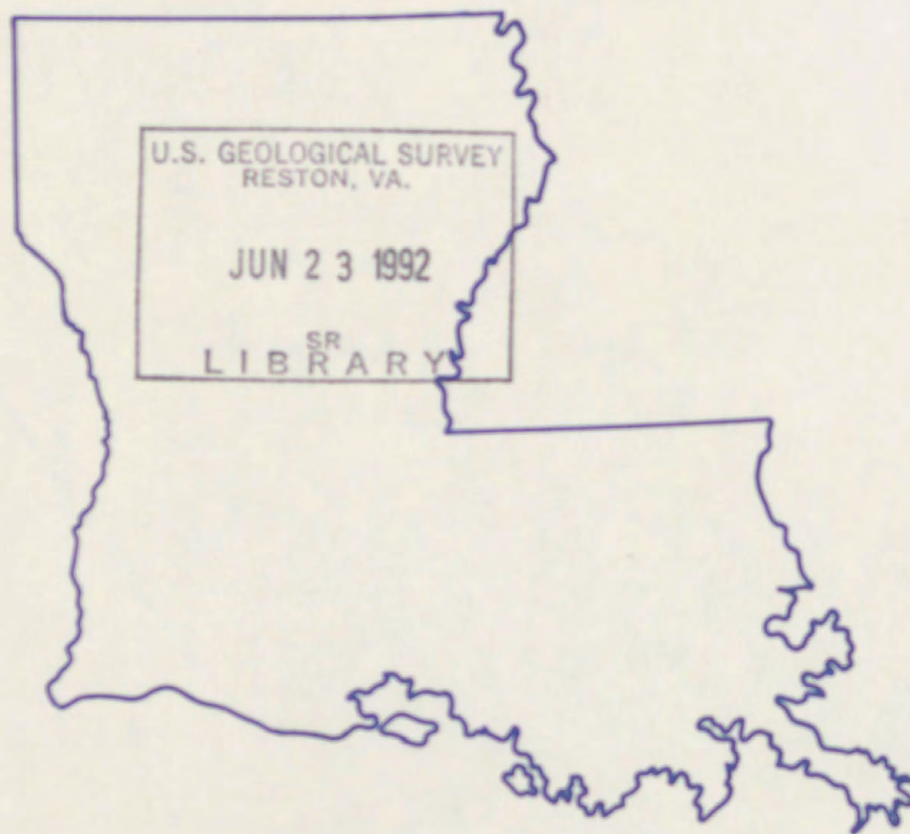


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Water Resources Data Louisiana Water Year 1991



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-91-1
Prepared in cooperation with the Louisiana Department of
Transportation and Development and with other State and
Federal agencies

CALENDAR FOR WATER YEAR 1991

1990

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6					1	2	3							1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
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1991

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30
														31						
APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30					26	27	28	29	30	31		23	24	25	26	27	28	29
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S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
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28	29	30	31				25	26	27	28	29	30	31	29	30					



Water Resources Data Louisiana Water Year 1991

by G.J. Arcement, L.J. Dantin, C.R. Garrison, and W.M. Lovelace



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT LA-91-1
Prepared in cooperation with the Louisiana Department of
Transportation and Development and with other State and
Federal agencies

U.S. DEPARTMENT OF THE INTERIOR

MANUEL LUJAN, JR., Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Louisiana write to:
District Chief, Water Resources Division
U.S. Geological Survey
P.O. Box 66492
Baton Rouge, LA 70896

1992

PREFACE

This volume of the annual hydrologic data report of Louisiana is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, most of the data were collected, computed, and processed from area field offices. The following individuals supervised the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Louisiana and with other agencies under the general supervision of Darwin Knochenmus, District Chief, Louisiana.

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The following continuous-record surface-water discharge, elevation (stage only), or stage-only stations (gaging stations) in Louisiana have been discontinued. Daily streamflow or stage were collected and published for the period of record, expressed in water years, shown for each station. The stations with an (*) are currently operated as crest-stage partial-record stations and the stations with (**) are currently operated as flood-profile partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters listed under type-of-data collected are: (d) discharge, (e) elevation (stage only), (s) stage only]

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE ONLY STATIONS

Station name	Type of data	Station number	Drainage area mi ²	Period of record
Bogue Lusa Creek near Franklinton, La.	(d)	02490000	12.1	1948-68
Bogue Lusa Creek at State Highway 439, at Bogalusa, La.	(d)	02490105	72.7	1963-85
Bogue Chitto at Franklinton, La.	(d)	02491500	990	1928-31
	(d)		990	1938-57
Pearl River at Pearl River, La.	(d)	02492600	8,590	1963-70
Paw Paw Bayou near Greenwood, La.	(d)	07344450	80.5	1955-87
Black Bayou near Hosston, La.	(d)	07346500	231	1943-44
Kelly Bayou near Hosston, La.	(d)	07347000	116	1944-69
Black Bayou near Gilliam, La.	(d)	07347500	364	1942-59
	(s)		364	1959-69
Black Bayou near Oil City, La.	(s)	07347700	370	1945-59
Flat Lick Bayou near Leton, La.	(d)	07348800	66.9	1956-77
Bayou Dorcheat near Gilark, La.	(s)	07348960	1,031	1953-79
Flat River near Curtis, La.	(d)	07349374	---	1980-88
Cypress Bayou above Benton, La.	(d)	07349795	88.9	1974-86
Cypress Bayou near Benton, La.	(d)	07349800	133	1955-68
	(d)		133	1969-74
Red Chute Bayou above U.S. Highway 80, near Shreveport, La.	(s)	07349848	---	1949-50
Red Chute Bayou near Elm Grove, La.	(d)	07349890	1,004	1977-79
Loggy Bayou near Ninock, La.	(s)	07350000	2,628	1961-85
Loggy Bayou near East Point, La.	(s)	07350020	2,648	1955-64
	(d)		2,648	1980-85
Red River near Crichton, La.	(s)	07350100	---	1945-46
Red River at Coushatta, La.	(d)	07350500	63,362	1938-52
Boggy Bayou near Keithville, La.	(d)	07351000	79	1938-82
Bayou Pierre below Caspiana, La.	(d)	07351571	---	1979-82
Bayou Pierre near Grand Bayou, La.	(d)	07351600	661	1977-84
	(s)		661	1984-85
Bayou Na Bonchasse near Mansfield, La.	(d)	07351700	19.5	1957-68
West Branch Dolet Bayou at Rambin, La.	(d)	07351748	32.3	1979-86
Chemard Lake near Evelyn, La.	(s)	07351749	43.8	1977-79
Bayou Dupont near Marthaville, La.	(s)	07351800	---	1957-69
Bayou Dupont near Robeline, La.	(d)	07351900	35.1	1957-69
Black Lake Bayou near Castor, La.	(d)	07352500	423	1940-57
Saline Bayou near Clarence, La.	(s)	07353000	1,386	1974-82
Nantachie Creek near Aloha, La.	(s)	07353522	---	1942-46
Youngs Bayou at Natchitoches, La.	(d)	07353800	40.1	1957-64
Horsepen Creek near Provencal, La.	(d)	07354500	5.27	1949-68
Kisatchie Bayou at Cypress, La.	(s)	07354700	360	1944-49
Iatt Lake near Colfax, La.	(s)	07355300	238	1958-59
Hemphill Creek near Hot Wells, La.	(d)	07355000	18.0	1948-64
Dyer Creek near Hot Wells, La.	(d)	07355005	5.22	1955-64
Larto Lake at Dam, near Acme, La.	(e)	07355650	291	1968-90
Quachita River at Alabama Landing, near Haile, La.	(s)	07364103	11,107	1958-80
Chemin-a-haut Bayou near Beekman, La.	(d)	07364300	271	1955-79
Chemin-a-haut Bayou east of Beekman, La.	(s)	07364320	---	1968-79
Bayou Bartholomew near Beekman, La.	(d)	07364500	1,645	1928-31
	(d)		1,645	1938-59
	(s)		1,645	1959-80
Bayou De Loutre near Laran, La.	(d)	07364700	141	1955-77
Bayou D'Arbonne near Hico, La.	(d)	07364890	254	1980-87
Bayou D'Arbonne near Dubach, La.	(d)	07365000	355	1940-69

Station name	Type of data	Station number	Drainage area mi ²	Period of record
Middle Fork Bayou D'Arbonne near Bernice, La.	(d)	07365500	178	1940-57
	(d)		178	1967-70
Corney Bayou near Lillie, La.	(d)	07366000	462	1940-57
Bayou Desiard at Monroe, La.	(s)	07366500	---	1939-59
Cheniere Lake near Bawcomville, La.	(d)	07367500	147	1943-45
Ouachita River at Columbia, La.	(s)	07367640	15,700	1975-81
Boeuf River near Chickasaw, La.	(s)	07367704	787	1959-69
Big Colewa Bayou near Oak Grove, La.	(d)	07368500	42	1949-77
Big Colewa Bayou near Pioneer, La.	(e)	07368505	---	1954-77
Turkey Creek at State Highway 15, at Winnsboro, La.	(s)	**07369205	28.8	1975-80
Lake Providence north of Lake Providence, La.	(e)	07369370	18.7	1967-77
	(d)		18.7	1984-86
Brushy Bayou at Tallulah, La.	(e)	**07369455	---	1974-80
Lower Roundaway Bayou Tributary near Tallulah, La.	(e)	**07369457	---	1974-81
Panola Bayou at Tallulah, La.	(e)	**07369468	---	1977-82
Lake St. Joseph near Newellton, La.	(e)	07369647	23.2	1959-61
	(e)		23.2	1977-87
Lake Bruin at Lake Bruin State Park, near St. Joseph, La.	(e)	07369648	21.4	1959-64
	(e)		21.4	1977-87
Bayou Macon near Kilbourne, La.	(d)	07369700	504	1957-87
Castor Creek near Grayson, La.	(d)	07370500	271	1940-70
Garrett Creek at Jonesboro, La.	(d)	07371000	2.14	1952-70
Fouse Bayou at State Highway 155, near Danville, La.	(d)	07371540	1.5	1977-81
Dugdemonia River near Winnfield, La.	(d)	07372000	654	1939-77
	(s)		654	1977-81
Bayou Funny Louis near Trout, La.	(d)	07372500	92	1939-70
Lake St. John near Waterproof, La.	(e)	07373278	14.8	1967-87
Lake Concordia near Ferriday, La.	(e)	07373280	8.91	1967-80
Lake Concordia at Ferriday, La.	(e)	073732805	8.91	1980-87
West Fork Thompson Creek near Wakefield, La.	(d)	07373500	35.3	1949-70
South Canal near Baker, La.	(d)	*07373965	---	1972-82
Monte Sano Bayou Tributary at Baton Rouge, La.	(s)	07373993	---	1985-86
Mississippi River at Baton Rouge, La.	(s)	07374000	1,125,810	1940-58
Mississippi River near New Orleans, La.	(s)	07374500	1,125,900	1934-58
Canal W-14 at Roberts Road, at Slidell, La.	(s)	07374570	---	1985-88
Canal W-14 at Daney Street, at Slidell, La.	(s)	07374572	---	1985-87
Canal W-14 at Kingspoint Boulevard, at Slidell, La.	(s)	07374573	---	1985-87
Tickfaw River at Liverpool, La.	(d)	**07375800	89.7	1956-68
	(d)		89.7	1979-81
Little Sandy Creek near Greenwell Springs, La.	(d)	07377240	28.2	1974-85
White Bayou East Diversion Channel near Baton Rouge, La.	(d)	**07377755	---	1972-84
White Bayou East Diversion Channel near Baker, La.	(d)	**07377842	---	1972-84
Amite River at 4-H Camp, near Denham Springs, La.	(s)	07378510	1,290	1945-77
Jones Creek at Monterey Boulevard, at Baton Rouge, La.	(d)	07378597	---	1985-86
Bayou Braud near St. Gabriel, La.	(s)	07378740	---	1965-70
Elbow Bayou at Baton Rouge, La.	(s)	07378788	---	1980-83
Elbow Bayou Tributary at Baton Rouge, La.	(s)	07378790	---	1966-76
	(s)		---	1980-83
Elbow Bayou near Baton Rouge, La.	(s)	07378792	---	1980-83
Ward Creek at Government Street, at Baton Rouge, La.	(d)	**07379000	4.10	1954-67
Bayou Duplantier at City Park Lake, at Baton Rouge, La.	(d)	07379500	.81	1933-39
	(s)		.81	1940-41
Corporation Canal at Oklahoma Street, at Baton Rouge, La.	(e)	**07379502	.56	1970-80
Corporation Canal at Campus Drive, at Baton Rouge, La.	(e)	07379507	1.64	1970-85
Ward Creek at Siegen Lane, near Baton Rouge, La.	(d)	**07380000	40.0	1946-54
Bayou Manchac At Hope Villa, La.	(s)	07380100	138	1945-58
Amite River at Port Vincent, La.	(s)	07380120	1,596	1945-84
Black Bayou near Duplessis, La.	(d)	07380224	3.66	1964-70
Black Bayou near Gonzales, La.	(s)	07380225	8.93	1964-70
New River at Acy, La.	(s)	07380228	---	1976-86
Paillet Canal at Barataria, La.	(s)	073802364	---	1985-88
Bayou Lafourche at Donaldsonville, La.	(d)	07380400	---	1957-85
Bayou Lafourche at Napoleonville, La.	(s)	07380500	---	1954-57
Bayou Lafourche at Valentine, La.	(e)	07381200	---	1966-86
Bayou Lafourche at Golden Meadow, La.	(s)	07381300	---	1959-79

