8/25/2005	2.16[A]
8/26/2005	2.16[A]
8/27/2005	2.15[A]
8/28/2005	2.22[A]
8/29/2005	2.27[A]
8/30/2005	2.23[A]
8/31/2005	2.16[A]

Date	Gage height (ft)
9/1/2005	2.14[A]
9/2/2005	2.12[A]
9/3/2005	2.10[A]
9/4/2005	2.09[A]
9/5/2005	2.08[A]
9/6/2005	2.08[A]
9/7/2005	2.08[A]
9/8/2005	2.07[A]
9/9/2005	2.07[A]
9/10/2005	2.08[A]
9/11/2005	2.09[A]
9/12/2005	2.10[A]
9/13/2005	2.11[A]
9/14/2005	2.12[A]
9/15/2005	2.14[A]
9/16/2005	2.18[A]
9/17/2005	2.17[A]
9/18/2005	2.18[A]
9/19/2005	2.17[A]
9/20/2005	2.16[A]
9/21/2005	2.15[A]
9/22/2005	2.13[A]
9/23/2005	2.13[A]
9/24/2005	2.67[A]
9/25/2005	3.87[A]
9/26/2005	4.14[A]
9/27/2005	3.97[A]
9/28/2005	3.64[A]
9/29/2005	3.47[A]
9/30/2005	3.37[A]

Preview Only

October 2003- September 2004

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/2003	2.51[A]
10/2/2003	2.55[A]
10/3/2003	2.56[A]
10/4/2003	2.52[A]
10/5/2003	2.59[A]
10/6/2003	2.68[A]
10/7/2003	2.68[A]
10/8/2003	2.61[A]
10/9/2003	2.61[A]
10/10/2003	2.70[A]
10/11/2003	2.69[A]
10/12/2003	2.65[A]
10/13/2003	2.62[A]
10/14/2003	[P]
10/15/2003	[P]
10/16/2003	[P]
10/17/2003	[P]
10/18/2003	[P]
10/19/2003	[P]
10/20/2003	[P]
10/21/2003	[P]
10/22/2003	[P]
10/23/2003	[P]
10/24/2003	[P]
10/25/2003	[P]
10/26/2003	[P]
10/27/2003	[P]
10/28/2003	[P]
10/29/2003	[P]
10/30/2003	[P]
10/31/2003	[P]

Date	Gage height (ft)
11/1/2003	[P]
11/2/2003	[P]
11/3/2003	[P]
11/4/2003	[P]
11/5/2003	[P]
11/6/2003	[P]
11/7/2003	[P]
11/8/2003	[P]
11/9/2003	[P]
11/10/2003	[P]
11/11/2003	[P]
11/12/2003	[P]
11/13/2003	[P]
11/14/2003	[P]
11/15/2003	[P]
11/16/2003	2.71[A]
11/17/2003	2.80[A]
11/18/2003	3.31[A]
11/19/2003	3.33[A]
11/20/2003	3.13[A]
11/21/2003	2.96[A]
11/22/2003	2.86[A]
11/23/2003	2.84[A]
11/24/2003	2.86[A]
11/25/2003	2.82[A]
11/26/2003	2.80[A]
11/27/2003	2.83[A]
11/28/2003	2.79[A]
11/29/2003	2.75[A]
11/30/2003	2.73[A]

Date	Gage height (ft)
12/1/2003	2.73[A]
12/2/2003	2.73[A]
12/3/2003	2.74[A]
12/4/2003	2.75[A]
12/5/2003	2.75[A]
12/6/2003	2.74[A]
12/7/2003	2.72[A]
12/8/2003	2.70[A]
12/9/2003	2.76[A]
12/10/2003	2.88[A]
12/11/2003	2.89[A]
12/12/2003	2.83[A]
12/13/2003	3.03[A]
12/14/2003	3.08[A]
12/15/2003	3.04[A]
12/16/2003	2.95[A]
12/17/2003	2.89[A]
12/18/2003	2.87[A]
12/19/2003	2.86[A]
12/20/2003	2.84[A]
12/21/2003	2.81[A]
12/22/2003	2.79[A]
12/23/2003	2.87[A]
12/24/2003	2.86[A]
12/25/2003	2.86[A]
12/26/2003	2.83[A]
12/27/2003	2.81[A]
12/28/2003	2.82[A]
12/29/2003	3.43[A]
12/30/2003	3.55[A]
12/31/2003	3.40[A]

Date	Gage height (ft)
1/1/2004	3.18[A]
1/2/2004	3.03[A]
1/3/2004	2.96[A]
1/4/2004	2.91[A]
1/5/2004	2.90[A]
1/6/2004	2.86[A]
1/7/2004	2.81[A]
1/8/2004	2.79[A]
1/9/2004	2.79[A]
1/10/2004	2.79[A]
1/11/2004	2.77[A]
1/12/2004	2.74[A]
1/13/2004	2.74[A]
1/14/2004	2.73[A]
1/15/2004	2.74[A]
1/16/2004	2.74[A]
1/17/2004	2.93[A]
1/18/2004	3.11[A]
1/19/2004	3.16[A]
1/20/2004	3.06[A]
1/21/2004	2.93[A]
1/22/2004	2.82[A]
1/23/2004	2.73[A]
1/24/2004	3.10[A]
1/25/2004	4.88[A]
1/26/2004	5.24[A]
1/27/2004	4.59[A]
1/28/2004	3.81[A]
1/29/2004	3.43[A]
1/30/2004	3.28[A]
1/31/2004	3.14[A]

Date	Gage height (ft)
2/1/2004	3.08[A]
2/2/2004	3.17[A]
2/3/2004	3.23[A]
2/4/2004	3.28[A]
2/5/2004	3.98[A]
2/6/2004	4.41[A]
2/7/2004	4.55[A]
2/8/2004	4.11[A]
2/9/2004	3.86[A]
2/10/2004	4.24[A]
2/11/2004	5.19[A]
2/12/2004	7.62[A]
2/13/2004	8.39[A]
2/14/2004	8.55[A]
2/15/2004	8.33[A]
2/16/2004	8.00[A]
2/17/2004	8.05[A]
2/18/2004	7.96[A]
2/19/2004	7.79[A]
2/20/2004	7.71[A]
2/21/2004	7.65[A]
2/22/2004	7.73[A]
2/23/2004	7.84[A]
2/24/2004	7.93[A]
2/25/2004	8.90[A]
2/26/2004	10.08[A]
2/27/2004	10.87[A]
2/28/2004	11.29[A]
2/29/2004	11.13[A]

Date	Gage height (ft)
3/1/2004	13.12[A]
3/2/2004	14.91[A]
3/3/2004	15.96[A]
3/4/2004	15.77[A]
3/5/2004	15.51[A]
3/6/2004	15.13[A]
3/7/2004	14.96[A]
3/8/2004	14.70[A]
3/9/2004	14.21[A]
3/10/2004	13.49[A]
3/11/2004	12.73[A]
3/12/2004	12.00[A]
3/13/2004	11.38[A]
3/14/2004	11.04[A]
3/15/2004	10.94[A]
3/16/2004	10.97[A]
3/17/2004	10.93[A]
3/18/2004	10.59[A]
3/19/2004	9.92[A]
3/20/2004	9.15[A]
3/21/2004	8.56[A]
3/22/2004	8.15[A]
3/23/2004	7.83[A]
3/24/2004	7.34[A]
3/25/2004	7.03[A]
3/26/2004	6.77[A]
3/27/2004	6.53[A]
3/28/2004	6.33[A]
3/29/2004	6.79[A]
3/30/2004	7.17[A]
3/31/2004	7.68[A]

Date	Gage height (ft)
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4/3/2004	6.65[A]
4/4/2004	6.19[A]
4/5/2004	5.88[A]
4/6/2004	5.58[A]
4/7/2004	5.31[A]
4/8/2004	5.25[A]
4/9/2004	5.20[A]
4/10/2004	5.18[A]
4/11/2004	5.21[A]
4/12/2004	5.53[A]
4/13/2004	6.01[A]
4/14/2004	6.16[A]
4/15/2004	5.85[A]
4/16/2004	5.27[A]
4/17/2004	4.82[A]
4/18/2004	4.59[A]
4/19/2004	4.47[A]
4/20/2004	4.37[A]
4/21/2004	4.33[A]
4/22/2004	4.24[A]
4/23/2004	4.16[A]
4/24/2004	4.13[A]
4/25/2004	4.92[A]
4/26/2004	6.26[A]
4/27/2004	6.32[A]
4/28/2004	5.58[A]
4/29/2004	5.53[A]
4/30/2004	6.03[A]

Date	Gage height (ft)
5/1/2004	7.17[A]
5/2/2004	9.03[A]
5/3/2004	9.93[A]
5/4/2004	10.23[A]
5/5/2004	9.88[A]
5/6/2004	8.98[A]
5/7/2004	8.07[A]
5/8/2004	7.55[A]
5/9/2004	7.40[A]
5/10/2004	7.39[A]
5/11/2004	7.30[A]
5/12/2004	7.18[A]
5/13/2004	6.97[A]
5/14/2004	6.95[A]
5/15/2004	6.73[A]
5/16/2004	6.53[A]
5/17/2004	6.17[A]
5/18/2004	5.72[A]
5/19/2004	5.29[A]
5/20/2004	5.01[A]
5/21/2004	4.76[A]
5/22/2004	4.55[A]
5/23/2004	4.32[A]
5/24/2004	4.10[A]
5/25/2004	3.98[A]
5/26/2004	3.91[A]
5/27/2004	3.86[A]
5/28/2004	3.82[A]
5/29/2004	3.81[A]
5/30/2004	3.80[A]
5/31/2004	3.80[A]

Date	Gage height (ft)
6/1/2004	4.07[A]
6/2/2004	4.40[A]
6/3/2004	4.48[A]
6/4/2004	4.50[A]
6/5/2004	4.54[A]
6/6/2004	6.45[A]
6/7/2004	8.55[A]
6/8/2004	10.59[A]
6/9/2004	12.44[A]
6/10/2004	13.48[A]
6/11/2004	13.77[A]
6/12/2004	13.63[A]
6/13/2004	13.28[A]
6/14/2004	12.89[A]
6/15/2004	12.52[A]
6/16/2004	12.46[A]
6/17/2004	12.38[A]
6/18/2004	12.13[A]
6/19/2004	11.69[A]
6/20/2004	11.66[A]
6/21/2004	11.81[A]
6/22/2004	12.78[A]
6/23/2004	13.18[A]
6/24/2004	13.15[A]
6/25/2004	13.01[A]
6/26/2004	12.52[A]
6/27/2004	12.17[A]
6/28/2004	12.37[A]
6/29/2004	13.11[A]
6/30/2004	13.55[A]

Date	Gage height (ft)
7/1/2004	13.80[A]
7/2/2004	13.96[A]
7/3/2004	14.16[A]
7/4/2004	13.98[A]
7/5/2004	13.56[A]
7/6/2004	13.03[A]
7/7/2004	12.47[A]
7/8/2004	11.95[A]
7/9/2004	11.49[A]
7/10/2004	11.04[A]
7/11/2004	10.57[A]
7/12/2004	10.02[A]
7/13/2004	9.35[A]
7/14/2004	8.52[A]
7/15/2004	7.57[A]
7/16/2004	6.65[A]
7/17/2004	5.87[A]
7/18/2004	5.27[A]
7/19/2004	4.88[A]
7/20/2004	4.54[A]
7/21/2004	4.22[A]
7/22/2004	4.02[A]
7/23/2004	3.91[A]
7/24/2004	3.84[A]
7/25/2004	3.80[A]
7/26/2004	3.76[A]
7/27/2004	3.74[A]
7/28/2004	3.48[A]
7/29/2004	2.96[A]
7/30/2004	3.25[A]
7/31/2004	3.84[A]

Date	Gage height (ft)
8/1/2004	3.95[A]
8/2/2004	3.92[A]
8/3/2004	3.88[A]
8/4/2004	3.85[A]
8/5/2004	4.52[A]
8/6/2004	5.32[A]
8/7/2004	5.44[A]
8/8/2004	5.40[A]
8/9/2004	5.34[A]
8/10/2004	5.28[A]
8/11/2004	5.22[A]
8/12/2004	5.16[A]
8/13/2004	5.11[A]
8/14/2004	5.05[A]
8/15/2004	4.97[A]
8/16/2004	4.90[A]
8/17/2004	4.84[A]
8/18/2004	4.78[A]
8/19/2004	4.85[A]
8/20/2004	5.55[A]
8/21/2004	5.86[A]
8/22/2004	5.81[A]
8/23/2004	5.71[A]
8/24/2004	5.63[A]
8/25/2004	5.57[A]
8/26/2004	5.50[A]
8/27/2004	5.43[A]
8/28/2004	5.35[A]
8/29/2004	5.29[A]
8/30/2004	5.23[A]
8/31/2004	5.16[A]

Date	Gage height (ft)
9/1/2004	5.08[A]
9/2/2004	5.02[A]
9/3/2004	4.96[A]
9/4/2004	4.89[A]
9/5/2004	4.83[A]
9/6/2004	4.84[A]
9/7/2004	4.91[A]
9/8/2004	4.95[A]
9/9/2004	4.81[A]
9/10/2004	4.74[A]
9/11/2004	5.50[A]
9/12/2004	6.07[A]
9/13/2004	6.19[A]
9/14/2004	6.17[A]
9/15/2004	6.09[A]
9/16/2004	5.99[A]
9/17/2004	5.91[A]
9/18/2004	5.84[A]
9/19/2004	5.74[A]
9/20/2004	5.63[A]
9/21/2004	5.55[A]
9/22/2004	5.47[A]
9/23/2004	5.38[A]
9/24/2004	5.34[A]
9/25/2004	5.44[A]
9/26/2004	5.50[A]
9/27/2004	5.35[A]
9/28/2004	5.22[A]
9/29/2004	5.13[A]
9/30/2004	5.06[A]

Preview Only

October 2002- September 2003

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/2002	4.08[A]
10/2/2002	4.06[A]
10/3/2002	4.61[A]
10/4/2002	5.46[A]
10/5/2002	5.64[A]
10/6/2002	5.65[A]
10/7/2002	5.64[A]
10/8/2002	5.58[A]
10/9/2002	5.55[A]
10/10/2002	5.62[A]
10/11/2002	5.62[A]
10/12/2002	5.52[A]
10/13/2002	5.40[A]
10/14/2002	5.30[A]
10/15/2002	5.25[A]
10/16/2002	5.19[A]
10/17/2002	5.12[A]
10/18/2002	5.05[A]
10/19/2002	5.08[A]
10/20/2002	5.12[A]
10/21/2002	5.08[A]
10/22/2002	5.00[A]
10/23/2002	4.94[A]
10/24/2002	4.88[A]
10/25/2002	4.96[A]
10/26/2002	5.03[A]
10/27/2002	4.94[A]
10/28/2002	4.87[A]
10/29/2002	4.91[A]
10/30/2002	4.92[A]
10/31/2002	4.88[A]

Date	Gage height (ft)
11/1/2002	4.82[A]
11/2/2002	4.77[A]
11/3/2002	4.77[A]
11/4/2002	4.85[A]
11/5/2002	5.24[A]
11/6/2002	5.37[A]
11/7/2002	5.15[A]
11/8/2002	4.94[A]
11/9/2002	4.82[A]
11/10/2002	4.74[A]
11/11/2002	4.69[A]
11/12/2002	4.71[A]
11/13/2002	4.75[A]
11/14/2002	4.77[A]
11/15/2002	4.81[A]
11/16/2002	4.80[A]
11/17/2002	4.79[A]
11/18/2002	4.80[A]
11/19/2002	4.76[A]
11/20/2002	4.70[A]
11/21/2002	4.68[A]
11/22/2002	4.68[A]
11/23/2002	4.66[A]
11/24/2002	4.63[A]
11/25/2002	4.67[A]
11/26/2002	4.92[A]
11/27/2002	4.98[A]
11/28/2002	4.82[A]
11/29/2002	4.69[A]
11/30/2002	4.59[A]

Date	Gage height (ft)
12/1/2002	4.51[A]
12/2/2002	4.45[A]
12/3/2002	4.42[A]
12/4/2002	4.98[A]
12/5/2002	5.60[A]
12/6/2002	5.37[A]
12/7/2002	4.68[A]
12/8/2002	3.97[A]
12/9/2002	3.36[A]
12/10/2002	3.11[A]
12/11/2002	3.01[A]
12/12/2002	3.00[A]
12/13/2002	3.93[A]
12/14/2002	4.31[A]
12/15/2002	4.20[A]
12/16/2002	3.80[A]
12/17/2002	3.48[A]
12/18/2002	3.36[A]
12/19/2002	8.53[A]
12/20/2002	14.83[A]
12/21/2002	15.07[A]
12/22/2002	14.08[A]
12/23/2002	12.51[A]
12/24/2002	11.71[A]
12/25/2002	10.83[A]
12/26/2002	10.42[A]
12/27/2002	9.75[A]
12/28/2002	8.56[A]
12/29/2002	6.88[A]
12/30/2002	5.60[A]
12/31/2002	7.59[A]

Date	Gage height (ft)
1/1/2003	9.02[A]
1/2/2003	9.77[A]
1/3/2003	9.85[A]
1/4/2003	9.75[A]
1/5/2003	9.65[A]
1/6/2003	9.66[A]
1/7/2003	9.76[A]
1/8/2003	9.86[A]
1/9/2003	9.93[A]
1/10/2003	9.98[A]
1/11/2003	10.04[A]
1/12/2003	10.02[A]
1/13/2003	9.82[A]
1/14/2003	9.41[A]
1/15/2003	8.87[A]
1/16/2003	8.25[A]
1/17/2003	7.62[A]
1/18/2003	7.27[A]
1/19/2003	6.73[A]
1/20/2003	6.19[A]
1/21/2003	5.81[A]
1/22/2003	5.57[A]
1/23/2003	5.56[A]
1/24/2003	5.50[A]
1/25/2003	5.29[A]
1/26/2003	5.03[A]
1/27/2003	4.92[A]
1/28/2003	4.88[A]
1/29/2003	4.78[A]
1/30/2003	4.71[A]
1/31/2003	4.82[A]

Date	Gage height (ft)
2/1/2003	4.76[A]
2/2/2003	4.68[A]
2/3/2003	4.62[A]
2/4/2003	4.51[A]
2/5/2003	4.61[A]
2/6/2003	4.97[A]
2/7/2003	5.82[A]
2/8/2003	6.39[A]
2/9/2003	6.37[A]
2/10/2003	6.63[A]
2/11/2003	7.15[A]
2/12/2003	7.28[A]
2/13/2003	7.09[A]
2/14/2003	7.00[A]
2/15/2003	8.49[A]
2/16/2003	10.94[A]
2/17/2003	11.51[A]
2/18/2003	12.05[A]
2/19/2003	12.14[A]
2/20/2003	11.89[A]
2/21/2003	12.59[A]
2/22/2003	14.35[A]
2/23/2003	16.20[A]
2/24/2003	17.24[A]
2/25/2003	17.43[A]
2/26/2003	17.34[A]
2/27/2003	17.34[A]
2/28/2003	17.45[A]

Date	Gage height (ft)
3/1/2003	17.48[A]
3/2/2003	17.26[A]
3/3/2003	16.83[A]
3/4/2003	16.29[A]
3/5/2003	15.77[A]
3/6/2003	[P]
3/7/2003	[P]
3/8/2003	[P]
3/9/2003	[P]
3/10/2003	[P]
3/11/2003	[P]
3/12/2003	[P]
3/13/2003	[P]
3/14/2003	[P]
3/15/2003	[P]
3/16/2003	[P]
3/17/2003	[P]
3/18/2003	[P]
3/19/2003	[P]
3/20/2003	[P]
3/21/2003	[P]
3/22/2003	[P]
3/23/2003	[P]
3/24/2003	[P]
3/25/2003	[P]
3/26/2003	[P]
3/27/2003	[P]
3/28/2003	[P]
3/29/2003	[P]
3/30/2003	[P]
3/31/2003	[P]

Date	Gage height (ft)
4/1/2003	9.70[A]
4/2/2003	9.01[A]
4/3/2003	8.29[A]
4/4/2003	7.71[A]
4/5/2003	7.32[A]
4/6/2003	7.67[A]
4/7/2003	9.11[A]
4/8/2003	8.91[A]
4/9/2003	8.72[A]
4/10/2003	8.33[A]
4/11/2003	7.48[A]
4/12/2003	6.59[A]
4/13/2003	6.05[A]
4/14/2003	5.82[A]
4/15/2003	5.74[A]
4/16/2003	5.54[A]
4/17/2003	5.29[A]
4/18/2003	5.31[A]
4/19/2003	5.32[A]
4/20/2003	5.20[A]
4/21/2003	5.13[A]
4/22/2003	5.12[A]
4/23/2003	5.11[A]
4/24/2003	5.17[A]
4/25/2003	5.20[A]
4/26/2003	5.16[A]
4/27/2003	5.11[A]
4/28/2003	5.06[A]
4/29/2003	4.86[A]
4/30/2003	4.76[A]

Date	Gage height (ft)
5/1/2003	4.74[A]
5/2/2003	4.86[A]
5/3/2003	4.91[A]
5/4/2003	4.95[A]
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5/6/2003	4.91[A]
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5/8/2003	9.39[A]
5/9/2003	8.31[A]
5/10/2003	6.60[A]
5/11/2003	5.28[A]
5/12/2003	4.65[A]
5/13/2003	4.33[A]
5/14/2003	5.69[A]
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5/21/2003	11.58[A]
5/22/2003	10.85[A]
5/23/2003	10.06[A]
5/24/2003	9.43[A]
5/25/2003	8.92[A]
5/26/2003	8.42[A]
5/27/2003	7.90[A]
5/28/2003	7.25[A]
5/29/2003	6.60[A]
5/30/2003	6.03[A]
5/31/2003	5.50[A]

Date	Gage height (ft)
6/1/2003	5.02[A]
6/2/2003	4.75[A]
6/3/2003	4.34[A]
6/4/2003	4.10[A]
6/5/2003	4.01[A]
6/6/2003	4.14[A]
6/7/2003	4.19[A]
6/8/2003	4.14[A]
6/9/2003	4.10[A]
6/10/2003	4.09[A]
6/11/2003	4.06[A]
6/12/2003	4.04[A]
6/13/2003	4.06[A]
6/14/2003	4.07[A]
6/15/2003	3.90[A]
6/16/2003	3.87[A]
6/17/2003	3.94[A]
6/18/2003	4.04[A]
6/19/2003	4.09[A]
6/20/2003	4.42[A]
6/21/2003	4.80[A]
6/22/2003	5.07[A]
6/23/2003	5.26[A]
6/24/2003	5.63[A]
6/25/2003	5.88[A]
6/26/2003	6.17[A]
6/27/2003	6.49[A]
6/28/2003	6.73[A]
6/29/2003	6.66[A]
6/30/2003	6.29[A]

Date	Gage height (ft)
7/1/2003	5.83[A]
7/2/2003	5.56[A]
7/3/2003	5.44[A]
7/4/2003	5.44[A]
7/5/2003	5.49[A]
7/6/2003	5.80[A]
7/7/2003	6.43[A]
7/8/2003	6.04[A]
7/9/2003	5.54[A]
7/10/2003	5.26[A]
7/11/2003	5.17[A]
7/12/2003	5.33[A]
7/13/2003	5.55[A]
7/14/2003	5.62[A]
7/15/2003	5.46[A]
7/16/2003	5.07[A]
7/17/2003	4.72[A]
7/18/2003	4.54[A]
7/19/2003	4.32[A]
7/20/2003	4.12[A]
7/21/2003	3.97[A]
7/22/2003	3.86[A]
7/23/2003	3.78[A]
7/24/2003	3.71[A]
7/25/2003	3.65[A]
7/26/2003	3.60[A]
7/27/2003	3.63[A]
7/28/2003	3.60[A]
7/29/2003	3.53[A]
7/30/2003	3.50[A]
7/31/2003	3.98[A]

Date	Gage height (ft)
8/1/2003	3.85[A]
8/2/2003	3.66[A]
8/3/2003	3.56[A]
8/4/2003	3.50[A]
8/5/2003	3.45[A]
8/6/2003	3.41[A]
8/7/2003	3.39[A]
8/8/2003	3.44[A]
8/9/2003	3.40[A]
8/10/2003	3.33[A]
8/11/2003	3.37[A]
8/12/2003	3.73[A]
8/13/2003	5.11[A]
8/14/2003	4.46[A]
8/15/2003	3.40[A]
8/16/2003	2.97[A]
8/17/2003	2.73[A]
8/18/2003	2.63[A]
8/19/2003	2.57[A]
8/20/2003	2.54[A]
8/21/2003	2.55[A]
8/22/2003	2.57[A]
8/23/2003	2.51[A]
8/24/2003	2.51[A]
8/25/2003	2.49[A]
8/26/2003	2.49[A]
8/27/2003	2.47[A]
8/28/2003	2.53[A]
8/29/2003	2.55[A]
8/30/2003	2.55[A]
8/31/2003	2.64[A]

Date	Gage height (ft)
9/1/2003	2.69[A]
9/2/2003	2.73[A]
9/3/2003	2.70[A]
9/4/2003	2.65[A]
9/5/2003	2.61[A]
9/6/2003	2.57[A]
9/7/2003	2.54[A]
9/8/2003	2.52[A]
9/9/2003	2.51[A]
9/10/2003	2.52[A]
9/11/2003	2.52[A]
9/12/2003	2.62[A]
9/13/2003	3.18[A]
9/14/2003	3.04[A]
9/15/2003	2.80[A]
9/16/2003	2.65[A]
9/17/2003	2.59[A]
9/18/2003	2.57[A]
9/19/2003	2.56[A]
9/20/2003	2.56[A]
9/21/2003	2.61[A]
9/22/2003	2.86[A]
9/23/2003	2.82[A]
9/24/2003	2.69[A]
9/25/2003	2.63[A]
9/26/2003	2.59[A]
9/27/2003	2.58[A]
9/28/2003	2.55[A]
9/29/2003	2.54[A]
9/30/2003	2.51[A]

Preview Only

October 2001- September 2002

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/2001	4.34[A]
10/2/2001	4.32[A]
10/3/2001	4.29[A]
10/4/2001	4.26[A]
10/5/2001	4.27[A]
10/6/2001	4.42[A]
10/7/2001	4.39[A]
10/8/2001	4.30[A]
10/9/2001	4.23[A]
10/10/2001	4.21[A]
10/11/2001	6.23[A]
10/12/2001	13.18[A]
10/13/2001	16.57[A]
10/14/2001	18.21[A]
10/15/2001	18.89[A]
10/16/2001	18.84[A]
10/17/2001	18.76[A]
10/18/2001	18.42[A]
10/19/2001	17.76[A]
10/20/2001	17.01[A]
10/21/2001	16.30[A]
10/22/2001	15.65[A]
10/23/2001	15.00[A]
10/24/2001	14.30[A]
10/25/2001	13.50[A]
10/26/2001	12.69[A]
10/27/2001	11.92[A]
10/28/2001	11.06[A]
10/29/2001	10.16[A]
10/30/2001	9.32[A]
10/31/2001	8.70[A]

Date	Gage height (ft)
11/1/2001	8.36[A]
11/2/2001	8.14[A]
11/3/2001	7.97[A]
11/4/2001	7.87[A]
11/5/2001	7.78[A]
11/6/2001	7.81[A]
11/7/2001	8.04[A]
11/8/2001	8.18[A]
11/9/2001	8.19[A]
11/10/2001	8.14[A]
11/11/2001	8.07[A]
11/12/2001	7.99[A]
11/13/2001	7.91[A]
11/14/2001	7.82[A]
11/15/2001	7.71[A]
11/16/2001	7.61[A]
11/17/2001	7.47[A]
11/18/2001	6.54[A]
11/19/2001	4.55[A]
11/20/2001	3.46[A]
11/21/2001	3.12[A]
11/22/2001	3.07[A]
11/23/2001	3.09[A]
11/24/2001	3.15[A]
11/25/2001	3.13[A]
11/26/2001	3.16[A]
11/27/2001	3.99[A]
11/28/2001	4.42[A]
11/29/2001	7.21[A]
11/30/2001	7.92[A]

Date	Gage height (ft)
12/1/2001	7.55[A]
12/2/2001	7.04[A]
12/3/2001	6.49[A]
12/4/2001	5.99[A]
12/5/2001	5.69[A]
12/6/2001	5.71[A]
12/7/2001	6.01[A]
12/8/2001	6.87[A]
12/9/2001	8.31[A]
12/10/2001	9.87[A]
12/11/2001	11.05[A]
12/12/2001	13.14[A]
12/13/2001	14.89[A]
12/14/2001	16.20[A]
12/15/2001	16.87[A]
12/16/2001	16.98[A]
12/17/2001	17.81[A]
12/18/2001	18.85[A]
12/19/2001	19.27[A]
12/20/2001	19.24[A]
12/21/2001	19.21[A]
12/22/2001	19.11[A]
12/23/2001	18.67[A]
12/24/2001	17.99[A]
12/25/2001	17.21[A]
12/26/2001	16.47[A]
12/27/2001	15.81[A]
12/28/2001	15.20[A]
12/29/2001	14.58[A]
12/30/2001	13.96[A]
12/31/2001	13.32[A]

Date	Gage height (ft)
1/1/2002	12.71[A]
1/2/2002	12.12[A]
1/3/2002	11.52[A]
1/4/2002	10.94[A]
1/5/2002	10.53[A]
1/6/2002	10.50[A]
1/7/2002	10.51[A]
1/8/2002	10.53[A]
1/9/2002	10.43[A]
1/10/2002	10.18[A]
1/11/2002	9.88[A]
1/12/2002	9.60[A]
1/13/2002	9.36[A]
1/14/2002	9.18[A]
1/15/2002	9.02[A]
1/16/2002	8.90[A]
1/17/2002	8.82[A]
1/18/2002	8.80[A]
1/19/2002	9.05[A]
1/20/2002	9.25[A]
1/21/2002	9.39[A]
1/22/2002	9.38[A]
1/23/2002	9.23[A]
1/24/2002	9.21[A]
1/25/2002	10.01[A]
1/26/2002	10.44[A]
1/27/2002	10.44[A]
1/28/2002	10.15[A]
1/29/2002	9.75[A]
1/30/2002	9.37[A]
1/31/2002	9.10[A]

Date	Gage height (ft)
2/1/2002	8.92[A]
2/2/2002	8.79[A]
2/3/2002	8.81[A]
2/4/2002	8.85[A]
2/5/2002	8.93[A]
2/6/2002	9.72[A]
2/7/2002	10.27[A]
2/8/2002	10.71[A]
2/9/2002	10.94[A]
2/10/2002	10.89[A]
2/11/2002	10.69[A]
2/12/2002	10.50[A]
2/13/2002	10.26[A]
2/14/2002	10.0[A]
2/15/2002	9.78[A]
2/16/2002	9.61[A]
2/17/2002	9.49[A]
2/18/2002	9.40[A]
2/19/2002	9.62[A]
2/20/2002	10.79[A]
2/21/2002	11.35[A]
2/22/2002	11.84[A]
2/23/2002	11.96[A]
2/24/2002	11.70[A]
2/25/2002	11.19[A]
2/26/2002	10.62[A]
2/27/2002	10.21[A]
2/28/2002	10.02[A]

Date	Gage height (ft)
3/1/2002	9.85[A]
3/2/2002	9.75[A]
3/3/2002	9.71[A]
3/4/2002	9.75[A]
3/5/2002	9.63[A]
3/6/2002	9.25[A]
3/7/2002	8.87[A]
3/8/2002	8.62[A]
3/9/2002	8.53[A]
3/10/2002	8.34[A]
3/11/2002	8.13[A]
3/12/2002	9.14[A]
3/13/2002	9.84[A]
3/14/2002	10.21[A]
3/15/2002	10.32[A]
3/16/2002	10.35[A]
3/17/2002	10.54[A]
3/18/2002	12.79[A]
3/19/2002	15.01[A]
3/20/2002	16.63[A]
3/21/2002	17.59[A]
3/22/2002	18.42[A]
3/23/2002	19.01[A]
3/24/2002	19.13[A]
3/25/2002	18.85[A]
3/26/2002	18.38[A]
3/27/2002	17.65[A]
3/28/2002	16.83[A]
3/29/2002	16.06[A]
3/30/2002	15.42[A]
3/31/2002	15.33[A]

Date	Gage height (ft)
4/1/2002	15.19[A]
4/2/2002	15.03[A]
4/3/2002	14.72[A]
4/4/2002	14.30[A]
4/5/2002	13.88[A]
4/6/2002	13.75[A]
4/7/2002	13.94[A]
4/8/2002	14.48[A]
4/9/2002	14.85[A]
4/10/2002	15.03[A]
4/11/2002	14.94[A]
4/12/2002	14.61[A]
4/13/2002	14.12[A]
4/14/2002	13.52[A]
4/15/2002	12.95[A]
4/16/2002	12.52[A]
4/17/2002	12.21[A]
4/18/2002	11.94[A]
4/19/2002	11.72[A]
4/20/2002	11.43[A]
4/21/2002	11.02[A]
4/22/2002	10.50[A]
4/23/2002	9.96[A]
4/24/2002	9.43[A]
4/25/2002	8.91[A]
4/26/2002	8.51[A]
4/27/2002	8.28[A]
4/28/2002	8.09[A]
4/29/2002	7.88[A]
4/30/2002	7.74[A]

Date	Gage height (ft)
5/1/2002	7.64[A]
5/2/2002	7.56[A]
5/3/2002	7.66[A]
5/4/2002	7.80[A]
5/5/2002	7.88[A]
5/6/2002	7.86[A]
5/7/2002	7.82[A]
5/8/2002	7.61[A]
5/9/2002	7.21[A]
5/10/2002	7.12[A]
5/11/2002	7.47[A]
5/12/2002	8.24[A]
5/13/2002	9.41[A]
5/14/2002	10.73[A]
5/15/2002	13.57[A]
5/16/2002	15.55[A]
5/17/2002	16.11[A]
5/18/2002	16.15[A]
5/19/2002	15.85[A]
5/20/2002	15.32[A]
5/21/2002	14.65[A]
5/22/2002	13.87[A]
5/23/2002	12.97[A]
5/24/2002	12.03[A]
5/25/2002	11.07[A]
5/26/2002	10.18[A]
5/27/2002	9.38[A]
5/28/2002	8.63[A]
5/29/2002	8.09[A]
5/30/2002	7.94[A]
5/31/2002	7.80[A]

Date	Gage height (ft)
6/1/2002	7.65[A]
6/2/2002	7.35[A]
6/3/2002	7.13[A]
6/4/2002	6.98[A]
6/5/2002	6.89[A]
6/6/2002	6.83[A]
6/7/2002	6.89[A]
6/8/2002	6.86[A]
6/9/2002	6.80[A]
6/10/2002	6.79[A]
6/11/2002	6.75[A]
6/12/2002	6.64[A]
6/13/2002	6.55[A]
6/14/2002	6.48[A]
6/15/2002	6.40[A]
6/16/2002	6.32[A]
6/17/2002	6.17[A]
6/18/2002	6.00[A]
6/19/2002	5.89[A]
6/20/2002	5.01[A]
6/21/2002	3.79[A]
6/22/2002	3.39[A]
6/23/2002	3.28[A]
6/24/2002	3.23[A]
6/25/2002	3.38[A]
6/26/2002	3.51[A]
6/27/2002	3.46[A]
6/28/2002	3.45[A]
6/29/2002	3.35[A]
6/30/2002	3.10[A]

Date	Gage height (ft)
7/1/2002	3.07[A]
7/2/2002	3.14[A]
7/3/2002	3.48[A]
7/4/2002	3.34[A]
7/5/2002	3.06[A]
7/6/2002	2.91[A]
7/7/2002	2.83[A]
7/8/2002	2.80[A]
7/9/2002	2.76[A]
7/10/2002	2.74[A]
7/11/2002	2.73[A]
7/12/2002	2.73[A]
7/13/2002	2.75[A]
7/14/2002	2.77[A]
7/15/2002	2.79[A]
7/16/2002	3.12[A]
7/17/2002	3.22[A]
7/18/2002	3.47[A]
7/19/2002	3.87[A]
7/20/2002	3.36[A]
7/21/2002	2.97[A]
7/22/2002	2.83[A]
7/23/2002	2.77[A]
7/24/2002	2.75[A]
7/25/2002	2.75[A]
7/26/2002	2.75[A]
7/27/2002	2.78[A]
7/28/2002	2.88[A]
7/29/2002	2.77[A]
7/30/2002	2.73[A]
7/31/2002	2.70[A]

Date	Gage height (ft)
8/1/2002	2.68[A]
8/2/2002	2.68[A]
8/3/2002	2.67[A]
8/4/2002	2.67[A]
8/5/2002	2.66[A]
8/6/2002	2.65[A]
8/7/2002	2.65[A]
8/8/2002	2.65[A]
8/9/2002	2.65[A]
8/10/2002	2.64[A]
8/11/2002	2.64[A]
8/12/2002	2.64[A]
8/13/2002	2.65[A]
8/14/2002	2.71[A]
8/15/2002	2.78[A]
8/16/2002	3.22[A]
8/17/2002	3.86[A]
8/18/2002	3.29[A]
8/19/2002	2.97[A]
8/20/2002	2.85[A]
8/21/2002	2.81[A]
8/22/2002	2.78[A]
8/23/2002	2.75[A]
8/24/2002	2.71[A]
8/25/2002	2.69[A]
8/26/2002	2.67[A]
8/27/2002	2.66[A]
8/28/2002	2.76[A]
8/29/2002	3.19[A]
8/30/2002	3.35[A]
8/31/2002	3.38[A]

Date	Gage height (ft)
9/1/2002	3.36[A]
9/2/2002	3.33[A]
9/3/2002	3.30[A]
9/4/2002	3.27[A]
9/5/2002	3.24[A]
9/6/2002	3.21[A]
9/7/2002	3.61[A]
9/8/2002	4.51[A]
9/9/2002	4.86[A]
9/10/2002	4.92[A]
9/11/2002	4.88[A]
9/12/2002	4.83[A]
9/13/2002	4.78[A]
9/14/2002	4.72[A]
9/15/2002	4.68[A]
9/16/2002	4.64[A]
9/17/2002	4.62[A]
9/18/2002	4.59[A]
9/19/2002	4.54[A]
9/20/2002	4.60[A]
9/21/2002	4.63[A]
9/22/2002	4.56[A]
9/23/2002	4.47[A]
9/24/2002	4.40[A]
9/25/2002	4.35[A]
9/26/2002	4.30[A]
9/27/2002	4.26[A]
9/28/2002	4.23[A]
9/29/2002	4.17[A]
9/30/2002	4.12[A]

Preview Only

October 2000- September 2001

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/2000	3.18[A]
10/2/2000	3.18[A]
10/3/2000	3.18[A]
10/4/2000	3.19[A]
10/5/2000	3.20[A]
10/6/2000	3.53[A]
10/7/2000	3.53[A]
10/8/2000	3.43[A]
10/9/2000	3.28[A]
10/10/2000	3.23[A]
10/11/2000	3.22[A]
10/12/2000	3.22[A]
10/13/2000	3.21[A]
10/14/2000	3.21[A]
10/15/2000	3.20[A]
10/16/2000	3.23[A]
10/17/2000	3.28[A]
10/18/2000	3.28[A]
10/19/2000	3.24[A]
10/20/2000	3.23[A]
10/21/2000	3.25[A]
10/22/2000	3.26[A]
10/23/2000	3.28[A]
10/24/2000	3.28[A]
10/25/2000	3.29[A]
10/26/2000	3.31[A]
10/27/2000	3.31[A]
10/28/2000	3.33[A]
10/29/2000	3.33[A]
10/30/2000	3.34[A]
10/31/2000	3.36[A]

Date	Gage height (ft)
11/1/2000	3.37[A]
11/2/2000	3.52[A]
11/3/2000	3.74[A]
11/4/2000	4.16[A]
11/5/2000	4.26[A]
11/6/2000	4.22[A]
11/7/2000	4.08[A]
11/8/2000	4.89[A]
11/9/2000	6.84[A]
11/10/2000	7.95[A]
11/11/2000	8.09[A]
11/12/2000	7.23[A]
11/13/2000	6.04[A]
11/14/2000	5.51[A]
11/15/2000	5.58[A]
11/16/2000	5.37[A]
11/17/2000	5.02[A]
11/18/2000	4.82[A]
11/19/2000	4.76[A]
11/20/2000	4.57[A]
11/21/2000	4.31[A]
11/22/2000	4.07[A]
11/23/2000	4.50[A]
11/24/2000	11.45[A]
11/25/2000	14.75[A]
11/26/2000	16.03[A]
11/27/2000	15.93[A]
11/28/2000	15.45[A]
11/29/2000	14.93[A]
11/30/2000	14.49[A]

Date	Gage height (ft)
12/1/2000	14.30[A]
12/2/2000	14.23[A]
12/3/2000	14.09[A]
12/4/2000	13.80[A]
12/5/2000	13.30[A]
12/6/2000	12.67[A]
12/7/2000	11.92[A]
12/8/2000	11.12[A]
12/9/2000	10.26[A]
12/10/2000	9.36[A]
12/11/2000	8.48[A]
12/12/2000	7.68[A]
12/13/2000	7.80[A]
12/14/2000	8.72[A]
12/15/2000	9.51[A]
12/16/2000	11.01[A]
12/17/2000	11.92[A]
12/18/2000	12.75[A]
12/19/2000	13.04[A]
12/20/2000	12.92[A]
12/21/2000	12.55[A]
12/22/2000	11.99[A]
12/23/2000	11.49[A]
12/24/2000	11.12[A]
12/25/2000	10.96[A]
12/26/2000	11.24[A]
12/27/2000	14.18[A]
12/28/2000	16.68[A]
12/29/2000	18.48[A]
12/30/2000	18.64[A]
12/31/2000	17.96[A]

Date	Gage height (ft)
1/1/2001	17.25[A]
1/2/2001	16.92[A]
1/3/2001	16.84[A]
1/4/2001	16.70[A]
1/5/2001	16.40[A]
1/6/2001	16.00[A]
1/7/2001	15.55[A]
1/8/2001	15.05[A]
1/9/2001	14.52[A]
1/10/2001	13.95[A]
1/11/2001	13.38[A]
1/12/2001	12.80[A]
1/13/2001	12.33[A]
1/14/2001	11.97[A]
1/15/2001	11.47[A]
1/16/2001	11.19[A]
1/17/2001	12.35[A]
1/18/2001	14.33[A]
1/19/2001	16.48[A]
1/20/2001	17.64[A]
1/21/2001	17.61[A]
1/22/2001	17.13[A]
1/23/2001	16.84[A]
1/24/2001	16.77[A]
1/25/2001	16.63[A]
1/26/2001	16.32[A]
1/27/2001	15.90[A]
1/28/2001	15.44[A]
1/29/2001	15.09[A]
1/30/2001	14.81[A]
1/31/2001	14.60[A]

Date	Gage height (ft)
2/1/2001	14.39[A]
2/2/2001	14.07[A]
2/3/2001	13.62[A]
2/4/2001	13.11[A]
2/5/2001	12.56[A]
2/6/2001	12.04[A]
2/7/2001	11.54[A]
2/8/2001	11.07[A]
2/9/2001	10.72[A]
2/10/2001	10.43[A]
2/11/2001	10.35[A]
2/12/2001	11.20[A]
2/13/2001	12.05[A]
2/14/2001	12.89[A]
2/15/2001	13.88[A]
2/16/2001	16.04[A]
2/17/2001	19.06[A]
2/18/2001	20.48[A]
2/19/2001	20.11[A]
2/20/2001	19.82[A]
2/21/2001	19.76[A]
2/22/2001	19.44[A]
2/23/2001	18.76[A]
2/24/2001	17.99[A]
2/25/2001	17.28[A]
2/26/2001	16.75[A]
2/27/2001	16.71[A]
2/28/2001	17.87[A]

Date	Gage height (ft)
3/1/2001	19.98[A]
3/2/2001	20.96[A]
3/3/2001	21.26[A]
3/4/2001	21.67[A]
3/5/2001	22.09[A]
3/6/2001	22.28[A]
3/7/2001	22.33[A]
3/8/2001	22.31[A]
3/9/2001	22.32[A]
3/10/2001	22.28[A]
3/11/2001	22.20[A]
3/12/2001	22.36[A]
3/13/2001	22.94[A]
3/14/2001	P
3/15/2001	P
3/16/2001	23.86[A]
3/17/2001	23.90[A]
3/18/2001	23.85[A]
3/19/2001	23.77[A]
3/20/2001	23.64[A]
3/21/2001	23.49[A]
3/22/2001	23.30[A]
3/23/2001	23.10[A]
3/24/2001	22.94[A]
3/25/2001	22.79[A]
3/26/2001	22.63[A]
3/27/2001	22.44[A]
3/28/2001	22.27[A]
3/29/2001	22.10[A]
3/30/2001	21.93[A]
3/31/2001	21.73[A]

Date	Gage height (ft)
4/1/2001	21.51[A]
4/2/2001	21.26[A]
4/3/2001	20.99[A]
4/4/2001	20.70[A]
4/5/2001	20.42[A]
4/6/2001	20.12[A]
4/7/2001	19.81[A]
4/8/2001	19.49[A]
4/9/2001	19.16[A]
4/10/2001	18.83[A]
4/11/2001	18.49[A]
4/12/2001	18.13[A]
4/13/2001	17.81[A]
4/14/2001	17.45[A]
4/15/2001	17.14[A]
4/16/2001	16.88[A]
4/17/2001	16.68[A]
4/18/2001	16.60[A]
4/19/2001	16.53[A]
4/20/2001	16.42[A]
4/21/2001	16.29[A]
4/22/2001	16.16[A]
4/23/2001	16.01[A]
4/24/2001	15.80[A]
4/25/2001	15.55[A]
4/26/2001	15.26[A]
4/27/2001	14.92[A]
4/28/2001	14.54[A]
4/29/2001	14.12[A]
4/30/2001	13.66[A]

Date	Gage height (ft)
5/1/2001	13.16[A]
5/2/2001	12.64[A]
5/3/2001	12.11[A]
5/4/2001	11.59[A]
5/5/2001	11.09[A]
5/6/2001	10.59[A]
5/7/2001	10.32[A]
5/8/2001	10.18[A]
5/9/2001	10.07[A]
5/10/2001	10.01[A]
5/11/2001	9.86[A]
5/12/2001	9.73[A]
5/13/2001	9.70[A]
5/14/2001	9.91[A]
5/15/2001	10.40[A]
5/16/2001	10.89[A]
5/17/2001	11.14[A]
5/18/2001	11.11[A]
5/19/2001	10.84[A]
5/20/2001	10.35[A]
5/21/2001	9.69[A]
5/22/2001	8.83[A]
5/23/2001	8.02[A]
5/24/2001	7.24[A]
5/25/2001	6.49[A]
5/26/2001	5.96[A]
5/27/2001	5.58[A]
5/28/2001	5.36[A]
5/29/2001	5.29[A]
5/30/2001	5.27[A]
5/31/2001	6.16[A]

Date	Gage height (ft)
6/1/2001	6.64[A]
6/2/2001	6.90[A]
6/3/2001	7.11[A]
6/4/2001	7.41[A]
6/5/2001	7.70[A]
6/6/2001	8.03[A]
6/7/2001	8.30[A]
6/8/2001	8.56[A]
6/9/2001	9.10[A]
6/10/2001	9.56[A]
6/11/2001	9.76[A]
6/12/2001	9.65[A]
6/13/2001	9.29[A]
6/14/2001	8.68[A]
6/15/2001	8.20[A]
6/16/2001	7.71[A]
6/17/2001	7.44[A]
6/18/2001	7.00[A]
6/19/2001	6.47[A]
6/20/2001	5.96[A]
6/21/2001	5.60[A]
6/22/2001	5.44[A]
6/23/2001	5.36[A]
6/24/2001	5.29[A]
6/25/2001	5.18[A]
6/26/2001	5.10[A]
6/27/2001	5.05[A]
6/28/2001	5.04[A]
6/29/2001	5.07[A]
6/30/2001	5.11[A]

Date	Gage height (ft)
7/1/2001	5.12[A]
7/2/2001	5.13[A]
7/3/2001	5.17[A]
7/4/2001	5.31[A]
7/5/2001	5.58[A]
7/6/2001	5.91[A]
7/7/2001	6.17[A]
7/8/2001	6.28[A]
7/9/2001	6.23[A]
7/10/2001	6.03[A]
7/11/2001	5.77[A]
7/12/2001	5.45[A]
7/13/2001	5.05[A]
7/14/2001	4.84[A]
7/15/2001	4.76[A]
7/16/2001	4.69[A]
7/17/2001	4.63[A]
7/18/2001	4.57[A]
7/19/2001	4.51[A]
7/20/2001	4.47[A]
7/21/2001	4.43[A]
7/22/2001	4.38[A]
7/23/2001	4.34[A]
7/24/2001	4.51[A]
7/25/2001	4.43[A]
7/26/2001	4.34[A]
7/27/2001	4.32[A]
7/28/2001	4.33[A]
7/29/2001	4.38[A]
7/30/2001	4.29[A]
7/31/2001	4.32[A]

Date	Gage height (ft)
8/1/2001	4.23[A]
8/2/2001	4.01[A]
8/3/2001	3.94[A]
8/4/2001	3.90[A]
8/5/2001	3.86[A]
8/6/2001	3.82[A]
8/7/2001	3.79[A]
8/8/2001	3.75[A]
8/9/2001	3.71[A]
8/10/2001	3.66[A]
8/11/2001	3.62[A]
8/12/2001	3.67[A]
8/13/2001	3.73[A]
8/14/2001	3.68[A]
8/15/2001	3.60[A]
8/16/2001	3.53[A]
8/17/2001	3.49[A]
8/18/2001	3.56[A]
8/19/2001	3.63[A]
8/20/2001	3.57[A]
8/21/2001	3.49[A]
8/22/2001	3.43[A]
8/23/2001	3.38[A]
8/24/2001	3.34[A]
8/25/2001	3.30[A]
8/26/2001	3.27[A]
8/27/2001	3.25[A]
8/28/2001	3.25[A]
8/29/2001	3.36[A]
8/30/2001	3.42[A]
8/31/2001	3.37[A]

Date	Gage height (ft)
9/1/2001	3.67[A]
9/2/2001	4.83[A]
9/3/2001	5.07[A]
9/4/2001	4.80[A]
9/5/2001	4.83[A]
9/6/2001	4.38[A]
9/7/2001	3.90[A]
9/8/2001	3.66[A]
9/9/2001	3.92[A]
9/10/2001	5.62[A]
9/11/2001	5.92[A]
9/12/2001	4.85[A]
9/13/2001	4.10[A]
9/14/2001	3.85[A]
9/15/2001	3.75[A]
9/16/2001	3.69[A]
9/17/2001	3.65[A]
9/18/2001	3.63[A]
9/19/2001	3.73[A]
9/20/2001	3.84[A]
9/21/2001	3.79[A]
9/22/2001	4.67[A]
9/23/2001	5.57[A]
9/24/2001	5.07[A]
9/25/2001	4.43[A]
9/26/2001	3.97[A]
9/27/2001	3.74[A]
9/28/2001	3.63[A]
9/29/2001	3.99[A]
9/30/2001	4.29[A]

Preliminary

October 1999- September 2000

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/1999	3.17[A]
10/2/1999	3.20[A]
10/3/1999	4.29[A]
10/4/1999	5.77[A]
10/5/1999	6.32[A]
10/6/1999	6.52[A]
10/7/1999	6.65[A]
10/8/1999	6.75[A]
10/9/1999	6.76[A]
10/10/1999	6.71[A]
10/11/1999	6.62[A]
10/12/1999	6.52[A]
10/13/1999	6.43[A]
10/14/1999	6.35[A]
10/15/1999	6.34[A]
10/16/1999	6.78[A]
10/17/1999	7.16[A]
10/18/1999	7.32[A]
10/19/1999	7.34[A]
10/20/1999	7.29[A]
10/21/1999	7.20[A]
10/22/1999	7.09[A]
10/23/1999	6.90[A]
10/24/1999	5.70[A]
10/25/1999	3.94[A]
10/26/1999	3.29[A]
10/27/1999	3.17[A]
10/28/1999	3.17[A]
10/29/1999	3.15[A]
10/30/1999	3.13[A]
10/31/1999	3.32[A]

Date	Gage height (ft)
11/1/1999	3.49[A]
11/2/1999	3.40[A]
11/3/1999	3.30[A]
11/4/1999	3.26[A]
11/5/1999	3.31[A]
11/6/1999	3.33[A]
11/7/1999	3.37[A]
11/8/1999	3.40[A]
11/9/1999	3.34[A]
11/10/1999	3.33[A]
11/11/1999	3.34[A]
11/12/1999	3.35[A]
11/13/1999	3.35[A]
11/14/1999	3.38[A]
11/15/1999	3.42[A]
11/16/1999	3.37[A]
11/17/1999	3.36[A]
11/18/1999	3.36[A]
11/19/1999	3.36[A]
11/20/1999	3.49[A]
11/21/1999	3.54[A]
11/22/1999	3.46[A]
11/23/1999	3.47[A]
11/24/1999	3.52[A]
11/25/1999	3.51[A]
11/26/1999	3.47[A]
11/27/1999	3.46[A]
11/28/1999	3.46[A]
11/29/1999	3.45[A]
11/30/1999	3.50[A]

Date	Gage height (ft)
12/1/1999	3.49[A]
12/2/1999	3.48[A]
12/3/1999	3.73[A]
12/4/1999	3.76[A]
12/5/1999	4.08[A]
12/6/1999	4.07[A]
12/7/1999	3.75[A]
12/8/1999	3.60[A]
12/9/1999	3.52[A]
12/10/1999	3.53[A]
12/11/1999	3.53[A]
12/12/1999	3.72[A]
12/13/1999	4.31[A]
12/14/1999	4.27[A]
12/15/1999	3.90[A]
12/16/1999	3.64[A]
12/17/1999	3.52[A]
12/18/1999	3.47[A]
12/19/1999	3.44[A]
12/20/1999	3.42[A]
12/21/1999	3.41[A]
12/22/1999	3.38[A]
12/23/1999	3.35[A]
12/24/1999	3.33[A]
12/25/1999	3.30[A]
12/26/1999	3.30[A]
12/27/1999	3.29[A]
12/28/1999	3.28[A]
12/29/1999	3.26[A]
12/30/1999	3.26[A]
12/31/1999	3.26[A]

Date	Gage height (ft)
1/1/2000	3.24[A]
1/2/2000	3.23[A]
1/3/2000	3.25[A]
1/4/2000	3.27[A]
1/5/2000	3.26[A]
1/6/2000	3.23[A]
1/7/2000	3.23[A]
1/8/2000	3.50[A]
1/9/2000	3.99[A]
1/10/2000	4.01[A]
1/11/2000	3.71[A]
1/12/2000	3.50[A]
1/13/2000	3.39[A]
1/14/2000	3.33[A]
1/15/2000	3.29[A]
1/16/2000	3.26[A]
1/17/2000	3.25[A]
1/18/2000	3.22[A]
1/19/2000	3.22[A]
1/20/2000	3.22[A]
1/21/2000	3.19[A]
1/22/2000	3.15[A]
1/23/2000	3.14[A]
1/24/2000	3.13[A]
1/25/2000	3.12[A]
1/26/2000	3.12[A]
1/27/2000	3.24[A]
1/28/2000	3.64[A]
1/29/2000	3.77[A]
1/30/2000	3.66[A]
1/31/2000	3.65[A]

Date	Gage height (ft)
2/1/2000	3.71[A]
2/2/2000	3.79[A]
2/3/2000	3.83[A]
2/4/2000	3.76[A]
2/5/2000	3.62[A]
2/6/2000	3.50[A]
2/7/2000	3.39[A]
2/8/2000	3.32[A]
2/9/2000	3.28[A]
2/10/2000	3.25[A]
2/11/2000	3.21[A]
2/12/2000	3.18[A]
2/13/2000	3.16[A]
2/14/2000	3.17[A]
2/15/2000	3.20[A]
2/16/2000	3.21[A]
2/17/2000	3.19[A]
2/18/2000	3.21[A]
2/19/2000	3.29[A]
2/20/2000	3.33[A]
2/21/2000	3.29[A]
2/22/2000	3.24[A]
2/23/2000	3.23[A]
2/24/2000	3.22[A]
2/25/2000	3.23[A]
2/26/2000	4.30[A]
2/27/2000	6.55[A]
2/28/2000	6.89[A]
2/29/2000	6.11[A]

Date	Gage height (ft)
3/1/2000	4.88[A]
3/2/2000	4.13[A]
3/3/2000	3.90[A]
3/4/2000	4.32[A]
3/5/2000	4.63[A]
3/6/2000	4.43[A]
3/7/2000	4.12[A]
3/8/2000	3.87[A]
3/9/2000	3.68[A]
3/10/2000	3.73[A]
3/11/2000	4.63[A]
3/12/2000	4.69[A]
3/13/2000	4.48[A]
3/14/2000	4.13[A]
3/15/2000	4.60[A]
3/16/2000	8.42[A]
3/17/2000	9.05[A]
3/18/2000	9.15[A]
3/19/2000	8.71[A]
3/20/2000	7.41[A]
3/21/2000	6.57[A]
3/22/2000	6.08[A]
3/23/2000	5.54[A]
3/24/2000	5.06[A]
3/25/2000	4.80[A]
3/26/2000	4.74[A]
3/27/2000	5.40[A]
3/28/2000	6.05[A]
3/29/2000	7.52[A]
3/30/2000	8.69[A]
3/31/2000	8.81[A]

Date	Gage height (ft)
4/1/2000	8.37[A]
4/2/2000	8.16[A]
4/3/2000	8.67[A]
4/4/2000	9.81[A]
4/5/2000	10.24[A]
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4/7/2000	9.04[A]
4/8/2000	7.26[A]
4/9/2000	5.66[A]
4/10/2000	4.97[A]
4/11/2000	4.58[A]
4/12/2000	4.68[A]
4/13/2000	5.21[A]
4/14/2000	5.66[A]
4/15/2000	5.52[A]
4/16/2000	5.08[A]
4/17/2000	4.68[A]
4/18/2000	4.42[A]
4/19/2000	4.13[A]
4/20/2000	3.90[A]
4/21/2000	3.71[A]
4/22/2000	3.61[A]
4/23/2000	3.85[A]
4/24/2000	5.61[A]
4/25/2000	5.13[A]
4/26/2000	5.16[A]
4/27/2000	5.17[A]
4/28/2000	5.16[A]
4/29/2000	4.93[A]
4/30/2000	4.74[A]

Date	Gage height (ft)
5/1/2000	4.51[A]
5/2/2000	4.32[A]
5/3/2000	4.22[A]
5/4/2000	5.56[A]
5/5/2000	7.55[A]
5/6/2000	8.92[A]
5/7/2000	11.82[A]
5/8/2000	14.80[A]
5/9/2000	15.28[A]
5/10/2000	15.17[A]
5/11/2000	14.70[A]
5/12/2000	14.01[A]
5/13/2000	13.50[A]
5/14/2000	14.08[A]
5/15/2000	14.67[A]
5/16/2000	14.39[A]
5/17/2000	13.57[A]
5/18/2000	12.38[A]
5/19/2000	11.15[A]
5/20/2000	11.69[A]
5/21/2000	14.64[A]
5/22/2000	15.67[A]
5/23/2000	15.65[A]
5/24/2000	15.21[A]
5/25/2000	14.52[A]
5/26/2000	13.65[A]
5/27/2000	12.71[A]
5/28/2000	11.97[A]
5/29/2000	11.16[A]
5/30/2000	10.76[A]
5/31/2000	10.28[A]

Date	Gage height (ft)
6/1/2000	9.27[A]
6/2/2000	8.01[A]
6/3/2000	6.92[A]
6/4/2000	6.31[A]
6/5/2000	6.23[A]
6/6/2000	6.46[A]
6/7/2000	6.81[A]
6/8/2000	5.96[A]
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6/10/2000	4.12[A]
6/11/2000	3.98[A]
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6/13/2000	3.94[A]
6/14/2000	4.09[A]
6/15/2000	3.93[A]
6/16/2000	3.73[A]
6/17/2000	3.60[A]
6/18/2000	3.58[A]
6/19/2000	3.76[A]
6/20/2000	4.00[A]
6/21/2000	4.48[A]
6/22/2000	5.68[A]
6/23/2000	7.13[A]
6/24/2000	8.23[A]
6/25/2000	8.94[A]
6/26/2000	9.35[A]
6/27/2000	9.55[A]
6/28/2000	9.71[A]
6/29/2000	9.69[A]
6/30/2000	9.45[A]

Date	Gage height (ft)
7/1/2000	9.21[A]
7/2/2000	8.81[A]
7/3/2000	8.20[A]
7/4/2000	7.63[A]
7/5/2000	7.26[A]
7/6/2000	7.08[A]
7/7/2000	6.83[A]
7/8/2000	6.42[A]
7/9/2000	5.94[A]
7/10/2000	5.42[A]
7/11/2000	4.88[A]
7/12/2000	4.44[A]
7/13/2000	4.11[A]
7/14/2000	3.85[A]
7/15/2000	3.64[A]
7/16/2000	3.44[A]
7/17/2000	3.29[A]
7/18/2000	3.21[A]
7/19/2000	3.18[A]
7/20/2000	3.16[A]
7/21/2000	3.15[A]
7/22/2000	3.16[A]
7/23/2000	3.15[A]
7/24/2000	3.14[A]
7/25/2000	3.13[A]
7/26/2000	3.13[A]
7/27/2000	3.13[A]
7/28/2000	3.16[A]
7/29/2000	3.20[A]
7/30/2000	3.19[A]
7/31/2000	3.19[A]

Date	Gage height (ft)
8/1/2000	3.16[A]
8/2/2000	3.14[A]
8/3/2000	3.14[A]
8/4/2000	3.14[A]
8/5/2000	3.13[A]
8/6/2000	3.13[A]
8/7/2000	3.11[A]
8/8/2000	3.11[A]
8/9/2000	3.11[A]
8/10/2000	3.11[A]
8/11/2000	3.14[A]
8/12/2000	3.20[A]
8/13/2000	3.14[A]
8/14/2000	3.11[A]
8/15/2000	3.10[A]
8/16/2000	3.11[A]
8/17/2000	3.11[A]
8/18/2000	3.12[A]
8/19/2000	3.11[A]
8/20/2000	3.11[A]
8/21/2000	3.12[A]
8/22/2000	3.12[A]
8/23/2000	3.12[A]
8/24/2000	3.12[A]
8/25/2000	3.12[A]
8/26/2000	3.12[A]
8/27/2000	3.11[A]
8/28/2000	3.10[A]
8/29/2000	3.10[A]
8/30/2000	3.11[A]
8/31/2000	3.11[A]

Date	Gage height (ft)
9/1/2000	3.11[A]
9/2/2000	3.11[A]
9/3/2000	3.10[A]
9/4/2000	3.10[A]
9/5/2000	3.10[A]
9/6/2000	3.09[A]
9/7/2000	3.10[A]
9/8/2000	3.12[A]
9/9/2000	3.17[A]
9/10/2000	3.25[A]
9/11/2000	3.24[A]
9/12/2000	3.23[A]
9/13/2000	3.23[A]
9/14/2000	3.23[A]
9/15/2000	3.22[A]
9/16/2000	3.19[A]
9/17/2000	3.16[A]
9/18/2000	3.15[A]
9/19/2000	3.16[A]
9/20/2000	3.17[A]
9/21/2000	3.20[A]
9/22/2000	3.20[A]
9/23/2000	3.20[A]
9/24/2000	3.46[A]
9/25/2000	3.82[A]
9/26/2000	3.64[A]
9/27/2000	3.34[A]
9/28/2000	3.23[A]
9/29/2000	3.20[A]
9/30/2000	3.18[A]

Preview Only

October 1998- September 1999

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/1998	2.46[A]
10/2/1998	2.44[A]
10/3/1998	2.79[A]
10/4/1998	3.30[A]
10/5/1998	3.07[A]
10/6/1998	3.74[A]
10/7/1998	4.81[A]
10/8/1998	4.74[A]
10/9/1998	4.74[A]
10/10/1998	4.21[A]
10/11/1998	3.51[A]
10/12/1998	3.04[A]
10/13/1998	2.79[A]
10/14/1998	2.67[A]
10/15/1998	2.79[A]
10/16/1998	3.55[A]
10/17/1998	3.87[A]
10/18/1998	4.02[A]
10/19/1998	4.35[A]
10/20/1998	4.73[A]
10/21/1998	5.00[A]
10/22/1998	4.92[A]
10/23/1998	4.75[A]
10/24/1998	4.61[A]
10/25/1998	4.46[A]
10/26/1998	4.33[A]
10/27/1998	4.25[A]
10/28/1998	4.14[A]
10/29/1998	4.00[A]
10/30/1998	3.84[A]
10/31/1998	3.70[A]

Date	Gage height (ft)
11/1/1998	3.66[A]
11/2/1998	3.69[A]
11/3/1998	3.65[A]
11/4/1998	3.81[A]
11/5/1998	3.78[A]
11/6/1998	3.70[A]
11/7/1998	3.58[A]
11/8/1998	3.53[A]
11/9/1998	3.81[A]
11/10/1998	4.29[A]
11/11/1998	4.58[A]
11/12/1998	5.71[A]
11/13/1998	7.08[A]
11/14/1998	8.48[A]
11/15/1998	9.24[A]
11/16/1998	9.52[A]
11/17/1998	9.29[A]
11/18/1998	8.62[A]
11/19/1998	7.80[A]
11/20/1998	7.10[A]
11/21/1998	6.69[A]
11/22/1998	6.58[A]
11/23/1998	6.45[A]
11/24/1998	6.26[A]
11/25/1998	6.11[A]
11/26/1998	5.93[A]
11/27/1998	5.76[A]
11/28/1998	5.66[A]
11/29/1998	5.50[A]
11/30/1998	5.41[A]

Date	Gage height (ft)
12/1/1998	5.50[A]
12/2/1998	6.08[A]
12/3/1998	6.38[A]
12/4/1998	6.31[A]
12/5/1998	6.15[A]
12/6/1998	6.04[A]
12/7/1998	6.41[A]
12/8/1998	7.48[A]
12/9/1998	8.62[A]
12/10/1998	10.32[A]
12/11/1998	12.42[A]
12/12/1998	14.21[A]
12/13/1998	15.02[A]
12/14/1998	15.12[A]
12/15/1998	14.92[A]
12/16/1998	14.55[A]
12/17/1998	14.09[A]
12/18/1998	13.60[A]
12/19/1998	13.39[A]
12/20/1998	13.18[A]
12/21/1998	13.07[A]
12/22/1998	13.04[A]
12/23/1998	12.81[A]
12/24/1998	12.58[A]
12/25/1998	12.31[A]
12/26/1998	12.09[A]
12/27/1998	11.90[A]
12/28/1998	11.74[A]
12/29/1998	11.59[A]
12/30/1998	11.45[A]
12/31/1998	11.32[A]

Date	Gage height (ft)
1/1/1999	11.40[A]
1/2/1999	13.29[A]
1/3/1999	14.12[A]
1/4/1999	14.64[A]
1/5/1999	14.64[A]
1/6/1999	14.36[A]
1/7/1999	13.93[A]
1/8/1999	13.51[A]
1/9/1999	13.33[A]
1/10/1999	13.39[A]
1/11/1999	13.40[A]
1/12/1999	13.23[A]
1/13/1999	12.90[A]
1/14/1999	12.43[A]
1/15/1999	11.94[A]
1/16/1999	11.48[A]
1/17/1999	11.06[A]
1/18/1999	10.74[A]
1/19/1999	10.49[A]
1/20/1999	10.32[A]
1/21/1999	10.18[A]
1/22/1999	10.42[A]
1/23/1999	10.85[A]
1/24/1999	11.10[A]
1/25/1999	11.26[A]
1/26/1999	11.22[A]
1/27/1999	11.08[A]
1/28/1999	11.04[A]
1/29/1999	13.92[A]
1/30/1999	16.37[A]
1/31/1999	18.63[A]

Date	Gage height (ft)
2/1/1999	19.05[A]
2/2/1999	18.49[A]
2/3/1999	18.11[A]
2/4/1999	18.01[A]
2/5/1999	17.74[A]
2/6/1999	17.19[A]
2/7/1999	16.55[A]
2/8/1999	15.93[A]
2/9/1999	15.38[A]
2/10/1999	14.88[A]
2/11/1999	14.33[A]
2/12/1999	13.66[A]
2/13/1999	12.97[A]
2/14/1999	12.33[A]
2/15/1999	11.73[A]
2/16/1999	11.18[A]
2/17/1999	10.80[A]
2/18/1999	10.68[A]
2/19/1999	10.61[A]
2/20/1999	10.50[A]
2/21/1999	10.38[A]
2/22/1999	10.23[A]
2/23/1999	10.08[A]
2/24/1999	9.91[A]
2/25/1999	9.78[A]
2/26/1999	9.74[A]
2/27/1999	9.21[A]
2/28/1999	8.19[A]

Date	Gage height (ft)
3/1/1999	7.51[A]
3/2/1999	7.46[A]
3/3/1999	7.82[A]
3/4/1999	7.61[A]
3/5/1999	7.33[A]
3/6/1999	6.86[A]
3/7/1999	6.53[A]
3/8/1999	6.40[A]
3/9/1999	6.39[A]
3/10/1999	6.27[A]
3/11/1999	6.20[A]
3/12/1999	6.45[A]
3/13/1999	11.11[A]
3/14/1999	13.43[A]
3/15/1999	13.70[A]
3/16/1999	13.15[A]
3/17/1999	12.30[A]
3/18/1999	13.95[A]
3/19/1999	15.99[A]
3/20/1999	16.43[A]
3/21/1999	16.22[A]
3/22/1999	15.71[A]
3/23/1999	15.07[A]
3/24/1999	14.35[A]
3/25/1999	13.63[A]
3/26/1999	12.85[A]
3/27/1999	12.05[A]
3/28/1999	11.22[A]
3/29/1999	10.45[A]
3/30/1999	9.84[A]
3/31/1999	9.45[A]

Date	Gage height (ft)
4/1/1999	9.16[A]
4/2/1999	8.95[A]
4/3/1999	9.29[A]
4/4/1999	10.98[A]
4/5/1999	12.79[A]
4/6/1999	14.07[A]
4/7/1999	14.78[A]
4/8/1999	14.66[A]
4/9/1999	14.21[A]
4/10/1999	13.64[A]
4/11/1999	13.16[A]
4/12/1999	12.78[A]
4/13/1999	12.46[A]
4/14/1999	12.12[A]
4/15/1999	11.74[A]
4/16/1999	11.26[A]
4/17/1999	10.96[A]
4/18/1999	10.60[A]
4/19/1999	10.16[A]
4/20/1999	9.66[A]
4/21/1999	9.22[A]
4/22/1999	8.95[A]
4/23/1999	8.73[A]
4/24/1999	8.60[A]
4/25/1999	8.52[A]
4/26/1999	8.41[A]
4/27/1999	8.31[A]
4/28/1999	8.17[A]
4/29/1999	7.85[A]
4/30/1999	7.43[A]

Date	Gage height (ft)
5/1/1999	7.06[A]
5/2/1999	5.60[A]
5/3/1999	4.45[A]
5/4/1999	5.04[A]
5/5/1999	6.11[A]
5/6/1999	6.97[A]
5/7/1999	7.41[A]
5/8/1999	7.17[A]
5/9/1999	6.60[A]
5/10/1999	6.07[A]
5/11/1999	5.74[A]
5/12/1999	5.77[A]
5/13/1999	5.76[A]
5/14/1999	5.79[A]
5/15/1999	5.61[A]
5/16/1999	5.36[A]
5/17/1999	5.30[A]
5/18/1999	5.67[A]
5/19/1999	6.14[A]
5/20/1999	6.29[A]
5/21/1999	5.93[A]
5/22/1999	5.43[A]
5/23/1999	5.02[A]
5/24/1999	4.75[A]
5/25/1999	4.59[A]
5/26/1999	4.40[A]
5/27/1999	4.19[A]
5/28/1999	4.10[A]
5/29/1999	4.05[A]
5/30/1999	5.36[A]
5/31/1999	5.94[A]

Date	Gage height (ft)
6/1/1999	6.96[A]
6/2/1999	7.30[A]
6/3/1999	6.93[A]
6/4/1999	6.23[A]
6/5/1999	5.44[A]
6/6/1999	4.80[A]
6/7/1999	4.44[A]
6/8/1999	4.25[A]
6/9/1999	4.09[A]
6/10/1999	3.98[A]
6/11/1999	3.92[A]
6/12/1999	4.25[A]
6/13/1999	4.47[A]
6/14/1999	4.07[A]
6/15/1999	3.94[A]
6/16/1999	4.03[A]
6/17/1999	3.95[A]
6/18/1999	3.85[A]
6/19/1999	3.82[A]
6/20/1999	3.77[A]
6/21/1999	3.71[A]
6/22/1999	3.70[A]
6/23/1999	3.91[A]
6/24/1999	3.96[A]
6/25/1999	6.80[A]
6/26/1999	9.30[A]
6/27/1999	11.07[A]
6/28/1999	11.62[A]
6/29/1999	11.49[A]
6/30/1999	10.43[A]

Date	Gage height (ft)
7/1/1999	8.15[A]
7/2/1999	5.62[A]
7/3/1999	4.52[A]
7/4/1999	4.18[A]
7/5/1999	4.01[A]
7/6/1999	3.91[A]
7/7/1999	3.85[A]
7/8/1999	3.80[A]
7/9/1999	3.85[A]
7/10/1999	4.01[A]
7/11/1999	4.18[A]
7/12/1999	4.32[A]
7/13/1999	4.08[A]
7/14/1999	3.90[A]
7/15/1999	3.78[A]
7/16/1999	3.68[A]
7/17/1999	3.62[A]
7/18/1999	3.58[A]
7/19/1999	3.56[A]
7/20/1999	3.53[A]
7/21/1999	3.49[A]
7/22/1999	3.45[A]
7/23/1999	3.42[A]
7/24/1999	3.39[A]
7/25/1999	3.37[A]
7/26/1999	3.35[A]
7/27/1999	3.35[A]
7/28/1999	3.35[A]
7/29/1999	3.33[A]
7/30/1999	3.27[A]
7/31/1999	3.24[A]

Date	Gage height (ft)
8/1/1999	3.21[A]
8/2/1999	3.19[A]
8/3/1999	3.17[A]
8/4/1999	3.17[A]
8/5/1999	3.15[A]
8/6/1999	3.15[A]
8/7/1999	3.15[A]
8/8/1999	3.14[A]
8/9/1999	3.14[A]
8/10/1999	3.14[A]
8/11/1999	3.15[A]
8/12/1999	3.15[A]
8/13/1999	3.14[A]
8/14/1999	3.14[A]
8/15/1999	3.13[A]
8/16/1999	3.11[A]
8/17/1999	3.11[A]
8/18/1999	3.11[A]
8/19/1999	3.12[A]
8/20/1999	3.11[A]
8/21/1999	3.11[A]
8/22/1999	3.11[A]
8/23/1999	3.11[A]
8/24/1999	3.13[A]
8/25/1999	3.14[A]
8/26/1999	3.14[A]
8/27/1999	3.12[A]
8/28/1999	3.15[A]
8/29/1999	3.20[A]
8/30/1999	3.16[A]
8/31/1999	3.14[A]

Date	Gage height (ft)
9/1/1999	3.12[A]
9/2/1999	3.12[A]
9/3/1999	3.16[A]
9/4/1999	3.24[A]
9/5/1999	3.31[A]
9/6/1999	3.21[A]
9/7/1999	3.21[A]
9/8/1999	3.26[A]
9/9/1999	3.26[A]
9/10/1999	3.23[A]
9/11/1999	3.18[A]
9/12/1999	3.16[A]
9/13/1999	3.22[A]
9/14/1999	3.25[A]
9/15/1999	3.23[A]
9/16/1999	3.17[A]
9/17/1999	3.16[A]
9/18/1999	3.16[A]
9/19/1999	3.16[A]
9/20/1999	3.17[A]
9/21/1999	3.19[A]
9/22/1999	3.19[A]
9/23/1999	3.21[A]
9/24/1999	3.18[A]
9/25/1999	3.16[A]
9/26/1999	3.17[A]
9/27/1999	3.19[A]
9/28/1999	3.19[A]
9/29/1999	3.20[A]
9/30/1999	3.18[A]

Preview Only

October 1997- September 1998

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

Date	Gage height (ft)
10/1/1997	P
10/2/1997	P
10/3/1997	P
10/4/1997	P
10/5/1997	P
10/6/1997	P
10/7/1997	P
10/8/1997	2.37[A]
10/9/1997	2.40[A]
10/10/1997	2.38[A]
10/11/1997	2.41[A]
10/12/1997	2.40[A]
10/13/1997	2.93[A]
10/14/1997	3.12[A]
10/15/1997	2.81[A]
10/16/1997	2.59[A]
10/17/1997	2.50[A]
10/18/1997	2.46[A]
10/19/1997	2.45[A]
10/20/1997	2.44[A]
10/21/1997	2.47[A]
10/22/1997	2.61[A]
10/23/1997	2.95[A]
10/24/1997	3.74[A]
10/25/1997	3.74[A]
10/26/1997	3.68[A]
10/27/1997	3.39[A]
10/28/1997	3.17[A]
10/29/1997	2.97[A]
10/30/1997	2.99[A]
10/31/1997	2.98[A]

Date	Gage height (ft)
11/1/1997	2.85[A]
11/2/1997	2.71[A]
11/3/1997	2.63[A]
11/4/1997	2.53[A]
11/5/1997	3.20[A]
11/6/1997	3.90[A]
11/7/1997	4.18[A]
11/8/1997	3.67[A]
11/9/1997	3.29[A]
11/10/1997	3.10[A]
11/11/1997	3.00[A]
11/12/1997	3.09[A]
11/13/1997	3.67[A]
11/14/1997	5.90[A]
11/15/1997	7.04[A]
11/16/1997	7.43[A]
11/17/1997	7.46[A]
11/18/1997	7.38[A]
11/19/1997	7.28[A]
11/20/1997	7.19[A]
11/21/1997	7.11[A]
11/22/1997	7.02[A]
11/23/1997	6.95[A]
11/24/1997	6.89[A]
11/25/1997	6.81[A]
11/26/1997	6.34[A]
11/27/1997	5.31[A]
11/28/1997	4.94[A]
11/29/1997	5.37[A]
11/30/1997	5.72[A]

Date	Gage height (ft)
12/1/1997	5.84[A]
12/2/1997	5.69[A]
12/3/1997	5.73[A]
12/4/1997	5.91[A]
12/5/1997	6.03[A]
12/6/1997	5.91[A]
12/7/1997	5.73[A]
12/8/1997	6.09[A]
12/9/1997	6.62[A]
12/10/1997	7.02[A]
12/11/1997	6.89[A]
12/12/1997	6.55[A]
12/13/1997	6.23[A]
12/14/1997	6.00[A]
12/15/1997	5.89[A]
12/16/1997	5.85[A]
12/17/1997	5.83[A]
12/18/1997	5.83[A]
12/19/1997	5.81[A]
12/20/1997	5.77[A]
12/21/1997	6.74[A]
12/22/1997	7.63[A]
12/23/1997	8.70[A]
12/24/1997	11.04[A]
12/25/1997	11.21[A]
12/26/1997	11.64[A]
12/27/1997	11.77[A]
12/28/1997	11.46[A]
12/29/1997	10.84[A]
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12/31/1997	9.44[A]

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6/30/1998	3.48[A]

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7/16/1998	3.11[A]
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7/31/1998	2.41[A]

Date	Gage height (ft)
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8/26/1998	2.36[A]
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8/31/1998	2.30[A]

Date	Gage height (ft)
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9/27/1998	2.56[A]
9/28/1998	2.51[A]
9/29/1998	2.47[A]
9/30/1998	2.45[A]

Preview Only

USGS 07349500 Bodcau Bayou near Sarepta, LA
Latitude 32°54'18", Longitude 93°28'58" NAD27
Webster Parish, Louisiana, Hydrologic Unit 11140205
Drainage area: 546.00 square miles, Datum of gage: 173.91 feet above NGVD29.