Station name	Type of data	Station number	Drainage area mi ²	Period of record
Houma Navigation Canal at Houma, La.	(s)	07381325	---	1962-67
Houma Navigation Canal at Dulac, La.	(s)	07381328	---	1976-77
Atchafalaya River at Krotz Springs, La.	(d)	07381500	---	1934-63
	(s)		---	1964-68
Elliot Jones Canal near Greenwood, La.	(e)	07381655	---	1974-77
Spring Creek near Melder, La.	(s)	07381768	---	1972-76
Spring Creek near Glenmora, La.	(d)	07381800	68.3	1956-87
Cocodrie Lake near Clearwater, La.	(s)	07381950	240	1959-80
Bayou Cocodrie near Lone Pine, La.	(s)	07382025	---	1945-84
Long Branch at Castor Plunge, near Alexandria, La.	(s)	07382238	10.7	1968-76
Chatlin Lake Canal near Lecompte, La.	(d)	07383000	75.9	1942-53
	(s)		75.9	1953-58
West Protection Levee Barrow Pit Channel near Plaucheville, La.	(d)	07384000	321	1944-57
Bayou Courtableau at Weir, near Krotz Springs, La.	(d)	07385000	---	1953-58
Bayou Carencro near Sunset, La.	(d)	07386000	37.1	1942-61
Bayou Fusilier at State Highway 93, near Arnaudville, La.	(s)	07386202	---	1960-74
Bayou Bourbeau at Shuteston, La.	(d)	07386500	19.0	1942-70
Vermilion River near Carencro, La.	(s)	07386600	---	1948-67
Bayou des Cannes at State Highway 755, near Eunice, La.	(s)	08010010	140	1941-83
Long Point Gully near Crowley, La.	(d)	08010300	25.7	1949-59
	(s)		25.7	1959-67
Bayou Wikoff near Rayne, La.	(s)	08010500	51.3	1967-71
Bayou Plaquemine Brule near Crowley, La.	(d)	08011000	254	1942-47
	(s)		254	1975-79
Bayou Plaquemine Brule near Ebenezer, La.	(s)	08011005	---	1947-51
Bayou Plaquemine Brule at Estherwood, La.	(s)	08011020	---	1947-49
Boggy Bayou near Pine Prairie, La.	(d)	08011500	51.3	1948-51
	(d)		51.3	1965-79
Bayou Nezpique at Mamou Pumping Plant, near Basile, La.	(s)	08012020	542	1945-85
Bayou Queue de Tortue Southwest of Lyons Point, La.	(s)	08012295	158	1976-79
Bayou Queue de Tortue at Riceville, La.	(s)	08012300	---	1942-51
Bayou Lacassine at Intercoastal Waterway, La.	(s)	08012500	---	1954-58
Sixmile Creek near Sugartown, La.	(d)	08014000	171	1956-65
Tenmile Creek near Elizabeth, La.	(d)	08014200	94.2	1949-65
Bundick Creek near De Ridder, La.	(d)	08014800	120	1956-79
Bundick Creek near Dry Creek, La.	(d)	08015000	238	1939-70
English Bayou near Lake Charles, La.	(s)	08016000	---	1954-69
Beckwith Creek near Dequincy, La.	(d)	08016400	148	1945-84
Hickory Branch at Kernan, La.	(d)	08016600	82.2	1945-57
Bayou Choupique near Sulphur, La.	(s)	08017007	---	1984-85
Bayou Castor near Funston, La.	(d)	08022765	91.5	1971-87
Bayou Castor near Logansport, La.	(d)	08023000	96.5	1955-71
	(s)		96.5	1971-85
Bayou San Patricio near Noble, La.	(d)	08023500	154	1951-67
Bayou San Miguel near Zwolle, La.	(d)	08024000	111	1948-67
Blackwell Creek at Many, La.	(d)	08024060	3.16	1959-68
Bayou La Nana near Zwolle, La.	(d)	08024200	130	1955-67
Bayou Anacoco near Leesville, La.	(d)	08027500	115	1948-64
Anacoco Lake near Leesville, La.	(s)	08027700	207	1958-68
Bayou Anacoco near Knight, La.	(d)	08028200	425	1969-73
Hoosier Creek near Merryville, La.	(d)	08028700	13.1	1955-81

The following continuous-record surface-water-quality stations in Louisiana have been discontinued. Daily records of temperature, specific conductance, pH, dissolved oxygen, sediment, chloride, sulfate, or color were collected and published for the record shown for each station.

DISCONTINUED SURFACE-QUALITY-WATER STATIONS

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Pearl River near Bogalusa, LA	02489500	6,573	Temp.	1963-70, 1975-81
		6,573	S.C.	1965-70, 1975-81
		6,573	pH, D.O.	1975-80
		6,573	Sed.	1981-88
Pearl River near Bogalusa, at Pools Bluff, LA	02490193	(A)	S.C., pH, Temp., D.O.	1975-84
Bogue Chitto near Bush, LA	02492000	1,213	S.C., Temp.	1975-81
Pearl River at Pearl River, LA	02492600	B8,590	Temp.	1964
Mississippi River at Tarbert Landing, MS	07295100	C1,124,900	Sed.	1981
Red River near Hosston, LA	07344400	D57,041	Temp.	1957-73, 1976-86
		D57,041	S.C.	1965-86
Red River above Shreveport, LA	07344410	D57,100	S.C., Temp.	1975, 1977
Twelvemile Bayou near Dixie, LA	07348000	3,137	S.C., Temp.	1978-81
Red River at Shreveport, LA	07348500	D60,613	Temp.	1956-58
Bayou Dorcheat near Springhill, LA	07348700	605	S.C.	1968, 1970-72, 1985-86
		605	Temp.	1068, 1985-86
Bayou Pierre near Lake End, LA	07351750	860	Sed.	1983-85, 1987
Grand Bayou near Coushatta, LA	07352800	93.9	Sed.	1981-82
Saline Bayou near Clarence, LA	07353000	1,386	S.C.	1969-70
Bayou De Loutre near Laran, LA	07354700	141	S.C., Temp.	1968-72, 1985-86
Red River at Colfax, LA	07354950	D66,860	Cl	1975-84
		D66,860	Temp.	1976-84
		D66,860	Sed.	1981-84
Red River at Alexandria, LA	07355500	D67,500	Temp.	1953-63, 1973-84
		D67,500	S.C.	1973-81
		D67,500	Cl	1975-84
		D67,500	Sed.	1981
Red River near Simmesport, LA	07355601	93,163	S.C.	1978-81
		93,163	Temp.	1978-79, 1981
Bayou Bartholomew near Jones, LA	07364200	B1,187	S.C.	1968-69
		B1,187	Temp.	1968
Bayou D'Arbonne near Dubach, LA	07365000	355	S.C., Temp.	1968
Corney Bayou near Lillie, LA	07366000	462	S.C., Temp.	1968-72
Little Corney Bayou near Lillie, LA	07366200	208	S.C., Temp.	1968-69
Ouachita River at Monroe, LA	07367000	15,298	Temp.	1955-58, 1969-74
		15,298	S.C.	1966-67, 1969-74
		15,298	D.O.	1969-74
Ouachita River at Columbia, LA	07367640	B15,700	S.C.	1975-81
		B15,700	Temp.	1976-81
Boeuf River near Arkansas-Louisiana State Line	07367700	E785	S.C., Temp.	1968-69
Boeuf River near Girard, LA	07368000	E1,226	S.C., Temp.	1968-69
Bayou Lafourche near Crew Lake, LA	07369000	E361	S.C.	1968-72
		E361	Temp.	1968-71
Boeuf River near Fort Necessity, LA	07369150	E2,542	S.C., Temp.	1978-81
Tensas River at Tendal, LA	07369500	E309	S.C.	1968, 1971-72, 1975-82
		E309	Temp.	1968, 1975-82
Bayou Macon near Kilbourne, LA	07369700	E504	S.C.	1968-69
		E504	Temp.	1968
Dugdemona River near Winnfield, LA	07372000	654	D.O.	1969-70
Little River near Rochelle, LA	07372200	1,899	S.C.	1966-85
		1,899	Temp.	1980-85
Big Creek at Pollock, LA	07373000	B51	Temp.	1965-72, 1974-77
Black River at Jonesville, LA	07373267	(F)	Temp.	1959-67
		(F)	S.C.	1965-67
Mississippi River near St. Francisville, LA	07373420	1,125,300	Temp.	1955-72, 1975-86, 1988
		1,125,300	S.C.	1965-70, 1972, 1975-88
		1,125,300	Cl	1970, 1975-88
		1,125,300	Sulfate	1970, 1975-88

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Mississippi River below St. Francisville, LA	07373423	E1,243,000	pH	1970-71
		E1,243,000	Temp., D.O.	1970-74
		E1,243,000	S.C.	1971-74
Mississippi River at Luling, LA	07374400	E1,125,800	Temp.	1958-72, 1978-88
		E1,125,800	S.C.	1965-72, 1975, 1977-88
		E1,125,800	Cl	1975, 1977-88
		E1,125,800	Sulfate	1975, 1977-88
Mississippi River at New Orleans, LA	07374508	E1,125,900	S.C., D.O.	1969-88
		E1,125,900	Temp.	1971-88
		E1,125,900	pH	1977-88
Mississippi River at Belle Chasse, LA	07374525	E1,125,930	S.C.	1975-88
		E1,125,930	Temp.	1976-88
		E1,125,930	Cl	1975-84, 1986-88
		E1,125,930	Sulfate	1976-78
Mississippi River at Venice, LA	07374550	(A)	Cl	1975
Tchefuncta River near Covington, LA	07375050	145	S.C., Temp.	1978-82
Tangipahoa River at Robert, LA	07375500	646	S.C., Temp.	1980-82
Tangipahoa River at Lee Landing, LA	07375660	(A)	Temp.	1964
Comite River near Comite, LA	07378000	284	Temp.	1945
Amite River near Denham Springs, LA	07378500	1,280	S.C., Temp.	1968
Amite River, at 4H Camp, near Denham Springs, LA	07378510	1,290	S.C., Temp.	1973-81
Pass Manchac at Manchac, LA	07380230	3,204	Cl	1975-84
		3,204	Temp.	1977-84
Bayou Lafourche at Valentine, LA	07381200	(F)	S.C.	1971-74
Bayou Lafourche, above Intracoastal Waterway, near Larose, LA	07381225	(A)	S.C.	1976-78
Bayou Lafourche at Golden Meadow, LA	07381300	(F)	Cl	1975-84
		(F)	Temp.	1977-78, 1981-84
Bayou Lafourche at Leeville, LA	07381310	(F)	Cl	1975-77
		(F)	Temp.	1977
Bayou Terrebonne at Houma, LA	07381320	(F)	Cl	1975-80
		(F)	Temp.	1977-80
Houma Navigation Canal at Houma, LA	07381325	(F)	S.C.	1978-81
		(F)	Temp.	1978, 1981
Houma Navigation Canal at Dulac, LA	07381328	(A)	S.C., Temp., D.O.	1974-75
Company Canal at Lockport, LA	07381350	(F)	S.C.	1979-85
		(F)	Temp.	1981-85
Lower Grand River at Bayou Sorrel, LA	07381450	(F)	S.C., Temp.	1980-82
Atchafalaya River at Melville, LA	07381495	93,316	S.C., Temp.	1979-81
Atchafalaya River at Krotz Springs, LA	07381500	(F)	Temp.	1953-55
		(F)	S.C.	1967, 1969-71
Bayou Cocodrie near Clearwater, LA	07382000	240	Temp.	1953-54
Bayou Teche at Keystone Lock, near St. Martinville, LA	07385700	(F)	S.C., Temp.	1975-81
Bayou Teche near Olivier, LA	07385750	(F)	Temp., D.O.	1974-80
		(F)	S.C.	1976-80
		(F)	pH	1977-80
Bayou Bourbeau at Shuteston, LA	07386500	(A)	Cl, Temp., S.C.	1968
Vermilion River, at State Highway 3073, near Lafayette, LA	07386935	(F)	S.C., Temp., D.O.	1971-81
		(F)	pH	1976-81
Vermilion River at Perry, LA	07386980	(F)	S.C.	1966-78
Vermilion River at Bancker Ferry, near Abbeville, LA	07387000	(F)	Temp.	1949-62
		(F)	S.C., Cl	1951-62
Mermentau River at Mermentau, LA	08012150	1,381	S.C., Temp.	1980-82
Mermentau River at Lake Arthur, LA	08012400	(F)	S.C.	1951-58, 1960-69
		(F)	Cl	1951-58, 1960-65, 1967-69
		(F)	Temp.	1959-69
Calcasieu River near Oberlin, LA	08013500	753	S.C., Temp.	1976-77, 1979
		753	pH, D.O.	1976-77
Calcasieu River near Kinder, LA	08015500	1,700	S.C., Temp.	1979-82
Calcasieu River near Lake Charles, LA	08015900	2,310	S.C., Temp.	1975-78
Bayou Castor near Logansport, LA	08023000	96.5	Sed.	1983-84
Bayou San Patricio near Benson, LA	08023400	80.2	Sed.	1981-85
Bayou Anacoco near Rosepine, LA	*08028000	365	S.C., CO	1971-72