October 1996- September 1997

Date	Gage height (ft)
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10/16/1996	3.09[A]
10/17/1996	3.07[A]
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10/26/1996	12.74[A]
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10/30/1996	10.34[A]
10/31/1996	10.35[A]

Date	Gage height (ft)
11/1/1996	10.56[A]
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11/30/1996	14.35[A]

Date	Gage height (ft)
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12/31/1996	11.43[A]

Date	Gage height (ft)
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Date	Gage height (ft)
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Date	Gage height (ft)
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Date	Gage height (ft)
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Date	Gage height (ft)
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6/30/1997	P

Date	Gage height (ft)
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7/21/1997	P
7/22/1997	P
7/23/1997	P
7/24/1997	P
7/25/1997	P
7/26/1997	P
7/27/1997	P
7/28/1997	P
7/29/1997	P
7/30/1997	P
7/31/1997	P

Date	Gage height (ft)
8/1/1997	P
8/2/1997	P
8/3/1997	P
8/4/1997	P
8/5/1997	P
8/6/1997	P
8/7/1997	P
8/8/1997	P
8/9/1997	P
8/10/1997	P
8/11/1997	P
8/12/1997	P
8/13/1997	P
8/14/1997	P
8/15/1997	P
8/16/1997	P
8/17/1997	P
8/18/1997	P
8/19/1997	P
8/20/1997	P
8/21/1997	P
8/22/1997	P
8/23/1997	P
8/24/1997	P
8/25/1997	P
8/26/1997	P
8/27/1997	P
8/28/1997	P
8/29/1997	P
8/30/1997	P
8/31/1997	P

Date	Gage height (ft)
9/1/1997	P
9/2/1997	P
9/3/1997	P
9/4/1997	P
9/5/1997	P
9/6/1997	P
9/7/1997	P
9/8/1997	P
9/9/1997	P
9/10/1997	P
9/11/1997	P
9/12/1997	P
9/13/1997	P
9/14/1997	P
9/15/1997	P
9/16/1997	P
9/17/1997	P
9/18/1997	P
9/19/1997	P
9/20/1997	P
9/21/1997	P
9/22/1997	P
9/23/1997	P
9/24/1997	P
9/25/1997	P
9/26/1997	P
9/27/1997	P
9/28/1997	P
9/29/1997	P
9/30/1997	P

Preliminary

APPENDIX I

Preview Only

Water-Data Report 2011

07346450 Black Bayou at Rodessa, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°57′31″, long 93°59′38″ referenced to North American Datum of 1983, Caddo Parish, LA, Hydrologic Unit 11140304, Located near right back on downstream side of bridge on U.S. Hwy. 1, 1.0 miles south of intersection of La. Hwy. 168 and La. Hwy. 1, approximately 5 miles north of Myrtis Mill Creek, and 35 miles north of Shreveport, La.

DRAINAGE AREA.--177.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year (gage heights only). Gage-height record and miscellaneous discharge measurements collected at same site from July 1939 to December 1951 are contained in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 171.60 ft above NAVD of 1988.

REMARKS.--Satellite telemetry and rain gage at site.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.29 ft, October 15, 2009.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.94 ft, Apr. 28; minimum gage height, 9.11 ft, Sept. 30.

Preview Only

07346450 Black Bayou at Rodessa, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.28	10.05	10.66	10.80	11.49	11.48	11.30	11.75	11.35	10.78	e10.13	9.54
2	10.26	10.17	10.66	10.83	11.49	11.47	11.30	11.72	11.33	10.76	10.11	9.52
3	10.24	10.27	10.66	10.85	11.49	11.48	11.31	e11.68	11.31	10.73	10.08	9.50
4	10.22	10.27	10.66	10.86	11.50	11.48	11.33	11.63	11.28	e10.71	10.06	9.47
5	10.21	10.27	10.66	10.90	11.52	11.45	11.34	11.60	11.27	e10.69	10.03	9.45
6	10.19	10.26	10.66	10.91	11.53	11.45	11.35	11.62	11.27	10.68	10.00	9.42
7	10.18	10.28	10.66	10.93	11.50	11.46	11.34	11.64	11.26	10.65	9.97	9.40
8	10.17	10.31	10.66	10.94	11.51	11.47	11.35	11.62	11.23	10.63	9.94	9.38
9	10.16	10.34	10.67	10.99	11.51	11.45	11.35	11.57	11.21	10.60	9.92	9.36
10	10.14	10.34	10.68	11.02	11.49	11.44	11.34	11.52	11.19	10.57	9.89	9.34
11	10.16	10.35	10.67	11.02	11.48	11.44	11.35	11.49	11.16	10.55	9.87	9.33
12	10.16	10.35	10.64	11.03	11.48	11.44	11.34	11.55	11.14	10.52	9.85	9.31
13	10.15	10.39	10.66	11.05	11.47	11.44	11.34	11.50	11.12	10.50	9.82	9.30
14	10.14	10.40	10.67	11.07	11.46	11.42	11.34	11.44	11.09	10.48	9.80	9.28
15	10.13	10.41	10.68	11.09	11.46	11.41	11.34	11.40	11.07	10.46	9.78	9.26
16	10.12	10.41	10.66	11.32	11.46	11.41	11.30	11.37	11.05	10.45	9.76	9.25
17	10.11	10.42	10.67	11.63	11.46	11.41	11.31	11.36	11.02	10.43	9.74	9.23
18	10.10	10.41	10.67	11.70	11.45	11.41	11.31	11.35	10.99	e10.42	9.72	9.23
19	10.09	10.42	10.68	11.74	11.44	11.40	11.31	11.34	10.96	10.40	9.71	9.29
20	10.08	10.42	10.69	11.75	11.44	11.40	11.29	11.34	10.93	10.38	9.69	9.27
21	10.08	10.43	10.68	11.74	11.43	11.39	11.31	11.51	10.90	10.36	9.68	9.26
22	10.07	10.43	10.68	11.71	11.42	11.39	11.31	11.61	10.96	10.34	9.68	9.25
23	10.07	10.43	10.69	11.66	11.41	11.36	11.35	11.62	10.96	10.31	9.70	9.24
24	10.11	10.44	10.69	11.61	11.43	11.35	11.39	11.58	10.94	10.29	9.69	9.23
25	10.13	10.47	10.68	11.56	11.44	11.35	11.39	11.55	10.92	10.28	9.68	9.22
26	10.11	10.58	10.69	11.53	11.46	11.34	11.45	11.52	10.90	10.26	9.66	9.19
27	10.10	10.58	10.70	11.50	11.47	11.32	11.80	11.49	10.87	10.24	9.63	9.18
28	10.08	10.59	10.71	11.48	11.48	11.32	11.93	11.46	10.85	10.22	9.61	9.16
29	10.07	10.63	10.76	11.47	---	11.31	11.93	11.43	10.82	10.20	9.59	9.15
30	10.06	10.64	10.79	11.47	---	11.30	e11.82	11.40	10.80	10.18	9.58	9.13
31	10.05	---	10.80	11.46	---	11.30	---	11.37	---	10.16	9.56	---
Max	10.28	10.64	10.80	11.75	11.53	11.48	11.93	11.75	11.35	10.78	10.13	9.54
Min	10.05	10.05	10.64	10.80	11.41	11.30	11.29	11.34	10.80	10.16	9.56	9.13

Preview Only

Water-Data Report 2010

07346450 Black Bayou at Rodessa, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°57′31″, long 93°59′38″ referenced to North American Datum of 1983, Caddo Parish, LA, Hydrologic Unit 11140304, Located near right back on downstream side of bridge on U.S. Hwy. 1, 1.0 miles south of intersection of La. Hwy. 168 and La. Hwy. 1, approximately 5 miles north of Myrtis Mill Creek, and 35 miles north of Shreveport, La.

DRAINAGE AREA.--177.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year (gage heights only). Gage-height record and miscellaneous discharge measurements collected at same site from July 1939 to December 1951 are contained in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 171.60 ft above NAVD of 1988.

REMARKS.--Satellite telemetry and rain gage at site.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.29 ft, October 15, 2009.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.29 ft, Oct. 15; minimum gage height, 10.29 ft, Sept. 30.

Preview Only

07346450 Black Bayou at Rodessa, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11.77	14.01	12.17	12.32	12.30	12.39	11.74	11.58	11.36	11.41	11.25	10.74
2	11.75	13.54	12.27	12.24	12.23	12.42	11.72	11.58	11.34	11.42	11.23	10.72
3	11.72	13.12	12.36	12.19	12.13	12.33	11.70	11.58	11.34	11.40	11.21	10.70
4	12.46	12.80	12.34	12.13	12.10	12.24	11.68	11.58	11.35	11.40	11.19	10.68
5	13.99	12.54	12.30	12.06	12.16	12.14	11.67	11.59	11.33	11.38	11.17	10.66
6	15.22	12.34	12.23	12.01	12.19	12.05	11.66	11.60	11.32	11.37	11.15	10.65
7	15.00	12.19	12.14	11.96	12.25	11.98	11.65	11.58	11.30	11.38	11.14	10.63
8	14.23	12.08	12.08	11.91	12.32	11.95	11.64	11.54	11.29	11.37	11.14	10.63
9	13.67	12.00	12.00	11.90	12.57	12.00	11.65	11.52	11.30	11.35	11.12	10.63
10	13.39	11.93	11.94	11.88	12.65	12.05	11.65	11.52	11.33	11.35	11.10	10.63
11	13.25	11.88	11.91	11.86	12.82	12.21	11.63	11.50	11.33	11.37	11.08	10.61
12	13.53	11.84	11.90	11.84	12.85	12.25	11.61	11.49	11.35	11.38	11.06	10.60
13	14.20	11.82	11.94	11.82	12.72	12.19	11.60	11.46	11.42	11.37	11.04	10.57
14	17.19	11.80	11.94	11.81	12.55	12.11	11.58	11.45	11.53	11.36	11.02	10.55
15	17.96	11.78	11.94	11.79	12.42	12.02	11.56	11.45	11.81	11.35	10.99	10.54
16	16.70	11.84	11.94	11.85	12.31	11.94	11.54	11.43	11.89	11.33	10.98	10.52
17	15.44	11.91	11.92	12.02	12.20	11.87	11.55	11.41	11.77	11.36	10.95	10.51
18	14.48	11.93	11.89	12.08	12.11	11.82	11.72	11.40	11.64	11.40	10.93	10.49
19	13.72	12.04	11.85	12.14	12.04	11.79	11.72	11.39	11.57	11.38	10.92	10.48
20	13.09	12.10	11.82	12.16	11.98	11.77	11.69	11.41	11.52	11.36	10.90	10.46
21	12.66	12.08	11.80	12.16	11.93	11.72	11.66	11.44	11.48	11.36	10.87	10.44
22	12.73	12.03	11.79	12.16	11.88	11.72	11.64	11.44	11.44	11.36	10.85	10.43
23	13.26	11.98	11.86	12.17	11.84	11.73	11.64	11.46	11.42	11.34	10.91	10.42
24	13.61	11.92	12.71	12.17	11.81	11.74	11.63	11.47	11.43	11.32	10.89	10.39
25	13.87	11.87	14.61	12.10	11.79	11.86	11.59	11.47	11.48	11.30	10.86	10.38
26	13.67	11.83	15.71	12.03	11.88	11.91	11.59	11.47	11.47	11.29	10.84	10.36
27	13.63	11.80	14.76	11.97	12.13	11.89	11.59	11.46	11.44	11.30	10.81	10.35
28	13.55	11.78	13.74	11.92	12.23	11.82	11.61	11.44	11.42	11.29	10.79	10.33
29	13.52	11.78	13.08	12.04	---	11.80	11.62	11.42	11.40	11.29	10.78	10.31
30	13.95	12.09	12.67	12.19	---	11.78	11.60	11.40	11.41	11.28	10.77	10.30
31	14.13	---	12.43	12.26	---	11.76	---	11.38	---	11.27	10.75	---
Max	17.96	14.01	15.71	12.32	12.85	12.42	11.74	11.60	11.89	11.42	11.25	10.74
Min	11.72	11.78	11.79	11.79	11.79	11.72	11.54	11.38	11.29	11.27	10.75	10.30

Preview Only

Water-Data Report 2009

07346450 Black Bayou at Rodessa, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°57′31″, long 93°59′38″ referenced to North American Datum of 1983, Caddo Parish, LA, Hydrologic Unit 11140304, Located near right back on downstream side of bridge on U.S. Hwy. 1, 1.0 miles south of intersection of La. Hwy. 168 and La. Hwy. 1, approximately 5 miles north of Myrtis Mill Creek, and 35 miles north of Shreveport, La.

DRAINAGE AREA.--177.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 171.60 ft above NAVD of 1988.

REMARKS.--Satellite and telephone telemetry and rain gage at site.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.59 ft, October 12, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.74 ft, May 4; minimum gage height, 10.99 ft, July 16.

Preview Only

07346450 Black Bayou at Rodessa, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11.48	11.43	11.66	11.69	11.69	11.56	12.12	11.87	11.65	11.17	14.26	11.34
2	11.46	11.42	11.67	11.69	11.70	11.56	12.01	11.93	11.62	11.15	13.65	11.32
3	11.45	11.41	11.70	11.69	11.70	11.56	11.92	13.55	11.60	11.13	13.12	11.37
4	11.43	11.41	11.74	11.67	11.70	11.56	11.87	16.32	11.59	11.11	12.80	11.39
5	11.42	11.40	11.74	11.69	11.69	11.56	11.79	16.40	11.57	11.15	12.58	11.39
6	11.41	11.42	11.73	11.80	11.69	11.55	11.70	15.42	11.54	11.19	12.38	11.38
7	11.42	11.42	11.74	11.89	11.69	11.55	11.66	14.58	11.52	11.18	12.21	11.36
8	11.41	11.40	11.77	11.99	11.68	11.54	11.64	13.90	11.49	11.17	12.05	11.35
9	11.40	11.39	11.89	12.11	11.68	11.54	11.63	13.37	11.47	11.15	11.92	11.34
10	11.41	11.39	11.92	12.12	11.72	11.53	11.59	12.98	11.45	11.13	11.82	11.32
11	11.45	11.52	11.89	12.08	11.76	11.56	11.58	12.66	11.49	11.11	11.77	11.33
12	11.48	11.64	11.88	12.04	11.79	11.77	11.65	12.42	11.48	11.09	11.72	11.41
13	11.50	11.72	11.89	11.97	11.80	11.97	11.75	12.24	11.48	11.06	11.67	11.69
14	11.50	11.80	11.88	11.92	11.79	12.38	11.81	12.13	11.47	11.04	11.63	11.81
15	11.51	11.86	11.84	11.87	11.77	12.80	11.88	12.06	11.47	11.02	11.60	11.92
16	11.59	11.89	11.81	11.83	11.76	13.00	11.89	12.01	11.45	11.00	11.57	12.10
17	11.57	11.89	11.79	11.80	11.75	12.94	11.88	12.02	11.43	11.06	11.54	12.93
18	11.55	11.86	11.77	11.76	11.73	12.72	11.91	12.03	11.41	11.05	11.53	13.12
19	11.54	11.82	11.76	11.72	11.70	12.49	11.92	11.99	11.39	11.04	11.52	13.12
20	11.53	11.78	11.73	11.70	11.69	12.30	11.91	11.93	11.37	11.03	11.50	13.12
21	11.53	11.74	11.70	11.69	11.67	12.14	11.92	11.86	11.35	11.10	11.48	12.94
22	11.53	11.71	11.69	11.68	11.65	12.03	11.93	11.81	11.33	11.15	11.46	12.84
23	11.53	11.69	11.69	11.66	11.65	11.95	11.93	11.77	11.31	11.14	11.43	12.70
24	11.52	11.66	11.69	11.65	11.64	11.91	11.89	11.74	11.28	11.12	11.41	12.57
25	11.51	11.64	11.69	11.64	11.64	12.05	11.84	11.71	11.26	11.11	11.40	12.48
26	11.49	11.62	11.70	11.63	11.64	12.27	11.79	11.70	11.24	11.10	11.38	12.32
27	11.47	11.61	11.71	11.62	11.62	12.34	11.75	11.73	11.22	11.09	11.37	12.17
28	11.46	11.63	11.69	11.64	11.59	12.44	11.72	11.73	11.19	12.65	11.38	12.04
29	11.45	11.66	11.69	11.64	---	12.41	11.74	11.72	11.19	15.00	11.39	11.92
30	11.44	11.66	11.69	11.65	---	12.34	11.86	11.70	11.20	15.74	11.38	11.83
31	11.43	---	11.69	11.67	---	12.23	---	11.68	---	15.16	11.36	---
Max	11.59	11.89	11.92	12.12	11.80	13.00	12.12	16.40	11.65	15.74	14.26	13.12
Min	11.40	11.39	11.66	11.62	11.59	11.53	11.58	11.68	11.19	11.00	11.36	11.32

Preview Only

Water-Data Report 2008

07346450 Black Bayou at Rodessa, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°57′31″, long 93°59′38″ referenced to North American Datum of 1983, Caddo Parish, LA, Hydrologic Unit 11140304, Located near right back on downstream side of bridge on U.S. Hwy. 1, 1.0 miles south of intersection of La. Hwy. 168 and La. Hwy. 1, approximately 5 miles north of Myrtis Mill Creek, and 35 miles north of Shreveport, La.

DRAINAGE AREA.--177.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 171.60 ft above NAVD of 1988.

REMARKS.--Satellite and telephone telemetry and rain gage at site.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.59 ft, October 12, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.34 ft, Feb. 19; minimum gage height, 10.86 ft, Aug. 7, 8.

Preview Only

07346450 Black Bayou at Rodessa, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11.20	11.13	11.37	11.77	11.83	11.75	11.92	11.65	11.65	11.45	11.01	11.78
2	11.19	11.12	11.36	11.74	11.89	11.75	11.89	11.63	11.62	11.43	10.99	11.81
3	11.18	11.12	11.36	11.74	11.94	11.84	11.89	11.60	11.58	11.41	10.96	11.86
4	11.17	11.11	11.36	11.73	11.99	12.10	11.96	11.57	11.55	11.39	10.94	11.83
5	11.16	11.11	11.36	11.72	12.00	12.23	12.05	11.55	11.52	11.38	10.91	11.83
6	11.15	11.10	11.37	11.71	11.97	12.31	12.02	11.54	11.49	11.36	10.89	11.82
7	11.14	11.09	11.37	11.70	11.95	12.32	11.97	11.55	11.46	11.34	10.87	11.79
8	11.13	11.08	11.37	11.71	11.93	12.32	11.94	11.67	11.43	11.32	10.90	11.76
9	11.12	11.08	11.37	11.72	11.90	12.28	11.92	11.66	11.41	11.30	10.90	11.73
10	11.11	11.08	11.36	11.70	11.89	12.31	11.93	11.64	11.51	11.29	10.89	11.71
11	11.10	11.08	11.37	11.68	11.87	12.33	11.96	11.60	11.57	11.28	10.92	11.68
12	11.08	11.07	11.39	11.68	12.02	12.29	11.99	11.58	11.59	11.26	11.13	11.65
13	11.07	11.07	11.44	11.70	12.16	12.25	12.05	11.57	11.57	11.26	11.21	11.67
14	11.06	11.06	11.46	11.69	12.20	12.20	12.03	12.06	11.61	11.33	11.29	11.68
15	11.14	11.04	11.53	11.69	12.23	12.12	11.97	12.64	11.63	11.32	11.54	11.66
16	11.22	11.04	11.59	11.69	12.38	12.04	11.90	12.97	11.63	11.30	11.71	11.70
17	11.23	11.04	11.64	11.67	12.90	11.97	11.84	12.99	11.62	11.29	11.78	11.81
18	11.22	11.05	11.66	11.67	12.97	11.93	11.81	12.76	11.63	11.28	11.74	11.86
19	11.21	11.06	11.67	11.65	13.30	11.99	11.77	12.52	11.62	11.27	11.77	11.85
20	11.20	11.07	11.68	11.65	13.16	12.06	11.74	12.30	11.59	11.26	11.80	11.82
21	11.19	11.07	11.68	11.64	12.86	12.13	11.72	12.09	11.56	11.24	11.80	11.78
22	11.18	11.06	11.65	11.64	12.55	12.17	11.70	11.94	11.53	11.22	11.78	11.73
23	11.19	11.06	11.63	11.64	12.32	12.12	11.69	11.84	11.50	11.20	11.79	11.70
24	11.18	11.10	11.62	11.63	12.14	12.05	11.67	11.76	11.48	11.18	12.26	11.67
25	11.17	11.24	11.61	11.64	12.02	11.97	11.64	11.70	11.48	11.16	13.01	11.63
26	11.17	11.30	11.65	11.67	11.91	11.91	11.63	11.65	11.48	11.14	12.81	11.60
27	11.16	11.32	11.72	11.68	11.86	11.86	11.66	11.66	11.46	11.12	12.51	11.58
28	11.15	11.33	11.76	11.70	11.83	11.80	11.69	11.71	11.43	11.10	12.29	11.55
29	11.14	11.34	11.79	11.70	11.78	11.77	11.67	11.69	11.49	11.08	12.11	11.53
30	11.13	11.35	11.80	11.72	---	11.80	11.66	11.66	11.47	11.05	11.97	11.50
31	11.13	---	11.79	11.77	---	11.93	---	11.65	---	11.03	11.86	---
Max	11.23	11.35	11.80	11.77	13.30	12.33	12.05	12.99	11.65	11.45	13.01	11.86
Min	11.06	11.04	11.36	11.63	11.78	11.75	11.63	11.54	11.41	11.03	10.87	11.50

Preview Only

Water-Data Report 2007

07346450 Black Bayou at Rodessa, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°57′31″, long 93°59′38″ referenced to North American Datum of 1983, Caddo Parish, LA, Hydrologic Unit 11140304, Located near right back on downstream side of bridge on U.S. Hwy. 1, 1.0 miles south of intersection of La. Hwy. 168 and La. Hwy. 1, approximately 5 miles north of Myrtis Mill Creek, and 35 miles north of Shreveport, La.

DRAINAGE AREA.--177.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is not determined.

REMARKS.--Satellite and telephone telemetry and rain gage at site.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.59 ft, October 12, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.99 ft, Jan. 16; minimum gage height, 9.89 ft, Oct. 23, 24, 25.

Preview Only

07346450 Black Bayou at Rodessa, LA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.10	10.10	10.20	11.02	11.81	11.87	12.70	11.71	11.47	11.97	11.65	11.22
2	10.09	10.12	10.21	11.09	11.87	11.84	12.69	11.70	11.45	12.04	11.62	11.22
3	10.08	10.11	10.19	11.17	11.87	11.79	12.73	11.75	11.44	12.19	11.60	11.22
4	10.07	10.10	10.19	11.30	11.87	11.75	12.62	11.83	11.42	12.22	11.57	11.21
5	10.05	10.10	10.19	11.39	11.88	11.72	12.43	11.86	11.41	12.18	11.55	11.21
6	10.04	10.22	10.19	11.43	11.86	11.69	12.22	11.88	11.40	13.17	11.52	11.21
7	10.02	10.24	10.18	11.56	11.84	11.66	12.04	11.86	11.38	14.52	11.50	11.20
8	10.01	10.24	10.18	11.65	11.81	11.65	11.92	11.92	11.38	13.91	11.48	11.20
9	9.99	10.25	10.18	11.68	11.78	11.63	11.84	11.85	11.40	13.40	11.46	11.19
10	9.98	10.24	10.18	11.71	11.76	11.61	11.81	11.79	11.41	13.02	11.43	11.22
11	9.97	10.23	10.24	11.72	11.74	11.60	11.78	11.73	11.39	12.69	11.41	11.26
12	9.97	10.23	10.27	11.71	11.74	11.60	11.73	11.70	11.37	12.48	11.38	11.26
13	9.96	10.23	10.27	11.76	11.80	11.64	11.70	11.67	11.35	12.30	11.37	11.25
14	9.95	10.23	10.27	12.83	11.84	11.80	11.71	11.64	11.35	12.29	11.34	11.25
15	9.95	10.19	10.28	e14.34	11.87	11.92	11.68	11.63	11.46	12.29	11.33	11.27
16	9.97	10.20	10.29	15.85	11.88	12.00	11.67	11.68	11.57	12.22	11.31	11.28
17	9.97	10.21	10.29	15.49	11.84	12.05	11.65	11.65	11.62	12.18	11.29	11.28
18	9.96	10.20	10.29	14.45	11.82	12.03	11.64	11.62	11.68	12.13	11.27	11.27
19	9.94	10.19	10.29	13.57	11.79	11.97	11.62	11.60	11.82	12.07	11.26	11.27
20	9.94	10.19	10.32	12.98	11.76	11.91	11.60	11.58	11.93	11.99	11.24	11.25
21	9.93	10.19	10.35	12.66	11.73	11.85	11.58	11.56	11.91	11.91	11.22	11.24
22	9.91	10.18	10.35	12.43	11.71	11.80	11.56	11.56	11.94	11.84	11.20	11.22
23	9.90	10.18	10.35	12.29	11.69	11.75	11.54	11.54	11.95	11.78	11.18	11.24
24	9.89	10.18	10.36	12.22	11.69	11.72	11.53	11.53	11.89	11.73	11.16	11.26
25	9.95	10.18	10.47	12.15	11.65	11.70	11.61	11.51	11.87	11.69	11.14	11.25
26	10.02	10.17	10.51	12.08	11.69	11.67	11.65	11.50	11.90	11.67	11.12	11.25
27	10.08	10.18	10.54	12.00	11.79	11.72	11.72	11.49	11.90	11.69	11.10	11.25
28	10.09	10.20	10.55	11.93	11.88	11.92	11.79	11.47	11.93	11.66	11.08	11.23
29	10.09	10.21	10.59	11.88	---	11.99	11.78	11.47	11.99	11.63	11.08	11.22
30	10.09	10.20	10.89	11.84	---	12.08	11.75	11.48	11.99	11.64	11.23	11.21
31	10.08	---	10.99	11.82	---	12.45	---	11.48	---	11.66	11.23	---
Max	10.10	10.25	10.99	15.85	11.88	12.45	12.73	11.92	11.99	14.52	11.65	11.28
Min	9.89	10.10	10.18	11.02	11.65	11.60	11.53	11.47	11.35	11.63	11.08	11.19

Preview Only

07346450 Black Bayou at Rodessa, LA

Big Cypress-Sulphur Basin
Cross Bayou Subbasin

LOCATION.--Lat 32°57′31″, long 93°59′38″ referenced to North American Datum of 1983, NE ¼ sec. 26, T. 23 N., R. 16 W., Caddo Parish, LA, Hydrologic Unit 11140304, Located near right back on downstream side of bridge on U.S. Hwy. 1, 1.0 miles south of intersection of La. Hwy. 168 and La. Hwy. 1, approximately 5 miles north of Myrtis Mill Creek, and 35 miles north of Shreveport, La.

DRAINAGE AREA.--177.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1999 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is not determined.

REMARKS.--Satellite and telephone telemetry and rain gage at site.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 17.59 ft, October 12, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.02 ft, Mar 22; minimum gage height, 10.05 ft, Oct 31.

Preview Only

07346450 Black Bayou at Rodessa, LA—Continued

DCP
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.39	10.13	10.17	10.20	11.13	11.85	11.77	11.43	11.18	10.96	10.85	10.40
2	10.38	10.13	10.19	10.17	11.20	11.82	11.73	11.43	11.16	10.95	10.83	10.38
3	10.37	10.13	10.18	10.19	11.24	11.77	11.68	11.46	11.15	10.94	10.81	10.36
4	10.36	10.13	10.17	10.18	11.27	11.74	11.65	11.49	11.12	10.94	10.79	10.34
5	10.35	10.13	10.16	10.16	11.30	11.69	11.62	11.51	11.11	10.98	10.77	10.33
6	10.33	10.12	10.16	10.16	11.30	11.66	11.61	11.57	11.13	10.99	10.75	10.32
7	10.31	10.12	10.16	10.17	11.31	11.63	11.58	11.59	11.29	10.97	10.73	10.30
8	10.29	10.12	10.16	10.17	11.32	11.61	11.53	11.59	11.29	10.94	10.72	10.29
9	10.28	10.12	10.17	10.17	11.34	11.58	11.52	11.58	11.28	10.93	10.70	10.27
10	10.27	10.11	10.17	10.17	11.39	11.57	11.50	11.56	11.26	10.91	10.68	10.26
11	10.26	10.10	10.17	10.17	11.45	11.55	11.49	11.53	11.24	10.89	10.65	10.25
12	10.25	10.10	10.17	10.18	11.48	11.54	11.47	11.51	11.22	10.87	10.63	10.24
13	10.24	10.11	10.17	10.16	11.50	11.52	11.46	11.49	11.20	10.84	10.62	10.23
14	10.23	10.14	10.17	10.19	11.52	11.51	11.45	11.49	11.17	10.82	10.59	10.21
15	10.22	10.14	10.16	10.19	11.54	11.50	11.44	11.46	11.15	10.80	10.57	10.20
16	10.21	10.14	10.17	10.21	11.55	11.48	11.42	11.44	11.14	10.77	10.55	10.18
17	10.21	10.14	10.17	10.20	11.54	11.47	11.41	11.42	11.18	10.75	10.53	10.17
18	10.20	10.13	10.17	10.22	11.53	11.61	11.40	11.40	11.21	10.72	10.51	10.24
19	10.19	10.14	10.17	10.23	11.53	12.11	11.38	11.38	11.20	10.71	10.48	10.22
20	10.18	10.13	10.17	10.23	11.52	13.06	11.37	11.37	11.19	10.69	10.46	10.21
21	10.16	10.12	10.18	10.23	11.52	13.87	11.37	11.34	11.17	10.67	10.44	10.20
22	10.15	10.13	10.18	10.35	11.52	13.99	11.37	11.33	11.15	10.64	10.43	10.19
23	10.13	10.13	10.19	10.63	11.52	13.67	11.37	11.31	11.14	10.63	10.41	10.18
24	10.11	10.13	10.17	10.70	11.52	13.18	11.37	11.29	11.12	10.60	10.42	10.20
25	10.11	10.13	10.17	10.75	11.67	12.75	11.39	11.27	11.10	10.58	10.43	10.19
26	10.10	10.12	10.19	10.81	11.80	12.44	11.40	11.26	11.07	10.57	10.41	10.17
27	10.09	10.14	10.19	10.85	11.82	12.22	11.40	11.24	11.05	10.78	10.39	10.16
28	10.08	10.18	10.18	10.94	11.84	12.06	11.40	11.22	11.03	10.91	10.40	10.14
29	10.07	10.18	10.19	11.04	---	11.96	11.44	11.20	11.01	10.90	10.44	10.13
30	10.06	10.19	10.18	11.07	---	11.89	11.43	11.21	10.98	10.89	10.43	10.11
31	10.09	---	10.19	11.10	---	11.82	---	11.19	---	10.87	10.42	---
Max	10.39	10.19	10.19	11.10	11.84	13.99	11.77	11.59	11.29	10.99	10.85	10.40
Min	10.06	10.10	10.16	10.16	11.13	11.47	11.37	11.19	10.98	10.57	10.39	10.11

Preview Only

October 2004- September 2005

USGS 07346450 Black Bayou at Rodessa, LA
Latitude 32°57'31", Longitude 93°59'38" NAD83
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Drainage area: 177.00 square miles,Datum of gage: 171.60 feet above NAVD88.