Station name	Station number	Drainage area (sq mi)	Type of record	Period of record (water years)
Bayou Anacoco near Knight, LA	08028200	425	S.C., Temp., CO	1970-71
Bayou Grand Caillou at Dulac, LA	292258090425500	(F)	Cl	1975-84
Freshwater Canal near Forked Island, LA	293316092182000	(F)	Temp.	1978-84
Vermilion Bay, at Cypremort Point, near Louisa, LA	294110091533000	(F)	Cl	1975-82
Schooner Bayou near Forked Island, West	294528092154800	(F)	Temp.	1977-82
Schooner Bayou near Forked Island, East	294528092154801	(F)	Cl	1975-82
Intracoastal Waterway, at Vermilion Lock East, near Intracoastal City, LA	294700092114000	(F)	Temp.	1977-82
Intracoastal Waterway, at Vermilion Lock West, near Intracoastal City, LA	294705092115300	(F)	Cl	1975-82
Mermentau River, south of Control Structure, near Grand Chenier, LA	295146092510100	(F)	Temp.	1977-82
Mermentau River, north of Control Structure, near Grand Chenier, LA,	295148092510100	(F)	Cl	1975-82
Intracoastal Waterway at Gibbstown, LA	295600093053000	(F)	Temp.	1977-82
Chef Menteur Pass at Chef Menteur, LA	300404089482500	(F)	Cl	1975-81
Lake Pontchartrain, at New Orleans, LA, at Little Woods, LA,	300434089564000	(F)	Temp.	1977-78
Intracoastal Waterway at Calcasieu Lock	300514093172800	(F)	Cl	1975-82
Rigolets near Lake Pontchartrain, near Slidell, LA	301002089441300	(F)	Temp.	1977-84
Lake Pontchartrain, near North Shore, near Slidell, LA,	301108089503600	(F)	Cl	1975-84
Calcasieu River and Pass near Lake Charles, LA	301305093151200	(F)	Temp.	1977-81
Calcasieu River, at mile 36.0, at Lake Charles, LA	301425093145000	(F)	Temp., Cl	1982
Calcasieu River, east of barrier, at Lake Charles, LA,	301513093130500	(F)	Cl	1975, 1977-82
Calcasieu River, west of barrier, at Lake Charles, LA,	301513093130600	(F)	Temp.	1977-82

Type of record: Temp. (temperature); S.C. (specific conductance); pH (pH); D.O. (dissolved oxygen); Sed. (sediment); Cl (chloride); Sulfate; and CO (color).

Drainage area: A (drainage area not determined); B (approximately); C (22.240 mi² is noncontributing); D (5.936 mi² above Denison Dam is noncontributing); E (because of interchanging flow between basins, the limits of drainage are more or less arbitrarily determined); F (drainage area indeterminate).

WATER RESOURCES DATA - LOUISIANA, 1991

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Louisiana each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Louisiana."

This report includes records on both surface and ground water in the State. Specifically, it contains: (1) Discharge records for 61 streamflow-gaging stations, stage only for 12 gaging stations, for 97 partial-record or miscellaneous streamflow stations, and for 19 crest-stage, partial-record streamflow stations; (2) stage records for 6 lakes; (3) water-quality records for 12 streamflow-gaging stations, for 43 ungaged streamsites, and for 60 wells; and (4) water-level records for 206 observation wells.

This series of annual reports for Louisiana began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Louisiana were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 2, 7, and 8." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperatures, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report LA-91-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on back of title page or by telephone (504) 389-0281.

COOPERATION

The U.S. Geological Survey and organizations of the State of Louisiana have had cooperative agreements for the systematic collection of streamflow records since 1938, for ground-water levels since 1936, and for water-quality records since 1943. Organizations that assisted in collecting data during this water year through joint-funding agreements with the Survey are:

Louisiana Department of Transportation and Development, Jude W.P. Patin, Secretary.

Louisiana Department of Environmental Quality, Kai D. Midboe, Secretary; Office of Water Resources, J. Dale Givens, Assistant Secretary.

City of Baton Rouge and Parish of East Baton Rouge, Tom Ed McHugh, Mayor-President; Department of Public Works, Robert R. Canfield, Director.

Jefferson Parish Department of Public Works, B.K. Sneed, Director.

Capital Area Ground Water Conservation Commission, Ross Ford, Chairman.

Sabine River Compact Administration, composed of James B. Furrh, Jr., Chairman; Jude W.P. Patin, Raymond J. Palmer, and Robert Dale Geoghagan for Louisiana; Danny Choate, and David V. Cardner for Texas.

Louisiana Department of Wildlife and Fisheries, Joe L. Herring, Secretary.

Assistance in the form of funds or services was provided by the U.S. Army Corps of Engineers, U.S. Forest Service, and the National Park Service in collection of records for stage and discharge stations and for water-quality stations published in this report.

Organizations that supplied data are acknowledged in the station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface-Water Conditions

November was the first month since June with rainfall above the long-term statewide average; this above average rainfall continued through February. During October the statewide rainfall total was 2.8 in., 0.2 in. below the 30-year average. The statewide average rainfall total for November was 4.3 in., 0.2 in. above the 30-year average. The statewide average rainfall total for December was 6.45 in., 0.77 in. above the 30-year average. The December monthly mean discharge of 372 ft³/s at Saline Bayou near Lucky was almost twice the long-term December monthly mean of 206 ft³/s (fig. 1).

In January, rainfall was above normal throughout the State with an average total of 10.45 in., 5.57 in. above the 30-year average. The statewide average rainfall total ranged from 5.4 in. in the north-central area to 17.2 in. in the southeastern area. For the Mississippi River at Tarbert Landing, Mississippi, the maximum mean daily discharge for the water year was 1,303,000 ft³/s and occurred on January 22 and 23.

The February rainfall for the State was above average for the fourth consecutive month. The statewide average rainfall total for February was 5.97 in., 1.35 in. above the 30-year average. The statewide average rainfall total for the winter season, from December to February, averaged 22.5 in., 7.9 in. above the 3-month long-term average. As a result of above-normal rainfall, the February monthly mean discharge of 8,529 ft³/s at Amite River near Denham Springs was more than twice the long-term February mean of 3,935 ft³/s (fig. 1). The monthly mean discharge at Saline Bayou near Lucky was 797 ft³/s and was also more than twice the long-term February mean of 330 ft³/s (fig. 1).

In March, rainfall in Louisiana was 0.32 in. below the 30-year average with an average total of 4.46 in., whereas, in April, rainfall was 9.0 in. above normal with an average total of 14.0 in. This was the highest recorded rainfall for Louisiana during April over the last 100 years. The monthly maximum total rainfall for the State ranged from 5.92 in. in St. Martinville to 33.91 in. in Minden, with a 1-day total of 12.87 in. also recorded in Minden. The excessive rainfall caused flooding in the northeastern part of the State. Four streams in the area exceeded maximum gage height for the period of record: Lake Bistineau near Ringgold, 17.78 ft, previous 15.37 ft; Red Chute Bayou near Sligo, 38.16 ft, previous 36.46 ft; Lake Claiborne near Aycock, 16.32 ft, previous 12.03 ft; and Bayou D'Arbonne Lake at Farmerville, 50.38 ft, previous 45.43 ft. The April monthly mean discharge of 999 ft³/s at Saline Bayou near Lucky exceeded the long-term maximum April monthly mean of 739 ft³/s which occurred in 1945 (fig. 1). For Pearl River near Bogalusa the monthly mean discharge of 39,070 ft³/s was almost twice the long-term April mean of 19,890 ft³/s (fig. 1). Four stations recorded maximum accumulative total rainfall of over 50 in., with New Orleans recording the highest at 57.56 in. The statewide accumulative total of 35.2 in. from January to April, nearly 16 in. above normal, made it the wettest 4-month period in more than 100 years. This total rainfall broke the State record set in 1979 by more than 4 in.

The wet weather continued through May with a statewide average rainfall total of 11.8 in., 6.4 in. above the long-term average and more than double the monthly average. This condition caused four more streams to exceed maximum gage height for the period of record: Chauvin Bayou near Monroe, 42.27 ft, previous 40.41 ft; Bayou Lafourche near Crew Lake, 30.30 ft, previous 29.32 ft; Tensas River at Tendam, 27.21 ft, previous 26.34 ft; and Bayou Macon near Delhi, 26.85 ft, previous 26.00 ft. May had the third highest statewide monthly rainfall total over the last 100 years, which follows the April 100-year record. The highest 1-day total rainfall of 7.91 in. was recorded in Houma on May 9. The May monthly mean discharge of 56,770 ft³/s at Pearl River near Bogalusa exceeded the long-term maximum May mean of 36,930 ft³/s which occurred in 1953 (fig. 1). The monthly mean discharge at Saline Bayou near Lucky was 742 ft³/s and almost three times the long-term May mean of 267 ft³/s. The monthly mean discharge at Calcasieu River near Oberlin was 5,236 ft³/s, which was more than three times the long-term May mean of 1,648 ft³/s (fig. 1).

During June, the statewide average rainfall total was 5.4 in., 1.4 in. above 30-year average. The maximum 1-day rainfall total of 9.0 in. was recorded in New Orleans on June 10. The maximum statewide accumulative rainfall total was 91.83 in., which also was recorded at New Orleans. The June monthly mean discharge of 15,400 ft³/s at Pearl River near Bogalusa was nearly three times the long-term June mean of 5,605 ft³/s (fig. 1). The average rainfall for July was 6.0 in., 0.4 in. above the average mean. In July, the highest 1-day total rainfall of 5.27 in. was recorded in Rosepine, but New Orleans had the maximum monthly total rainfall of 17.55 in. The statewide average rainfall for August was 5.6 in., 1.1 in. above the 30-year average.

In September, the total rainfall was 4.0 in., 0.6 in. below the 30-year average. This was only the third month this year that the State monthly total rainfall was below the average. The January to September accumulative rainfall total for the State stands at 67.6 in., more than 24 in. above the long-term average. This total exceeds the previous 9-month record set in 1905 by more than 6 in. New Orleans reported a maximum rainfall total of 124.69 in. Morgan City set a record in 1946 with a rainfall total of 111.28 in. for 12 months. On September 18, the Mississippi River at Tarbert Landing, Mississippi, had a minimum mean daily discharge for the water year of 208,000 ft³/s.

For the 1991 water year, rainfall totals were greater than the 30-year averages throughout the State. Rainfall total for the northern part of the State exceeded the long-term average of 50.86 in. by 28.72 in. In the central part of the State the rainfall total exceeded the long-term average of 56.47 in. by 19.73 in. In the southern part of the State the rainfall total exceeded the long-term average of 59.27 in. by 27.99 in. For Saline Bayou near Lucky, the 1991 mean annual discharge was 339 ft³/s and exceeded the long-term mean annual of 172 ft³/s. The long-term mean annual discharge for Pearl River near Bogalusa of 10,149 ft³/s also was exceeded by the 1991 mean annual discharge of 16,280 ft³/s (fig. 1).

Surface-Water Quality

This section briefly describes the quality of water in selected streams in Louisiana and presents information on changes in methods of analysis. Samples generally were collected quarterly or monthly from streams within the State. Sediment analyses are available for many of the streams.

At most sites along the lower Mississippi River the specific conductance ranged from approximately 250 to 550 μ S/cm (microsiemens per centimeter at 25 °C) during the 1991 water year. However, influx of saltwater from the Gulf of Mexico into the Mississippi River resulted in specific conductances of 985 μ S/cm on November 2, 1990, 998 on November 15, 1990, 1,530 on August 29, 1991, and 2,800 on September 26, 1991, at Venice, La. Water temperature ranged from approximately 6.0 to 30.0 °C. Chloride concentrations ranged from approximately 12 to 26 mg/L (milligrams per liter) along the river except at Venice, where the concentration was as high as 720 mg/L on September 26, 1991.

Locks and dams along the Red River now affect the water quality of the river by creating pools at the locks and dams such as the one at Lock and Dam 1 near Vick. At sites along the Red River, the specific conductance ranged from approximately 150 to 900 μ S/cm during the 1991 water year. Water temperature ranged from 8.0 to 30.0 °C. Chloride concentrations ranged from approximately 15 to 120 mg/L along the Red River. Total iron and manganese concentrations were characteristically high. Total iron and manganese concentrations ranged from a minimum of 220 and 60 μ g/L (micrograms per liter) for Red River above Lock and Dam 1 near Vick, on July 29, 1991, to a maximum of 11,000 and 400 μ g/L for Red River at Alexandria on January 11, 1991.

Water-quality stations on the Atchafalaya River include the Lower Atchafalaya River at Morgan City and at Melville. The minimum and maximum specific conductance values in the Atchafalaya River at Melville were 196 μ S/cm on March 4, 1991, and 489 μ S/cm on August 8, 1991. The minimum measured water temperature was 6.0 °C at Melville, on January 14, 1991, and the maximum measured water temperature was 30.5 °C at Morgan City on August 1, 1991, and at Melville on July 17, and August 8, 1991. At Morgan City, the minimum sediment load was 9,500 T/day (tons per day) on September 18, 1991, and the maximum sediment load was 280,000 T/day on January 23, 1991. At Melville, the minimum sediment load was 13,700 T/day on August 8, 1991, and the maximum sediment load was 733,000 T/day on October 18, 1990.

Water-quality stations in the Florida Parishes include Tangipahoa River at Robert, Tchefuncta River near Covington, Amite River near Port Vincent, Pearl River near Bogalusa, and Bogue Chitto near Bush. These stations had characteristically low specific conductances (less than 100 μ S/cm) much of the water year. Values of pH ranged from 6.16 at Tchefuncta River, on July 9, 1991, to 7.37 at Amite River, on April 12, 1991. Fecal coliform concentrations exceeded 200 col/100 mL (colonies per 100 milliliters) in at least 50 percent of the samples collected from the Bogue Chitto, and the Tchefuncta, Amite, and Tangipahoa Rivers during the water year. The fecal coliform concentrations in samples from the Pearl River exceeded 200 col/100 mL only once during the year.

"Traditionally, dissolved trace-element concentrations have been reported at the micrograms per liter level. Recent evidence, mostly from large rivers indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Present data above the micrograms per liter level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological will begin using new trace-element protocols in the near future."

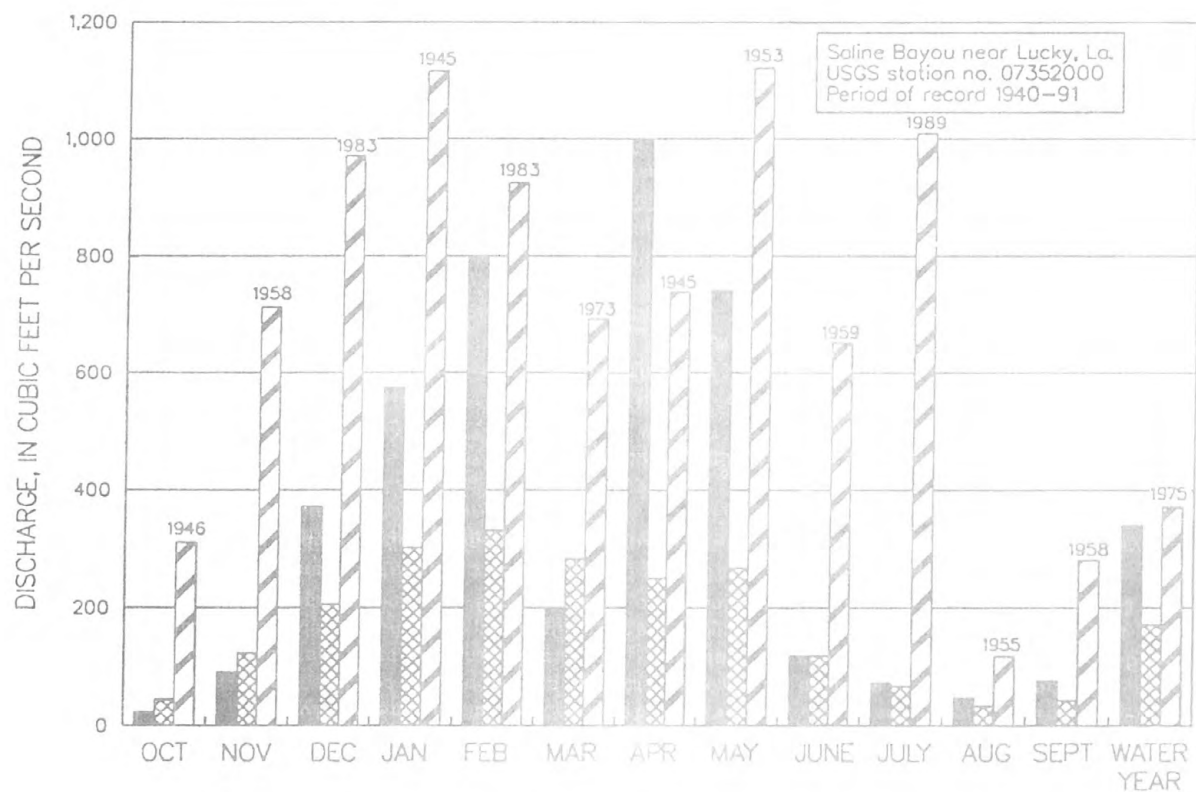
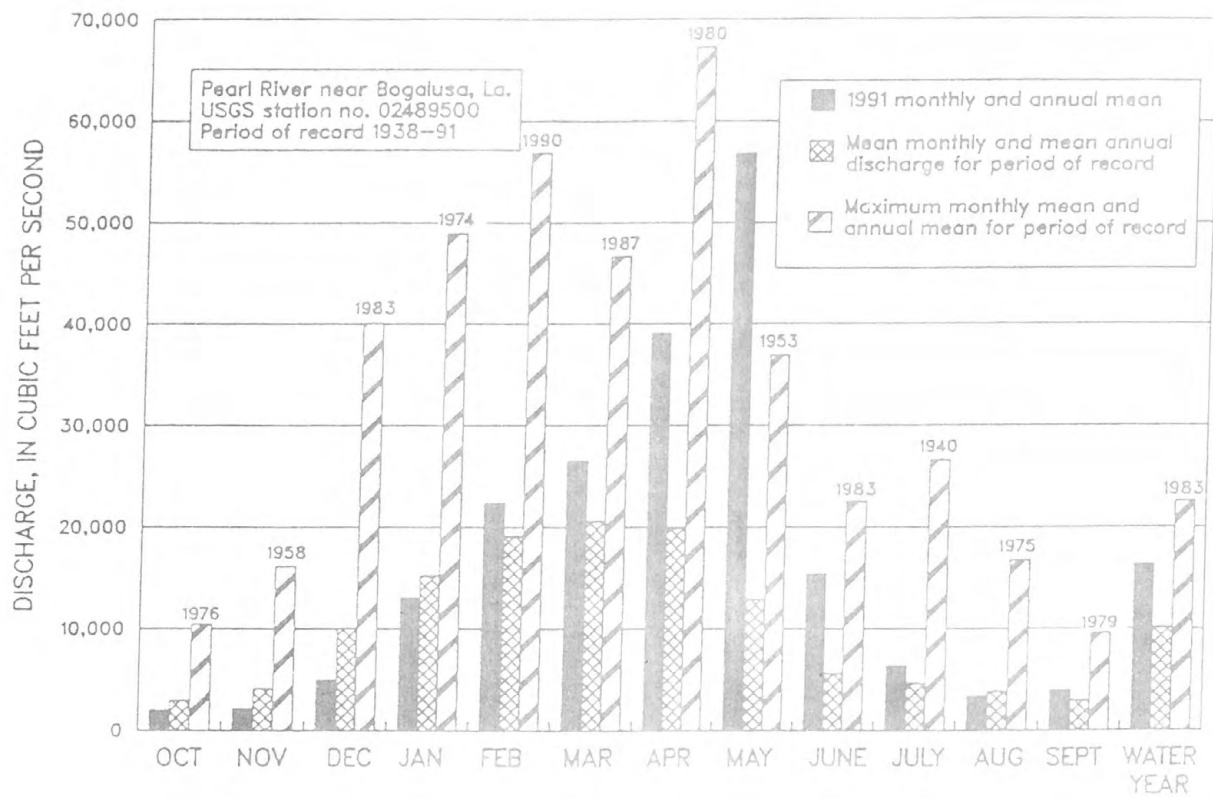


Figure 1.--Comparison of discharge during the 1991 water year with mean and maximum discharge for the period of record at four representative gaging stations.

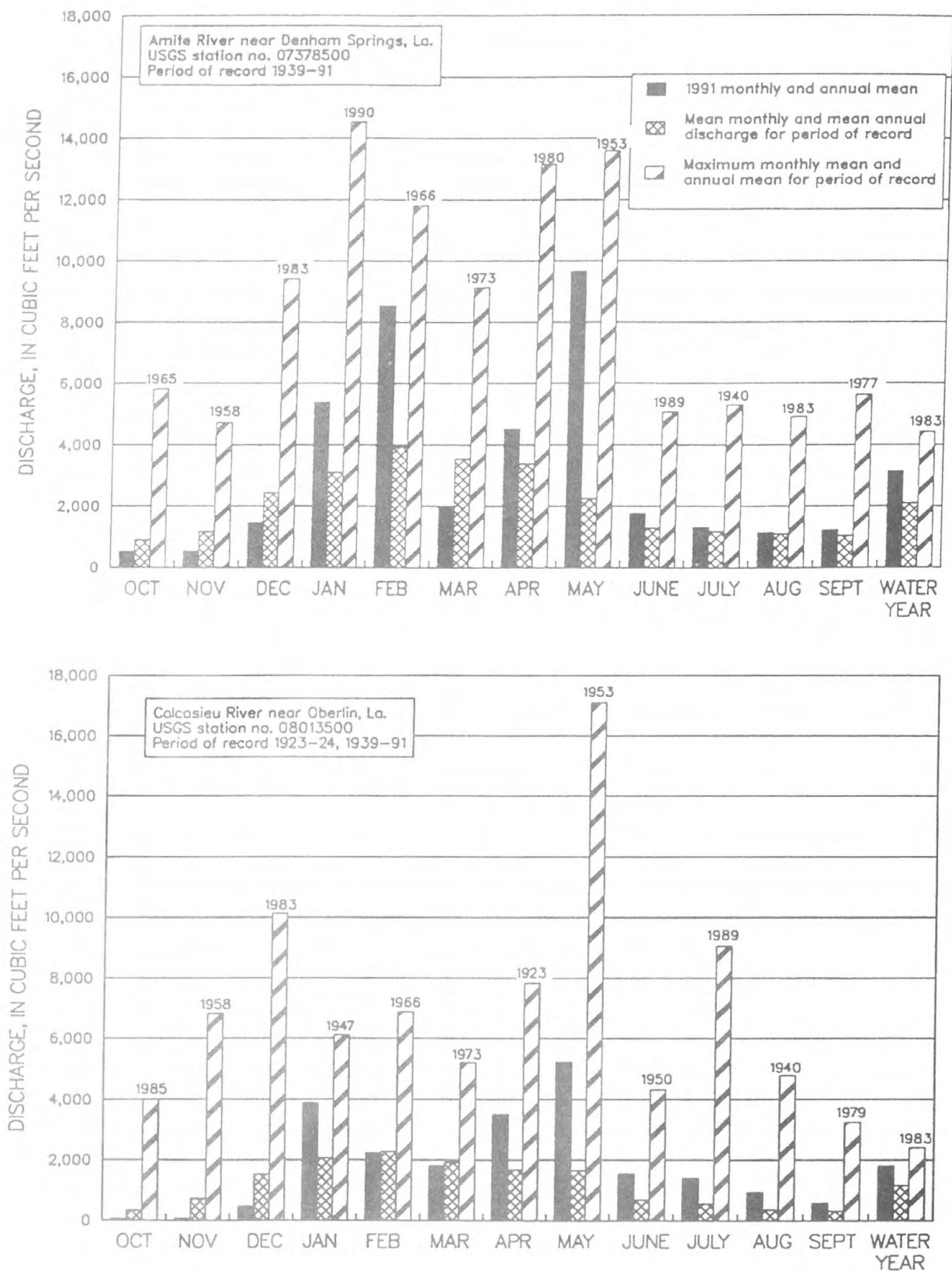


Figure 1.--Comparison of discharge during the 1991 water year with mean and maximum discharge for the period of record at four representative gaging stations--Continued.

Ground-Water Levels

Water-level declines continued in some of the major aquifers in the State during the water year, whereas water levels remained unchanged or recovered in other aquifers. Water levels in the Sparta aquifer of northern Louisiana generally declined from 1 to 1.5 ft (well Ja-147, fig. 2a), but water levels in Morehouse Parish recovered about 2 ft. Normal seasonal fluctuations were observed in water levels in the Cockfield aquifer with no significant changes, except for a slight rise in water levels in wells in Richland Parish. Water levels in the Carrizo-Wilcox aquifer recovered slightly.

In aquifers of Miocene age in central Louisiana, water levels in the Carnahan Bayou aquifer within Rapides Parish continued a general decline of 1 to 5 ft (well V-426, fig. 2a). In the Fort Polk area of Vernon Parish, the water levels declined from 2 to 3 ft. Water levels in the Williamsom Creek aquifer within Rapides and Avoyelles Parishes had a recovery of less than 1 ft. Water levels in the Catahoula aquifer also had a slight recovery.

Due to sufficient rainfall, the water levels in the terrace aquifer of northern Louisiana remained slightly above average, with no significant changes during the year. Water levels in the Mississippi River alluvial aquifer of northeastern Louisiana indicated seasonal fluctuations in response to changes in stage of the Mississippi River, with spring highs slightly higher than in the 1990 water year.