Date	Gage height (ft)
10/1/2004	10.75[A]
10/2/2004	10.74[A]
10/3/2004	10.73[A]
10/4/2004	10.75[A]
10/5/2004	10.78[A]
10/6/2004	10.77[A]
10/7/2004	10.77[A]
10/8/2004	11.02[A]
10/9/2004	11.36[A]
10/10/2004	11.51[A]
10/11/2004	11.64[A]
10/12/2004	11.63[A]
10/13/2004	11.61[A]
10/14/2004	11.57[A]
10/15/2004	11.55[A]
10/16/2004	11.53[A]
10/17/2004	11.52[A]
10/18/2004	11.51[A]
10/19/2004	11.49[A]
10/20/2004	11.48[A]
10/21/2004	11.47[A]
10/22/2004	11.46[A]
10/23/2004	11.45[A]
10/24/2004	11.44[A]
10/25/2004	11.45[A]
10/26/2004	11.44[A]
10/27/2004	11.43[A]
10/28/2004	11.43[A]
10/29/2004	11.42[A]
10/30/2004	11.43[A]
10/31/2004	11.44[A]

Date	Gage height (ft)
11/1/2004	11.62[A]
11/2/2004	11.88[A]
11/3/2004	11.91[A]
11/4/2004	11.87[A]
11/5/2004	11.83[A]
11/6/2004	11.77[A]
11/7/2004	11.73[A]
11/8/2004	11.69[A]
11/9/2004	11.65[A]
11/10/2004	11.62[A]
11/11/2004	11.62[A]
11/12/2004	11.60[A]
11/13/2004	11.58[A]
11/14/2004	11.55[A]
11/15/2004	11.54[A]
11/16/2004	11.53[A]
11/17/2004	11.52[A]
11/18/2004	11.58[A]
11/19/2004	11.59[A]
11/20/2004	11.60[A]
11/21/2004	11.77[A]
11/22/2004	11.88[A]
11/23/2004	11.98[A]
11/24/2004	12.04[A]
11/25/2004	12.07[A]
11/26/2004	12.12[A]
11/27/2004	12.13[A]
11/28/2004	12.13[A]
11/29/2004	12.12[A]
11/30/2004	12.16[A]

Date	Gage height (ft)
12/1/2004	12.26[A]
12/2/2004	12.25[A]
12/3/2004	12.29[A]
12/4/2004	12.33[A]
12/5/2004	12.31[A]
12/6/2004	12.27[A]
12/7/2004	12.33[A]
12/8/2004	12.32[A]
12/9/2004	12.30[A]
12/10/2004	12.25[A]
12/11/2004	12.17[A]
12/12/2004	12.09[A]
12/13/2004	11.99[A]
12/14/2004	11.91[A]
12/15/2004	11.85[A]
12/16/2004	11.80[A]
12/17/2004	11.75[A]
12/18/2004	11.72[A]
12/19/2004	11.68[A]
12/20/2004	11.67[A]
12/21/2004	11.65[A]
12/22/2004	11.68[A]
12/23/2004	11.75[A]
12/24/2004	11.78[A]
12/25/2004	11.83[A]
12/26/2004	11.86[A]
12/27/2004	11.86[A]
12/28/2004	11.84[A]
12/29/2004	11.80[A]
12/30/2004	11.78[A]
12/31/2004	11.75[A]

Date	Gage height (ft)
1/1/2005	11.73[A]
1/2/2005	11.74[A]
1/3/2005	11.77[A]
1/4/2005	11.79[A]
1/5/2005	11.81[A]
1/6/2005	11.86[A]
1/7/2005	12.10[A]
1/8/2005	12.36[A]
1/9/2005	12.47[A]
1/10/2005	12.54[A]
1/11/2005	12.48[A]
1/12/2005	12.38[A]
1/13/2005	12.42[A]
1/14/2005	12.37[A]
1/15/2005	12.31[A]
1/16/2005	12.24[A]
1/17/2005	12.14[A]
1/18/2005	12.05[A]
1/19/2005	11.96[A]
1/20/2005	11.90[A]
1/21/2005	11.85[A]
1/22/2005	11.79[A]
1/23/2005	11.75[A]
1/24/2005	11.72[A]
1/25/2005	11.70[A]
1/26/2005	11.67[A]
1/27/2005	11.66[A]
1/28/2005	11.66[A]
1/29/2005	11.66[A]
1/30/2005	11.66[A]
1/31/2005	11.73[A]

Date	Gage height (ft)
2/1/2005	11.79[A]
2/2/2005	11.93[A]
2/3/2005	12.01[A]
2/4/2005	12.02[A]
2/5/2005	12.00[A]
2/6/2005	11.96[A]
2/7/2005	12.10[A]
2/8/2005	12.22[A]
2/9/2005	12.52[A]
2/10/2005	12.74[A]
2/11/2005	12.63[A]
2/12/2005	12.44[A]
2/13/2005	12.28[A]
2/14/2005	12.14[A]
2/15/2005	12.03[A]
2/16/2005	11.93[A]
2/17/2005	11.86[A]
2/18/2005	11.80[A]
2/19/2005	11.76[A]
2/20/2005	11.74[A]
2/21/2005	11.72[A]
2/22/2005	11.69[A]
2/23/2005	11.73[A]
2/24/2005	11.82[A]
2/25/2005	11.87[A]
2/26/2005	11.91[A]
2/27/2005	11.90[A]
2/28/2005	11.87[A]

Date	Gage height (ft)
3/1/2005	11.83[A]
3/2/2005	11.80[A]
3/3/2005	11.76[A]
3/4/2005	11.73[A]
3/5/2005	11.71[A]
3/6/2005	11.70[A]
3/7/2005	11.68[A]
3/8/2005	11.66[A]
3/9/2005	11.65[A]
3/10/2005	11.65[A]
3/11/2005	11.62[A]
3/12/2005	11.61[A]
3/13/2005	11.60[A]
3/14/2005	11.57[A]
3/15/2005	11.57[A]
3/16/2005	11.54[A]
3/17/2005	11.54[A]
3/18/2005	11.54[A]
3/19/2005	11.53[A]
3/20/2005	11.54[A]
3/21/2005	11.57[A]
3/22/2005	11.81[A]
3/23/2005	11.90[A]
3/24/2005	11.83[A]
3/25/2005	11.78[A]
3/26/2005	11.73[A]
3/27/2005	11.74[A]
3/28/2005	11.80[A]
3/29/2005	11.82[A]
3/30/2005	11.82[A]
3/31/2005	11.79[A]

Date	Gage height (ft)
4/1/2005	11.79[A]
4/2/2005	11.76[A]
4/3/2005	11.73[A]
4/4/2005	11.70[A]
4/5/2005	11.69[A]
4/6/2005	11.73[A]
4/7/2005	11.71[A]
4/8/2005	11.70[A]
4/9/2005	11.68[A]
4/10/2005	11.66[A]
4/11/2005	11.85[A]
4/12/2005	12.09[A]
4/13/2005	12.16[A]
4/14/2005	12.16[A]
4/15/2005	12.03[A]
4/16/2005	11.93[A]
4/17/2005	11.84[A]
4/18/2005	11.77[A]
4/19/2005	11.71[A]
4/20/2005	11.66[A]
4/21/2005	11.62[A]
4/22/2005	11.58[A]
4/23/2005	11.53[A]
4/24/2005	11.49[A]
4/25/2005	11.48[A]
4/26/2005	11.47[A]
4/27/2005	11.47[A]
4/28/2005	11.45[A]
4/29/2005	11.43[A]
4/30/2005	11.41[A]

Date	Gage height (ft)
5/1/2005	11.41[A]
5/2/2005	11.39[A]
5/3/2005	11.37[A]
5/4/2005	11.36[A]
5/5/2005	11.36[A]
5/6/2005	11.35[A]
5/7/2005	11.34[A]
5/8/2005	11.33[A]
5/9/2005	11.33[A]
5/10/2005	11.33[A]
5/11/2005	11.32[A]
5/12/2005	11.31[A]
5/13/2005	11.29[A]
5/14/2005	11.28[A]
5/15/2005	11.26[A]
5/16/2005	11.24[A]
5/17/2005	11.23[A]
5/18/2005	11.21[A]
5/19/2005	11.20[A]
5/20/2005	11.18[A]
5/21/2005	11.17[A]
5/22/2005	11.15[A]
5/23/2005	11.13[A]
5/24/2005	11.12[A]
5/25/2005	11.11[A]
5/26/2005	11.08[A]
5/27/2005	11.07[A]
5/28/2005	11.07[A]
5/29/2005	11.10[A]
5/30/2005	11.11[A]
5/31/2005	11.10[A]

Date	Gage height (ft)
6/1/2005	11.10[A]
6/2/2005	11.12[A]
6/3/2005	11.12[A]
6/4/2005	11.11[A]
6/5/2005	11.09[A]
6/6/2005	11.08[A]
6/7/2005	11.07[A]
6/8/2005	11.05[A]
6/9/2005	11.04[A]
6/10/2005	11.02[A]
6/11/2005	11.00[A]
6/12/2005	10.98[A]
6/13/2005	10.96[A]
6/14/2005	10.94[A]
6/15/2005	10.92[A]
6/16/2005	10.91[A]
6/17/2005	10.93[A]
6/18/2005	10.92[A]
6/19/2005	10.89[A]
6/20/2005	10.87[A]
6/21/2005	10.85[A]
6/22/2005	10.83[A]
6/23/2005	10.82[A]
6/24/2005	10.80[A]
6/25/2005	10.78[A]
6/26/2005	10.76[A]
6/27/2005	10.73[A]
6/28/2005	10.71[A]
6/29/2005	10.69[A]
6/30/2005	10.67[A]

Date	Gage height (ft)
7/1/2005	10.66[A]
7/2/2005	10.66[A]
7/3/2005	10.65[A]
7/4/2005	10.63[A]
7/5/2005	10.63[A]
7/6/2005	10.62[A]
7/7/2005	10.61[A]
7/8/2005	10.60[A]
7/9/2005	10.58[A]
7/10/2005	10.56[A]
7/11/2005	10.54[A]
7/12/2005	10.53[A]
7/13/2005	10.52[A]
7/14/2005	10.51[A]
7/15/2005	10.55[A]
7/16/2005	10.64[A]
7/17/2005	10.63[A]
7/18/2005	10.63[A]
7/19/2005	10.61[A]
7/20/2005	10.60[A]
7/21/2005	10.59[A]
7/22/2005	10.59[A]
7/23/2005	10.57[A]
7/24/2005	10.55[A]
7/25/2005	10.53[A]
7/26/2005	10.51[A]
7/27/2005	10.51[A]
7/28/2005	10.66[A]
7/29/2005	10.66[A]
7/30/2005	10.64[A]
7/31/2005	10.62[A]

Date	Gage height (ft)
8/1/2005	10.60[A]
8/2/2005	10.58[A]
8/3/2005	10.56[A]
8/4/2005	10.54[A]
8/5/2005	10.52[A]
8/6/2005	10.50[A]
8/7/2005	10.49[A]
8/8/2005	10.49[A]
8/9/2005	10.47[A]
8/10/2005	10.48[A]
8/11/2005	10.46[A]
8/12/2005	10.44[A]
8/13/2005	10.42[A]
8/14/2005	10.40[A]
8/15/2005	10.41[A]
8/16/2005	10.45[A]
8/17/2005	10.43[A]
8/18/2005	10.41[A]
8/19/2005	10.39[A]
8/20/2005	10.37[A]
8/21/2005	10.35[A]
8/22/2005	10.33[A]
8/23/2005	10.33[A]
8/24/2005	10.49[A]
8/25/2005	10.49[A]
8/26/2005	10.47[A]
8/27/2005	10.47[A]
8/28/2005	10.51[A]
8/29/2005	10.49[A]
8/30/2005	10.48[A]
8/31/2005	10.46[A]

Date	Gage height (ft)
9/1/2005	10.45[A]
9/2/2005	10.43[A]
9/3/2005	10.41[A]
9/4/2005	10.38[A]
9/5/2005	10.36[A]
9/6/2005	10.35[A]
9/7/2005	10.33[A]
9/8/2005	10.30[A]
9/9/2005	10.29[A]
9/10/2005	10.27[A]
9/11/2005	10.25[A]
9/12/2005	10.24[A]
9/13/2005	10.23[A]
9/14/2005	10.21[A]
9/15/2005	10.19[A]
9/16/2005	10.19[A]
9/17/2005	10.18[A]
9/18/2005	10.17[A]
9/19/2005	10.15[A]
9/20/2005	10.14[A]
9/21/2005	10.12[A]
9/22/2005	10.11[A]
9/23/2005	10.09[A]
9/24/2005	10.22[A]
9/25/2005	10.42[A]
9/26/2005	10.43[A]
9/27/2005	10.43[A]
9/28/2005	10.43[A]
9/29/2005	10.41[A]
9/30/2005	10.40[A]

Preliminary

October 2003- September 2004

USGS 07346450 Black Bayou at Rodessa, LA
Latitude 32°57'31", Longitude 93°59'38" NAD83
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Drainage area: 177.00 square miles,Datum of gage: 171.60 feet above NAVD88.

Date	Gage height (ft)
10/1/2003	10.68[A]
10/2/2003	10.67[A]
10/3/2003	10.65[A]
10/4/2003	10.64[A]
10/5/2003	10.74[A]
10/6/2003	10.81[A]
10/7/2003	10.81[A]
10/8/2003	10.81[A]
10/9/2003	10.82[A]
10/10/2003	10.82[A]
10/11/2003	10.82[A]
10/12/2003	10.81[A]
10/13/2003	10.82[A]
10/14/2003	10.80[A]
10/15/2003	10.79[A]
10/16/2003	10.79[A]
10/17/2003	10.77[A]
10/18/2003	[P]
10/19/2003	10.75[A]
10/20/2003	10.75[A]
10/21/2003	10.74[A]
10/22/2003	10.73[A]
10/23/2003	10.72[A]
10/24/2003	10.72[A]
10/25/2003	10.72[A]
10/26/2003	10.73[A]
10/27/2003	10.72[A]
10/28/2003	10.71[A]
10/29/2003	10.71[A]
10/30/2003	10.71[A]
10/31/2003	10.70[A]

Date	Gage height (ft)
11/1/2003	10.69[A]
11/2/2003	10.69[A]
11/3/2003	10.69[A]
11/4/2003	10.68[A]
11/5/2003	10.67[A]
11/6/2003	10.67[A]
11/7/2003	10.67[A]
11/8/2003	10.67[A]
11/9/2003	10.67[A]
11/10/2003	10.67[A]
11/11/2003	10.67[A]
11/12/2003	10.67[A]
11/13/2003	10.66[A]
11/14/2003	10.65[A]
11/15/2003	10.66[A]
11/16/2003	10.67[A]
11/17/2003	10.70[A]
11/18/2003	10.78[A]
11/19/2003	10.78[A]
11/20/2003	10.79[A]
11/21/2003	10.80[A]
11/22/2003	10.81[A]
11/23/2003	10.81[A]
11/24/2003	10.82[A]
11/25/2003	10.83[A]
11/26/2003	10.83[A]
11/27/2003	10.82[A]
11/28/2003	10.81[A]
11/29/2003	10.82[A]
11/30/2003	10.82[A]

Date	Gage height (ft)
12/1/2003	10.82[A]
12/2/2003	10.82[A]
12/3/2003	10.83[A]
12/4/2003	10.82[A]
12/5/2003	10.81[A]
12/6/2003	10.82[A]
12/7/2003	10.83[A]
12/8/2003	10.83[A]
12/9/2003	10.84[A]
12/10/2003	10.83[A]
12/11/2003	10.86[A]
12/12/2003	10.87[A]
12/13/2003	10.92[A]
12/14/2003	10.94[A]
12/15/2003	10.97[A]
12/16/2003	10.96[A]
12/17/2003	10.97[A]
12/18/2003	10.98[A]
12/19/2003	10.99[A]
12/20/2003	11.00[A]
12/21/2003	11.02[A]
12/22/2003	11.03[A]
12/23/2003	11.06[A]
12/24/2003	11.09[A]
12/25/2003	11.10[A]
12/26/2003	11.11[A]
12/27/2003	11.13[A]
12/28/2003	11.14[A]
12/29/2003	11.22[A]
12/30/2003	11.25[A]
12/31/2003	11.27[A]

Date	Gage height (ft)
1/1/2004	11.30[A]
1/2/2004	11.33[A]
1/3/2004	11.37[A]
1/4/2004	11.38[A]
1/5/2004	11.37[A]
1/6/2004	11.37[A]
1/7/2004	11.38[A]
1/8/2004	11.39[A]
1/9/2004	11.39[A]
1/10/2004	11.40[A]
1/11/2004	11.41[A]
1/12/2004	11.41[A]
1/13/2004	11.41[A]
1/14/2004	11.42[A]
1/15/2004	11.43[A]
1/16/2004	11.44[A]
1/17/2004	11.52[A]
1/18/2004	11.53[A]
1/19/2004	11.54[A]
1/20/2004	11.55[A]
1/21/2004	11.54[A]
1/22/2004	11.54[A]
1/23/2004	11.54[A]
1/24/2004	11.62[A]
1/25/2004	11.95[A]
1/26/2004	11.93[A]
1/27/2004	11.87[A]
1/28/2004	11.90[A]
1/29/2004	11.91[A]
1/30/2004	11.89[A]
1/31/2004	11.85[A]

Date	Gage height (ft)
2/1/2004	11.80[A]
2/2/2004	11.76[A]
2/3/2004	11.73[A]
2/4/2004	11.71[A]
2/5/2004	11.77[A]
2/6/2004	11.78[A]
2/7/2004	11.77[A]
2/8/2004	11.81[A]
2/9/2004	11.83[A]
2/10/2004	11.86[A]
2/11/2004	11.95[A]
2/12/2004	12.16[A]
2/13/2004	12.17[A]
2/14/2004	12.23[A]
2/15/2004	12.32[A]
2/16/2004	12.31[A]
2/17/2004	12.27[A]
2/18/2004	12.21[A]
2/19/2004	12.15[A]
2/20/2004	12.05[A]
2/21/2004	11.98[A]
2/22/2004	11.91[A]
2/23/2004	11.86[A]
2/24/2004	11.84[A]
2/25/2004	12.07[A]
2/26/2004	12.32[A]
2/27/2004	12.34[A]
2/28/2004	12.34[A]
2/29/2004	12.33[A]

Date	Gage height (ft)
3/1/2004	12.81[A]
3/2/2004	12.78[A]
3/3/2004	12.57[A]
3/4/2004	12.45[A]
3/5/2004	12.54[A]
3/6/2004	12.47[A]
3/7/2004	12.40[A]
3/8/2004	12.35[A]
3/9/2004	12.25[A]
3/10/2004	12.15[A]
3/11/2004	12.05[A]
3/12/2004	11.96[A]
3/13/2004	11.89[A]
3/14/2004	11.94[A]
3/15/2004	12.04[A]
3/16/2004	12.05[A]
3/17/2004	12.07[A]
3/18/2004	12.04[A]
3/19/2004	11.98[A]
3/20/2004	11.93[A]
3/21/2004	11.87[A]
3/22/2004	11.82[A]
3/23/2004	11.78[A]
3/24/2004	11.74[A]
3/25/2004	11.73[A]
3/26/2004	11.71[A]
3/27/2004	11.70[A]
3/28/2004	11.70[A]
3/29/2004	11.85[A]
3/30/2004	11.88[A]
3/31/2004	11.84[A]

Date	Gage height (ft)
4/1/2004	11.81[A]
4/2/2004	11.77[A]
4/3/2004	11.73[A]
4/4/2004	11.70[A]
4/5/2004	11.68[A]
4/6/2004	11.65[A]
4/7/2004	11.64[A]
4/8/2004	11.67[A]
4/9/2004	11.66[A]
4/10/2004	11.68[A]
4/11/2004	11.76[A]
4/12/2004	11.86[A]
4/13/2004	12.01[A]
4/14/2004	12.02[A]
4/15/2004	11.99[A]
4/16/2004	11.93[A]
4/17/2004	11.87[A]
4/18/2004	11.82[A]
4/19/2004	11.76[A]
4/20/2004	11.72[A]
4/21/2004	11.69[A]
4/22/2004	11.66[A]
4/23/2004	11.63[A]
4/24/2004	11.63[A]
4/25/2004	11.72[A]
4/26/2004	11.81[A]
4/27/2004	11.80[A]
4/28/2004	11.80[A]
4/29/2004	11.82[A]
4/30/2004	11.87[A]

Date	Gage height (ft)
5/1/2004	12.13[A]
5/2/2004	12.51[A]
5/3/2004	12.53[A]
5/4/2004	12.58[A]
5/5/2004	12.54[A]
5/6/2004	12.40[A]
5/7/2004	12.24[A]
5/8/2004	12.07[A]
5/9/2004	11.95[A]
5/10/2004	11.85[A]
5/11/2004	11.79[A]
5/12/2004	11.81[A]
5/13/2004	11.79[A]
5/14/2004	11.76[A]
5/15/2004	11.73[A]
5/16/2004	11.70[A]
5/17/2004	11.67[A]
5/18/2004	11.64[A]
5/19/2004	11.62[A]
5/20/2004	11.59[A]
5/21/2004	11.57[A]
5/22/2004	11.54[A]
5/23/2004	11.51[A]
5/24/2004	11.49[A]
5/25/2004	11.47[A]
5/26/2004	11.45[A]
5/27/2004	11.43[A]
5/28/2004	11.44[A]
5/29/2004	11.44[A]
5/30/2004	11.42[A]
5/31/2004	11.41[A]

Date	Gage height (ft)
6/1/2004	11.46[A]
6/2/2004	11.58[A]
6/3/2004	11.67[A]
6/4/2004	11.66[A]
6/5/2004	11.65[A]
6/6/2004	11.91[A]
6/7/2004	12.09[A]
6/8/2004	12.07[A]
6/9/2004	12.15[A]
6/10/2004	12.15[A]
6/11/2004	12.07[A]
6/12/2004	11.97[A]
6/13/2004	11.90[A]
6/14/2004	11.86[A]
6/15/2004	11.98[A]
6/16/2004	12.61[A]
6/17/2004	12.55[A]
6/18/2004	12.78[A]
6/19/2004	13.06[A]
6/20/2004	13.02[A]
6/21/2004	12.79[A]
6/22/2004	12.58[A]
6/23/2004	12.36[A]
6/24/2004	12.22[A]
6/25/2004	12.11[A]
6/26/2004	12.01[A]
6/27/2004	12.01[A]
6/28/2004	12.17[A]
6/29/2004	12.37[A]
6/30/2004	12.58[A]

Date	Gage height (ft)
7/1/2004	12.70[A]
7/2/2004	12.70[A]
7/3/2004	12.64[A]
7/4/2004	12.57[A]
7/5/2004	12.43[A]
7/6/2004	12.24[A]
7/7/2004	12.10[A]
7/8/2004	11.98[A]
7/9/2004	11.89[A]
7/10/2004	11.82[A]
7/11/2004	11.75[A]
7/12/2004	11.70[A]
7/13/2004	11.65[A]
7/14/2004	11.61[A]
7/15/2004	11.57[A]
7/16/2004	11.54[A]
7/17/2004	11.51[A]
7/18/2004	11.48[A]
7/19/2004	11.46[A]
7/20/2004	11.43[A]
7/21/2004	11.41[A]
7/22/2004	11.39[A]
7/23/2004	11.37[A]
7/24/2004	11.35[A]
7/25/2004	11.32[A]
7/26/2004	11.30[A]
7/27/2004	11.29[A]
7/28/2004	11.27[A]
7/29/2004	11.26[A]
7/30/2004	11.26[A]
7/31/2004	11.25[A]

Date	Gage height (ft)
8/1/2004	11.24[A]
8/2/2004	11.22[A]
8/3/2004	11.21[A]
8/4/2004	11.19[A]
8/5/2004	11.16[A]
8/6/2004	11.14[A]
8/7/2004	11.12[A]
8/8/2004	11.09[A]
8/9/2004	11.08[A]
8/10/2004	11.07[A]
8/11/2004	11.05[A]
8/12/2004	11.03[A]
8/13/2004	11.01[A]
8/14/2004	10.99[A]
8/15/2004	10.97[A]
8/16/2004	10.95[A]
8/17/2004	10.93[A]
8/18/2004	10.92[A]
8/19/2004	10.94[A]
8/20/2004	11.00[A]
8/21/2004	11.00[A]
8/22/2004	11.01[A]
8/23/2004	11.03[A]
8/24/2004	11.04[A]
8/25/2004	11.03[A]
8/26/2004	11.02[A]
8/27/2004	11.00[A]
8/28/2004	10.98[A]
8/29/2004	10.97[A]
8/30/2004	10.95[A]
8/31/2004	10.93[A]

Date	Gage height (ft)
9/1/2004	10.91[A]
9/2/2004	10.89[A]
9/3/2004	10.89[A]
9/4/2004	10.87[A]
9/5/2004	10.86[A]
9/6/2004	10.85[A]
9/7/2004	10.84[A]
9/8/2004	10.82[A]
9/9/2004	10.81[A]
9/10/2004	10.79[A]
9/11/2004	10.78[A]
9/12/2004	10.76[A]
9/13/2004	10.75[A]
9/14/2004	10.74[A]
9/15/2004	10.72[A]
9/16/2004	10.70[A]
9/17/2004	10.69[A]
9/18/2004	10.67[A]
9/19/2004	10.65[A]
9/20/2004	10.63[A]
9/21/2004	10.62[A]
9/22/2004	10.60[A]
9/23/2004	10.59[A]
9/24/2004	10.67[A]
9/25/2004	10.81[A]
9/26/2004	10.81[A]
9/27/2004	10.79[A]
9/28/2004	10.79[A]
9/29/2004	10.77[A]
9/30/2004	10.76[A]

Preliminary

October 2002- September 2003

USGS 07346450 Black Bayou at Rodessa, LA
Latitude 32°57'31", Longitude 93°59'38" NAD83
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Drainage area: 177.00 square miles,Datum of gage: 171.60 feet above NAVD88.

Date	Gage height (ft)
10/1/2002	10.95[A]
10/2/2002	10.93[A]
10/3/2002	10.93[A]
10/4/2002	10.92[A]
10/5/2002	10.90[A]
10/6/2002	10.89[A]
10/7/2002	10.90[A]
10/8/2002	10.89[A]
10/9/2002	10.89[A]
10/10/2002	10.96[A]
10/11/2002	10.98[A]
10/12/2002	10.98[A]
10/13/2002	10.97[A]
10/14/2002	10.96[A]
10/15/2002	10.95[A]
10/16/2002	10.94[A]
10/17/2002	10.93[A]
10/18/2002	10.93[A]
10/19/2002	11.01[A]
10/20/2002	11.08[A]
10/21/2002	11.09[A]
10/22/2002	11.11[A]
10/23/2002	11.13[A]
10/24/2002	11.14[A]
10/25/2002	11.19[A]
10/26/2002	11.21[A]
10/27/2002	11.22[A]
10/28/2002	11.24[A]
10/29/2002	11.33[A]
10/30/2002	11.35[A]
10/31/2002	11.35[A]

Date	Gage height (ft)
11/1/2002	11.35[A]
11/2/2002	11.36[A]
11/3/2002	11.39[A]
11/4/2002	11.44[A]
11/5/2002	11.59[A]
11/6/2002	11.61[A]
11/7/2002	11.60[A]
11/8/2002	11.61[A]
11/9/2002	11.60[A]
11/10/2002	11.58[A]
11/11/2002	11.56[A]
11/12/2002	11.53[A]
11/13/2002	11.51[A]
11/14/2002	11.51[A]
11/15/2002	11.49[A]
11/16/2002	11.48[A]
11/17/2002	11.47[A]
11/18/2002	11.46[A]
11/19/2002	11.45[A]
11/20/2002	11.43[A]
11/21/2002	11.42[A]
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11/23/2002	11.41[A]
11/24/2002	11.41[A]
11/25/2002	11.43[A]
11/26/2002	11.46[A]
11/27/2002	11.46[A]
11/28/2002	11.46[A]
11/29/2002	11.46[A]
11/30/2002	11.45[A]

Date	Gage height (ft)
12/1/2002	11.46[A]
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12/3/2002	11.47[A]
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12/5/2002	11.63[A]
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12/8/2002	11.67[A]
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12/10/2002	11.69[A]
12/11/2002	11.69[A]
12/12/2002	11.69[A]
12/13/2002	11.77[A]
12/14/2002	11.79[A]
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12/17/2002	11.80[A]
12/18/2002	11.84[A]
12/19/2002	12.24[A]
12/20/2002	12.19[A]
12/21/2002	12.08[A]
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12/23/2002	11.98[A]
12/24/2002	12.26[A]
12/25/2002	12.35[A]
12/26/2002	12.62[A]
12/27/2002	12.67[A]
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12/29/2002	12.37[A]
12/30/2002	12.25[A]
12/31/2002	12.41[A]

Date	Gage height (ft)
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1/5/2003	12.37[A]
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1/7/2003	12.10[A]
1/8/2003	12.00[A]
1/9/2003	11.92[A]
1/10/2003	11.85[A]
1/11/2003	11.80[A]
1/12/2003	11.77[A]
1/13/2003	11.73[A]
1/14/2003	11.71[A]
1/15/2003	11.70[A]
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1/25/2003	11.59[A]
1/26/2003	11.58[A]
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1/29/2003	11.58[A]
1/30/2003	11.58[A]
1/31/2003	11.58[A]

Date	Gage height (ft)
2/1/2003	11.58[A]
2/2/2003	11.59[A]
2/3/2003	11.58[A]
2/4/2003	11.56[A]
2/5/2003	11.57[A]
2/6/2003	11.67[A]
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2/8/2003	11.78[A]
2/9/2003	11.87[A]
2/10/2003	11.95[A]
2/11/2003	11.96[A]
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2/19/2003	12.45[A]
2/20/2003	12.42[A]
2/21/2003	12.68[A]
2/22/2003	13.56[A]
2/23/2003	14.06[A]
2/24/2003	14.10[A]
2/25/2003	13.90[A]
2/26/2003	13.65[A]
2/27/2003	13.46[A]
2/28/2003	13.34[A]

Date	Gage height (ft)
3/1/2003	13.13[A]
3/2/2003	12.89[A]
3/3/2003	12.68[A]
3/4/2003	12.50[A]
3/5/2003	12.34[A]
3/6/2003	12.22[A]
3/7/2003	12.13[A]
3/8/2003	12.06[A]
3/9/2003	12.01[A]
3/10/2003	11.96[A]
3/11/2003	11.91[A]
3/12/2003	11.88[A]
3/13/2003	11.86[A]
3/14/2003	11.85[A]
3/15/2003	11.85[A]
3/16/2003	11.84[A]
3/17/2003	11.83[A]
3/18/2003	11.87[A]
3/19/2003	12.08[A]
3/20/2003	12.11[A]
3/21/2003	12.20[A]
3/22/2003	12.27[A]
3/23/2003	12.22[A]
3/24/2003	12.14[A]
3/25/2003	12.05[A]
3/26/2003	12.15[A]
3/27/2003	12.12[A]
3/28/2003	12.06[A]
3/29/2003	12.02[A]
3/30/2003	11.97[A]
3/31/2003	11.92[A]

Date	Gage height (ft)
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4/2/2003	11.82[A]
4/3/2003	11.79[A]
4/4/2003	11.76[A]
4/5/2003	11.75[A]
4/6/2003	11.79[A]
4/7/2003	11.90[A]
4/8/2003	11.85[A]
4/9/2003	11.79[A]
4/10/2003	11.76[A]
4/11/2003	11.73[A]
4/12/2003	11.71[A]
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4/15/2003	11.65[A]
4/16/2003	11.62[A]
4/17/2003	11.58[A]
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4/19/2003	11.57[A]
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4/23/2003	11.50[A]
4/24/2003	11.56[A]
4/25/2003	11.59[A]
4/26/2003	11.62[A]
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4/28/2003	11.63[A]
4/29/2003	11.62[A]
4/30/2003	11.60[A]

Date	Gage height (ft)
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5/3/2003	11.53[A]
5/4/2003	11.53[A]
5/5/2003	11.51[A]
5/6/2003	11.50[A]
5/7/2003	11.77[A]
5/8/2003	11.87[A]
5/9/2003	11.87[A]
5/10/2003	11.92[A]
5/11/2003	11.90[A]
5/12/2003	11.84[A]
5/13/2003	11.82[A]
5/14/2003	11.83[A]
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5/17/2003	13.38[A]
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5/20/2003	12.70[A]
5/21/2003	12.43[A]
5/22/2003	12.20[A]
5/23/2003	12.02[A]
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5/26/2003	11.76[A]
5/27/2003	11.71[A]
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5/30/2003	11.60[A]
5/31/2003	11.57[A]

Date	Gage height (ft)
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6/2/2003	11.51[A]
6/3/2003	11.49[A]
6/4/2003	11.47[A]
6/5/2003	11.44[A]
6/6/2003	11.48[A]
6/7/2003	11.49[A]
6/8/2003	11.47[A]
6/9/2003	11.45[A]
6/10/2003	11.44[A]
6/11/2003	11.47[A]
6/12/2003	11.47[A]
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6/15/2003	11.62[A]
6/16/2003	11.69[A]
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6/19/2003	12.23[A]
6/20/2003	12.14[A]
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6/23/2003	11.83[A]
6/24/2003	11.76[A]
6/25/2003	11.71[A]
6/26/2003	11.66[A]
6/27/2003	11.62[A]
6/28/2003	11.58[A]
6/29/2003	11.55[A]
6/30/2003	11.53[A]

Date	Gage height (ft)
7/1/2003	11.51[A]
7/2/2003	11.49[A]
7/3/2003	11.46[A]
7/4/2003	11.45[A]
7/5/2003	11.46[A]
7/6/2003	11.44[A]
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7/8/2003	11.40[A]
7/9/2003	11.38[A]
7/10/2003	11.36[A]
7/11/2003	11.34[A]
7/12/2003	11.32[A]
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7/16/2003	11.25[A]
7/17/2003	11.23[A]
7/18/2003	11.22[A]
7/19/2003	11.20[A]
7/20/2003	11.19[A]
7/21/2003	11.18[A]
7/22/2003	11.16[A]
7/23/2003	11.14[A]
7/24/2003	11.12[A]
7/25/2003	11.10[A]
7/26/2003	11.08[A]
7/27/2003	11.07[A]
7/28/2003	11.06[A]
7/29/2003	11.04[A]
7/30/2003	11.04[A]
7/31/2003	11.10[A]

Date	Gage height (ft)
8/1/2003	11.11[A]
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8/3/2003	11.08[A]
8/4/2003	11.07[A]
8/5/2003	11.06[A]
8/6/2003	11.05[A]
8/7/2003	11.03[A]
8/8/2003	11.01[A]
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8/10/2003	10.97[A]
8/11/2003	10.98[A]
8/12/2003	11.12[A]
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8/14/2003	11.15[A]
8/15/2003	11.15[A]
8/16/2003	11.15[A]
8/17/2003	11.13[A]
8/18/2003	11.12[A]
8/19/2003	11.11[A]
8/20/2003	11.09[A]
8/21/2003	11.08[A]
8/22/2003	11.06[A]
8/23/2003	11.05[A]
8/24/2003	11.03[A]
8/25/2003	11.01[A]
8/26/2003	11.00[A]
8/27/2003	10.98[A]
8/28/2003	10.96[A]
8/29/2003	10.94[A]
8/30/2003	10.93[A]
8/31/2003	10.93[A]

Date	Gage height (ft)
9/1/2003	10.95[A]
9/2/2003	10.95[A]
9/3/2003	10.95[A]
9/4/2003	10.94[A]
9/5/2003	10.91[A]
9/6/2003	10.89[A]
9/7/2003	10.87[A]
9/8/2003	10.86[A]
9/9/2003	10.85[A]
9/10/2003	10.84[A]
9/11/2003	10.83[A]
9/12/2003	10.85[A]
9/13/2003	10.87[A]
9/14/2003	10.86[A]
9/15/2003	10.85[A]
9/16/2003	10.84[A]
9/17/2003	10.82[A]
9/18/2003	10.81[A]
9/19/2003	10.79[A]
9/20/2003	10.78[A]
9/21/2003	10.78[A]
9/22/2003	10.81[A]
9/23/2003	10.80[A]
9/24/2003	10.79[A]
9/25/2003	10.78[A]
9/26/2003	10.77[A]
9/27/2003	10.75[A]
9/28/2003	10.73[A]
9/29/2003	10.72[A]
9/30/2003	10.70[A]

Preliminary

October 2001- September 2002

USGS 07346450 Black Bayou at Rodessa, LA
Latitude 32°57'31", Longitude 93°59'38" NAD83
Caddo Parish, Louisiana, Hydrologic Unit 11140304
Drainage area: 177.00 square miles,Datum of gage: 171.60 feet above NAVD88.

Date	Gage height (ft)
10/1/2001	11.57[A]
10/2/2001	11.54[A]
10/3/2001	11.51[A]
10/4/2001	11.49[A]
10/5/2001	11.48[A]
10/6/2001	11.51[A]
10/7/2001	11.51[A]
10/8/2001	11.52[A]
10/9/2001	11.54[A]
10/10/2001	11.59[A]
10/11/2001	13.87[A]
10/12/2001	17.40[A]
10/13/2001	17.04[A]
10/14/2001	16.54[A]
10/15/2001	15.83[A]
10/16/2001	15.00[A]
10/17/2001	14.24[A]
10/18/2001	13.52[A]
10/19/2001	12.91[A]
10/20/2001	12.50[A]
10/21/2001	12.22[A]
10/22/2001	12.04[A]
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10/24/2001	11.83[A]
10/25/2001	11.75[A]
10/26/2001	11.70[A]
10/27/2001	11.65[A]
10/28/2001	11.62[A]
10/29/2001	11.59[A]
10/30/2001	11.57[A]
10/31/2001	11.56[A]

Date	Gage height (ft)
11/1/2001	11.55[A]
11/2/2001	11.54[A]
11/3/2001	11.53[A]
11/4/2001	11.53[A]
11/5/2001	11.52[A]
11/6/2001	11.51[A]
11/7/2001	11.51[A]
11/8/2001	11.51[A]
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11/11/2001	11.50[A]
11/12/2001	11.49[A]
11/13/2001	11.50[A]
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11/17/2001	11.51[A]
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11/19/2001	11.51[A]
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11/23/2001	11.53[A]
11/24/2001	11.54[A]
11/25/2001	11.54[A]
11/26/2001	11.55[A]
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11/28/2001	11.86[A]
11/29/2001	12.88[A]
11/30/2001	13.89[A]

Date	Gage height (ft)
12/1/2001	13.94[A]
12/2/2001	13.57[A]
12/3/2001	13.14[A]
12/4/2001	12.77[A]
12/5/2001	12.49[A]
12/6/2001	12.29[A]
12/7/2001	12.15[A]
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12/9/2001	12.09[A]
12/10/2001	12.13[A]
12/11/2001	12.19[A]
12/12/2001	12.80[A]
12/13/2001	13.76[A]
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12/17/2001	16.03[A]
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12/19/2001	15.60[A]
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12/21/2001	13.65[A]
12/22/2001	13.06[A]
12/23/2001	12.68[A]
12/24/2001	12.44[A]
12/25/2001	12.28[A]
12/26/2001	12.16[A]
12/27/2001	12.08[A]
12/28/2001	12.01[A]
12/29/2001	11.96[A]
12/30/2001	11.92[A]
12/31/2001	11.88[A]

Date	Gage height (ft)
1/1/2002	11.85[A]
1/2/2002	11.82[A]
1/3/2002	11.79[A]
1/4/2002	11.78[A]
1/5/2002	11.86[A]
1/6/2002	12.05[A]
1/7/2002	12.12[A]
1/8/2002	12.17[A]
1/9/2002	12.17[A]
1/10/2002	12.12[A]
1/11/2002	12.05[A]
1/12/2002	11.98[A]
1/13/2002	11.93[A]
1/14/2002	11.87[A]
1/15/2002	11.84[A]
1/16/2002	11.81[A]
1/17/2002	11.79[A]
1/18/2002	11.78[A]
1/19/2002	11.81[A]
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1/21/2002	11.86[A]
1/22/2002	11.86[A]
1/23/2002	11.86[A]
1/24/2002	11.94[A]
1/25/2002	12.08[A]
1/26/2002	12.06[A]
1/27/2002	12.05[A]
1/28/2002	12.03[A]
1/29/2002	12.00[A]
1/30/2002	11.96[A]
1/31/2002	11.94[A]

Date	Gage height (ft)
2/1/2002	11.94[A]
2/2/2002	11.92[A]
2/3/2002	11.91[A]
2/4/2002	11.89[A]
2/5/2002	11.91[A]
2/6/2002	12.09[A]
2/7/2002	12.16[A]
2/8/2002	12.22[A]
2/9/2002	12.25[A]
2/10/2002	12.18[A]
2/11/2002	12.10[A]
2/12/2002	12.03[A]
2/13/2002	11.96[A]
2/14/2002	11.91[A]
2/15/2002	11.86[A]
2/16/2002	11.82[A]
2/17/2002	11.80[A]
2/18/2002	11.78[A]
2/19/2002	11.91[A]
2/20/2002	12.30[A]
2/21/2002	12.30[A]
2/22/2002	12.31[A]
2/23/2002	12.28[A]
2/24/2002	12.20[A]
2/25/2002	12.08[A]
2/26/2002	11.94[A]
2/27/2002	11.87[A]
2/28/2002	11.83[A]

Date	Gage height (ft)
3/1/2002	11.81[A]
3/2/2002	11.77[A]
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3/4/2002	11.72[A]
3/5/2002	11.72[A]
3/6/2002	11.71[A]
3/7/2002	11.71[A]
3/8/2002	11.71[A]
3/9/2002	11.69[A]
3/10/2002	11.69[A]
3/11/2002	11.71[A]
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3/18/2002	12.95[A]
3/19/2002	13.46[A]
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3/21/2002	14.49[A]
3/22/2002	14.27[A]
3/23/2002	13.77[A]
3/24/2002	13.24[A]
3/25/2002	12.81[A]
3/26/2002	12.50[A]
3/27/2002	12.30[A]
3/28/2002	12.17[A]
3/29/2002	12.07[A]
3/30/2002	12.06[A]
3/31/2002	12.43[A]

Date	Gage height (ft)
4/1/2002	13.35[A]
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4/3/2002	13.39[A]
4/4/2002	12.95[A]
4/5/2002	12.59[A]
4/6/2002	12.33[A]
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4/20/2002	11.83[A]
4/21/2002	11.78[A]
4/22/2002	11.75[A]
4/23/2002	11.72[A]
4/24/2002	11.70[A]
4/25/2002	11.67[A]
4/26/2002	11.65[A]
4/27/2002	11.63[A]
4/28/2002	11.62[A]
4/29/2002	11.61[A]
4/30/2002	11.60[A]

Date	Gage height (ft)
5/1/2002	11.59[A]
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5/3/2002	11.60[A]
5/4/2002	11.65[A]
5/5/2002	11.69[A]
5/6/2002	11.77[A]
5/7/2002	11.90[A]
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5/10/2002	11.91[A]
5/11/2002	11.93[A]
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5/18/2002	11.83[A]
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Date	Gage height (ft)
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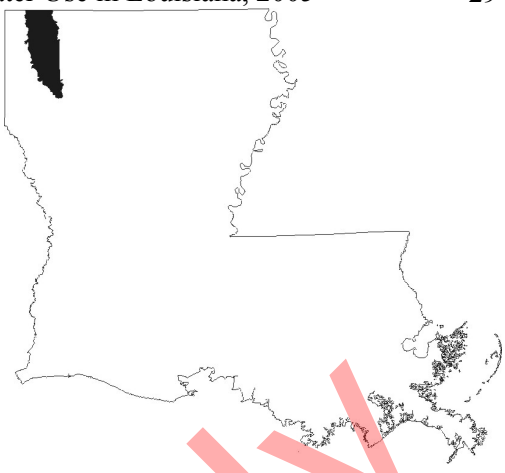
Preliminary

APPENDIX J

Preview Only

BOSSIER



Population: 104,080

Population served by public supply: 88,052

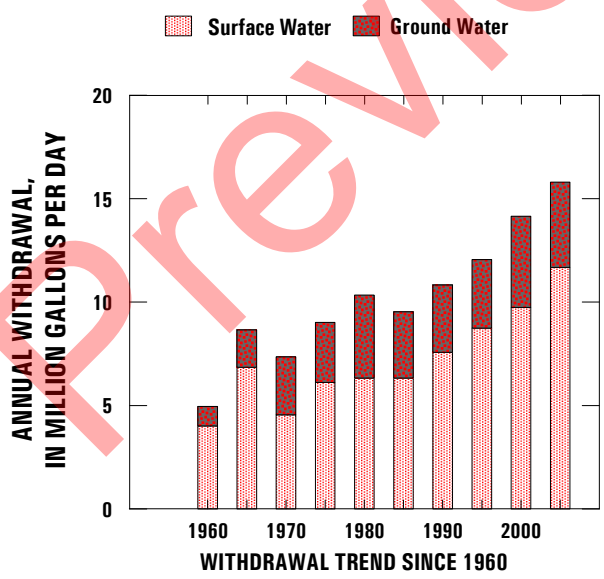
Per capita withdrawals (gal/d): 152

Acres irrigated: 2,145

Hydroelectric power instream use (Mgal/d): 0

Withdrawals, in million gallons per day (Mgal/d)

	Ground Water (GW)	Surface Water (SW)	Total
Public supply	1.73	10.67	12.40
Industrial	.42	.02	.44
Power generation	.00	.00	.00
Rural domestic	1.28	.00	1.28
Livestock	.07	.02	.09
Rice irrigation	.16	.00	.16
General irrigation	.24	.97	1.22
Aquaculture	.21	.00	.21
TOTAL	4.12	11.68	15.80



Withdrawals by Major Industrial Group (Mgal/d)

Standard Industrial Classification		GW	SW
29	Petroleum refining	0.42	0.02

Withdrawals by Major Public Supplier (Mgal/d)

Public Supplier	GW	SW
Bellevue Water System	0.06	
Bodcau Comm. W. S.	.01	
Bossier City Water System		10.67
Central Bossier Water System	.07	
Evangeline Oaks W. S.	.01	
Haughton Water System	.18	
Plain Dealing Water System	.16	
Red Chute Utilities Co.	.26	
S. Bossier Water System	.11	
Sligo Water System, Inc.	.09	
St. Mary's Water System	.02	
Village Water System	.74	

Preview Only

CADDO

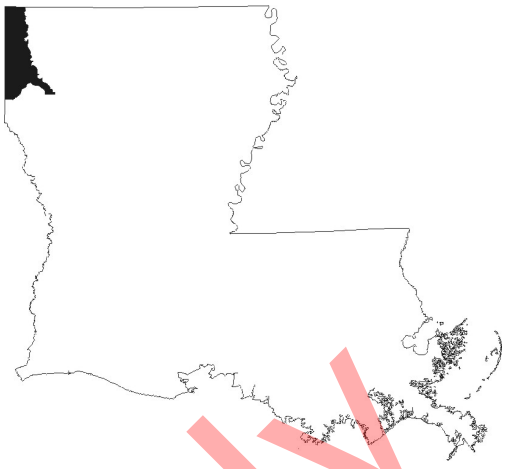
Population: 251,506

Population served by public supply: 231,134

Per capita withdrawals (gal/d): 290

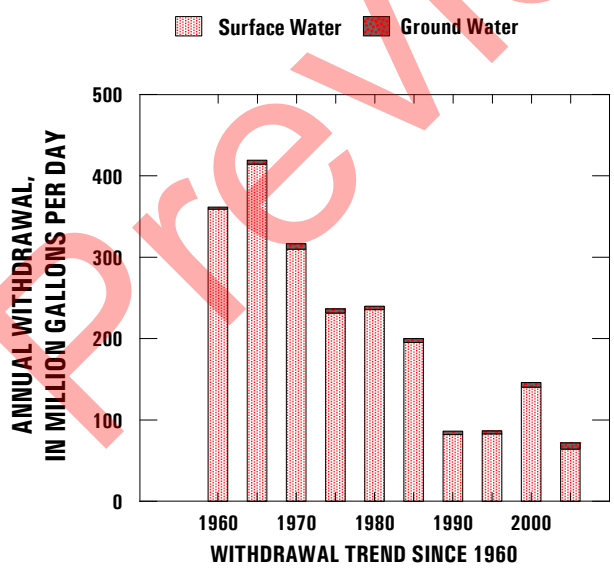
Acres irrigated: 7,310

Hydroelectric power instream use (Mgal/d): 0



Withdrawals, in million gallons per day (Mgal/d)

	Ground Water (GW)	Surface Water (SW)	Total
Public supply	1.56	50.04	51.61
Industrial	.09	.04	.12
Power generation	.00	14.18	14.18
Rural domestic	1.63	.00	1.63
Livestock	.10	.16	.27
Rice irrigation	.00	.00	.00
General irrigation	2.94	.73	3.66
Aquaculture	1.39	.00	1.39
TOTAL	7.70	65.15	72.85



Withdrawals by Major Industrial Group (Mgal/d)

Standard Industrial Classification	GW	SW
29 Petroleum refining	0.09	0.04

Withdrawals by Major Public Supplier (Mgal/d)

Public Supplier	GW	SW
Bel-Di-Gil Water System	0.13	
Blanchard Water System		0.70
Cypress Gardens Mar.	.01	
Deep Woods Utilities	.06	
Eagle Water Co.	.19	
East Cove Util. Water System		.03
East Mooringsport W. S.		.02
Four Forks Water System	.04	
Greenwood Water System	.02	.43
Hosston Mira Water System	.08	
Ida Water System	.02	
Keithville Water Works Dist. 7	.26	
Meadowwood Estates Utility	.01	
Mooringsport Water System	.11	.11
North Caddo Utilities Inc.	.03	
Oil City Water System (Dist. 1)		.26
Pine Hills Water Works	.24	
Rodessa Water System	.02	
Shreveport Water System		47.92
Southview Estates	.01	
Tyson Comm. Water System	.01	
Vivian Water System		.58
Wildwood S. Water System	.03	

Preview Only

Table 3. Ground-water withdrawals in
[Withdrawals are in million gallons
in columns may differ slightly

Parish	Red River alluvial aquifer	Mississippi River alluvial aquifer	Upland terrace aquifer (northern Louisiana)	Chicot aquifer system	Chicot equivalent aquifer system (southeastern Louisiana)	Evangeline aquifer	Evangeline equivalent aquifer system (southeastern Louisiana)
Acadia				168.47			
Allen				23.23		3.52	
Ascension		1.00			10.65		
Assumption		10.77			4.19		
Avoyelles	1.37	19.09	0.63			2.48	
Beauregard				12.35		3.19	
Bienville			.03				
Bossier	.50		.98				
Caddo	1.97		.47				
Calcasieu				89.04		.77	
Caldwell		.04					
Cameron				6.02			
Catahoula	.14	18.00					
Claiborne							
Concordia		20.58					
DeSoto	.04		.23				
East Baton Rouge		.11			25.28		52.27
East Carroll		34.42					
East Feliciana					.21		.37
Evangeline				68.62		4.15	
Franklin		46.12					
Grant	.02		.63				
Iberia		3.32		17.11			
Iberville		22.54			1.60		
Jackson							
Jefferson					2.74		
Jefferson Davis				151.78			
Lafayette		.57		43.13			
Lafourche		13.71					
LaSalle		.01	1.22				
Lincoln							
Livingston					3.31		4.79
Madison		18.95					
Morehouse		83.43	5.92				
Natchitoches	2.65		.12				
Orleans					5.04		
Ouachita		.99	.07				
Plaquemines					.04		
Pointe Coupee		11.08			1.87		3.17
Rapides	1.38	.07	2.11	.76		1.96	
Red River	.57		.16				
Richland		24.75					
Sabine			.01				
St. Bernard					.03		
St. Charles					4.89		
St. Helena					.83		
St. James		3.34			19.30		
St. John the Baptist					9.63		3.68
St. Landry		16.17		31.63		2.31	
St. Martin		5.90		5.91			
St. Mary		.47		2.79			
St. Tammany					5.99		12.32
Tangipahoa					4.22		2.64
Tensas		14.98					
Terrebonne		1.50					
Union		.01	.02				
Vermilion				40.38			
Vernon			.27	.42		.16	
Washington					7.18		.25
Webster			.36				
West Baton Rouge		6.90			.01		6.85
West Carroll		23.19	.18				
West Feliciana					.02		.76
Winn	.01		.03				
Totals	**8.64**	**402.00**	**13.47**	**661.64**	**107.03**	**18.53**	**87.09**

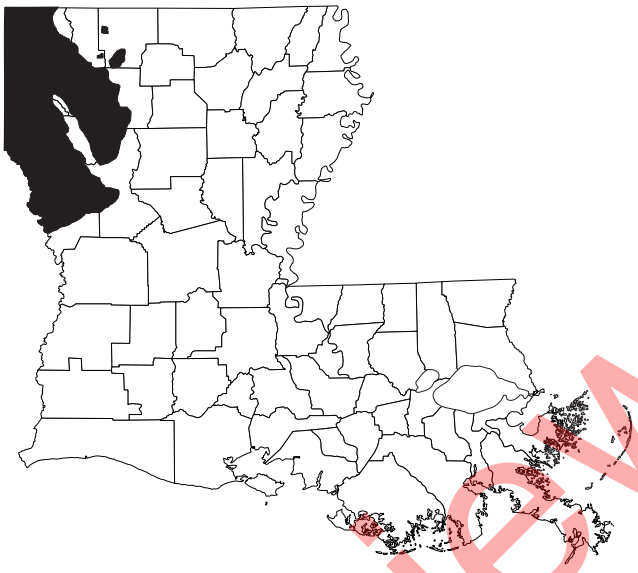
Preview Only

Louisiana by parish and aquifer, 2005.
per day. Summation of numbers
from totals due to rounding]

Jasper aquifer system	Jasper equivalent aquifer system (southeastern Louisiana)	Catahoula aquifer	Cockfield aquifer	Sparta aquifer	Carrizo-Wilcox aquifer	Other	Parish
							Acadia
							Allen
							Ascension
							Assumption
0.11						0.65	**Avoyelles**
14.76						.16	**Beauregard**
				12.09	1.01	.04	**Bienville**
				.19	2.46		**Bossier**
				.04	5.22		**Caddo**
							Calcasieu
			1.97	.05			**Caldwell**
							Cameron
		1.14					**Catahoula**
			.02	2.53			**Claiborne**
1.65		.32					**Concordia**
					3.25		**DeSoto**
	68.24						**East Baton Rouge**
			1.43				**East Carroll**
	2.68						**East Feliciana**
							Evangeline
							Franklin
.54		.47	.20			.01	**Grant**
							Iberia
	1.25						**Iberville**
			.08	1.95			**Jackson**
							Jefferson
							Jefferson Davis
							Lafayette
							Lafourche
.03		.07	.44	.20			**LaSalle**
			.04	7.76			**Lincoln**
	5.76						**Livingston**
							Madison
			.79	4.44			**Morehouse**
		.03	.04	.50	1.23		**Natchitoches**
							Orleans
			.14	22.32			**Ouachita**
						.01	**Plaquemines**
	4.57						**Pointe Coupee**
26.47		.51				.33	**Rapides**
					.99		**Red River**
			1.39				**Richland**
.02		.06	.10	.17	1.87		**Sabine**
						.01	**St. Bernard**
							St. Charles
	.47						**St. Helena**
							St. James
							St. John the Baptist
							St. Landry
							St. Martin
							St. Mary
	4.39						**St. Tammany**
	12.21						**Tangipahoa**
							Tensas
							Terrebonne
			.25	5.20		.01	**Union**
							Vermilion
5.42		.14	.04				**Vernon**
	21.53						**Washington**
				7.44	1.53		**Webster**
	.01						**West Baton Rouge**
			1.47				**West Carroll**
	5.17						**West Feliciana**
			.25	3.08		.05	**Winn**
49.00	**126.29**	**2.75**	**8.66**	**67.98**	**17.56**	**1.27**	**Totals**

Preview Only

CARRIZO-WILCOX AQUIFER



Withdrawals by Parish

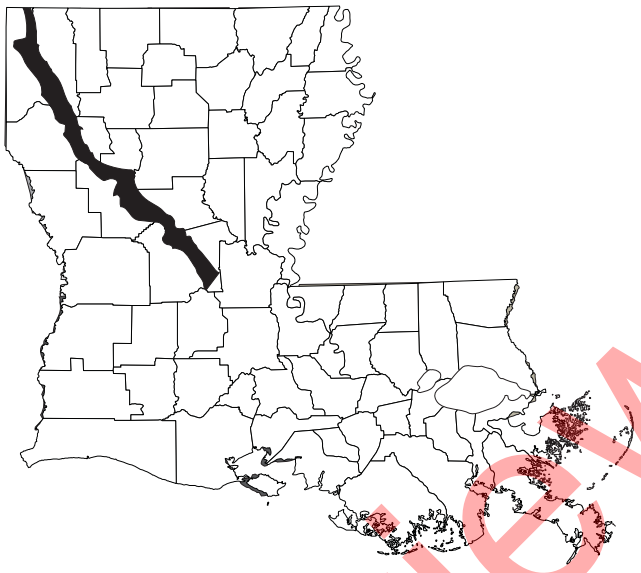
Parish	Mgal/d
Bienville	1.01
Bossier	2.46
Caddo	5.22
DeSoto	3.25
Natchitoches	1.23
Red River	.99
Sabine	1.87
Webster	1.53

Withdrawals, in million gallons per day (Mgal/d)	
Public supply	7.49
Industry	2.29
Power generation	.00
Rural domestic	4.60
Livestock	.28
Rice irrigation	.42
General irrigation	1.59
Aquaculture	.88
TOTAL	17.56

Preview Only

RED RIVER

ALLUVIAL AQUIFER



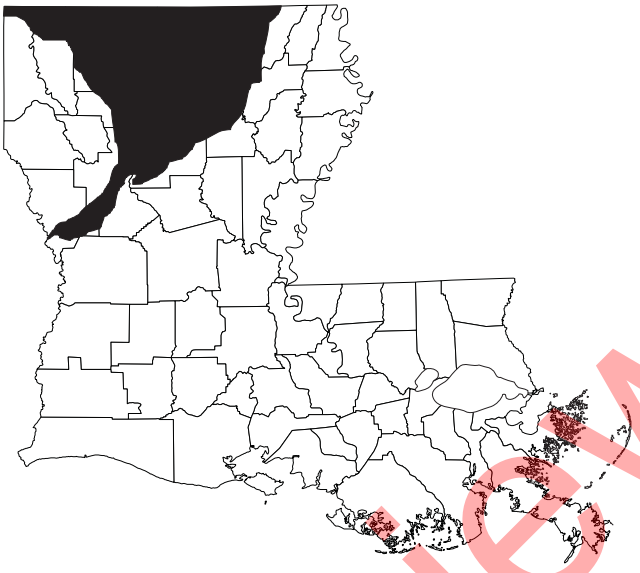
Withdrawals by Parish

Parish	Mgal/d
Avoyelles	1.37
Bossier	.50
Caddo	1.97
Catahoula	.14
DeSoto	.04
Grant	.02
Natchitoches	2.65
Rapides	1.38
Red River	.57
Winn	.01

Withdrawals, in million gallons per day (Mgal/d)	
Public supply	0.19
Industry	.00
Power generation	.00
Rural domestic	.24
Livestock	.47
Rice irrigation	2.64
General irrigation	2.44
Aquaculture	2.66
TOTAL	8.64

Preview Only

SPARTA AQUIFER



Withdrawals by Parish

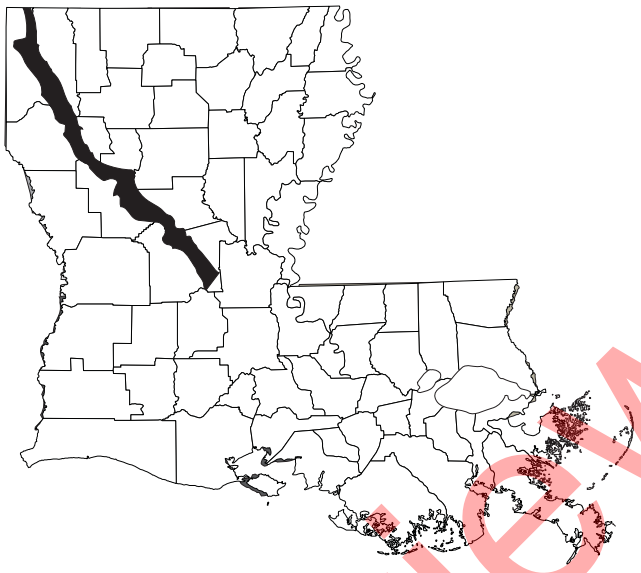
Parish	Mgal/d
Bienville	12.09
Bossier	.19
Caddo	.04
Caldwell	.05
Claiborne	2.53
Jackson	1.95
LaSalle	.20
Lincoln	7.76
Morehouse	4.44
Natchitoches	.50
Ouachita	22.32
Sabine	.17
Union	5.20
Webster	7.44
Winn	3.08

Withdrawals, in million gallons per day (Mgal/d)	
Public supply	35.70
Industry	30.01
Power generation	.00
Rural domestic	1.44
Livestock	.15
Rice irrigation	.18
General irrigation	.30
Aquaculture	.19
TOTAL	67.98

Preview Only

RED RIVER

ALLUVIAL AQUIFER



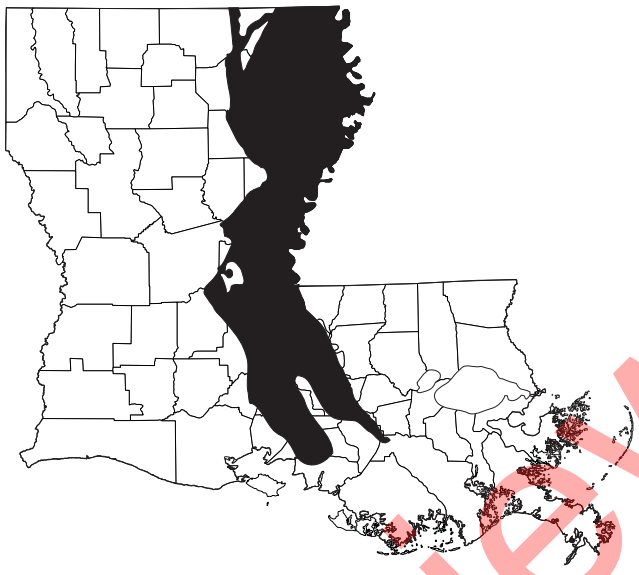
Withdrawals by Parish

Parish	Mgal/d
Avoyelles	1.37
Bossier	.50
Caddo	1.97
Catahoula	.14
DeSoto	.04
Grant	.02
Natchitoches	2.65
Rapides	1.38
Red River	.57
Winn	.01

Withdrawals, in million gallons per day (Mgal/d)	
Public supply	0.19
Industry	.00
Power generation	.00
Rural domestic	.24
Livestock	.47
Rice irrigation	2.64
General irrigation	2.44
Aquaculture	2.66
TOTAL	8.64

Preview Only

MISSISSIPPI RIVER ALLUVIAL AQUIFER



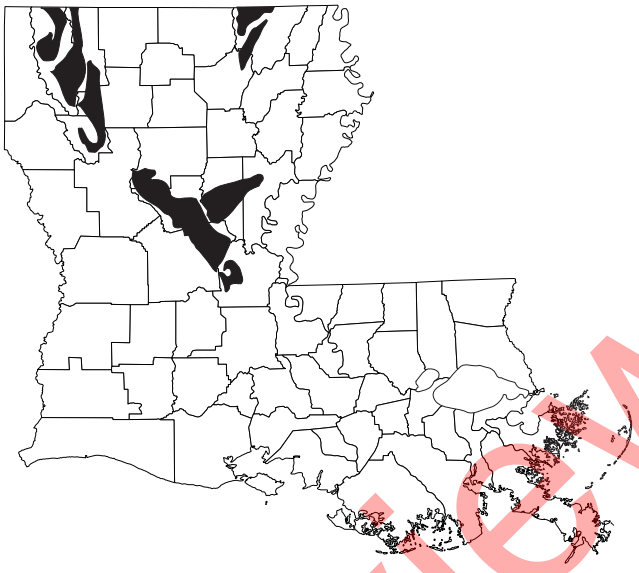
Withdrawals, in million gallons per day (Mgal/d)	
Public supply	9.51
Industry	33.93
Power generation	.49
Rural domestic	3.50
Livestock	.97
Rice irrigation	141.10
General irrigation	146.59
Aquaculture	65.89
TOTAL	402.00

Withdrawals by Parish

Parish	Mgal/d
Ascension	1.00
Assumption	10.77
Avoyelles	19.09
Caldwell	.04
Catahoula	18.00
Concordia	20.58
East Baton Rouge	.11
East Carroll	34.42
Franklin	46.12
Iberia	3.32
Iberville	22.54
Lafayette	.57
Lafourche	13.71
LaSalle	.01
Madison	18.95
Morehouse	83.43
Ouachita	.99
Pointe Coupee	11.08
Rapides	.07
Richland	24.75
St. James	3.34
St. Landry	16.17
St. Martin	5.90
St. Mary	.47
Tensas	14.98
Terrebonne	1.50
Union	.01
West Baton Rouge	6.90
West Carroll	23.19

Preview Only

UPLAND TERRACE AQUIFER (NORTHERN LOUISIANA)



Withdrawals, in million gallons per day (Mgal/d)	
Public supply	6.34
Industry	.36
Power generation	.00
Rural domestic	.92
Livestock	.03
Rice irrigation	3.14
General irrigation	2.10
Aquaculture	.57
TOTAL	13.47

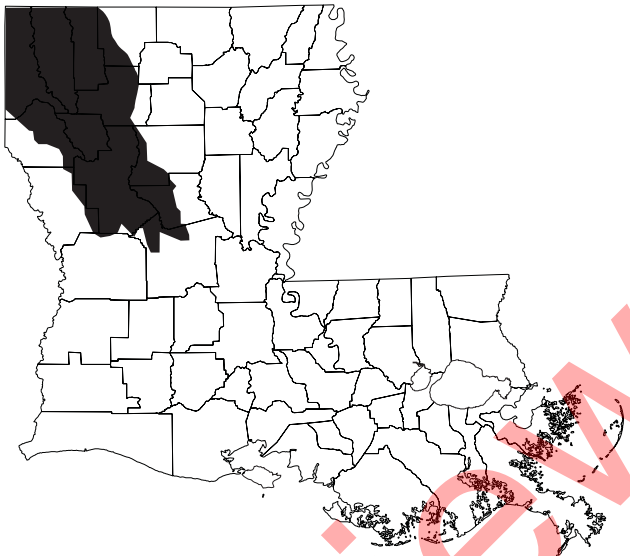
Withdrawals by Parish

Parish	Mgal/d
Avoyelles	0.63
Bienville	.03
Bossier	.98
Caddo	.47
DeSoto	.23
Grant	.63
LaSalle	1.22
Morehouse	5.92
Natchitoches	.12
Ouachita	.07
Rapides	2.11
Red River	.16
Sabine	.01
Union	.02
Vernon	.27
Webster	.36
West Carroll	.18
Winn	.03

Preview Only

RED RIVER

SURFACE-WATER BASIN



Withdrawals by Parish

Parish	Mgal/d
Bienville	0.14
Bossier	11.68
Caddo	65.15
DeSoto	.17
Natchitoches	29.19
Rapides	402.39
Red River	.26
Webster	.19

Withdrawals, in million gallons per day (Mgal/d)	
Public supply	65.92
Industry	14.15
Power generation	416.57
Rural domestic	.00
Livestock	.44
Rice irrigation	5.01
General irrigation	3.53
Aquaculture	3.57
TOTAL	509.19

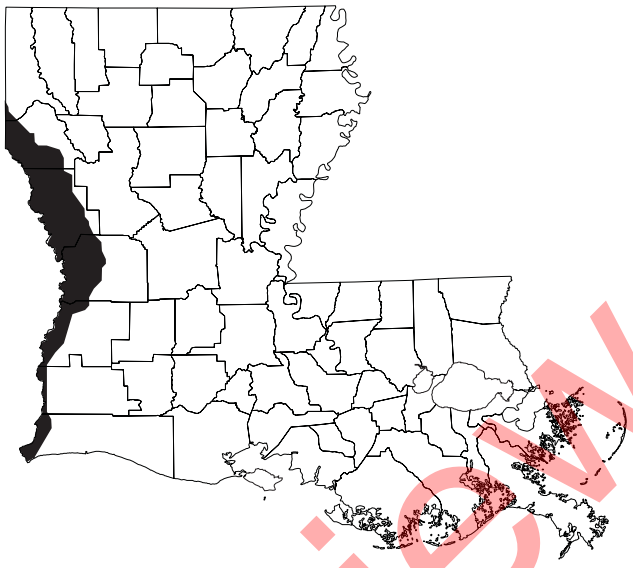
Withdrawals by Major Water Body

Water Body	Mgal/d
Bayou Pierre	3.22
Black Lake	1.24
Caddo Lake	2.16
Cross Lake	47.92
Lake Rodemacher	402.39
Little River	2.83
Red River	23.56
Sibley Lake	5.18

Preview Only

SABINE RIVER

SURFACE-WATER BASIN



Withdrawals by Parish

Parish	Mgal/d
DeSoto	18.40
Sabine	3.47
Vernon	.21

Withdrawals, in million gallons per day (Mgal/d)	
Public supply	2.99
Industry	16.70
Power generation	1.91
Rural domestic	.00
Livestock	.35
Rice irrigation	.00
General irrigation	.11
Aquaculture	.00
TOTAL	22.07

Withdrawals by Major Water Body

Water Body	Mgal/d
Toledo Bend Reservior	21.60

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APPENDIX K

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ENROLLED

Regular Session, 2010

ACT No. 955

HOUSE BILL NO. 1486 (Substitute for House Bill No. 926 by Representative Little)

BY REPRESENTATIVES MORRIS, ARMES, BOBBY BADON, BILLIOT, BURFORD, HENRY BURNS, BURRELL, CARMODY, CHAMPAGNE, EDWARDS, GISCLAIR, HARDY, HARRISON, HENDERSON, HENRY, GIROD JACKSON, LITTLE, LORUSSO, NOWLIN, GARY SMITH, JANE SMITH, ST. GERMAIN, TALBOT, TUCKER, WADDELL, WILLIAMS, AND WOOTON AND SENATOR ADLEY

AN ACT

To enact Chapter 9-B of Title 30 of the Louisiana Revised Statutes of 1950, to be comprised of R.S. 30:961 through 963, relative to the use of surface water; to provide for definitions; to provide for cooperative endeavor agreements to withdraw running surface water; to provide for findings and purpose; to provide for requirements for cooperative endeavor agreements to withdraw running surface water; to provide for the authority of the secretary of the Department of Natural Resources; to provide for legislative intent; and to provide for related matters.

Be it enacted by the Legislature of Louisiana:

Section 1. Chapter 9-B of Title 30 of the Louisiana Revised Statutes of 1950, comprised of R.S. 30:961 through 963, is hereby enacted to read as follows:

CHAPTER 9-B. SURFACE WATER MANAGEMENT

§961. Cooperative endeavor agreements; withdrawal of surface water; intent

A. As provided by this Chapter and except as otherwise provided by law, a person or entity may enter into a cooperative endeavor agreement to withdraw running surface water as described in this Chapter. The cooperative endeavor agreement shall prohibit the resale of withdrawn running surface water for a price greater than provided for in the agreement; however, a person or entity may receive compensation for the transportation, manufacturing, or processing of withdrawn running surface water. Unless otherwise provided by law, all cooperative endeavor agreements to withdraw running surface water, and any assignment of such agreement, shall be approved by the secretary as provided in this Chapter. No provision contained in this Chapter should be construed as a requirement for any

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person or entity to enter into any cooperative endeavor agreement to withdraw running surface water. This Chapter shall have no effect on the rights provided for in Civil Code Articles 657 and 658 or any rights held by riparian owners in accordance with the laws of this state. It is also the intent of the legislature that should any portion of this Chapter be found to be unconstitutional that the remaining parts shall continue in force and effect.

B. No agency or subdivision of the state otherwise authorized to enter into a cooperative endeavor agreement to withdraw running surface water, or assignment of such shall do so unless the said agreement is in writing, provides for fair market value to the state, is in the public interest, and is contained on an uniform form developed and prescribed by the State Mineral and Energy Board and approved by the attorney general. Fair market value to the state shall include, but not be limited to, the economic development, employment, and increased tax revenues created by the activities associated with the withdrawal of running surface water. No such cooperative endeavor agreement to withdraw running surface water shall be valid unless and until such agreement is approved by the secretary following the submission of an application for approval, which the secretary shall develop and prescribe. The secretary shall conduct the evaluation provided for in Subsection D of this Section and take action on the application within sixty days of the application being deemed complete. If the secretary denies the application, the secretary shall provide written reasons for the denial at the time of the denial.

C. Unless otherwise provided by law, the secretary is authorized to enter into any cooperative endeavor agreement to withdraw running surface water, provided that any such agreement complies with the prohibition against gratuitous donation of state property by ensuring that the state receives fair market value for any water removed, and the substance of the agreement is contained within a written cooperative endeavor agreement as provided for in Article VII, Section 14 of the Constitution of Louisiana.

D. The secretary shall evaluate each application for a cooperative endeavor agreement to withdraw running surface water and each such cooperative endeavor

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that he may enter to ensure that each is in the public interest. The secretary shall ensure the proposed agreement is based on best management practices and sound science, and is consistent with the required balancing of environmental and ecological impacts with the economic and social benefits found in Article IX, Section 1 of the Constitution of Louisiana. In his evaluation, the secretary shall also ensure that all cooperative endeavor agreements to withdraw running surface water, or assignments of such, adequately consider the potential and real effects of such contracted activity on the sustainability of the water body and on navigation. Any assignment of any such cooperative endeavor agreement to withdraw running surface water may be approved by the secretary in the same manner as an agreement as provided in this Section, unless otherwise provided for by law.

E. No cooperative endeavor agreement to withdraw running surface water, or an assignment of such, entered into pursuant to the provisions of this Chapter shall have a term which exceeds two years, however, such two-year terms may be renewed until December 31, 2020. A person or entity who has entered into a cooperative endeavor agreement to withdraw running surface waters or has obtained an assignment of such, may terminate such agreement effective December 31, 2012. In order to be effective, the person or entity seeking to terminate shall provide written notice by certified mail to the secretary at least thirty days prior to termination.

F. The secretary may act to protect the natural resources of the state by reducing any withdrawal of water from the running surface waters of the state otherwise agreed to be withdrawn pursuant to an agreement entered into pursuant to this Chapter, or make other conditions, including the suspension or termination of such withdrawal of water when such an action is required to protect the resource and to maintain sustainability and environmental and ecological balance. If the secretary acts to reduce or suspend the volume of water agreed to be withdrawn, he shall do so in such a manner that the total necessary reductions are proportionally borne by all users of the running surface waters, subject to this Chapter, in the area for which a reduction is required. Prior to approval, the secretary shall ensure that each

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contract or agreement or assignment thereof that involved the withdrawal of the running surface waters of the state provides for the secretary's authority, without liability for damages, in this regard.

G.(1) The secretary, in deciding whether to approve or require changes in an application for a cooperative endeavor agreement to withdraw running surface water, or assignment of such, shall consider the various existing and potential users of the resource and shall give appropriate consideration and priority to the following users or uses in the following order of priority:

(a) Human consumption by means of a public water system or a private water system that provides domestic potable water service.

(b) Agricultural uses that provide sustenance to animals or irrigation to plants.

(c) Any commercial purpose or other industrial or mining activity.

(2) The secretary shall also consider the impact of any proposed contract, agreement, assignment, or use on resource planning. By way of illustration but not limitation, these would include any potential project or use that impacts:

(a) Stream or water flow energy.

(b) Sediment load and distribution.

(c) Navigation.

(d) Aquatic life.

(e) Other vegetation or wildlife.

(3) The management of cooperative endeavor agreements to withdraw running surface water shall be consistent with the comprehensive master plan for coastal restoration and protection as approved by the Coastal Protection and Restoration Authority and the legislature.

H. Approval of an application for a cooperative endeavor agreement to withdraw running surface water or assignment of such pursuant to this Chapter does not obviate the need for other permits or authorizations required by law for any proposed activity.

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§962. Definitions

As used in this Chapter, the following words, terms, and phrases have the meanings ascribed to them in this Section, unless the context clearly indicates a different meaning:

(1) "Running surface waters" means the running waters of the state, including the waters of navigable water bodies and state owned lakes.

(2) "Secretary" means the secretary of the Department of Natural Resources, and his designees.

§963. Management by the Department of Natural Resources

A. Except as otherwise provided by law, the Department of Natural Resources shall be the state agency charged with managing and monitoring the implementation of all cooperative endeavor agreements to withdraw running surface water or assignments thereof. The secretary shall have the authority to designate where within his agency the various functions of this Chapter are to be performed, to issue contracts or enter into agreements with other public entities when required in his opinion for the efficient administration of this Chapter, and to establish any necessary policy or promulgate, in accordance with the provisions of the Administrative Procedure Act, any regulations that in his opinion are necessary for the efficient implementation of this Chapter.

B. The secretary may negotiate and enter into a cooperative endeavor agreement to withdraw running surface water under terms which the secretary deems to be most advantageous to the state and which is consistent with the policies and regulations implemented pursuant to this Chapter.

C. Where there exists a governmental entity to manage, preserve, conserve, and protect running surface water that lacks the authority to enter into cooperative endeavor agreements to withdraw running surface water, such entities may provide, by resolution, their recommendations to the secretary of any requested terms of such contracts or agreements entered into by the secretary.

Section 2. It is the express intention of the Legislature of Louisiana that nothing contained herein be interpreted as codifying, confirming, or ratifying; or overruling,

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nullifying, or rejecting the statements of law contained in the Memorandum to All State Surface Water Managers from the State Of Louisiana, Office of the Attorney General, and the secretary of the Department of Natural Resources dated February 5, 2010, and also in Attorney General opinions, 08-0176, 09-0028, 09-0066 and 09-0291. But rather, the intent of the legislature with this enactment is to provide needed interim stewardship of running surface water, as detailed in HCR No.1 of the 2010 Regular Session of the Legislature. That resolution requests from the Ground Water Resources Commission, a report to the legislature by March 1, 2012, with recommendations for changes necessary for optimal, comprehensive, integrated surface and ground water management policy, so that a thorough, deliberate, public, legislative evaluation of the issues and concerns may be had before a permanent state policy is established. The legislature finds that, pending this legislative process, it is necessary to immediately provide for an appropriate level of management and availability of the state's surface water resources in the interim period, and to provide for an optimal level of protection and use of all the natural resources of the state. In this regard, the express intention of the legislature is that the provisions of Chapter 9-B of Title 30 of the Louisiana Revised Statutes of 1950, comprised of R.S. 30:961 through 963, shall be null, void, and without effect after December 31, 2012.