In southwestern Louisiana, water levels in aquifers of the Chicot aquifer system indicated little or no change in most areas. In the updip and outcrop areas, water levels recovered up to 1.5 ft in the west, but remained constant or declined slightly in the east. In the rice growing area east of Lake Charles and the Lake Charles industrial area, water levels remained constant or fluctuated in most areas (well JD-9, fig. 2a). Water levels in the Evangeline aquifer of southwestern Louisiana continued to decline up to 8 ft in Allen Parish.

Water levels in aquifers of the Evangeline equivalent southeast Louisiana aquifer system generally indicated declines of about 2 ft in most areas, with the exception of northern Tangipahoa Parish where little or no change was observed. Water levels in the deep aquifers of the Jasper equivalent southeast Louisiana aquifer system declined from 1 to 10 ft throughout the southeast, with the greatest declines in the Baton Rouge area (well EB-90, fig. 2b). Water levels in aquifers of the Chicot equivalent southeast Louisiana aquifer system indicated normal seasonal fluctuations but little net change. Water levels in aquifers in the river parishes south of Baton Rouge recovered 1 to 2 ft.

Ground-Water Quality

Chloride concentrations in water from 83 wells in the major aquifers in the State ranged from 1.3 mg/L for the Evangeline equivalent aquifer system in West Feliciana Parish to 3,000 mg/L for the Mississippi River alluvial aquifer in Franklin Parish. Chloride concentrations in water from wells in the Sparta aquifer showed very little change from the previous water year. Seasonal fluctuations occurred in chloride concentrations in water from wells in the Mississippi River alluvial aquifer. In southwestern Louisiana, along the freshwater-saltwater interface, chloride concentrations in the upper part of the Chicot aquifer system indicated little or no change. In the Lake Charles area, chloride concentrations remained fairly constant in the "200-foot", "500-foot", and "700-foot" aquifers. In the Baton Rouge area, chloride concentrations have remained steady or continued past trends in most wells sampled. Chloride concentrations in the "1,500-foot" aquifer of the Baton Rouge area continued to rise (well EB-917, fig. 2b). Chloride concentrations in aquifers in southeastern Louisiana near New Orleans indicated little change except for a slight decrease detected in the Gramercy aquifer.

Analysis of water samples from 20 wells throughout the State indicated that concentrations of most trace elements and organic compounds were at or below detection limits, except for wells specifically discussed. In northern Louisiana, water from well Ma-31 in Madison Parish, screened in the Mississippi River alluvial aquifer, had concentrations of 1.3 µg/L of chloroform and 0.8 µg/L of toluene. In Morehouse Parish, samples from well Mo-363 in the terrace aquifer had 1.2 µg/L of chloroform.

In central and southern Louisiana, samples from wells indicated concentrations of organic compounds were slightly above detection limits: EB-771 ("1,500-foot" aquifer) in East Baton Rouge Parish, EF-225 (Evangeline equivalent aquifer system) in East Feliciana Parish, Li-185 ("2,400-foot" aquifer) in Livingston Parish, R-910 (terrace aquifer) in Rapides Parish, SJB-176 (Covington aquifer) in St. John the Baptist Parish, and SL-551 (Evangeline aquifer) in St. Landry Parish.

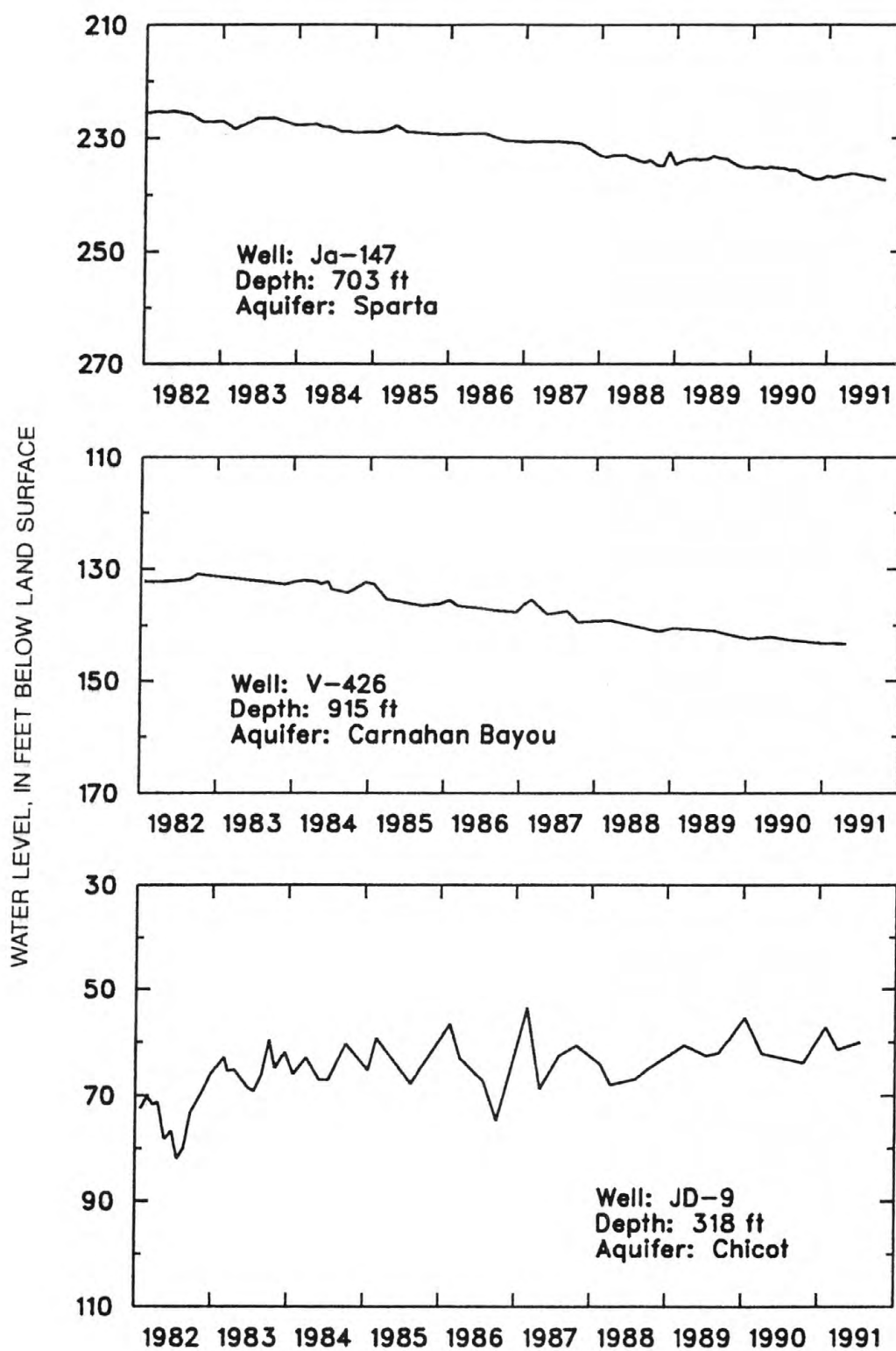


Figure 2a.--Water levels for representative observation wells.

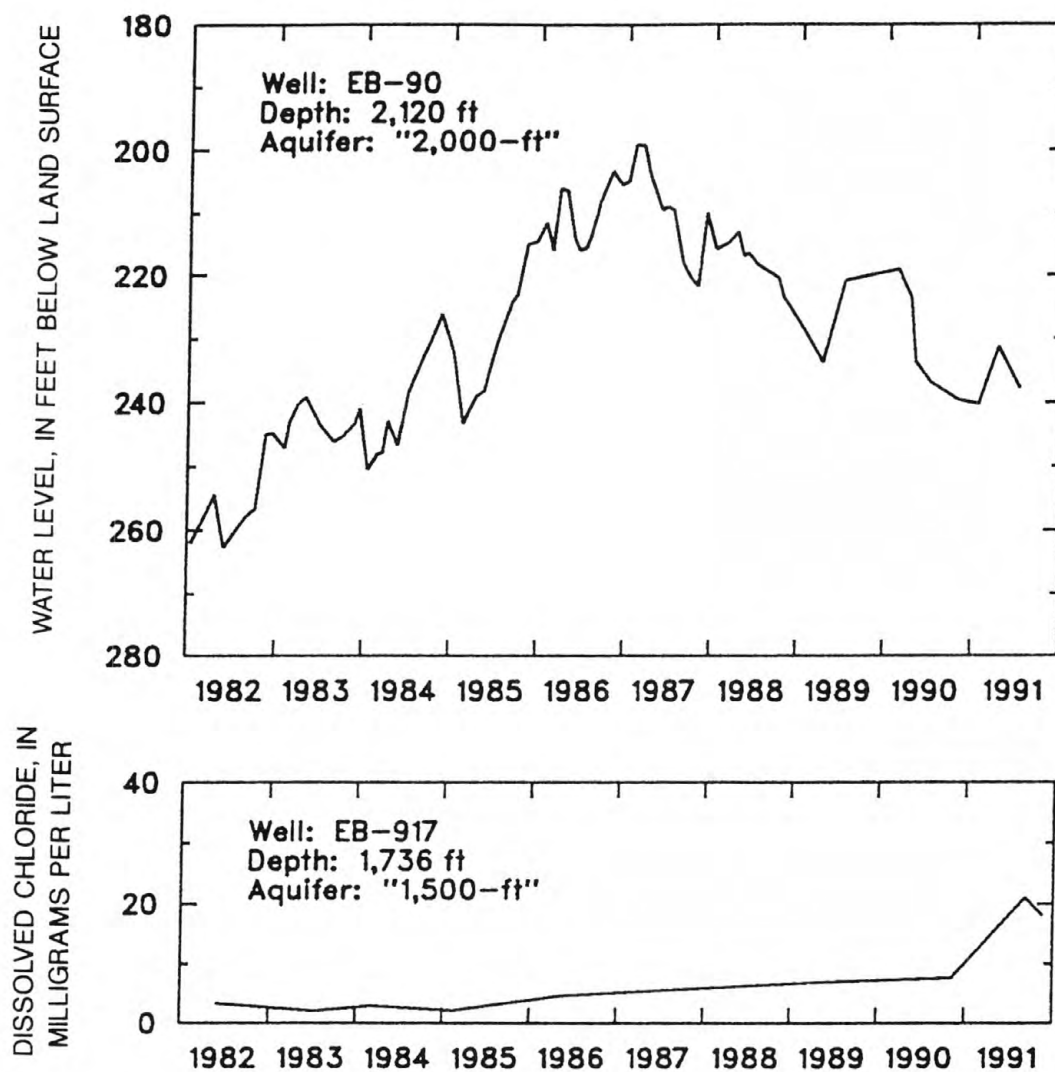


Figure 2b.--Water level for representative observation well and chloride concentration for well EB-917.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from man-made changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data-collection network designated by the U.S. Geological Survey to meet many of the demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1991 water year that began October 1, 1990, and ended September 30, 1991. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage data for lakes, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 4-15. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Louisiana, for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight- to fourteen-digit number for each

station such as 02489500000000, which appears just to the left of the station name, includes the two-digit Part number "02" plus the six- to twelve-digit downstream order number "489500000000". The Part number designates the major river basin; for example "02" is the South Atlantic Slope and Eastern Gulf of Mexico.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a one-second grid. This site-identification number, once assigned, is a pure number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 3). In Louisiana, wells are further identified by a local well number that consists of a letter code that identifies the parish in which the well is located, followed by a serial number assigned when the well was inventoried.

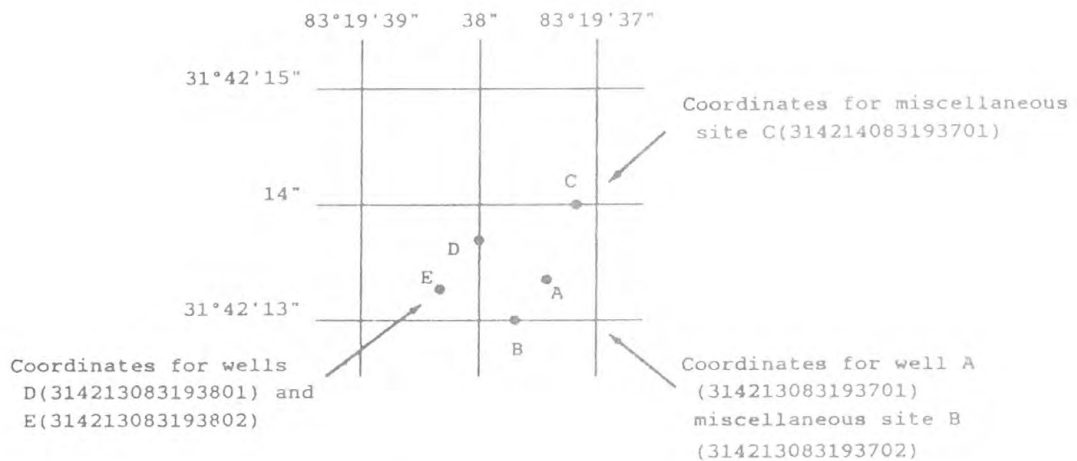


Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figures 4-7.

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and com-



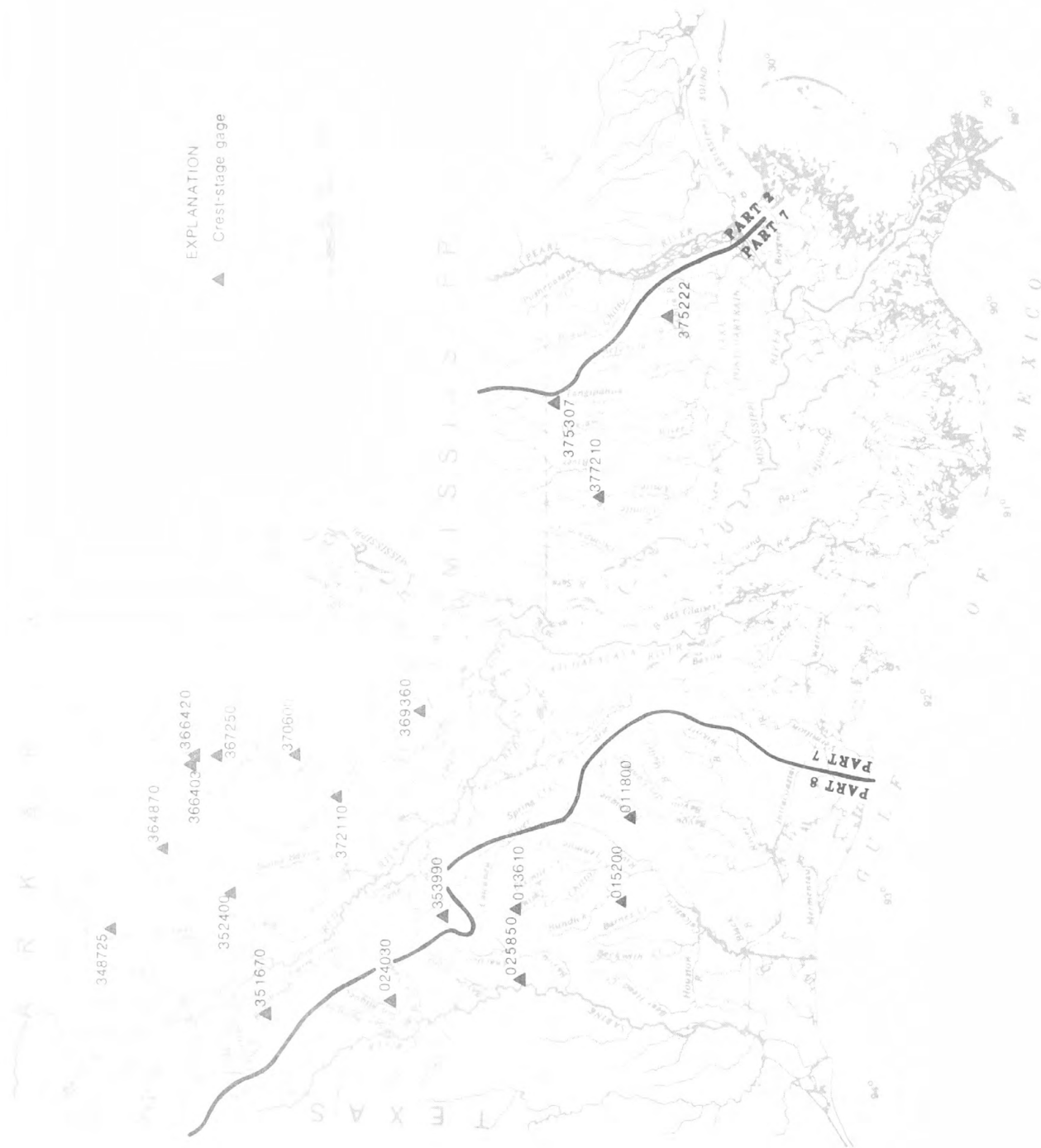


Figure 5.--Location of crest-stage stations.

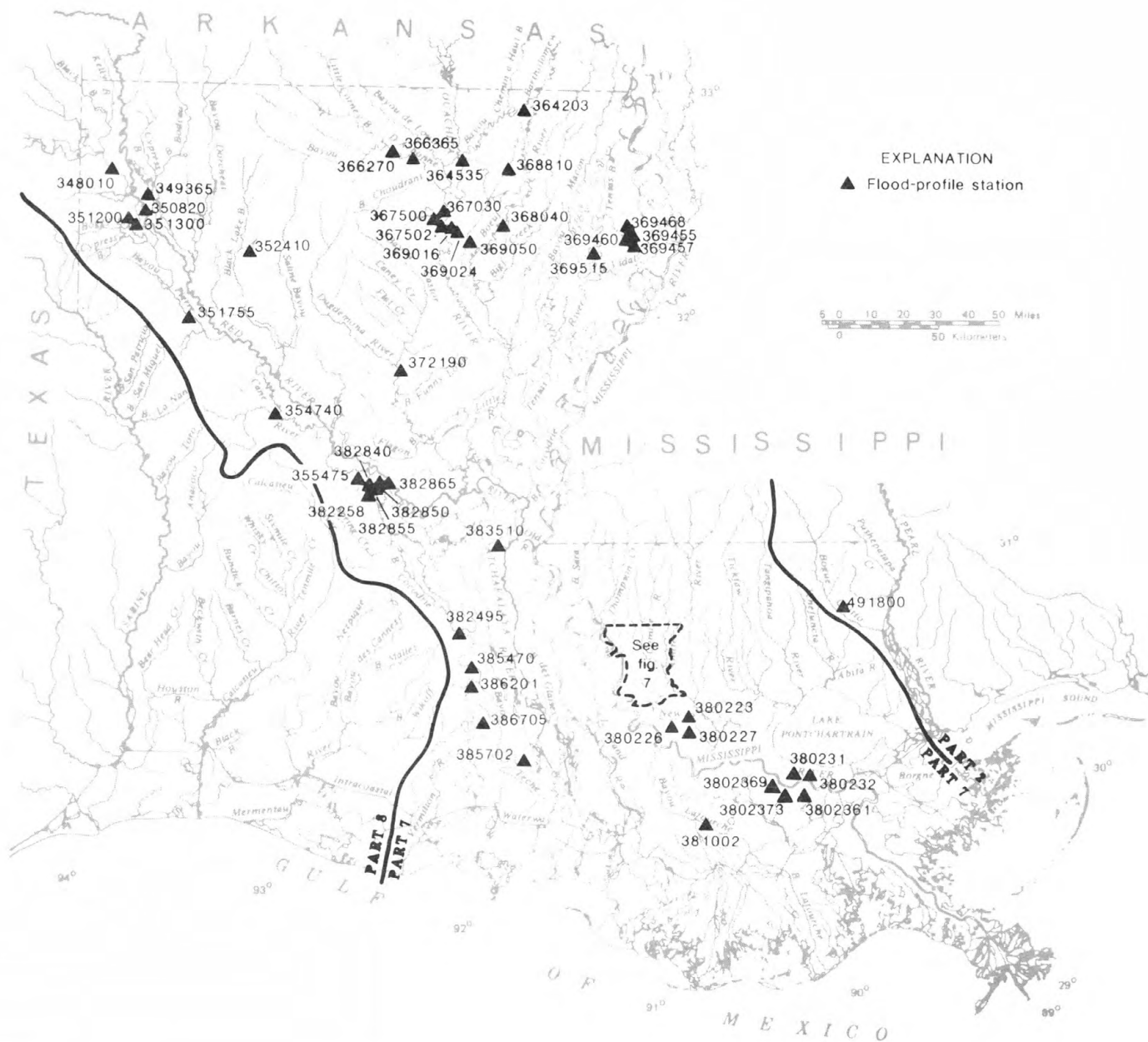


Figure 6.--Location of flood-profile stations.

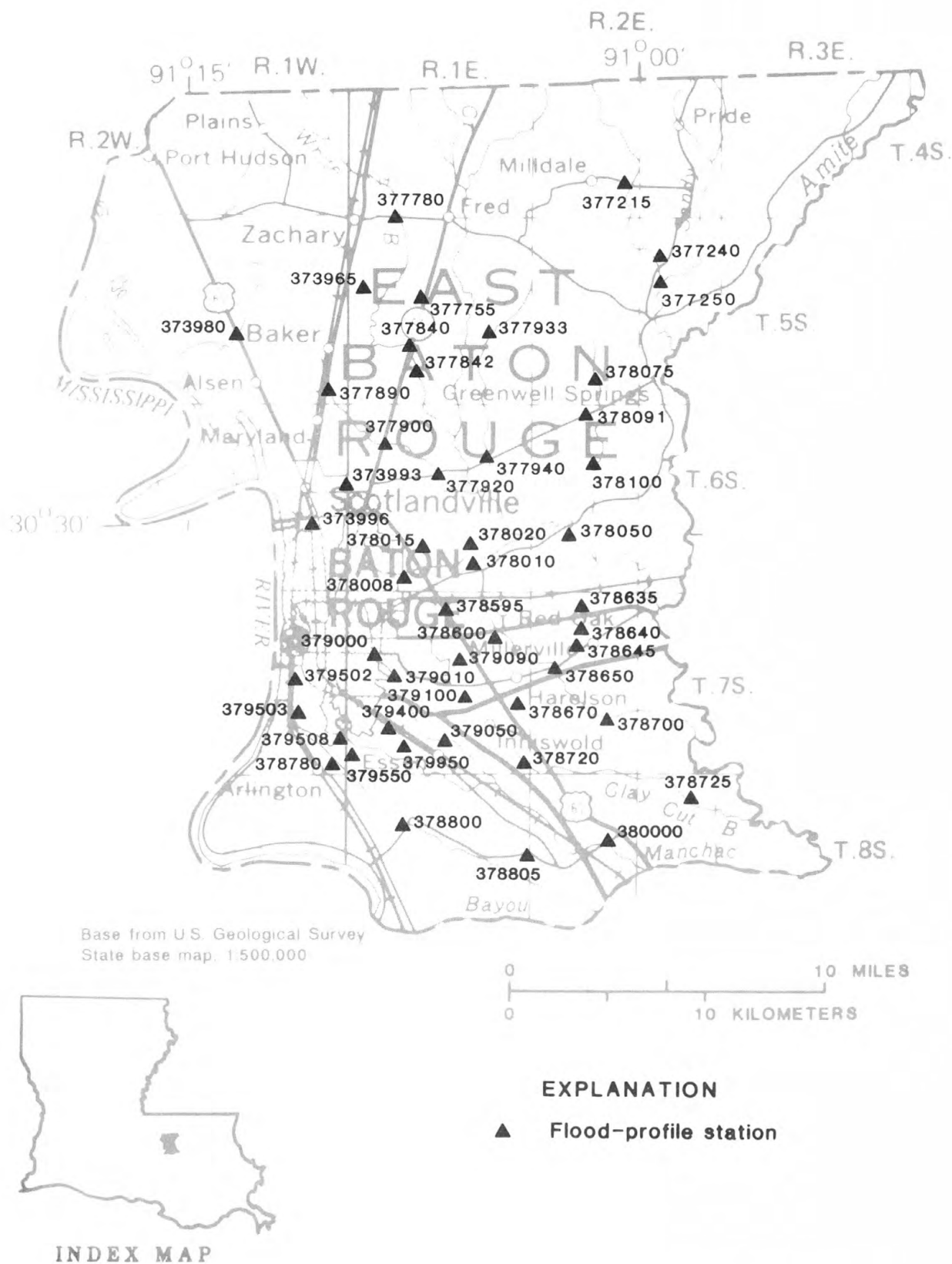


Figure 7.--Location of flood-profile stations in East Baton Rouge Parish.

parison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record, average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possible, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "ACFT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in three tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of annual maximum stages at flood-profile stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in time of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily mean discharges are within 5 percent; "good" within 10 percent and "fair" within 15 percent. "Poor" means that daily mean discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second (ft^3/s) for discharges of less than $1 \text{ ft}^3/\text{s}$; to tenths between 1.0 and $10 \text{ ft}^3/\text{s}$; to whole numbers between 10 and $1,000 \text{ ft}^3/\text{s}$; and to 3 significant figures above $1,000 \text{ ft}^3/\text{s}$. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharges at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effect of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Records of discharge, not published by the Geological Survey, are collected in Louisiana at several sites by the U.S. Army Corps of Engineers. The National Water Data Exchange (NAWDEx), U.S. Geological Survey, Reston, VA 22092, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Louisiana District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the District office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 8 and 15.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collections. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, and A4. All of these references are listed on page 22 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District Office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the USGS District Office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers or point samplers. Samples usually are obtained along several vertical lines in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

As other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements for the particle-size distribution of the suspended sediment and bed material are included.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the

Geological Survey laboratory in Arvada, Colo. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)

Records of Ground-Water Levels

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by parishes arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the parish location (abbreviated) followed by a sequential number.