Section 3. This Act shall become effective upon signature by the governor or, if not signed by the governor, upon expiration of the time for bills to become law without signature by the governor, as provided by Article III, Section 18 of the Constitution of Louisiana. If vetoed by the governor and subsequently approved by the legislature, this Act shall become effective on the day following such approval.

_____
SPEAKER OF THE HOUSE OF REPRESENTATIVES

_____
PRESIDENT OF THE SENATE

_____
GOVERNOR OF THE STATE OF LOUISIANA

APPROVED: _____

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APPENDIX L

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ENROLLED

Regular Session, 2010

ACT No. 994

HOUSE BILL NO. 1449

BY REPRESENTATIVES FANNIN, ANDERS, ARNOLD, AUBERT, BALDONE, BURFORD, CARMODY, CHAMPAGNE, CHANDLER, CHANEY, DOWNS, EDWARDS, ELLINGTON, GISCLAIR, GUILLORY, GUINN, HARDY, HAZEL, HENRY, HOFFMANN, JOHNSON, SAM JONES, KATZ, LEBAS, LEGER, LITTLE, MONTOUCET, NOWLIN, PEARSON, PUGH, RICHARD, RITCHIE, ROY, SCHRODER, SIMON, GARY SMITH, ST. GERMAIN, THIBAUT, TUCKER, WADDELL, WHITE, AND WOOTON AND SENATOR THOMPSON

AN ACT

To enact R.S. 9:1103, relative to the right of riparian owners; to provide for the assignment of rights to access the running waters of the state; to provide a statement of public policy; to provide for the transfer for agricultural and aquacultural use by public entities; to prohibit fees charged by the state; and to provide for related matters.

Be it enacted by the Legislature of Louisiana:

Section 1. R.S. 9:1103 is hereby enacted to read as follows:

§1103. Riparian owners, use of surface water; fees prohibited; legislative finding and intent

A. The Legislature of Louisiana finds that waters used in agricultural or aquacultural pursuits are not consumed, rather they are merely used, and the movement of the water ultimately provides value to the resource in several ways as these uses provide for additional pathways for integration of the water into the hydrological cycle. Some of these value-adding processes include recharging aquifers by percolation into the groundwater, entry into the cycle as water vapor through the evaporation from movement of the surface water, from the absorption into crops, providing nourishment to living organisms that indirectly support agriculture and aquaculture, from the hydration of livestock, and also through providing habitat and sustenance for the fish and wildlife resources of the state. The direct and indirect effects that result from these uses bring a positive impact on the resource and the environment that yields a value far in excess of the value of the resource as mere running water, and as such the Legislature of Louisiana specifically

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finds that there is no prohibited donation by agricultural and aquacultural uses of these sorts. The public purpose served by the enactment and implementation of this Section is the protection and conservation of the water as a resource of the state in such a way that the health, safety, and welfare of the people of the state are protected and benefitted.

B. A riparian owner may assign access rights equal to his own for the surface water adjacent to his riparian land for any agricultural or aquacultural purpose within the state of Louisiana by the non-riparian owner without restriction as to the form of any such agreement to another, provided that the withdrawal of running surface waters is environmentally and ecologically sound and is consistent with the required balancing of environmental and ecological impacts with the economic and social benefits found in Article IX, Section 1 of the Constitution of Louisiana. No riparian owner shall authorize the withdrawal of running waters for non-riparian use where the use of the water would significantly adversely impact the sustainability of the water body, or have undue impacts on navigation, public drinking water supplies, stream or water flow energy, sediment load and distribution, and on the environment and ecology balanced against the social and economic benefits of a contract of sale or withdrawal, or sale of agreement, or right to withdraw running surface water for agricultural and aquacultural purposes.

C. For purposes of this Section, "agricultural or aquacultural purpose" means any use by a riparian owner or an assignee of a riparian owner of running surface waters withdrawn and used for the purpose of directly sustaining life or providing habitat to sustain life of living organisms that are customarily or actually intended to be brought to market for sale.

D. The state shall not charge any fee for the water usage, except where the state, including its political subdivisions, contracts or assigns rights for withdrawal as provided for in Subsection B of this Section.

E. This Section shall become null and of no effect on January 12, 2035.

Section 2. This Act shall become effective upon signature by the governor or, if not signed by the governor, upon expiration of the time for bills to become law without signature

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by the governor, as provided by Article III, Section 18 of the Constitution of Louisiana. If vetoed by the governor and subsequently approved by the legislature, this Act shall become effective on the day following such approval.

_____
SPEAKER OF THE HOUSE OF REPRESENTATIVES

_____
PRESIDENT OF THE SENATE

_____
GOVERNOR OF THE STATE OF LOUISIANA

APPROVED: _____

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APPENDIX M

Preview Only

The following interstate Compact between the States of Arkansas, Oklahoma, Texas and Louisiana, respecting the water of the Red River Basin, is hereby approved and ratified:

RED RIVER COMPACT

ARTICLE I

Purposes

SECTION 1.01. The principal purposes of this Compact are:

(a) To promote interstate comity and remove causes of controversy between each of the affected states by governing the use, control and distribution of the interstate water of the Red River and its tributaries;

(b) To provide an equitable apportionment among the Signatory States of the water of the Red River and its tributaries;

(c) To promote an active program for the control and alleviation of natural deterioration and pollution of the water of the Red River Basin and to provide for enforcement of the laws related thereto;

(d) To provide the means for an active program for the conservation of water, protection of lives and property from floods, improvement of water quality, development of navigation and regulation of flows in the Red River Basin; and

(e) To provide a basis for state or joint state planning and action by ascertaining and identifying each state's share in the interstate water of the Red River Basin and the apportionment thereof.

ARTICLE II

General Provisions

Preview Only

SECTION 2.01. Each Signatory State may use the water allocated to it by this Compact in any manner deemed beneficial by that state. Each state may freely administer water rights and uses in accordance with the laws of that state, but such uses shall be subject to the availability of water in accordance with the apportionments made by this Compact.

SECTION 2.02. The use of water by the United States in connection with any individual Federal project shall be in accordance with the Act of Congress authorizing the project and the water shall be charged to the state or states receiving the benefit therefrom.

SECTION 2.03. Any Signatory State using the channel of Red River or its tributaries to convey stored water shall be subject to an appropriate reduction in the amount which may be withdrawn at the point of removal to account for transmission losses.

SECTION 2.04. The failure of any state to use any portion of the water allocated to it shall not constitute relinquishment or forfeiture of the right to such use.

SECTION 2.05. Each Signatory State shall have the right to:

(a) Construct conservation storage capacity for the impoundment of water allocated by this Compact;

(b) Replace within the same area any storage capacity recognized or authorized by this Compact made unusable by any cause, including losses due to sediment storage;

(c) Construct reservoir storage capacity for the purposes of flood and sediment control as well as storage of water which is either imported or is to be exported if such storage does not adversely affect the delivery of water apportioned to any other Signatory State; and

(d) Use the bed and banks of the Red River and its tributaries to convey stored water, imported or exported water, and water apportioned according to this Compact.

SECTION 2.06. Signatory States may cooperate to obtain construction of facilities of joint benefits to such states.

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SECTION 2.07. Nothing in this Compact shall be deemed to impair or affect the powers, rights, or obligations of the United States, or those claiming under its authority, in, over and to water of the Red River Basin.

SECTION 2.08. Nothing in this Compact shall be construed to include within the water apportioned by this Compact any water consumed in each state by livestock or for domestic purposes; provided, however, the storage of such water is in accordance with the laws of the respective states but any such impoundment shall not exceed two hundred acre-feet, or such smaller quantity as may be provided for by the laws of each state.

SECTION 2.09. In the event any state shall import water into the Red River Basin from any other river basin, the Signatory State making the importation shall have the use of such imported water.

SECTION 2.10. Nothing in this Compact shall be deemed to:

(a) Interfere with or impair the right or power of any Signatory State to regulate within its boundaries the appropriation, use, and control of water, or quality of water, not inconsistent with its obligations under this Compact;

(b) Repeal or prevent the enactment of any legislation or the enforcement of any requirement by any Signatory State imposing any additional conditions or restrictions to further lessen or prevent the pollution or natural deterioration of water within its jurisdiction; provided nothing contained in this paragraph shall alter any provision of this Compact dealing with the apportionment of water or the rights thereto; or

(c) Waive any state's immunity under the Eleventh Amendment of the Constitution of the United States, or as constituting the consent of any state to be sued by its own citizens.

SECTION 2.11. Accounting for apportionment purposes on interstate streams shall not be mandatory under the terms of the Compact until one or more affected states deem the accounting necessary.

SECTION 2.12. For the purposes of apportionment of the water among the Signatory States, the Red River is hereby divided into the following major subdivisions:

Preview Only

(a) Reach I--the Red River and tributaries from the New Mexico-Texas State boundary to Denison Dam;

(b) Reach II--the Red River from Denison Dam to the point where it crosses the Arkansas-Louisiana state boundary and all tributaries which contribute to the flow of the River within this reach;

(c) Reach III--the tributaries west of the Red River which cross the Texas-Louisiana state boundary, the Arkansas-Louisiana state boundary, and those which cross both the Texas-Arkansas state boundary and the Arkansas-Louisiana state boundary;

(d) Reach IV--the tributaries east of the Red River in Arkansas which cross the Arkansas-Louisiana state boundary; and

(e) Reach V--that portion of the Red River and tributaries in Louisiana not included in Reach III or in Reach IV.

SECTION 2.13. If any part or application of this Compact shall be declared invalid by a court of competent jurisdiction, all other severable provisions and applications of this Compact shall remain in full force and effect.

SECTION 2.14. Subject to the availability of water in accordance with this Compact, nothing in this Compact shall be held or construed to alter, impair or increase, validate, or prejudice any existing water right or right of water use that is legally recognized on the effective date of this Compact by either statutes or courts of the Signatory State within which it is located.

ARTICLE III

Definitions

SECTION 3.01. In this Compact: (a) The States of Arkansas, Louisiana, Oklahoma, and Texas are referred to as “Arkansas,” “Louisiana,” “Oklahoma,” and “Texas,” respectively, or individually as “State” or “Signatory State,” or collectively as “States” or “Signatory States.”

(b) The term “Red River” means the stream below the crossing of the Texas-Oklahoma state boundary at longitude 100 degrees west.

Preview Only

(c) The term “Red River Basin” means all of the natural drainage area of the Red River and its tributaries east of the New Mexico-Texas state boundary and above its junction with Atchafalaya and Old Rivers.

(d) The term “water of the Red River Basin” means the water originating in any part of the Red River Basin and flowing to or in the Red River or any of its tributaries.

(e) The term “tributary” means any stream which contributes to the flow of the Red River.

(f) The term “interstate tributary” means a tributary of the Red River, the drainage area of which includes portions of two or more Signatory States.

(g) The term “intrastate tributary” means a tributary of the Red River, the drainage area of which is entirely within a single Signatory State.

(h) The term “Commission” means the agency created by Article IX of this Compact for the administration thereof.

(i) The term “pollution” means the alteration of the physical, chemical, or biological characteristics of water by the acts or instrumentalities of man which create or are likely to result in a material and adverse effect upon human beings, domestic or wild animals, fish and other aquatic life, or adversely affect any other lawful use of such water; provided, that for the purposes of this Compact, “pollution” shall not mean or include “natural deterioration.”

(j) The term “natural deterioration” means the material reduction in the quality of water resulting from the leaching of solubles from the soils and rocks through or over which the water flows naturally.

(k) The term “designated water” means water released from storage, paid for by non-Federal interests, for delivery to a specific point of use or diversion.

(l) The term “undesignated water” means all water released from storage other than “designated water.”

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(m) The term “conservation storage capacity” means that portion of the active capacity of reservoirs available for the storage of water for subsequent beneficial use, and it excludes any portion of the capacity of reservoirs allocated solely to flood control and sediment control, or either of them.

(n) The term “runoff” means both the portion of precipitation which runs off the surface of a drainage area and that portion of the precipitation that enters the streams after passing through the portions of the earth.

ARTICLE IV

Apportionment of Water--Reach I

Oklahoma--Texas

Subdivision of Reach I and apportionment of water therein.

Reach I of the Red River is divided into topographical subbasins, with the water therein allocated as follows:

SECTION 4.01. Subbasin 1--Interstate streams--Texas.

(a) This includes the Texas portion of Buck Creek, Sand (Lebos) Creek, Salt Fork Red River, Elm Creek, North Fork Red River, Sweetwater Creek, and Washita River, together with all their tributaries in Texas which lie west of the 100th Meridian.

(b) The annual flow within this subbasin is hereby apportioned sixty (60) percent to Texas and forty (40) percent to Oklahoma.

SECTION 4.02. Subbasin 2--Intrastate and interstate streams--Oklahoma.

(a) This subbasin is composed of all tributaries of the Red River in Oklahoma and portions thereof upstream to the Texas-Oklahoma state boundary at longitude 100 degrees west, beginning from Denison Dam and upstream to and including Buck Creek.

Preview Only

(b) The State of Oklahoma shall have free and unrestricted use of the water of this subbasin.

SECTION 4.03. Subbasin 3--Intrastate streams--Texas.

(a) This includes the tributaries of the Red River in Texas, beginning from Denison Dam and upstream to and including Prairie Dog Town Fork Red River.

(b) The State of Texas shall have free and unrestricted use of the water in this subbasin.

SECTION 4.04. Subbasin 4--Mainstem of the Red River and Lake Texoma.

(a) This subbasin includes all of Lake Texoma and the Red River beginning at Denison Dam and continuing upstream to the Texas-Oklahoma state boundary at longitude 100 degrees west.

(b) The storage of Lake Texoma and flow from the main stem of the Red River into Lake Texoma is apportioned as follows:

(1) Oklahoma 200,000 acre-feet and Texas 200,000 acre-feet, which quantities shall include existing allocations and uses; and

(2) Additional quantities in a ratio of fifty (50) percent to Oklahoma and fifty (50) percent to Texas.

SECTION 4.05. Special provisions.

(a) Texas and Oklahoma may construct, jointly or in cooperation with the United States, storage or other facilities for the conservation and use of water; provided that any facilities constructed on the Red River boundary between the two states shall not be inconsistent with the Federal legislation authorizing Denison Dam and Reservoir project.

(b) Texas shall not accept for filing, or grant a permit, for the construction of a dam to impound water solely for irrigation, flood control, soil conservation, mining and recovery of minerals, hydroelectric power, navigation, recreation and pleasure, or for any other purpose other than for domestic, municipal, and industrial water supply, on the main stem of the North Fork Red River

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or any of its tributaries within Texas above Lugert-Altus Reservoir until the date that imported water, sufficient to meet the municipal and irrigation needs of Western Oklahoma is provided, or until January 1, 2000, whichever occurs first.

ARTICLE V

Apportionment of Water--Reach II

Arkansas, Oklahoma, Texas and Louisiana.

Subdivision of Reach II and allocation of water therein. Reach II of the Red River is divided into topographic subbasins, and the water therein is allocated as follows:

SECTION 5.01. Subbasin 1--Intrastate streams--Oklahoma.

(a) This subbasin includes those streams and their tributaries above existing, authorized or proposed last downstream major damsites, wholly in Oklahoma and flowing into Red River below Denison Dam and above the Oklahoma-Arkansas state boundary. These streams and their tributaries with existing, authorized or proposed last downstream major damsites are as follows:

Stream Site	Ac-ft	Location Latitude	Longitude
Island-Bayou Albany	85,200	33°51.5′N	96°11.4′W
Blue River Durant	147,000	33°55.5′N	96°04.2′W
Boggy River Boswell	1,243,800	34°01.6′N	95°45.0′W
Kiamichi River Hugo	240,700	34°01.0′N	95°22.6′W

(b) Oklahoma is apportioned the water of this subbasin and shall have unrestricted use thereof.

SECTION 5.02. Subbasin 2--Intrastate streams--Texas.

(a) This subbasin includes those streams and their tributaries above existing authorized or proposed last downstream major damsites, wholly in Texas and flowing into Red River below Denison Dam and above the Texas-Arkansas state boundary. These streams and their tributaries with existing, authorized or proposed last downstream major damsites are as follows:

Location

Preview Only

Stream Site Ac-ft Latitude Longitude
Shawnee Creek Randall Lake 5,400 33°48.1′N 96°34.8′W
Brushy Creek Valley Lake 15,000 33°38.7′N 96°21.5′W
Bois d' Arc Creek New Bonham Reservoir 130,600 33°42.9′N 95°58.2′W
Coffee Mill Creek Coffee Mill Lake 8,000 33°44.1′N 95°58.0′W
Sandy Creek Lake Crockett 3,900 33°44.5′N 95°55.5′W
Sanders Creek Pat Mayse 124,500 33°51.2′N 95°32.9′W
Pine Creek Lake Crook 11,011 33°43.7′N 95°34.0′W
Big Pine Creek Big Pine Lake 138,600 33°52.0′N 95°11.7′W
Pecan Bayou Pecan Bayou 625,000 33°41.1′N 94°58.7′W
Mud Creek Liberty Hill 97,700 33°33.0′N 94°29.3′W
Mud Creek KVW Ranch Lakes 3,440 33°34.8′N 94°27.3′W

(b) Texas is apportioned the water of this subbasin and shall have unrestricted use thereof.

SECTION 5.03. Subbasin 3--Interstate streams--Oklahoma and Arkansas.

(a) This subbasin includes Little River and its tributaries above Millwood Dam.

(b) The States of Oklahoma and Arkansas shall have free and unrestricted use of the water of this subbasin within their respective states, subject, however, to the limitation that Oklahoma shall allow a quantity of water equal to 40 percent of the total runoff originating below the following existing, authorized or proposed last downstream major damsites in Oklahoma to flow into Arkansas:

Location
Stream Site Ac-ft Latitude Longitude
Little River Pine Creek 70,500 34°06.8′N 95°04.9′W
Glover Creek Lukfata 258,600 34°08.5′N 94°55.4′W
Mountain Fork River Broken Bow 470,100 34°08.9′N 94°41.2′W

(c) Accounting will be on an annual basis unless otherwise deemed necessary by the States of Arkansas and Oklahoma.

SECTION 5.04. Subbasin 4--Interstate streams--Texas and Arkansas.

(a) This subbasin shall consist of those streams and their tributaries above existing, authorized or proposed last downstream major damsites, originating in Texas and crossing the Texas-Arkansas

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state boundary before flowing into the Red River in Arkansas. These streams and their tributaries with existing, authorized or proposed last downstream major damsites are as follows:

Stream	Site	Ac-ft	Location Latitude	Longitude
McKinney Bayou Trib.	Bringle Lake	3,052	33°30.6′N	94°06.2′W
Barkman Creek	Barkman Reservoir	15,900	33°29.7′N	94°10.3′W
Sulphur River	Texarkana	386,900	33°18.3′N	94°09.6′W

(b) The State of Texas shall have the free and unrestricted use of the water of this subbasin.

SECTION 5.05. Subbasin 5--Mainstem of the Red River and tributaries.

(a) This subbasin includes that portion of the Red River, together with its tributaries, from Denison Dam down to the Arkansas-Louisiana state boundary, excluding all tributaries included in the other four subbasins of Reach II.

(b) Water within this subbasin is allocated as follows:

(1) The Signatory States shall have equal rights to the use of runoff originating in subbasin 5 and undesignated water flowing into subbasin 5, so long as the flow of the Red River at the Arkansas-Louisiana state boundary is 3,000 cubic feet per second or more, provided no state is entitled to more than 25 percent of the water in excess of 3,000 cubic feet [FN1] per second.

(2) Whenever the flow of the Red River at the Arkansas-Louisiana state boundary is less than 3,000 cubic feet per second, but more than 1,000 cubic feet per second, the States of Arkansas, Oklahoma, and Texas shall allow to flow into the Red River for delivery to the State of Louisiana a quantity of water equal to 40 percent of the total weekly runoff originating in subbasin 5 and 40 percent of undesignated water flowing into subbasin; provided, however, that this requirement shall not be interpreted to require any state to release stored water.

(3) Whenever the flow of the Red River at the Arkansas-Louisiana state boundary falls below 1,000 cubic feet per second, the States of Arkansas, Oklahoma, and Texas shall allow a quantity of water equal to all the weekly runoff originating in subbasin 5 and all undesignated water flowing into subbasin 5 within their respective states to flow into the Red River as required to maintain a 1,000 cubic foot per second flow at the Arkansas-Louisiana state boundary.

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(c) Whenever the flow at Index, Arkansas, is less than 526 c.f.s., the states of Oklahoma and Texas shall each allow a quantity of water equal to 40 percent of the total weekly runoff originating in subbasin 5 within their respective states to flow into the Red River; provided however, this provision shall be invoked only at the request of Arkansas, only after Arkansas has ceased all diversions from the Red River itself in Arkansas above Index, and only if the provisions of Subsections 5.05 (b) (2) and (3) have not caused a limitation of diversions in subbasin 5.

(d) No state guarantees to maintain a minimum low flow to a downstream state.

SECTION 5.06. Special Provisions.

(a) Reservoirs within the limits of Reach II, subbasin 5, with a conservation storage capacity of 1,000 acre feet or less in existence or authorized on the date of the Compact pursuant to the rights and privileges granted by a Signatory State authorizing such reservoirs, shall be exempt from the provisions of Section 5.05; provided, if any right to store water in, or use water from, an existing exempt reservoir expires or is cancelled after the effective date of the Compact the exemption for such rights provided by this section shall be lost.

(b) A Signatory State may authorize a change in the purpose or place of use of water from a reservoir exempted by subparagraph (a) of this section without losing that exemption, if the quantity of authorized use and storage is not increased.

(c) Additionally, exemptions from the provisions of Section 5.05 shall not apply to direct diversions from Red River to off-channel reservoirs or lands.

ARTICLE VI

Apportionment of Water--Reach III

Arkansas, Louisiana, and Texas

Subdivision of Reach III and allocation of water therein. Reach III of the Red River is divided into topographic subbasins, and the water therein allocated, as follows:

SECTION 6.01. Subbasin 1--Interstate streams--Arkansas and Texas.

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(a) This subbasin includes the Texas portion of those streams crossing the Arkansas-Texas state boundary one or more times and flowing through Arkansas into Cypress Creek-Twelve Mile Bayou watershed in Louisiana.

(b) Texas is apportioned sixty (60) percent of the run-off of this subbasin and shall have unrestricted use thereof; Arkansas is entitled to forty (40) percent of the runoff of this subbasin.

SECTION 6.02. Subbasin 2--Interstate streams--Arkansas and Louisiana.

(a) This subbasin includes the Arkansas portion of those streams flowing from Subbasin 1 into Arkansas, as well as other streams in Arkansas which cross the Arkansas-Louisiana state boundary one or more times and flow into Cypress Creek-Twelve Mile Bayou watershed in Louisiana.

(b) Arkansas is apportioned sixty (60) percent of the runoff of this subbasin and shall have unrestricted use thereof; Louisiana is entitled to forty (40) percent of the runoff of this subbasin.

SECTION 6.03. Subbasin 3--Interstate streams--Texas and Louisiana.

(a) This subbasin includes the Texas portion of all tributaries crossing the Texas-Louisiana state boundary one or more times and flowing into Caddo Lake, Cypress Creek-Twelve Mile Bayou, or Cross Lake, as well as the Louisiana portion of such tributaries.

(b) Texas and Louisiana within their respective boundaries shall each have the unrestricted use of the water of this subbasin subject to the following allocation:

(1) Texas shall have the unrestricted right to all water above Marshall, Lake O' the Pines, and Black Cypress damsites; however, Texas shall not cause runoff to be depleted to a quantity less than that which would have occurred with the full operation of Franklin County, Titus County, Ellison Creek, Johnson Creek, Lake O' the Pines, Marshall, and Black Cypress Reservoirs constructed, and those other impoundments and diversions existing on the effective date of this Compact. Any depletions of runoff in excess of the depletions described above shall be charged against Texas' apportionment of the water in Caddo Reservoir.

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(2) Texas and Louisiana shall each have the unrestricted right to use fifty (50) percent of the conservation storage capacity in the present Caddo Lake for the impoundment of water for state use, subject to the provision that supplies for existing uses of water from Caddo Lake, on date of Compact, are not reduced.

(3) Texas and Louisiana shall each have the unrestricted right to fifty (50) percent of the conservation storage capacity of any future enlargement of Caddo Lake, provided, the two states may negotiate for the release of each state's share of the storage space on terms mutually agreed upon by the two states after the effective date of this Compact.

(4) Inflow to Caddo Lake from its drainage area downstream from Marshall, Lake O' the Pines, and Black Cypress damsites and downstream from other last downstream dams in existence on the date of the signing of the Compact document by the Compact Commissioners, will be allowed to continue flowing into Caddo Lake except that any man-made depletions to this inflow by Texas will be subtracted from the Texas share of the water in Caddo Lake.

(c) In regard to the water of interstate streams which do not contribute to the inflow to Cross Lake or Caddo Lake, Texas shall have the unrestricted right to divert and use this water on the basis of a division of runoff above the state boundary of sixty (60) percent to Texas and forty (40) percent to Louisiana.

(d) Texas and Louisiana will not construct improvements on the Cross Lake watershed in either state that will affect the yield of Cross Lake; provided, however, this subsection shall be subject to the provisions of Section 2.08.

SECTION 6.04. Subbasin 4--Intrastate streams--Louisiana.

(a) This subbasin includes that area of Louisiana in Reach III not included within any other subbasin.

(b) Louisiana shall have free and unrestricted use of the water of this subbasin.

ARTICLE VII

Apportionment of Water--Reach IV

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Arkansas and Louisiana

Subdivision of Reach IV and allocation of water therein. Reach IV of the Red River is divided into topographic subbasins, and the water therein allocated as follows:

SECTION 7.01. Subbasin 1--Intrastate streams--Arkansas.

(a) This subbasin includes those streams and their tributaries above last downstream major damsites originating in Arkansas and crossing the Arkansas-Louisiana state boundary before flowing into the Red River in Louisiana. Those major last downstream damsites are as follows:

Stream	Site	Ac-ft	Location Latitude	Longitude
Ouachita River	Lake Catherine	19,000	34°26.6′N	93°01.6′W
Caddo River	DeGray Lake	1,377,000	34°13.2′N	93°06.6′W
Little Missouri River	Lake Greeson	600,000	34°08.9′N	93°42.9′W
Alum Fork, Saline River	Lake Winona	63,264	32°47.8′N	92°51.0′W

(b) Arkansas is apportioned the waters of this subbasin and shall have unrestricted use thereof.

SECTION 7.02. Subbasin 2--Interstate streams--Arkansas and Louisiana.

(a) This subbasin shall consist of Reach IV less subbasin 1 as defined in Section 7.01 (a) above.

(b) The State of Arkansas shall have free and unrestricted use of the water of this reach subject to the limitation that Arkansas shall allow a quantity of water equal to forty (40) percent of the weekly runoff originating below or flowing from the last downstream major damsites to flow into Louisiana. Where there are no designated last downstream damsites, Arkansas shall allow a quantity of water equal to forty (40) percent of the total weekly runoff originating above the state boundary to flow into Louisiana. Use of water in this subbasin is subject to low flow provisions of subparagraph 7.02(b).

SECTION 7.03. Special Provisions.

(a) Arkansas may use the beds and banks of segments of Reach IV for the purpose of conveying its share of water to designated downstream diversions.

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(b) The State of Arkansas does not guarantee to maintain a minimum low flow for Louisiana in Reach IV. However, on the following streams when the use of water in Arkansas reduces the flow at the Arkansas-Louisiana state boundary to the following amounts:

(1) Ouachita--780 cfs

(2) Bayou Bartholomew--80 cfs

(3) Boeuf River--40 cfs

(4) Bayou Macon--40 cfs

the State of Arkansas pledges to take affirmative steps to regulate the diversions of runoff originating or flowing into Reach IV in such a manner as to permit an equitable apportionment of the runoff as set out herein to flow into the State of Louisiana. In its control and regulation of the water of Reach IV any adjudication or order rendered by the State of Arkansas or any of its instrumentalities or agencies affecting the terms of this Compact shall not be effective against the State of Louisiana nor any of its citizens or inhabitants until approved by the Commission.

ARTICLE VIII

Apportionment of Water--Reach V

SECTION 8.01. Reach V of the Red River consists of the main stem Red River and all of its tributaries lying wholly within the State of Louisiana. The State of Louisiana shall have free and unrestricted use of the water of this subbasin.

ARTICLE IX

Administration of the Compact

SECTION 9.01. There is hereby created an interstate administrative agency to be known as the "Red River Compact Commission," hereinafter called the "Commission." The Commission shall be composed of two representatives from each Signatory State who shall be designated or

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appointed in accordance with the laws of each state, and one Commissioner representing the United States, who shall be appointed by the President. The Federal Commissioner shall be the Chairman of the Commission but shall not have the right to vote. The failure of the President to appoint a Federal Commissioner will not prevent the operation or effect of this Compact, and the eight representatives from the Signatory States will elect a Chairman for the Commission.

SECTION 9.02. The Commission shall meet and organize within 60 days after the effective date of this Compact. Thereafter, meetings shall be held at such times and places as the Commission shall decide.

SECTION 9.03. Each of the two Commissioners from each state shall have one vote; provided, however, that if only one representative from a state attends he is authorized to vote on behalf of the absent Commissioner from that state. Representatives from three states shall constitute a quorum. Any action concerned with administration of this Compact or any action requiring compliance with specific terms of this Compact shall require six concurring votes. If a proposed action of the Commission affects existing water rights in a state, and that action is not expressly provided for in this Compact, eight concurring votes shall be required.

SECTION 9.04. (a) The salaries and personal expenses of each state's representative shall be paid by the government that it represents, and the salaries and personal expenses of the Federal Commissioner will be paid for by the United States.

(b) The Commission's expenses for any additional stream flow gauging stations shall be equitably apportioned among the states involved in the reach in which the stream flow gauging stations are located.

(c) All other expenses incurred by the Commission shall be borne equally by the Signatory States and shall be paid by the Commission out of the “Red River Compact Commission Fund.” Such fund shall be initiated and maintained by equal payments of each state into the fund. Disbursement shall be made from the fund in such manner as may be authorized by the Commission. Such fund shall not be subject to audit and accounting procedures of the state; however, all receipts and disbursements of the fund by the Commission shall be audited by a qualified independent public accountant at regular intervals, and the report of such audits shall be included in and become a part of the annual report of the Commission. Each state shall have the right to make its own audit of the accounts of the Commission at any reasonable time.

ARTICLE X

Powers and Duties of the Commission

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SECTION 10.01. The Commission shall have the power to: (a) Adopt rules and regulations governing its operation and enforcement of the terms of the Compact;

(b) Establish and maintain an office for the conduct of its affairs and, if desirable, from time to time, change its location;

(c) Employ or contract with such engineering, legal, clerical and other personnel as it may determine necessary for the exercise of its functions under this Compact without regard to the Civil Service Laws of any Signatory State; provided that such employees shall be paid by and be responsible to the Commission and shall not be considered employees of any Signatory State;

(d) Acquire, use and dispose of such real and personal property as it may consider necessary;

(e) Enter into contracts with appropriate State or Federal agencies for the collection, correlation and presentation of factual data, for the maintenance of records and for the preparation of reports;

(f) Secure from the head of any department or agency of the Federal or State government such information as it may need or deem to be useful for carrying out its functions and as may be available to or procurable by the department or agency to which the request is addressed; provided such information is not privileged and the department or agency is not precluded by law from releasing same;

(g) Make findings, recommendations or reports in connection with carrying out the purposes of this Compact, including, but not limited to, a finding that a Signatory State is or is not in violation of any of the provisions of this Compact. The Commission is authorized to make such investigations and studies, and to hold such hearings as it may deem necessary for said purposes. It is authorized to make and file official certified copies of any of its findings, recommendations or reports with such officers or agencies of any Signatory State, or the United States, as may have any interest in or jurisdiction over the subject matter. The making of findings, recommendations, or reports by the Commission shall not be a condition precedent to the instituting or maintaining of any action or proceeding of any kind by a Signatory State in any court or tribunal, or before any agency or officer, for the protection of any right under this Compact or for the enforcement of any of its provisions; and

(h) Print or otherwise reproduce and distribute its proceedings and reports.

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SECTION 10.02. The Commission shall: (a) Cause to be established, maintained, and operated such stream, reservoir and other gauging stations as are necessary for the proper administration of the Compact;

(b) Cause to be collected, analyzed and reported such information on stream flows, water quality, water storage and such other data as are necessary for the proper administration of the Compact;

(c) Perform all other functions required of it by the Compact and do all things necessary, proper and convenient in the performance of its duties thereunder;

(d) Prepare and submit to the governor of each of the Signatory States a budget covering the anticipated expenses of the Commission for the following fiscal biennium;

(e) Prepare and submit an annual report to the governor of each Signatory State and to the President of the United States covering the activities of the Commission for the preceding fiscal year, together with an accounting of all funds received and expended by it in the conduct of its work;

(f) Make available to the governor or to any official agency of a Signatory State or to any authorized representative of the United States, upon request, any information within its possession;

(g) Not incur any obligation in excess of the unencumbered balance of its funds, nor pledge the credit of any of the Signatory States; and

(h) Make available to a Signatory State or the United States in any action arising under this Compact, without subpoena, the testimony of any officer or employee of the Commission having knowledge of any relevant facts.

ARTICLE XI

Pollution

SECTION 11.01. The Signatory States recognize that the increase in population and the growth of industrial, agricultural, mining and other activities combined with natural pollution sources

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may lead to a diminution of the quality of water in the Red River Basin which may render the water harmful or injurious to the health and welfare of the people and impair the usefulness or public enjoyment of the water for beneficial purposes, thereby resulting in adverse social, economic, and environmental impacts.

SECTION 11.02. Although affirming the primary duty and responsibility of each Signatory State to take appropriate action under its own laws to prevent, diminish, and regulate all pollution sources within its boundaries which adversely affect the water of the Red River Basin, the states recognize that the control and abatement of the naturally-occurring salinity sources as well as, under certain circumstances, the maintenance and enhancement of the quality of water in the Red River Basin may require the cooperative action of all states.

SECTION 11.03. The Signatory States agree to cooperate with agencies of the United States to devise and effectuate means of alleviating the natural deterioration of the water of the Red River Basin.

SECTION 11.04. The Commission shall have the power to cooperate with the United States, the Signatory States and other entities in programs for abating and controlling pollution and natural deterioration of the water of the Red River Basin, and to recommend reasonable water quality objectives to the states.

SECTION 11.05. Each Signatory State agrees to maintain current records of waste discharges into the Red River Basin and the type and quality of such discharges, which records shall be furnished to the Commission upon request.

SECTION 11.06. Upon receipt of a complaint from the governor of a Signatory State that the interstate waters of the Red River Basin in which it has an interest are being materially and adversely affected by pollution and that the state in which the pollution originates has failed after reasonable notice to take appropriate abatement measures, the Commission shall make such findings as are appropriate and thereafter provide such findings to the governor of the state in which such pollution originates and request appropriate corrective action. The Commission, however, shall not take any action with respect to pollution which adversely affects only the state in which such pollution originates.

SECTION 11.07. In addition to its other powers set forth under this Article, the Commission shall have the authority, upon receipt of six concurring votes, to utilize applicable Federal statutes to institute legal action in its own name against the person or entity responsible for interstate pollution problems; provided, however, sixty (60) days before initiating legal action the Commission shall notify the Governor of the state in which the pollution source is located to allow that state an opportunity to initiate action in its own name.

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SECTION 11.08. Without prejudice to any other remedy available to the Commission, or any Signatory State, any state which is materially and adversely affected by the pollution of the water of the Red River Basin by pollution originating in another Signatory State may institute a suit against any individual, corporation, partnership, or association, or against any Signatory State or political or governmental subdivision thereof, or against any officer, agency, department, bureau, district, or instrumentality of or in any Signatory State contributing to such pollution in accordance with applicable Federal statutes. Nothing herein shall be construed as depriving any persons of any rights of action relating to pollution which such person would have if this Compact had not been made.

ARTICLE XII

Termination and Amendment of Compact

SECTION 12.01. This Compact may be terminated at any time by appropriate action of the legislatures of all of the four Signatory States. In the event of such termination, all rights established under it shall continue unimpaired.

SECTION 12.02. This Compact may be amended at any time by appropriate action of the legislatures of all Signatory States that are affected by such amendment. The consent of the United States Congress must be obtained before any such amendment is effective.

ARTICLE XIII

Ratification and Effective Date of Compact

SECTION 13.01. Notice of ratification of this Compact by the legislature of each Signatory State shall be given by the governor thereof to the governors of each of the other Signatory States and to the President of the United States. The President is hereby requested to give notice to the governors of each of the Signatory States of the consent to this Compact by the Congress of the United States.

SECTION 13.02. This Compact shall become effective, binding and obligatory when, and only when:

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(a) It has been duly ratified by each of the Signatory States; and

(b) It has been consented to by an Act of the Congress of the United States, which Act provides that:

Any other statute of the United States to the contrary notwithstanding, in any case or controversy:

which involves the construction or application of this Compact;

in which one or more of the Signatory States to this Compact is a plaintiff or plaintiffs; and which is within the judicial power of the United States as set forth in the Constitution of the United States;

and without any requirement, limitation or regard as to the sum or value of the matter in controversy, or of the place of residence or citizenship of, or of the nature, character or legal status of, any of the other proper parties plaintiff or defendant in such case or controversy;

The consent of Congress is given to name and join the United States as a party defendant or otherwise in any such case or controversy in the Supreme Court of the United States if the United States is an indispensable party thereto.

SECTION 13.03. The United States District Courts shall have original jurisdiction (concurrent with that of the Supreme Court of the United States, and concurrent with that of any other Federal or state court, in matters in which the Supreme Court, or other court has original jurisdiction) of any case or controversy involving the application or construction of this Compact; that said jurisdiction shall include, but not be limited to, suits between Signatory States; and that the venue of such case or controversy may be brought in any judicial district in which the acts complained of (or any portion thereof) occur."

[FN1] So in original.
§ 15-23-502. Effective date

The provisions of the compact shall be in full force and effect from and after the effective date of the further ratification of the compact by the States of Oklahoma, Texas, and Louisiana and consented to by the Congress of the United States.