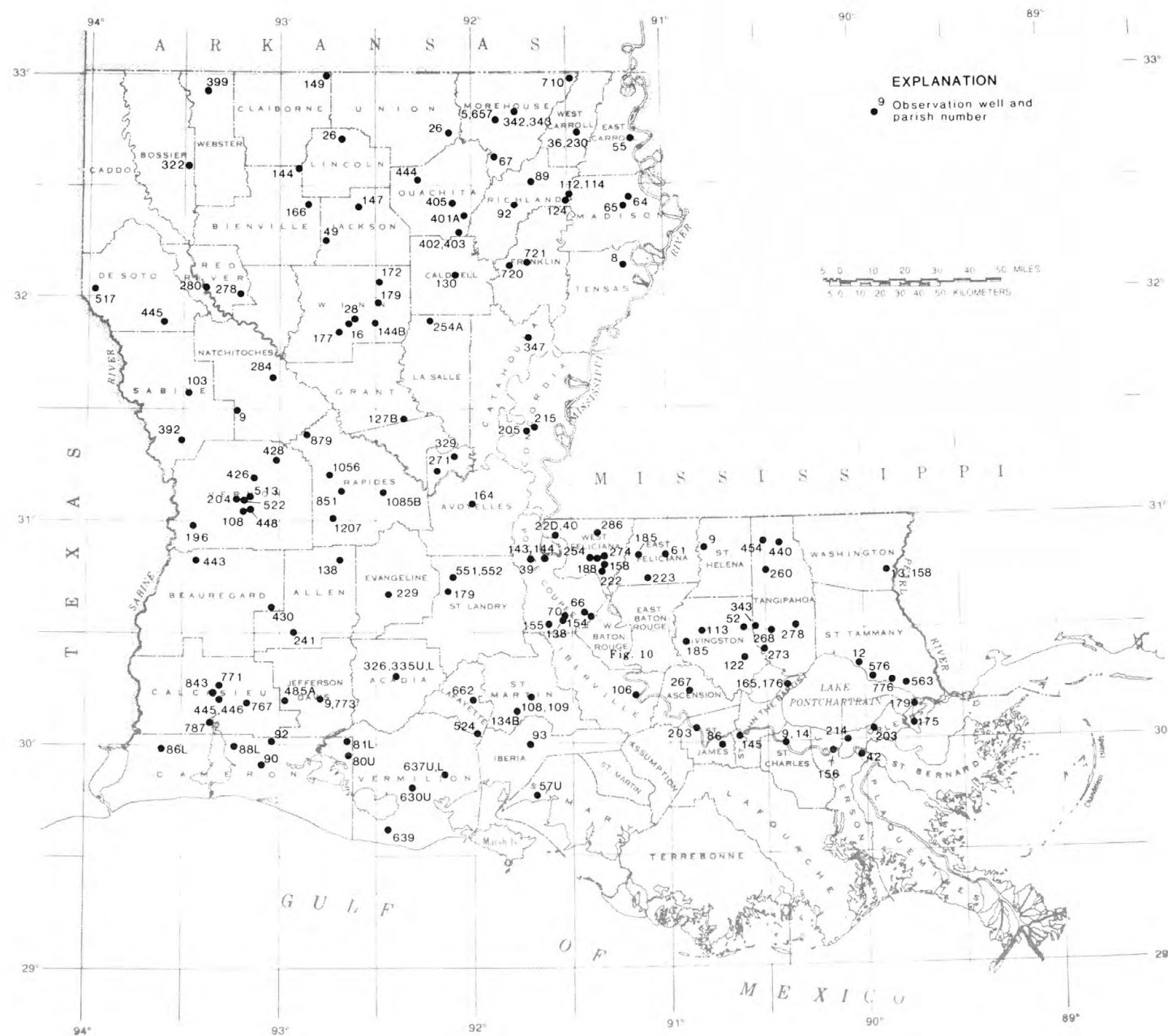
Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented by the well description. Locations of stations for which records on ground water appear in this report are shown in figures 9-14.

Figure 9.--Location of observation wells.



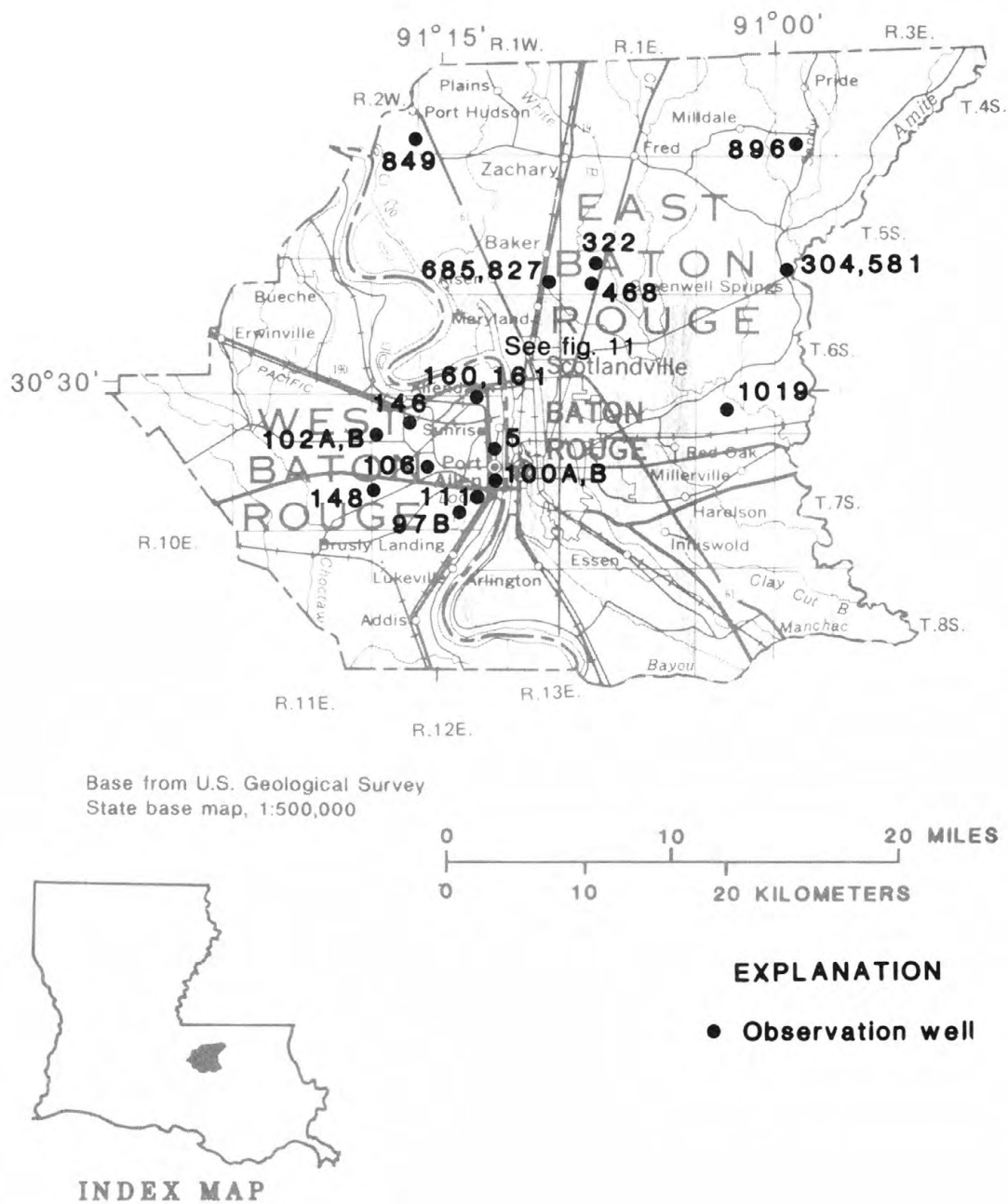


Figure 10.--Location of observation wells in East and West Baton Rouge Parishes.

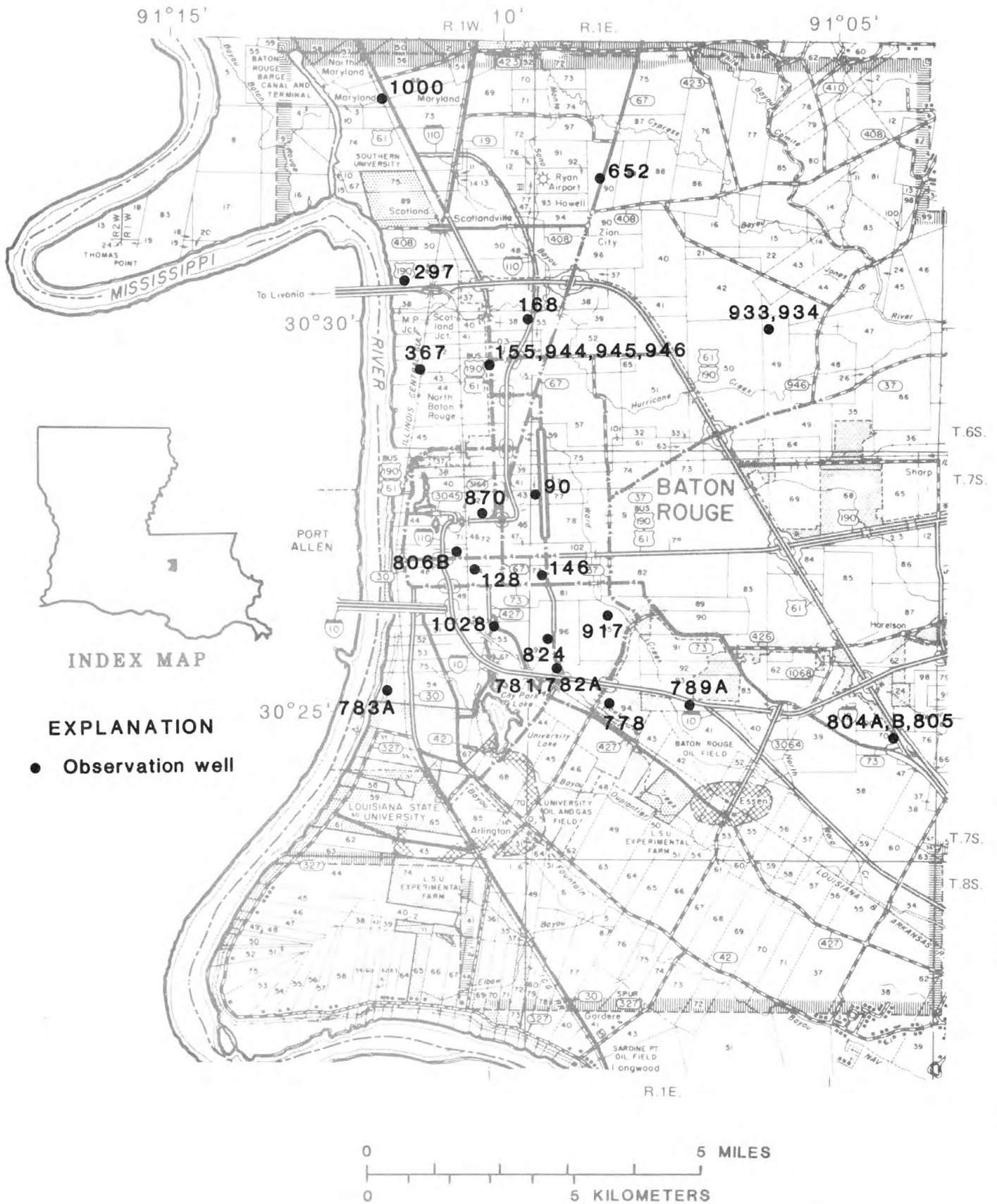


Figure 11.--Location of observation wells in shaded area of figure 10.