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§ 15-23-503. Designation of commissioners

The two (2) commissioners representing the State of Arkansas as provided by Section 9.01 of the compact ratified by this subchapter shall be designated as follows:

(1) The Director of the Arkansas Natural Resources Commission or such other state agency as may hereafter succeed to the powers and responsibilities of the Arkansas Natural Resources Commission; and

(2) Any individual who resides within the basin of the Red River and its tributaries in Arkansas, to be appointed by the Governor with the advice and consent of the Senate and to serve a term of seven (7) years.

Current through end of the 2011 Regular Session.
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APPENDIX N

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CADDO LAKE COMPACT

Preamble

The States of Louisiana and Texas, by acts of their respective governors, and based upon previous acts of their legislatures, have appointed representatives, including their respective Red River Compact Commissioners, to negotiate, in the interest of interstate comity and equitable apportionment and use of water, a Compact on Caddo Lake to augment and amplify the provisions of the Red River Compact dealing with Caddo Lake.

The Act of Congress, Public Law No. 346 (84th Congress, First Session), grants consent of federal government to the negotiation of this Compact; pursuant to that act, the President has designated the representative of the United States.

Because the water and water rights of the States of Oklahoma and Arkansas under the Red River Compact are completely unaffected by this Compact, Oklahoma and Arkansas have no objection to this Compact and did not participate in the negotiation of this Compact.

In order to resolve current controversies regarding the use of Caddo Lake water, controversies not adequately dealt with in the Red River Compact, the States of Texas and Louisiana, acting through their authorized representatives, have agreed to an equitable apportionment and use of the water of Caddo Lake and do hereby submit this Compact to amplify the Red River Compact and recommend that it be adopted by their respective legislatures and approved by Congress as hereinafter set forth:

Sec. 1 **Purposes**

In addition to the purposes specified in the Red River Compact, this compact is intended to preserve and protect Caddo Lake as a valuable environmental, cultural and natural resource and enhance water resource and recreational potentials, while allowing its utilization for water needs of adjacent portions of Louisiana and Texas. A primary means of accomplishing these purposes is to raise the spillway elevation of Caddo Lake to an elevation of 170.5 feet above mean sea level.

Nothing in this Compact shall be deemed to impair or affect the powers, rights, or obligations of the United States or those claiming under its authority in, over, and to water of Caddo Lake; nor shall this Compact be construed as interfering with the application of the National Environmental Policy Act of 1969.

Sec. 2 **Relation to the Red River Compact**

(a) This compact augments and amplifies the Red River Compact. It shall be construed harmoniously with the Red River Compact; it is not intended to amend, replace, or supersede any provisions of the Red River Compact, nor are any of the provisions of the Red River Compact intended to prevent the effective implementation of this Compact.

(b) In the event the Red River Compact is not enacted by all concerned states and ratified by Congress, or in the event that such action occurs after the effective date of this Compact, this Compact shall be fully effective pursuant to the provisions of Section 9.

Sec. 3 **Dedication**

The States of Louisiana and Texas hereby dedicate the water of Caddo Lake below 167.5 feet above mean sea level to serve as a recreation and navigation pool. Neither Louisiana nor Texas shall allow the diversion or consumptive use of the water of Caddo Lake below that level except as authorized in this Compact.

Sec. 4 **Diversion of Dedicated Water**

(a) In order to divert water when the level of Caddo Lake is below 167.5 feet above mean sea level, any water user diverting more than 1,000 gallons per day from Caddo Lake must submit water use plans to the Caddo Lake Commission providing for conservation and efficient use of water.

(b) The Caddo Lake Commission shall authorize users with approved water use plans to divert water from Caddo Lake when the lake level is below 167.5 feet above mean sea level, at times and under conditions authorized by the Caddo Lake Commission. The Caddo Lake Commission shall give priority to domestic users, municipalities or municipal use by political subdivisions and industries, in that order.

(c) In the event any user of water from Caddo Lake shall purchase water which is delivered into Caddo Lake from another source, that user making the purchase shall have the use of such purchased water, minus transportation or storage losses if any, as determined by the Commission, free from the regulation of the Caddo Lake Commission.

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Sec. 5 **Operating Rules**

As provided in Section 7, the Caddo Lake Commission shall have the power to establish operating criteria to govern the diversion and use of water from Caddo Lake. Unless modified, supplemented or changed by the Caddo Lake Commission, the following rules shall govern the diversion and use of water from Caddo Lake.

(a) The following operating rules shall be in effect until Caddo Lake is enlarged by raising the spillway level as provided in Section 8.

(1) Whenever water is spilling over the existing spillway at 168.5 feet above mean sea level, each state may withdraw or divert water from Caddo Lake without restriction.

(2) Whenever Caddo Lake is not spilling over the existing spillway at 168.5 feet above mean sea level, the total consumptive use by each state shall not exceed 8,400 acre-feet during the drawdown period; provided that neither state shall divert more than 3,600 acre-feet during any one month or 4,800 acre-feet during any two consecutive months.

(3) In addition to the requirements of Section 5(a)(2), when the lake level of Caddo Lake is at or below 167.5 feet above mean sea level,

(a) Any diversion by either state must be approved by the Caddo Lake Commission, as provided in Section 4; and,

(b) The total consumptive use by each state shall not exceed an average of 1,000 acre-feet per month, or more than 3,000 acre-feet during any two consecutive months; however,

(c) The limitations above shall not apply to a municipality or political subdivision during an emergency caused by the destruction or contamination of the municipality's or political subdivision's other water source.

(b) The following operating rules shall be in effect after Caddo Lake is enlarged by raising the spillway level as provided in Section 8.

(1) Whenever water is spilling over the raised spillway level, each state may withdraw or divert water from Caddo Lake without restriction.

(2) Whenever Caddo Lake is not spilling over the raised spillway, and the lake surface elevation is above 167.5 feet above mean sea level,

(a) If each state obtains 50% of the water above 168.5 feet above mean sea level, as authorized in Section 8, each state shall be entitled to divert 16,800 acre-feet during a drawdown period.

(b) If each state does not obtain 50% of the water above 168.5 feet above mean sea level, as authorized in Section 8, the total consumptive use by that state shall not be reduced below the amount of water to which it was entitled under Section 5(a).

(3) Whenever Caddo Lake is at or below 167.5 feet above mean sea level, no diversions from Caddo Lake may be made except in the case of a catastrophic event (such as destruction of a municipality or political subdivision's other water supply source or a drawdown which is more severe than the critical drawdown of record). Any emergency withdrawal or diversion must be specifically authorized by the Caddo Lake Commission, as provided in Section 4.

(c) The term 'drawdown' as used herein means that period commencing on the first day water ceases spilling over the existing spillway (or the raised spillway, if Caddo Lake is enlarged as authorized in Section 8) and continuing so long as the Caddo Lake surface elevation continues to fall, until the day when appreciable inflow reaches Caddo Lake, causing the Caddo Lake surface elevation to rise leading to a spill from Caddo Lake.

Sec. 6 **Administration**

(a) There is hereby created an interstate administrative agency to be known as the 'Caddo Lake Commission,' also referred to herein as the 'Commission.' It shall be composed of the Commissioners of Louisiana and Texas who serve as Red River Compact Commissioners and an appointed commissioner from each state who resides within one of the parishes or counties in which Caddo Lake is located. The Commissioners shall choose one member of the Commission to serve as a voting chairman. In the event this Compact becomes effective prior to, or without, the Red River Compact, the Governors of Texas and Louisiana shall each appoint three Commissioners to serve as Caddo Lake Commissioners. These Commissioners, or their successors, shall serve until the Red

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River Compact becomes effective and the offices of the nonlocal commissioners are assumed by the states' Red River Compact Commissioners.

(b) The Commission shall meet and organize within sixty (60) days after the effective date of this Compact. Thereafter, meetings shall be held at such times and places as the Commission shall decide.

(c) Each Commissioner shall have one vote; however, if one or more commissioners from a state is absent, the Commissioner(s) in attendance from that state is authorized to vote on behalf of the absent Commissioner(s) from that state. Any action concerning the administration of this Compact shall require four votes.

(d) The salaries and personal expenses of each state's Commissioners shall be paid by that state.

(e) All expenses incurred by the Commission shall be borne equally by the States of Louisiana and Texas and shall be paid by the Commission out of the 'Caddo Lake Commission Fund'. Such fund shall be initiated and maintained by equal payments of each state into the fund. Disbursements shall be made from the fund in such a manner as may be authorized by the Commission. Such fund shall not be subject to audit and accounting procedures of either state; however, all receipts and disbursements of the fund by the Commission shall be audited by a qualified independent public accountant at regular intervals, and the report of such audits shall be included in and become part of the annual report of the Commission. Each state shall have the right to make its own audit of the accounts of the Commission at any reasonable time.

Sec. 7 **Duties and Powers**

(a) The Commission shall have the power to:

(1) Adopt rules and regulations governing its operation and enforcement of the terms of the Compact;

(2) Establish and maintain an office for the conduct of its affairs and, if desirable, from time to time, change its location;

(3) Employ or contract with such engineering, legal, clerical and other personnel as it may determine necessary for the exercise of its functions under this Compact without regard to the Civil Service Laws of Louisiana or Texas; provided that such employees shall be paid by and be responsible to the Commission and shall not be considered employees of any state;

(4) Acquire, use and dispose of such real and personal property as it may consider necessary;

(5) Enter into contracts with appropriate state or federal agencies for the collection, correlation and presentation of factual data, for the maintenance of records and for the preparation of reports;

(6) Secure from the head of any department or agency of the federal or state government such information as it may need or deem to be useful for carrying out its functions and as may be available to or procurable by the department or agency to which the request is addressed; provided such information is not privileged and the department or agency is not precluded by law from releasing same;

(7) Make findings, recommendations or reports in connection with carrying out the purposes of this Compact, including, but not limited to, a finding that Louisiana or Texas is or is not in violation of any of the provisions of this Compact. The Commission is authorized to make such investigations and studies, and to hold such hearings as it may deem necessary for said purposes. It is authorized to make and file official certified copies of any of its findings, recommendations or reports with such officers or agencies of Louisiana or Texas or the United States, as may have any interest in or jurisdiction over the subject matter. The making of findings, recommendations, or reports by the Commission shall not be a condition precedent to the instituting or maintaining of any action or proceeding of any kind by Louisiana or Texas, in any court or tribunal, or before any agency or officer, for the protection of any right under this Compact or for the enforcement of any of its provisions; and

(8) Print or otherwise reproduce and distribute its proceedings and reports.

(b) The Commission shall:

(1) Cause to be established, maintained, and operated such stream, reservoir and other gaging stations as are necessary for the proper administration of the Compact;

(2) Cause to be collected, analyzed and reported such information on stream flows, water quality, water storage and such other data as are necessary for the proper administration of the Compact;

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(3) Adopt reasonable standards and criteria for the approval of water use plans required by Section 4, and procedures for the submission thereof;

(4) Establish operating criteria to govern the diversion and use of water from Caddo Lake;

(5) Perform all other functions required of it by the Compact and do all things necessary, proper and convenient in the performance of its duties thereunder;

(6) Prepare and submit to the Governors of Louisiana and Texas a budget covering the anticipated expenses of the Commission for the following fiscal year or biennium;

(7) Prepare and submit an annual report to the Governors of Louisiana and Texas and to the President of the United States covering the activities of the Commission for the preceding fiscal year, together with an accounting of all funds received and expended by it in the conduct of its work;

(8) Make available to the governor or to any official agency of Louisiana or Texas or to any authorized representative of the United States, upon request, any information within its possession;

(9) Not incur any obligation in excess of the unencumbered balance of its funds, nor pledge the credit of Louisiana or Texas; and

(10) Make available to Louisiana or Texas or the United States in any action arising under this Compact, without subpoena, the testimony of any officer or employee of the Commission having knowledge of any relevant facts.

Sec. 8 **Enlargement of Caddo Lake**

(a) It is the intention of Louisiana and Texas to enlarge Caddo Lake by raising the spillway level two feet. Each state has the guaranteed right to obtain 50% of the water above 168.5 feet above mean sea level made available from such an enlargement, subject to paying one-half of the total costs. Total costs of enlargement are equal to the sum of the cost of spillway construction, the cost of land and flowage easements in Texas, the current market value of land and flowage easements in Louisiana, as well as the administrative expenses incurred for each of the above listed items.

(b) Each state may obtain a proportionately larger share of the water resulting from the enlargement by paying the portion of the cost which would otherwise be paid by the other state under Section 8(a).

(c) Should Louisiana, or one of its political subdivisions, unilaterally raise the Caddo Lake spillway level without obtaining flowage easements in Texas, Louisiana would have the right to all water made available by the enlargement; provided, however, this provision constitutes an express waiver of any sovereign immunity or Eleventh Amendment defenses which might otherwise be available to the State of Louisiana in an action for damages by a Caddo Lake property owner in Texas for damage resulting from such action.

(d) This section does not prevent the enlargement of Caddo Lake by raising the spillway level some amount less than two feet, nor does it prevent a subsequent enlargement of Caddo Lake which might ultimately raise the level of Caddo Lake's spillway more than two feet.

Sec. 9 **Ratification and Effective Date of Compact**

(a) Notice of ratification of this Compact by the Legislatures of Louisiana and Texas shall be given by the Governor thereof to the Governor of the other state and to the President of the United States. The President is hereby requested to give notice to the Governors of Texas and Louisiana of the consent to this Compact by the Congress of the United States.

(b) This Compact shall become effective, binding and obligatory when, and only when:

(1) It has been duly ratified by Louisiana and Texas;

(2) The Red River Compact has been duly ratified by the State of Texas; and

(3) It has been consented to by an Act of the Congress of the United States, which Act provides that:

Any other statute of the United States to the contrary notwithstanding, in any case or controversy:

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which involves the construction or application of this Compact; in which Louisiana or Texas is a plaintiff; and

which is within the judicial power of the United States as set forth in the Constitution of the United States;

and without any requirement, limitation or regard as to the sum or value of the matter in controversy, or of the place of residence or citizenship of, or of the nature, character or legal status of, any of the other proper parties plaintiff or defendant in such case or controversy:

The consent of Congress is given to name and join the United States as a party defendant or otherwise in any such case or controversy in the Supreme Court of the United States if the United States is an indispensable party thereto.

(c) The United States District Courts shall have original jurisdiction (concurrent with that of the Supreme Court of the United States, and concurrent with that of any other federal or state court, in matters in which the Supreme Court, or other court has original jurisdiction) of any case or controversy involving the application or construction of this Compact; that said jurisdiction shall include, but not be limited to, suits between Louisiana and Texas; and that the venue of such case or controversy may be brought in any judicial district in which the acts complained of (or any portion thereof) occur.

SIGNED AND APPROVED THIS 26th DAY OF JANUARY, 1979.

William M. Huffman	Don Williamson
WILLIAM M. HUFFMAN	SENATOR DON WILLIAMSON
Marshall, Texas	Shreveport, Louisiana
Ed Howard	Calhoun Allen
SENATOR ED HOWARD	CALHOUN ALLEN
Texarkana, Texas	Shreveport, Louisiana
Fred Parkey	Arthur R. Theis
FRED PARKEY	ARTHUR R. THEIS, Red River
Red River Compact Commis-	Compact Commissioner for Louisiana"
sioner for Texas	

Added by Acts 1979, 66th Leg., p. 750, ch. 330, ◆ 1, eff. June 6, 1979.

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APPENDIX O

Preview Only

Prepared in cooperation with the

CITY OF SHREVEPORT
DEPARTMENT OF OPERATIONAL SERVICES

INTRODUCTION

Cross Lake is located in northwestern Louisiana. The lake was formed by constructing a dam on Cross Bayou in 1926 to provide an adequate source of drinking water for the residents of the City of Shreveport. At present (2001), the lake is the primary source of public water supply for the city. According to 1999 population statistics, the City of Shreveport had an estimated population of 196,667 (Northeast Louisiana University, Uniform Resource Locator accessed October 12, 2000). In 1995, 30.36 million gallons per day of water were withdrawn from the lake (Lovelace and Johnson, 1996, p. 110) for public supply (Darren Fortenberry, City of Shreveport, oral commun., 2000). Furthermore, the lake is used for flood control, and it is a popular recreational area for the city and the surrounding area.

The City of Shreveport is responsible for the management of Cross Lake. An understanding of current hydrologic conditions of the lake is essential to the management and protection of this valuable resource. The quantity and quality of water in the lake are important concerns to those who use this water body for municipal and recreational purposes. Current and accurate information is fundamental to planners and managers for evaluating the lake. In April 1996, the U.S. Geological Survey (USGS), in cooperation with the City of Shreveport, Department of Operational Services, began a two-phase study to (1) conduct a bathymetric survey of Cross Lake and (2) determine the quality of water in the lake. The bathymetric survey defined the morphology of Cross Lake to provide basic information on the physical characteristics of the lake and to aid in the interpretation of the water-quality data. The results of the two-phase study will be documented in two reports.

The purpose of this report is to present the results of the bathymetric survey of Cross Lake. Data collected for the construction of the bathymetric map included water-surface elevation, latitude, longitude, and water depth. Hydrographic surveying software was used for combining differential global positioning system (DGPS) information with digital survey fathometer data to accurately map the lake bottom. Data were referenced to sea level by subtracting the water depth from the water-surface elevation that existed during the data collection, thus ensuring proper referencing of the data between collections. The bathymetric map was produced using geographic information systems, and contours were reviewed and edited for accuracy and consistency.

Description of Study Area

The study area includes the extent of Cross Lake (fig. 1) and is located in the northern part of the City of Shreveport in central Caddo Parish. The City of Shreveport had a total annual rainfall of 44 inches and a mean annual temperature of 66°F (degrees Fahrenheit) in 1995. The average total annual rainfall for the previous five years (1990-94) was 62 inches at Shreveport (Craig Ross, National Weather Service, oral commun., 2001). The total annual rainfall during the study was below the average total annual amount. The elongated lake is oriented east to west and is approximately 9 mi (miles) in length. The lake covers approximately 13.4 mi^2 (square miles). Much of the lake's shoreline is urbanized, particularly along the eastern and southern areas. The area mainly west of the lake is mostly forested land. The watershed area that contributes runoff to the lake is 253 mi^2 (Sloss, 1971, p. 30). The lake receives inflow from eight major tributaries in this watershed, including supplemental flow through a pipeline from nearby Twelvemile Bayou. These tributaries are Paw Paw Bayou, Cross Bayou, Shettleworth Bayou, Logan Bayou, Piney Bayou, Page Bayou, Bickham Bayou, and the pipeline from Twelvemile Bayou. Most of the inflow enters at the western end of the lake. The three largest tributaries (and their drainage areas) are Paw Paw Bayou (82.02 mi^2), Cross Bayou (62.43 mi^2), and Shettleworth Bayou (19.54 mi^2) (Sloss, 1971, p. 30). The lake has two discharge points (Cross Lake spillway and a city water treatment plant intake), located at the eastern end of the lake.

Acknowledgments

The author extends appreciation to Robert "Bo" Williams, former Mayor of the City of Shreveport, and Mike Strong and Wes Wyche of the Department of Operational Services, City of Shreveport, for their cooperation and assistance provided during this study. Additionally, special thanks are given to the personnel of the Cross Lake Patrol and the Amiss Water Treatment Plant for the direction provided and the use of their facilities, and to employees of the USGS office in Ruston, Louisiana, for their assistance in collection and analysis of data.

WATER-SURFACE ELEVATION

The lake's level is controlled by the spillway structure which is 189 feet in length and has a crest elevation of 171.19 feet above sea level. A permanent continuous stage recorder equipped with a data collection platform and a staff gage were installed on the lake to monitor water-surface elevation during the study. The recorded daily mean water-surface elevation ranged from 169.04 to 170.03 feet above sea level with a mean of 169.71 feet above sea level during the bathymetric survey. The mean water-surface elevation of the lake was 170.27 feet above sea level during the years 1984-86, 1989-90, and 1992-95 (Darren Fortenberry, City of Shreveport, written commun., 1999), which indicates that the water-surface elevation during the study was slightly below its annual average.

BATHYMETRY

Bathymetric data for Cross Lake were collected during April 15-17 and 22, May 7 and 13, and June 14, 1996. More than 300,000 data points of latitude, longitude, and depth were recorded to accurately and comprehensively describe the bathymetry. Using hydrographic software, transects were established for the lake prior to data collection; 56 north to south, 4 east to west, and various other transects, from which bathymetric data were collected, were distributed across the lake.

Bathymetric data were collected using a DGPS linked through a computer to a digital fathometer. Specifically, the equipment included a Trimble Pathfinder ProXL DGPS unit, a Raytheon survey fathometer, equipped with an Odom digital interface, a portable computer, and HYPACK hydrographic software. The DGPS measured spatial position in state plane coordinates with routine accuracy of 5 feet. State plane coordinates were then converted to latitude and longitude and projected into universal transverse mercator units using ArcInfo. The digital fathometer measured the depth with routine accuracy of 0.1 foot; the fathometer was calibrated at the start of each survey day to maintain that accuracy. The hydrographic software was used for survey planning, survey execution, and storage and editing of data. Data were exported to ArcInfo for drawing elevation contours (fig. 1) and subsequent reviewing and editing of results.

Surface area and volume spatial analyses also were performed using ArcInfo. The water-surface area of Cross Lake was 8,576 acres, and the water volume was 65,807 acre-feet at a water-surface elevation of 171 feet above sea level. The depth-surface area and depth-volume relations are shown in figure 2. The average depth of the lake was 7.7 feet, with a depth of 7.7 feet or greater over more than 57 percent of the lake-surface area. The greatest depths were located mainly in the eastern parts of the lake. The shoreline development index, defined as the ratio of the shoreline length to the circumference of a circle of area equal to that of the lake, is 5.4 for Cross Lake. This indicates that Cross Lake's morphometry is very elliptical. Additional information about the lake is included in table 1.

Table 1. Physical description of Cross Lake

Latitude	32° 30′30″
Longitude	93° 50′00″
Lake-surface area	13.4 mi^2
Watershed area	253 mi^2
Shoreline length	70.4 mi
Maximum depth	18.3 feet
Average depth	7.7 feet
Watershed area to lake surface area ratio	19
Shoreline development index	5.4
Lake volume	65,807 acre-feet
Number of major tributaries	8
Number of major discharge points	2

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Sloss, Raymond, 1971, Drainage area of Louisiana Streams: Louisiana Department of Public Works Basic Records Report no. 6, 117 p.

In this report, "sea level" refers to the National Geodetic Vertical Datum 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 Sea Level Datum of 1929.

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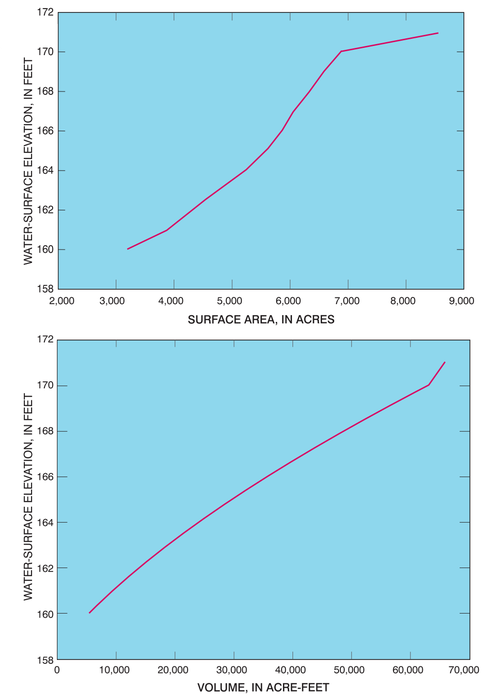
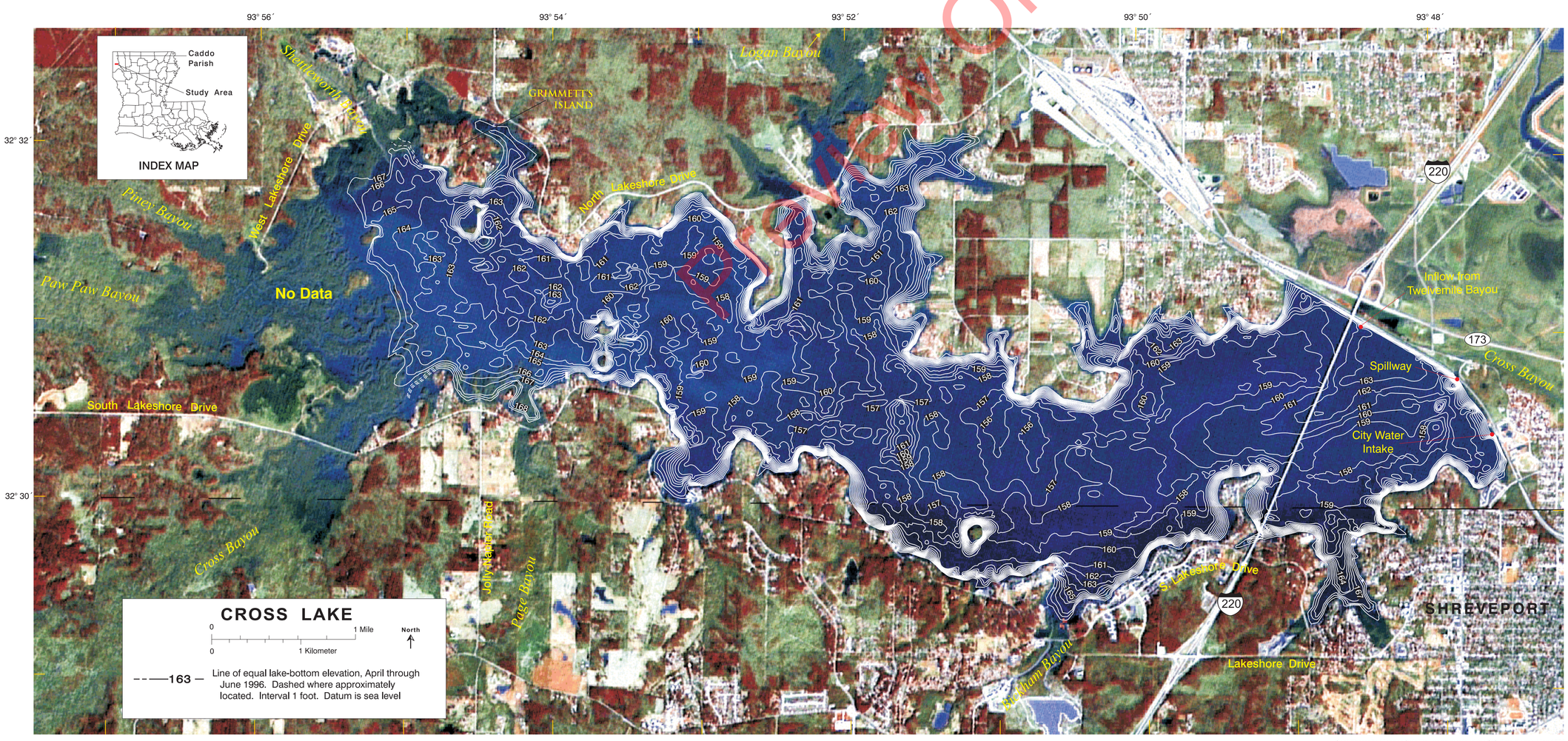


Figure 2. Depth-surface area and depth-volume relations of Cross Lake, April through June 1996.



Spot-Thematic Mapper Satellite image provided by GIS Data Depot, May 1999

Figure 1. Bathymetry of Cross Lake, Caddo Parish, Louisiana, April through June 1996.

Bathymetric Survey of Cross Lake, Caddo Parish, Louisiana, April through June 1996

By **Benton D. McGee**

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U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
PUBLIC WORKS AND FLOOD CONTROL DIRECTORATE
WATER RESOURCES SECTION

WATER-RESOURCES INVESTIGATIONS
REPORT 99-4217

BATHYMETRIC SURVEY AND PHYSICAL AND CHEMICAL-RELATED PROPERTIES OF CADDO LAKE

INTRODUCTION

Caddo Lake, located in northwestern Louisiana and northeastern Texas, is a popular recreational lake used for water-based activities such as fishing, boating, and swimming. Caddo Lake is a source of drinking water for several small Louisiana communities surrounding the lake. The latest (1994) available estimates of water withdrawn from the lake by public suppliers are as follows: the Blanchard Water System, 0.695 Mgal/d (million gallons per day); the Vivian Water System, 0.413 Mgal/d; Caddo Water District 1, 0.222 Mgal/d; the Mooringsport Water System, 0.113 Mgal/d; the East Mooringsport Water System, 0.17 Mgal/d; and the East Cove Utility Water System, 0.042 Mgal/d (P.M. Johnson-Thibaut, U.S. Geological Survey, written commun., 1998). An understanding of current hydrologic conditions of Caddo Lake and other lakes and reservoirs in Louisiana is essential to the management and protection of these valuable natural resources. Water quality and quantity are important concerns to those who use these lakes and reservoirs for municipal, recreational, agricultural, or industrial purposes. Current and accurate information regarding the physical and chemical-related properties and conditions of freshwater lakes and reservoirs in Louisiana is fundamental to planners and managers for evaluating these resources. In October 1996, the U.S. Geological Survey, in cooperation with the Louisiana Department of Transportation and Development, began a study to conduct a bathymetric survey and determine the physical and chemical-related properties of Caddo Lake.

The purpose of this report is to present the results of the bathymetric survey and the results of vertical profiles of physical and chemical-related properties, including depth, water temperature, dissolved oxygen (DO), specific conductance, and pH. Hydrographic surveying software was used for combining differential global positioning system (DGPS) information with digital survey fathometer data to accurately map the bathymetry of the lake. The bathymetric map was produced using geographic information systems (GIS), and lines of equal depth of water were reviewed and edited for accuracy and consistency. On-site physical and chemical-related properties were measured at three selected locations using a water-quality monitor. This report is one in a series of planned map reports describing current bathymetry and physical and chemical-related properties of lakes and reservoirs in Louisiana.

Description of Study Area

Caddo Lake (fig. 1), which is about 20 miles northwest of Shreveport, Louisiana, is located in northwestern Caddo Parish, Louisiana, and western Marion County, Texas. A 1997 census estimated a population of 200,827 for Shreveport, 244,943 for Caddo Parish (Northeast Louisiana University, Uniform Resource Locator accessed December 1, 1998), and 10,635 for Marion County, Texas (U.S. Bureau of the Census, URL accessed September 16, 1999). This area has a subtropical transitional climate with a mean annual rainfall of 46.1 inches and a mean annual temperature of 65.2°F (degrees Fahrenheit) (Jay Grymes, Louisiana Office of State Climatology, written commun., 1998).

Caddo Lake has a drainage area of 2,744 square miles. The lake receives inflow from Big Cypress Bayou in Texas and Hunts Creek in Louisiana, which enter at the western and northern ends, respectively, and numerous other smaller tributaries. Water level is controlled by a 3,725-foot-long spillway located at the eastern end of the lake in Louisiana. Water discharges into Willow Pass Twelvemile Bayou. The spillway originally completed in 1914 was rebuilt in 1971; the crest elevation of the spillway is 168.00 feet above sea level. The maximum design discharge is 36,000 cubic feet per second (Ray Elifami, Louisiana Department of Transportation and Development, written commun., 1998).

Caddo Lake is a very wide shallow lake; shallower areas of the lake are densely vegetated and impassable to motorized boats. Active and abandoned oil well pumping station platforms and remnant pilings of decayed platforms are scattered throughout the lake. Well-demarcated channels allow boat traffic to avoid submerged obstacles and the densely vegetated areas.

Acknowledgments

The author extends appreciation to Zahir "Bo" Bolourchi, Chief, Water Resources Section, Louisiana Department of Transportation and Development, for direction and assistance provided for this study. Thanks are given to the National Wetlands Research Center of the U.S. Geological Survey, Lafayette, Louisiana, for providing background aerial photographs.

BATHYMETRY

Bathymetric data for Caddo Lake were collected during August 10-13 and September 1-2, 1998. Accurate position and depth data were obtained to comprehensively describe the lake bathymetry; 154,959 data points of latitude, longitude, and depth were recorded. The bathymetry of Caddo Lake is shown in figure 1; all water depths are referenced to the August 10-13, 1998, water-surface elevation of 167.58 feet above sea level.

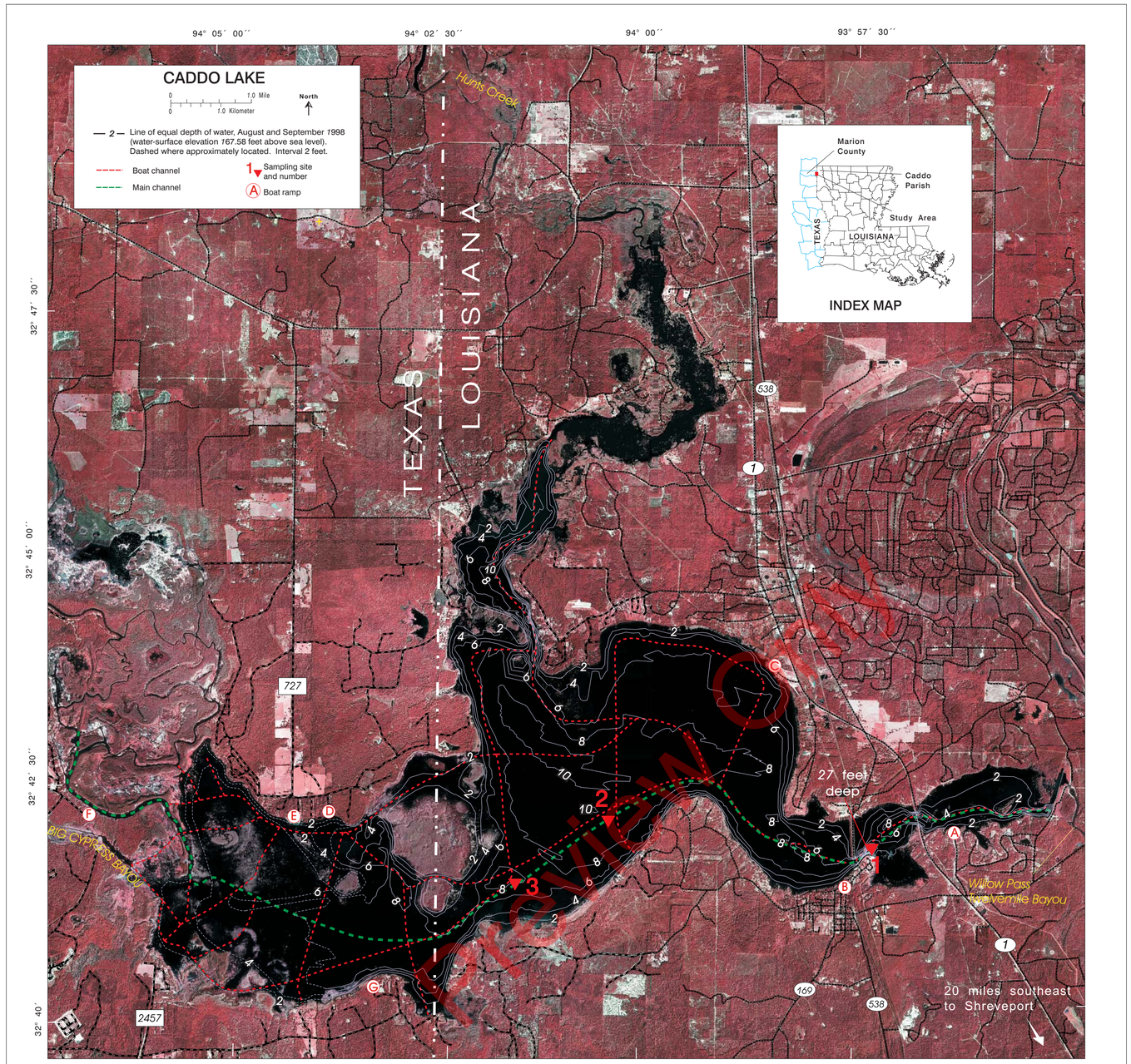

Figure 1. Bathymetry of Caddo Lake, August and September, 1998.

Aerial photomap by the U.S. Geological Survey
Color infrared photographs Caddo Lake, Roll 95040, October 15, 1995

Equipment used during the bathymetric survey included a Starlink DNAV-212 DGPS, an Odom digital survey fathometer, and HYPACK software. The DGPS measured spatial position in latitude and longitude with routine accuracy of 5 feet; horizontal control points were established at the beginning and rechecked at the end of each survey day to maintain that accuracy. The survey fathometer measured the depth with routine accuracy of 0.1 foot; the fathometer was calibrated at the start and verified at the end of each survey day to maintain that accuracy. The HYPACK software was used for survey planning, survey execution, and storage and editing of data. Data were exported to ARC/INFO for drawing lines of equal depth of water and subsequent reviewing and editing of the results.

Surface area and volume spatial analyses also were performed within ARC/INFO. The water-surface area of Caddo Lake was 18,700 acres, and the water volume was 85,100 acre-feet. The depth-surface area and depth-volume relations are shown in figure 2. The average depth of Caddo Lake was 4.6 feet, with depth of 4.6 feet or greater over more than 50 percent of the lake-surface area. Greatest depths are located in the eastern part of the lake east of the Highway 538 bridge, where the water depth is approximately 27 feet.

PHYSICAL AND CHEMICAL-RELATED PROPERTIES

Data on physical and chemical-related properties were collected on August 12, 1998, at selected sites in Caddo Lake. At these sites (1, 2, and 3 in fig. 1), multiple points along a vertical profile were sampled to establish the occurrence and depth of stratification. The HYDROLAB, a water-quality monitor, was calibrated at the beginning of the day prior to physical and chemical-related property data collection.

Data were collected along a vertical profile from above the lake bed to 1.6 feet below the water surface. Data were recorded at a maximum depth of 19.7 feet at site 1 and 7.2 feet at sites 2 and 3. Temperatures decreased from 88 to 85°F within 3 feet of the surface at site 1; however, water temperatures were uniform throughout the water column at sites 2 and 3. Shallow-water temperatures ranged from 88°F to approximately 83°F, and bottom-water temperatures ranged from approximately 85 to 83°F (fig. 3).

The DO concentration profiles were fairly uniform with depth, with only site 1 showing a slight decrease in concentration with depth. At site 1, DO concentrations decreased from 5.16 to 3.26 mg/L at approximately 3 feet, then varied slightly with depth. For sites 2 and 3, shallow-water DO concentrations ranged from 6.90 to 7.09 mg/L, and varied slightly with depth. Concentrations of DO vary considerably with depth, location, and season (Demas, 1985). The criterion for DO is 5 mg/L for freshwater aquatic life (Louisiana Department of Environmental Quality, 1998, p. 128; U.S. Environmental Protection Agency, 1976; 1986). Water visibility, measured with a Secchi disk, was 1.0 feet.

The specific conductance varied slightly; shallow-water concentrations ranged from 143 to 137 µS/cm (microsiemens per centimeter at 25 degrees Celsius). The pH ranged from 8.0 to 6.73 (standard units) near the surface, and varied only slightly with depth.

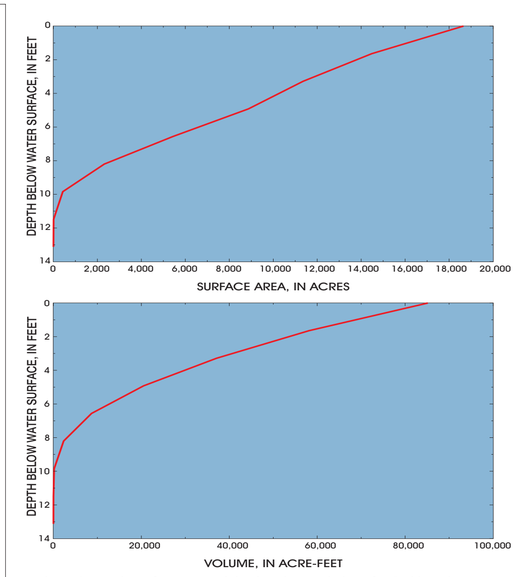

Figure 2. Depth-surface area and depth-volume relations for Caddo Lake. Water-surface elevation was 167.58 feet above sea level during the bathymetric survey of August and September 1998.

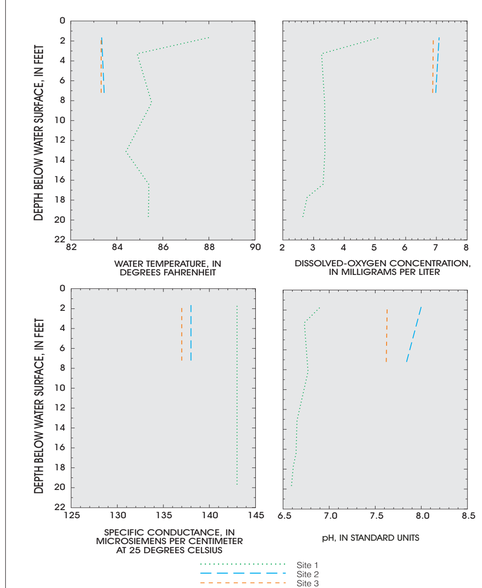

Figure 3. Variation of water temperature, dissolved-oxygen concentration, specific conductance, and pH in Caddo Lake, August 12, 1998.

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-----1986, Quality criteria for water: Washington, D.C., U.S. Environmental Protection Agency [variously paged].

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Louisiana Department of Transportation and Development - U.S. Geological Survey Water Resources Cooperative Program

Bathymetric Survey and Physical and Chemical-Related Properties of Caddo Lake, Louisiana and Texas, August and September 1998

By Paul A. Ensminger

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LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
PUBLIC WORKS AND WATER RESOURCES DIVISION
WATER RESOURCES SECTION

WATER-RESOURCES INVESTIGATIONS
REPORT 99-4255

BATHYMETRIC SURVEY AND PHYSICAL AND CHEMICAL-RELATED PROPERTIES OF CYPRESS BAYOU RESERVOIR

INTRODUCTION

Cypress Bayou Reservoir, formed from an earthen dam built in 1975 on Cypress Bayou in northwestern Louisiana, is used for water-based activities such as water skiing, fishing, boating, and swimming. An understanding of current hydrologic conditions of this reservoir and other reservoirs and lakes in Louisiana is essential to the management and protection of these valuable natural resources. Water quality and quantity are important concerns to those who use these bodies of water for municipal, recreational, agricultural, or industrial purposes. Current and accurate information regarding the physical and chemical-related properties and conditions of freshwater reservoirs and lakes in Louisiana is fundamental to planners and managers for evaluating these resources. In October 1996, the U.S. Geological Survey, in cooperation with the Louisiana Department of Transportation and Development, began a study to conduct a bathymetric survey and determine the physical and chemical-related properties of Cypress Bayou Reservoir.

The purpose of this report is to present the results of the bathymetric survey and the results of vertical profiles of physical and chemical-related properties, including depth, water temperature, dissolved oxygen (DO), specific conductance, and pH, which were measured at three sites in the reservoir. Hydrographic surveying software was used for combining differential global positioning system (DGPS) information with digital survey fathometer data to accurately map the bathymetry of the reservoir. The bathymetric map was produced using geographic information systems (GIS), and lines of equal depth of water were reviewed and edited for accuracy and consistency. On-site physical and chemical-related properties were measured at the three selected locations using a water-quality monitor. This report is one in a series of planned map reports describing current bathymetry and physical and chemical-related properties of reservoirs and lakes in Louisiana.

Description of Study Area

Cypress Bayou Reservoir (fig. 1) is located in Bossier Parish, about 8 miles north of Shreveport, Louisiana, and 3 miles east of Benton, Louisiana. A 1997 census estimated a population of 93,752 for Bossier Parish, 200,827 for Shreveport, and 2,038 for Benton (University of Louisiana at Monroe, Uniform Resource Locator accessed December 1, 1998). This area has a subtropical transitional climate with a mean annual rainfall of 46.1 inches and a mean annual temperature of 54.2°F (degrees Fahrenheit) (Jay Grymes, Louisiana Office of State Climatology, written commun., 1998).

Cypress Bayou Reservoir has a drainage area of 155 square miles, and receives inflow from Cypress Bayou, Little Caney Bayou, and White Oak Bayou. The earthen dam is 6,100 feet in length. The reservoir level is controlled by a 300-foot spillway with a crest elevation of 180 feet above sea level. The maximum design discharge for the spillway is 45,400 cubic feet per second (Ray Elifami, Louisiana Department of Transportation, written and oral communs., 1998). The bathymetry of Cypress Bayou Reservoir still contains evidence of the once meandering channels of Cypress Bayou and Little Caney Bayou in the northern part of the reservoir.

Acknowledgments

The author extends his appreciation to Zahir "Bo" Bolourchi, Chief, Water Resources Section, Louisiana Department of Transportation and Development, for direction and assistance provided for this study. Special thanks are given to the Cypress-Black Bayou Recreation and Water Conservation District, which provided use of their boat launching and docking facilities during the data-collection phase of this study.

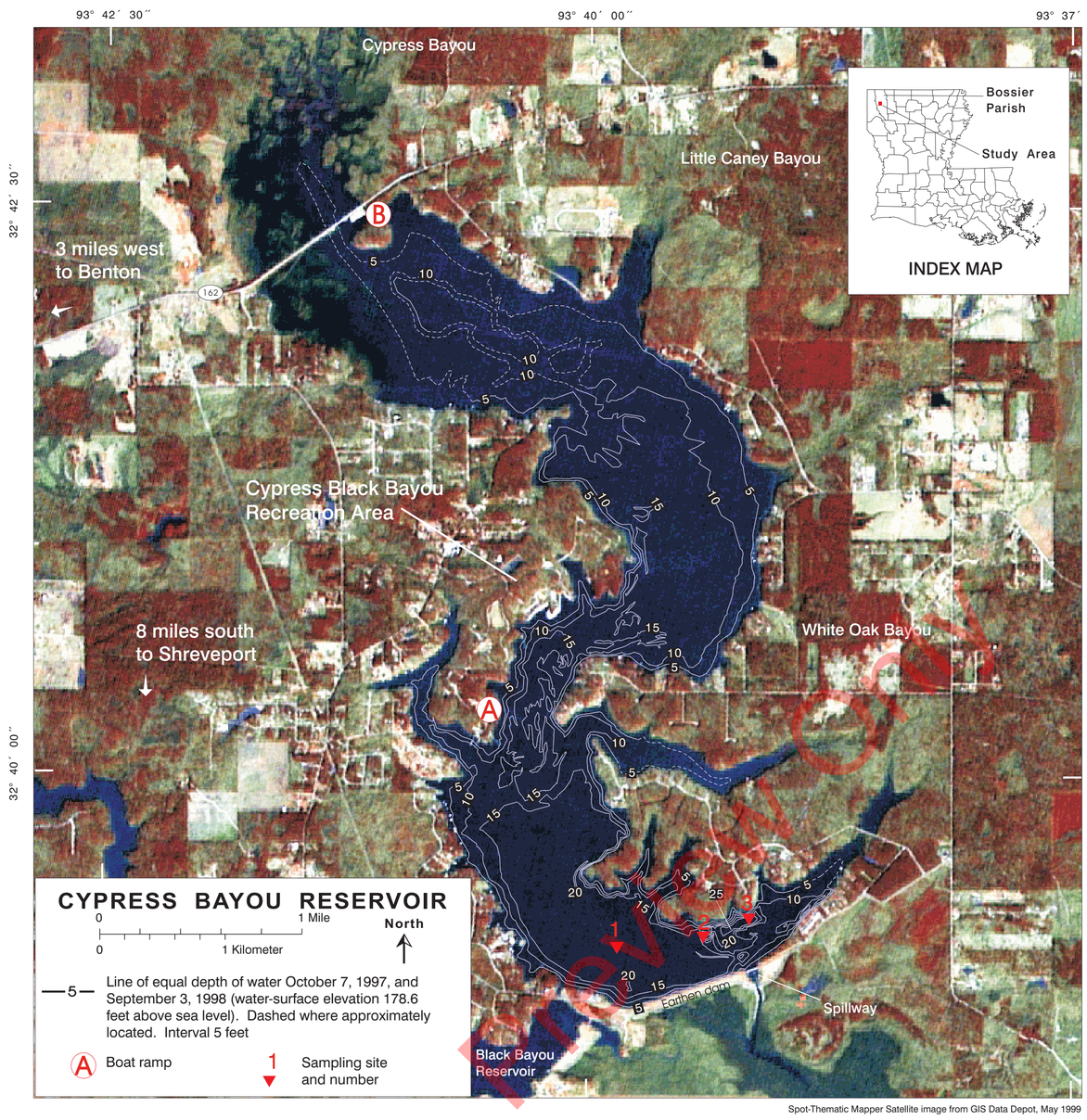

Figure 1. Bathymetry of Cypress Bayou Reservoir, October 7, 1997, and September 3, 1998.

BATHYMETRY

Bathymetric data for Cypress Bayou Reservoir were collected during October 7, 1997, and September 3, 1998. Accurate position and depth data were obtained to comprehensively describe the reservoir bathymetry; 83,206 data points of latitude, longitude, and depth were recorded. The bathymetry of the reservoir is shown in figure 1; water depths are referenced to the water-surface elevation of 178.6 feet above sea level.

Equipment used for the bathymetric survey included a Starlink DNAV-212 DGPS, an Odom digital survey fathometer, and HYPACK software. The DGPS measured spatial position in latitude and longitude with routine accuracy of 5 feet; horizontal control points were established at the beginning and rechecked at the end of each survey day to maintain that accuracy. The survey fathometer measured the depth with routine accuracy of 0.1 foot; the fathometer was calibrated at the start and verified at the end of each survey day to maintain that accuracy. The HYPACK software was used for survey planning, survey execution, and storage, and editing of data. Data were exported to ARC/INFO for drawing lines of equal depth of water and subsequent reviewing and editing of results. Lines of equal depth of water were dashed in areas where the bathymetric data were sparse.

Surface area and volume spatial analyses also were performed within ARC/INFO. The water-surface area of Cypress Bayou Reservoir was 3,400 acres, and the water volume was 22,700 acre-feet. The depth-surface area and depth-volume relations are shown in figure 2. The average depth of the reservoir was 6.7 feet, with a depth of 6.2 feet or greater over more than 50 percent of the reservoir surface area. The greatest depths are located in the southeastern part of the reservoir.

PHYSICAL AND CHEMICAL-RELATED PROPERTIES

Data on physical and chemical-related properties were collected August 12, 1998, at selected sites in Cypress Bayou Reservoir. At these sites (1, 2, and 3 in fig. 1), multiple points along a vertical profile were sampled to establish the occurrence and depth of stratification. The HYDROLAB, a water-quality monitor, was calibrated at the beginning of the day prior to physical and chemical-related property data collection.

Data were collected along a vertical profile from above the reservoir bed to 1.6 feet below the water surface, with additional sampling points within the stratification zone. The deepest measurements at the three sampling sites were as follows: 13.8 feet at site 1, 17.4 feet at site 2, and 20.0 feet at site 3. Water temperature remained constant at approximately 85°F from the surface to approximately 18 feet in depth, then decreased more rapidly with depth, with the deepest measurement of 76°F at 20 feet (fig. 3).

The DO concentration profiles showed stratification occurring at a depth between 12 and 18 feet. Concentrations of DO decreased more rapidly within this range, with shallow-water DO concentrations varying between 4.9 and 5.3 mg/L (milligrams per liter), and bottom-water DO concentrations of approximately 0.24 mg/L. Concentrations of DO vary considerably with depth, location, and season (Demas, 1985). The criterion for DO is 5 mg/L for freshwater aquatic life (Louisiana Department of Environmental Quality, 1998, p. 128; U.S. Environmental Protection Agency, 1976; 1986). Water visibility, measured with a Secchi disk, was 2.4 feet.

The specific conductance remained constant at 63 µS/cm (microsiemens per centimeter at 25 degrees Celsius) from the surface to about 18 feet, then increased with depth with the highest measurement of 157 µS/cm at 20 feet. The pH was about 6.3 (standard units) near the surface to a depth of about 16 feet, then pH increased with depth with the highest measurement of 6.8 recorded at 20 feet.

SELECTED REFERENCES

Demas, C.R., 1985, A limnological study of Lake Bruin, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works Water Resources Technical Report no. 38, 96 p.

Louisiana Department of Environmental Quality, 1998, Water quality regulations in Environmental Regulatory Code: Baton Rouge, Louisiana, Louisiana Administrative Code, title 33, part IX, p. 128.

University of Louisiana at Monroe, Center for Business and Economic Research, Louisiana parishes and municipalities July 1, 1997, population estimates published in January 1996: accessed December 1, 1998, at URL http://leap.nlu.edu/POPHS/pop1997.txt

U.S. Geological Survey, 1975, Benton quadrangle, Louisiana, 7.5-minute series, (topographic), scale 1:62,500.

U.S. Environmental Protection Agency, 1976, Quality criteria for water: Washington, D.C., U.S. Environmental Protection Agency, 256 p.

-----1986, Quality criteria for water: Washington, D.C., U.S. Environmental Protection Agency [variously paged].

In this report, "sea level" refers to the National Geodetic Vertical Datum 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 Sea Level Datum of 1929.

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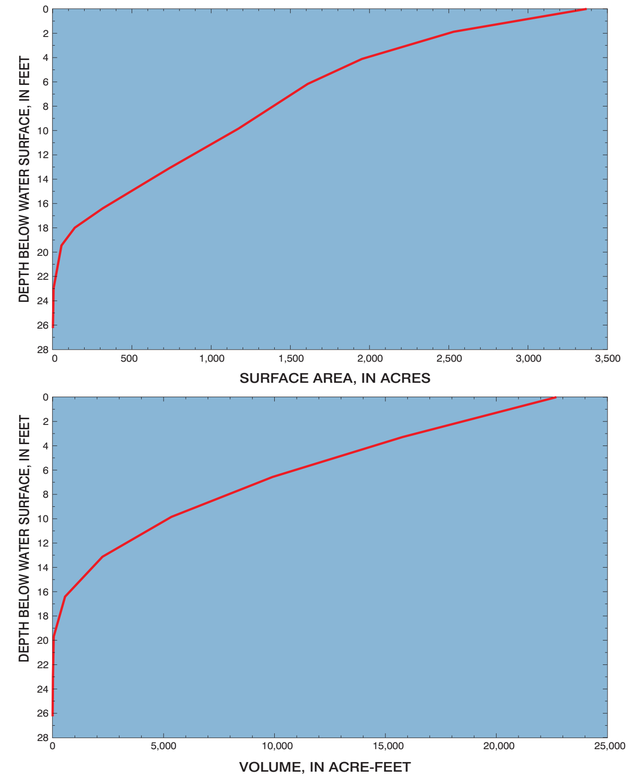

Figure 2. Depth-surface area and depth-volume relations for Cypress Bayou Reservoir. Water-surface elevation was 178.6 feet above sea level during the bathymetric surveys, October 7, 1997, and September 3, 1998.

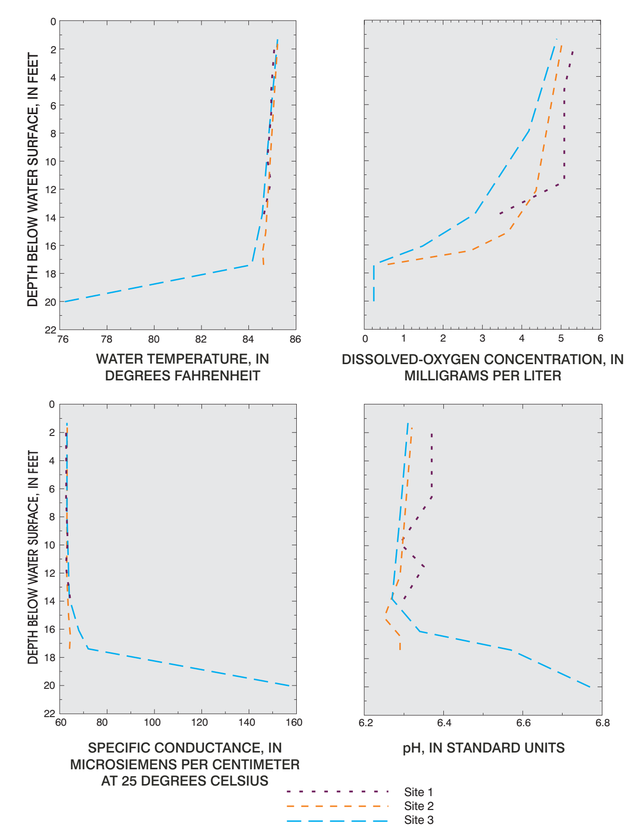

Figure 3. Variation of water temperature, dissolved-oxygen concentration, specific conductance, and pH in Cypress Bayou Reservoir, August 12, 1998.

Louisiana Department of Transportation and Development - U.S. Geological Survey Water Resources Cooperative Program

Bathymetric Survey and Physical and Chemical-Related Properties of Cypress Bayou Reservoir, Louisiana, October 1997 and August and September 1998

By Paul A. Ensminger

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U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
PUBLIC WORKS AND WATER RESOURCES DIVISION
WATER RESOURCES SECTION

WATER-RESOURCES INVESTIGATIONS
REPORT 99-4293

BATHYMETRIC SURVEY AND PHYSICAL AND CHEMICAL-RELATED PROPERTIES OF BLACK BAYOU RESERVOIR

INTRODUCTION

Black Bayou Reservoir, formed from an earthen dam built in 1975 on Black Bayou in northwestern Louisiana, is used for water-based activities such as water skiing, fishing, boating, and swimming. An understanding of current hydrologic conditions of this reservoir and other reservoirs and lakes in Louisiana is essential to the management and protection of these valuable natural resources. Water quality and quantity are important concerns to those who use these bodies of water for municipal, recreational, agricultural, or industrial purposes. Current and accurate information regarding the physical and chemical-related properties and conditions of freshwater reservoirs and lakes in Louisiana is fundamental to planners and managers for evaluating these resources. In October 1996, the U.S. Geological Survey, in cooperation with the Louisiana Department of Transportation and Development, began a study to conduct a bathymetric survey and determine the physical and chemical-related properties of Black Bayou Reservoir.

The purpose of this report is to present the results of the bathymetric survey and the results of vertical profiles of physical and chemical-related properties, including depth, water temperature, dissolved oxygen (DO), specific conductance, and pH, which were measured at three sites in the reservoir. Hydrographic surveying software was used for combining differential global positioning system (DGPS) information with digital survey fathometer data to accurately map the bathymetry of the reservoir. The bathymetric map was produced using geographic information systems (GIS), and lines of equal depth of water were reviewed and edited for accuracy and consistency. On-site physical and chemical-related properties were measured at the three selected locations using a water-quality monitor. This report is one in a series of planned map reports describing current bathymetry and physical and chemical-related properties of reservoirs and lakes in Louisiana.

Description of Study Area

Black Bayou Reservoir (fig. 1) is located in Bossier Parish, about 8 miles north of Shreveport, Louisiana, and 3 miles southeast of Benton, Louisiana. A 1997 census estimated a population of 93,752 for Bossier Parish, 200,827 for Shreveport, and 2,038 for Benton (University of Louisiana at Monroe, Uniform Resource Locator accessed December 1, 1998). This area has a subtropical transitional climate with a mean annual rainfall of 46.1 inches and a mean annual temperature of 54.2oF (degrees Fahrenheit) (Jay Grymes, Louisiana Office of State Climatology, written commun., 1998).

Black Bayou Reservoir has a drainage area of 26 square miles and receives inflow from Black Bayou. The earthen dam is 4,800 feet in length. The reservoir level is controlled by a spillway 150 feet in length, and has a crest elevation of 185 feet above sea level. The maximum discharge for the spillway structure is 13,680 cubic feet per second (Ray Elifami, Louisiana Department of Transportation and Development, oral and written communs., 1998). The bathymetry of Black Bayou Reservoir varies, and contains evidence of the once meandering channels of Black Bayou.

Acknowledgments

The author extends his appreciation to Zahir "Bo" Bolourchi, Chief, Water Resources Section, Louisiana Department of Transportation and Development, for direction and assistance provided for this study. Special thanks are given to the Cypress-Black Bayou Recreation and Water Conservation District, which provided use of their boat launching and docking facilities during the data-collection phase of this study.

BATHYMETRY

Bathymetric data for Black Bayou Reservoir were collected during October 7-8, 1997. Accurate position and depth data were obtained to comprehensively describe the bathymetry of the reservoir; 36,682 data points of latitude, longitude, and depth were recorded. The bathymetry of the reservoir is shown in figure 1; water depths are referenced to the water-surface elevation of 183.6 feet above sea level.

Equipment used for the bathymetric survey included a Starlink DNAV-212 DGPS, an Odom digital survey fathometer, and HYPACK software. The DGPS measured spatial position in latitude and longitude with routine accuracy of 5 feet; horizontal control points were established at the beginning and rechecked at the end of each survey day to maintain that accuracy. The survey fathometer measured the depth with routine accuracy of 0.1 foot; the fathometer was calibrated at the start and verified at the end of each survey day to maintain that accuracy. The HYPACK software was used for survey planning, survey execution, and storage and editing of data. Data were exported to ARC/INFO for drawing lines of equal depth of water and subsequent reviewing and editing of results. Data were exported to ARC/INFO for drawing lines of equal depth of water and subsequent reviewing and editing of results.

Surface area and volume spatial analyses also were performed within ARC/INFO. The water-surface area of Black Bayou Reservoir was 590 acres, and the water volume was 5,850 acre-feet. The depth-surface area and depth-volume relations are shown in figure 2. The average depth of the reservoir was 9.9 feet, with a depth of 9.5 feet or greater over more than 50 percent of the reservoir-surface area. Depths are highly varied, and generally shallow moving in a northwestern direction toward Black Bayou.

PHYSICAL AND CHEMICAL-RELATED PROPERTIES

Data on physical and chemical-related properties were collected on September 24, 1997, at selected sites in Black Bayou Reservoir. At these sites (1, 2, and 3 in fig. 1), multiple points along a vertical profile were sampled to establish the occurrence and depth of stratification. The HYDROLAB, a water-quality monitor, was calibrated at the beginning of each day prior to physical and chemical-related property data collection.

Data were collected along a vertical profile from above the reservoir bed to 1.6 feet below the water surface, with additional sampling points within the stratification zone. The deepest measurements at the three sampling sites were as follows: 11.8 feet at site 1, 13.8 feet at site 2, and 14.8 feet at site 3. Water temperature remained constant at approximately 80oF from the surface to approximately 10 feet in depth, then decreased more rapidly with depth, with the deepest measurement of 75oF at 14.8 feet (fig. 3).

The DO concentration profiles showed stratification occurring at a depth between 10 and 14 feet. Shallow-water DO concentrations ranged from 3.5 to 4.3 mg/L (milligrams per liter), and bottom-water DO concentrations ranged from 0.24 to 0.98 mg/L. DO concentrations vary considerably with depth, location, and season (Demas, 1985). The criterion for DO is 5 mg/L for freshwater aquatic life (Louisiana Department of Environmental Quality, 1998, p. 128; U.S. Environmental Protection Agency, 1976; 1986). Water visibility, measured with a Secchi disk, was 2.4 feet.

The specific conductance remained constant at 61 mS/cm (microsiemens per centimeter at 25 degrees Celsius) from the surface to approximately 10 feet. Below 10 feet, the specific conductance increased with depth to 143 mS/cm at 14.8 feet, which was the deepest measurement.

SELECTED REFERENCES

Demas, C.R., 1985, A limnological study of Lake Bruin, Louisiana: Louisiana Department of Transportation and Development, Office of Public Works Water Resources Technical Report no. 38, 96 p.

Louisiana Department of Environmental Quality, 1998, Water quality regulations in Environmental Regulatory Code: Baton Rouge, Louisiana, Louisiana Administrative Code, title 33, part IX, p. 128.

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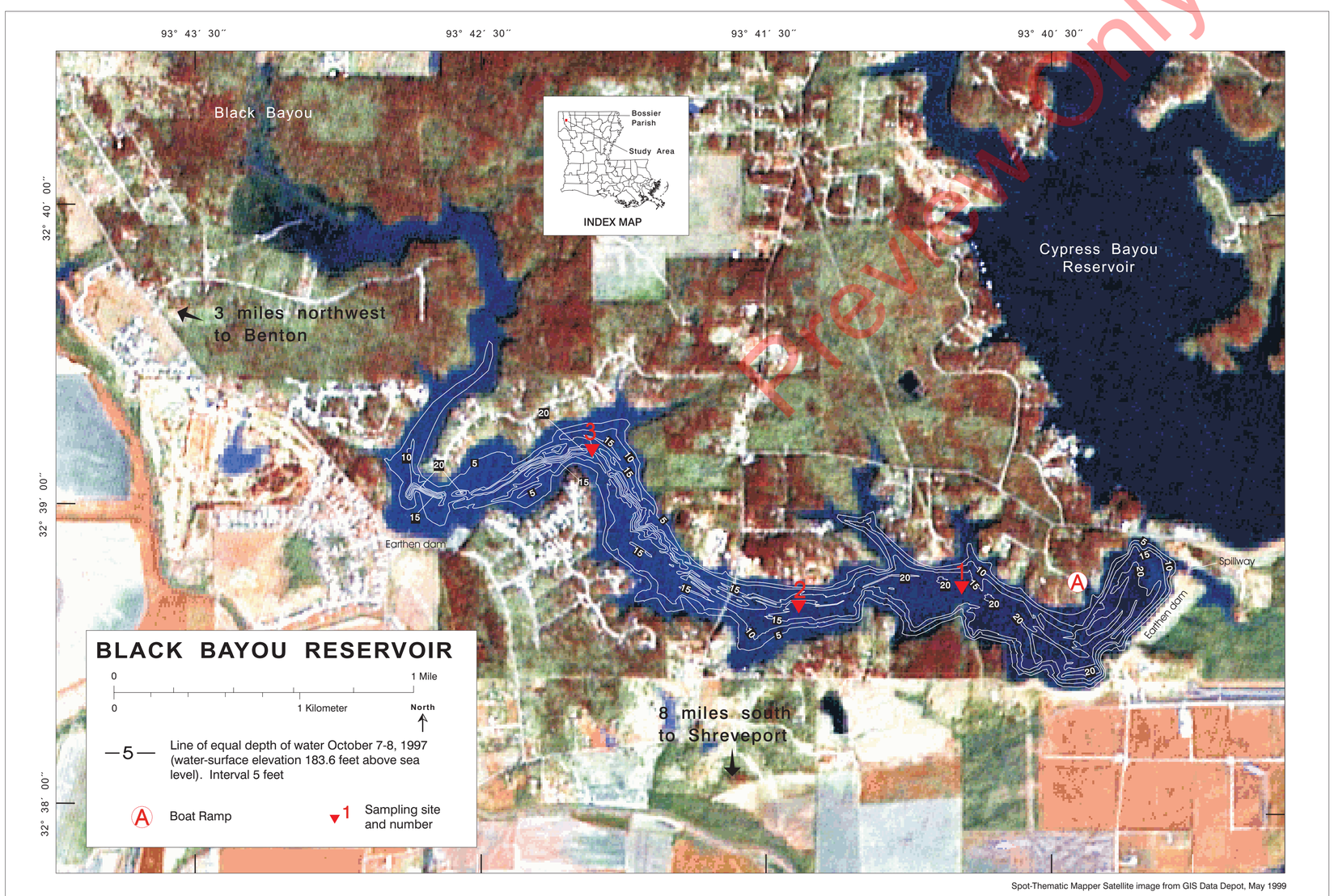
Preview Only



Spot-Thematic Mapper Satellite image from GIS Data Depot, May 1999

Figure 1. Bathymetry of Black Bayou Reservoir, October 7-8, 1997.

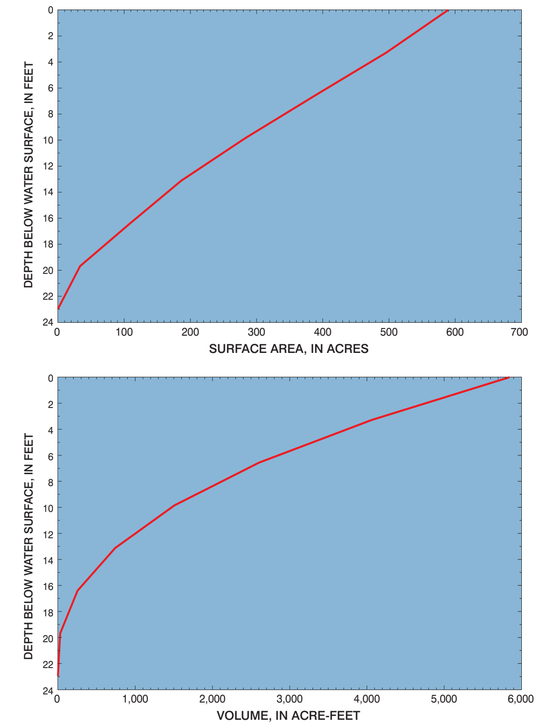


Figure 2. Depth-surface area and depth-volume relations for Black Bayou Reservoir. Water-surface elevation was 183.6 feet above sea level during the bathymetric survey of October 7-8, 1997.

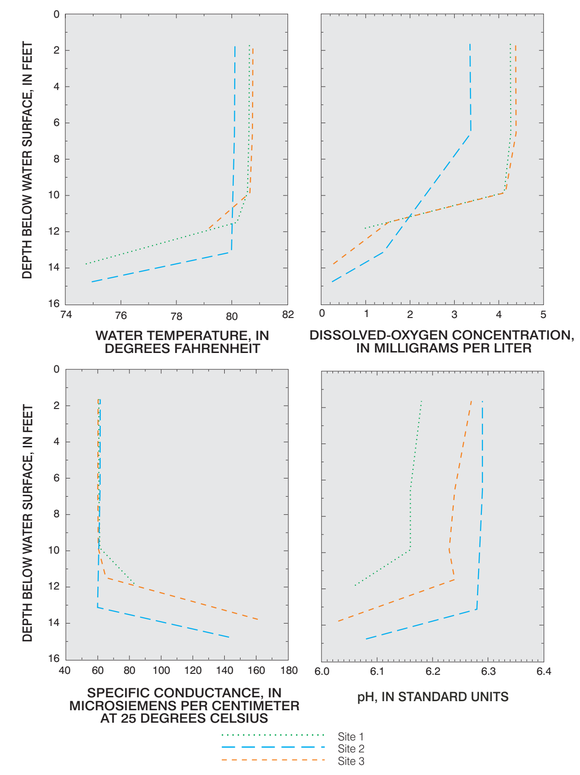


Figure 3. Variation of water temperature, dissolved-oxygen concentration, specific conductance, and pH at Black Bayou Reservoir, September 24, 1997.

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Louisiana Department of Transportation and Development - U.S. Geological Survey Water Resources Cooperative Program

Bathymetric Survey and Physical and Chemical-Related Properties of Black Bayou Reservoir, Louisiana, September and October 1997

By Paul A. Ensminger

APPENDIX P

Preview Only

Use support codes under Designated Water Body Uses: F=Fully supporting designated use; N=Not supporting designated use; I=Insufficient data to make reliable determination; X=No data

Subsegment Number	Subsegment Description	Type	Size	Designated Water Body Uses								Follow-up Data Comments	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority
				PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL						
LA100101_00	Red River-From Arkansas state line to US-165 in Alexandria	R	218	F	F	F	F			F							
LA100302_00	Black Bayou Lake-From LA-1 to spillway	L	3,968	F	F	N							FWP	Mercury in Fish Tissue	IRC 5	TBD	L
LA100302_00	Black Bayou Lake-From LA-1 to spillway	L	3,968	F	F	N							FWP	Mercury in Fish Tissue	IRC 5	TBD	L
LA100302_00	Black Bayou Lake-From LA-1 to spillway	L	3,968	F	F	N							FWP	Non-Native Aquatic Plants	IRC 4b		
LA100302_00	Black Bayou Lake-From LA-1 to spillway	L	3,968	F	F	N							FWP	Oxygen, Dissolved	IRC 5RC	2023	L
LA100304_00	Twelve Mile Bayou-From headwaters to Red River	R	23	F	F	F	F			F							
LA100307_00	Caddo Lake-From Texas state line to spillway; includes James Bayou	L	32,640	F	F	N	F			F			FWP	Mercury in Fish Tissue	IRC 5	TBD	L
LA100307_00	Caddo Lake-From Texas state line to spillway; includes James Bayou	L	32,640	F	F	N	F			F			FWP	Mercury in Fish Tissue	IRC 5	TBD	L
LA100310_00	Cross Lake	L	8,838	F	F	F	F			F							
LA100401_00	Bayou Bodcau-From Arkansas state line to Red Chute Bayou at Cypress Bayou confluence	R	92	F	F	N				F			FWP	Oxygen, Dissolved	IRC 5RC	2021	L
LA100404_00	Cypress Bayou Reservoir	L	2,690	F	F	N	N			F			DWS	Color	IRC 5RC	2021	L
LA100404_00	Cypress Bayou Reservoir	L	2,690	F	F	N	N			F			FWP	Oxygen, Dissolved	IRC 4a		
LA100404_00	Cypress Bayou Reservoir	L	2,690	F	F	N	N			F			FWP	Oxygen, Dissolved	IRC 4a		

Preview Only

Use support codes under Designated Water Body Uses: F=Fully supporting designated use; N=Not supporting designated use; I=Insufficient data to make reliable determination; X=No data

Subsegment Number	Subsegment Description	Type	Size	Designated Water Body Uses								Follow-up Data Comments	Impaired Use for Suspected Cause	Suspected Causes of Impairment	IR Category for Suspected Causes	TMDL Due Date	TMDL Priority
				PCR	SCR	FWP	DWS	ONR	OYS	AGR	LAL						
LA100405_00	Black Bayou-From headwaters to spillway at Black Bayou Reservoir; includes Black Bayou Reservoir	R	13	F	F	F	N			F			DWS	Color	IRC 5RC	2021	L
LA100502_00	Lake Bistineau	L	17,216	F	F	N				F			FWP	Mercury in Fish Tissue	IRC 5	TBD	L
LA100502_00	Lake Bistineau	L	17,216	F	F	N				F			FWP	Mercury in Fish Tissue	IRC 5	TBD	L
LA100502_00	Lake Bistineau	L	17,216	F	F	N				F			FWP	Non-Native Aquatic Plants	IRC 4b		
LA100502_00	Lake Bistineau	L	17,216	F	F	N				F			FWP	Oxygen, Dissolved	IRC 5	TBD	L
LA100502_00	Lake Bistineau	L	17,216	F	F	N				F			FWP	Oxygen, Dissolved	IRC 5	TBD	L
LA110101_00	Toledo Bend Reservoir-From Texas-Louisiana state line to Toledo Bend Dam	L	181,760	F	F	N	F			F			FWP	Mercury in Fish Tissue	IRC 4a		
LA110101_00	Toledo Bend Reservoir-From Texas-Louisiana state line to Toledo Bend Dam	L	181,760	F	F	N	F			F			FWP	Mercury in Fish Tissue	IRC 4a		
LA110101_00	Toledo Bend Reservoir-From Texas-Louisiana state line to Toledo Bend Dam	L	181,760	F	F	N	F			F			FWP	Non-Native Aquatic Plants	IRC 4b		
LA110201_00	Sabine River-From Toledo Bend Dam to Old River below Sabine Island WMA	R	131	F	F	F	N						DWS	Color	IRC 5	TBD	L
LA110201_00	Sabine River-From Toledo Bend Dam to Old River below Sabine Island WMA	R	131	F	F	F	N						DWS	Color	IRC 5	TBD	L

Preview Only

a
Suspected Sources of Impairment
Atmospheric Deposition - Toxics
Source Unknown
Introduction of Non-native Organisms (Accidental or Intentional)
Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Atmospheric Deposition - Toxics
Source Unknown
Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Natural Sources
Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
Source Unknown

Preview Only

a
Suspected Sources of Impairment
Natural Sources
Atmospheric Deposition - Toxics
Source Unknown
Introduction of Non-native Organisms (Accidental or Intentional)
Introduction of Non-native Organisms (Accidental or Intentional)
Source Unknown
Atmospheric Deposition - Toxics
Source Unknown
Introduction of Non-native Organisms (Accidental or Intentional)
Natural Sources
Silviculture Activities

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