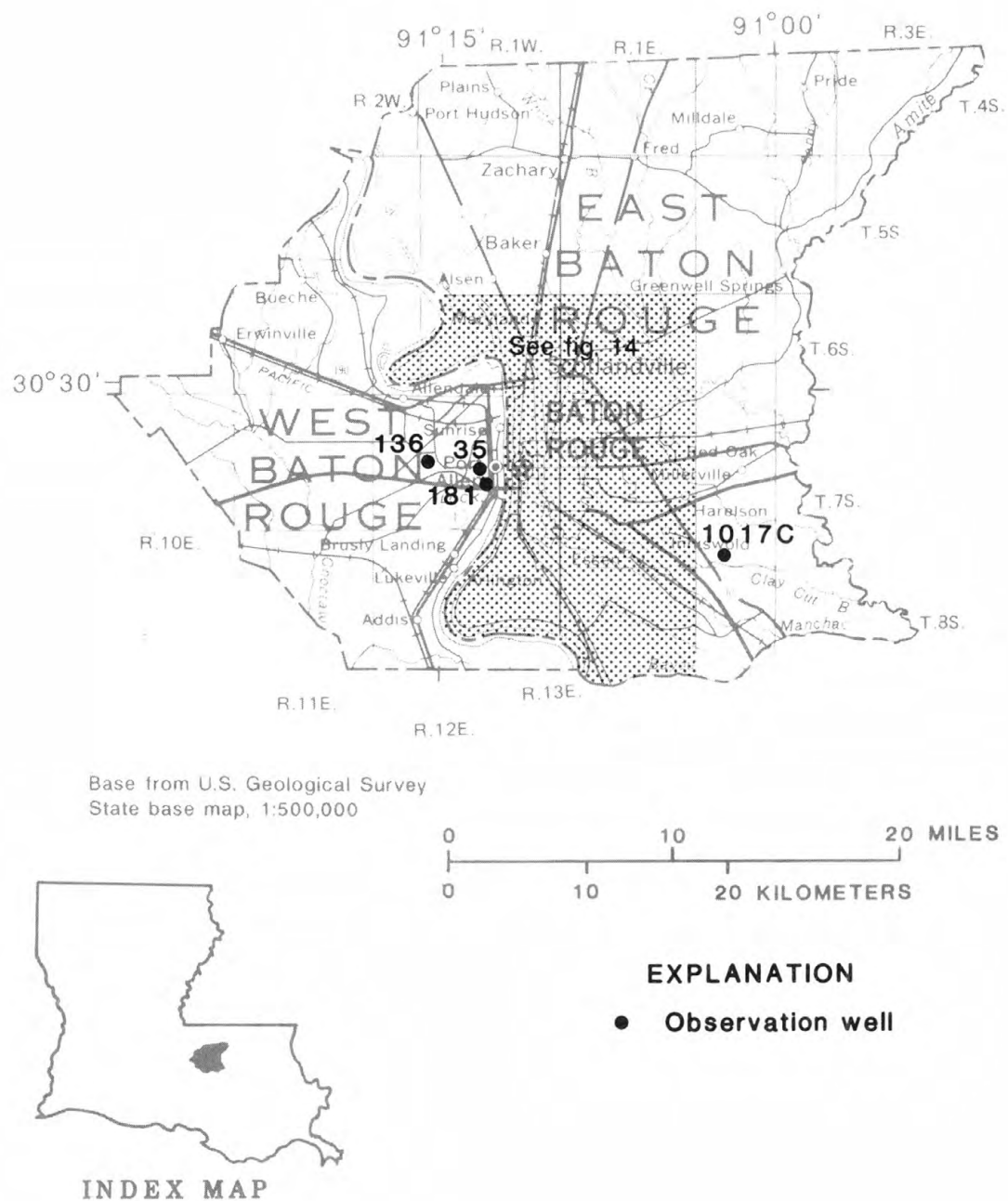


Figure 13. --Location of wells for which water-quality data are included in East and West Baton Rouge Parishes.

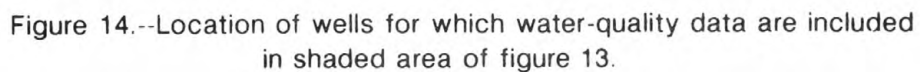


Figure 14.--Location of wells for which water-quality data are included in shaded area of figure 13.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water levels are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels for the period of record and their dates of occurrence are shown on a line above the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed on a following page. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled "QUALITY OF GROUND WATER" which immediately follows the ground-water-level records. Data for quality of ground water are listed alphabetically by parish, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

ACCESS TO WATSTORE DATA

The National **W**ater **D**ata **S**TORAGE and **R**etrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's District offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of metric units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and thread-like in shape, often grouped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials. NOTE: The letter "K" preceding a value indicates the results are based on colony count outside the ideal range.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory these bacteria are defined as all the organisms that produce colonies within 24 hours when incubated at 35 °C $\pm$ 0.5 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all the organisms that produce blue colonies within 24 hours when incubated at 44.5 °C $\pm$ 0.2 °C on MFC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies with 48 hours at 35 °C $\pm$ 1.0 °C on M-enterococcus medium (STORET CODE 31679), or on KF agar (STORET CODE 31673). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and periphyton and benthic organisms in g/m² (grams per square meter).

Dry mass refers to the mass of residue present after drying in an oven at 60 °C for zooplankton and 60 °C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as for ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Recoverable from bottom material refers to the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

Cells/volume refers to the number of cells on any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second (FT³/S, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^S \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and S is the total number of taxa in the sample of the community. Diversity-index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution area, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water.

Elutriate is the supernatant resulting from the vigorous 30-minute shaking of 1 part bottom sediment with 4 parts water from the proposed disposal site followed by 1 hour of letting the mixture settle and appropriate filtration or centrifugation.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Hydrologic unit is a geographic area representing part or all of a surface-drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (LSD) is a datum plane that is approximately at land surface at each well.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per kilogram ($\mu\text{g/kg}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of sediment.

Micrograms per liter ($\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution. Micrograms per liter represent the mass of solute per unit volume (liter) of water.

Microsiemens per centimeter ($\mu\text{S/cm}$) is a unit expressing measurement of specific electrical conductance.

Milligrams per liter (MG/L, mg/L) is a unit expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Insecticides are substances or a mixture of substances intended to prevent, destroy, or repel insects. The technical names for insecticides determined in this report are:

Aldrin 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene.

Chlordane 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methanoindene.

DDD (combination of ortho and para isomers)

o,p'-DDD 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)-ethane,

p,p'-DDD 1,1-dichloro-2,2-bis(p-chlorophenyl)ethane.

DDE (combination of ortho and para isomers)

o,p'-DDE 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)-ethylene,

p,p'-DDE 1,1-dichloro-2-bis(p-chlorophenyl)ethylene.

DDT (combination of ortho and para isomers)

o,p'-DDT 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)-ethane,

p,p'-DDT 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane.

Diazinon 0,0-Diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate.

Dieldrin 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene.

Endosulfan 1,4,5,6,7,7-hexachloro-5-norbornene-2,3-dimethanol cyclic sulfite.

Endrin 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,endo-1,4:5,8-dimethanonaphthalene.

Ethion 0,0,0',0'-tetraethyl S,S'-methylenediphosphorodithioate.

Heptachlor 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H indene.

Heptachlor epoxide 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro-4,7-methanoindan.

Lindane 1,2,3,4,5,6-hexachlorocyclohexane, 99 percent or more of gamma-isomer.

Malathion S-(1,2-dicarbethoxyethyl) 0,0-dimethyldithiophosphate.

Methyl parathion 0,0-dimethyl 0-4-nitrophenyl phosphorothioate.

Methyl trithion phosphorodithioic acid S-[[[(4-chlorophenyl) thio]-methyl] 0,0-dimethyl ester.

Methoxychlor 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)ethane.

Mirex 1,1a,2,2,3,3a,4,5,5a,5b,6-dodecachlorooctahydro-1,3,4-metheno-1H-cyclobuta[cd]pentalene.

Parathion 0,0-diethyl 0-p-nitrophenyl phosphorothioate.

Perthane 1,1'-(2,2-dichloroethylidene)bis[4-ethylbenzene].

Toxaphene chlorinated camphene containing 67-69 percent chlorine by weight.

Trithion S-[[[(p-chlorophenyl)thio]methyl] 0,0-diethyl phosphorodithioate.

Herbicides are substances or a mixture of substances intended to control or destroy any vegetation. The technical names for herbicides determined in this report are:

2,4-D (2,4-dichlorophenoxy)acetic acid.

2,4,5-T (2,4,5-trichlorophenoxy)acetic acid.

Silvex 2-(2,4,5-trichlorophenoxy)propionic acid.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.2 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds having various percentages of chlorine.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mean concentration times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens (formerly micromhos) per centimeter at 25 °C ($\mu\text{S}/\text{cm}$). Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance in microsiemens (formerly micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplified the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hard-board) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using USGS Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer membrane filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only

when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
<u>Genus</u>	<u>Hexagenia</u>
<u>Species</u>	<u>Hexagenia limbata</u>

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour period.

Total refers to the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mean concentration of the constituent, times the factor 0.0027, times the number of days.

Total recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and

suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

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- 6-A1. **A modular three-dimensional finite-difference ground-water flow model**, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 7-C1. **Finite difference model for aquifer simulation in two dimensions with results of numerical experiments**, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. **Computer model of two-dimensional solute transport and dispersion in ground water**, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. **A model for simulation of flow in singular and interconnected channels**, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. **Methods of measuring water levels in deep wells**, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. **Installation and service manual for U.S. Geological Survey manometers**, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. **Calibration and maintenance of vertical-axis type current meters**, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°47'35", long 89°49'15", on line between secs.17 and 18, T.3 S., R.14 E., Washington Parish, Hydrologic Unit 03180004, near right bank on downstream side of bridge on State Highway 10, 2.0 mi east of Bogalusa, and 2.0 mi upstream from Bogue Lusa Creek.

DRAINAGE AREA.--6,573 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WDR LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 55.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 29, 1954, nonrecording gage at same site and datum.

REMARKS.--Records good. Several measurements of water temperature were made during the year.

REVISIONS.--The maximum discharge for the water year 1990 has been revised to 87,300 ft³/s, Jan. 29, gage height, 21.77 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860	1840	3080	15200	19100	51100	15600	72000	24500	7290	4460	3600
2	1860	1830	2870	16100	19600	53000	20000	70900	24800	6390	4940	3670
3	1870	1820	3440	16900	17700	53100	23600	72100	24400	6130	5050	4010
4	1920	1830	5550	17500	14400	53500	26100	74500	24600	7070	4680	4390
5	2040	1830	5470	17200	12100	53100	27700	77000	25900	6790	4420	4730
6	2050	1860	4720	15700	18100	52300	28700	81200	26800	8690	3970	5250
7	2020	1910	4780	13500	25500	51300	29100	83900	27500	12100	3580	4840
8	2020	1920	4410	10900	28200	49400	29100	86900	27600	16200	3330	4470
9	1990	2020	3890	8860	27800	47100	29100	90600	26600	14300	3200	4440
10	1950	2300	3590	8580	23700	43800	29200	95200	23900	10800	3270	4200
11	1950	2550	3520	11500	17800	40200	27400	97400	18100	8950	3350	3880
12	1950	2400	3340	15000	13900	36900	22200	92200	11900	8010	3310	3630
13	1920	2350	3010	17700	11100	35100	15300	83800	9260	7160	3220	3250
14	1900	2440	2780	19000	9640	32400	17600	77400	11200	6300	3390	2970
15	1880	2350	2670	17700	8850	27300	27000	71500	11400	5320	3230	2810
16	1870	2230	2600	13200	7670	19500	34000	64600	9410	4610	3010	2710
17	1860	2150	2520	9930	6510	13900	39700	58000	7720	4260	2900	2650
18	1850	2070	2420	8900	6220	11900	46000	53200	7370	4310	2830	2600
19	1840	2030	2400	8850	6220	10700	50100	48500	7950	4260	2780	2610
20	1840	2020	2460	9400	6830	9710	51700	43000	9450	4230	2770	2690
21	1840	2020	2410	11600	16300	8740	52600	38300	9790	4250	2700	2720
22	1960	2020	2350	12600	29400	7850	53000	35100	9520	4560	2630	2710
23	2120	2010	2620	10500	38000	7170	54200	31000	10100	4210	2600	2670
24	2110	2020	3270	8550	45900	6820	55300	24200	10100	4330	2580	2890
25	2020	2040	5780	10300	49400	6670	56400	19300	10900	4070	2540	3910
26	1970	2040	9250	12800	50000	6330	59700	18800	11000	3830	2540	5770
27	1930	2020	10400	14200	49100	5970	61100	18400	11000	3790	2600	5850
28	1920	2130	10700	13100	47700	5750	59700	18200	11100	3620	2830	6760
29	1890	2690	11200	11300	---	5800	60900	18800	9960	3720	3160	6560
30	1850	3180	12400	11500	---	6670	69900	21000	8250	3950	3430	5430
31	1840	---	13800	15700	---	9560	---	22900	---	4020	3700	---
TOTAL	59890	63920	153700	403770	626740	822640	1172000	1759900	462080	197520	103000	118670
MEAN	1932	2131	4958	13020	22380	26540	39070	56770	15400	6372	3323	3956
MAX	2120	3180	13800	19000	50000	53500	69900	97400	27600	16200	5050	6760
MIN	1840	1820	2350	8550	6220	5750	15300	18200	7370	3620	2540	2600
CFSM	.29	.32	.75	1.98	3.41	4.04	5.94	8.64	2.34	.97	.51	.60
IN.	.34	.36	.87	2.29	3.55	4.66	6.63	9.96	2.62	1.12	.58	.67

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	2946	4106	10050	15240	19040	20580	19890	12920	5605	4620	3846	2916
MAX	10390	16150	40080	48900	56830	46670	67290	56770	22540	26570	16710	9543
(WY)	1976	1958	1983	1974	1990	1987	1980	1991	1983	1940	1975	1979
MIN	1110	1233	1713	2174	4346	4764	3214	1926	1651	1564	1514	1246
(WY)	1964	1964	1955	1956	1970	1967	1963	1963	1963	1969	1954	1954

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1939 - 1991		
ANNUAL TOTAL	5363630			5943830			10100		
ANNUAL MEAN	14690			16280			22560		
HIGHEST ANNUAL MEAN							3412		
LOWEST ANNUAL MEAN							127000		
HIGHEST DAILY MEAN	96100	Jan 29		97400	May 11		Apr 24 1979		
LOWEST DAILY MEAN	1820	Nov 3		1820	Nov 3		1020		
ANNUAL SEVEN-DAY MINIMUM	1830	Oct 30		1830	Oct 30		1030		
INSTANTANEOUS PEAK FLOW				98500	May 11		129000		
INSTANTANEOUS PEAK STAGE				22.17	May 11		23.23		
INSTANTANEOUS LOW FLOW				1810	Nov 2.3		1020		
INSTANTANEOUS LOW PEAK				7.59	Nov 2.3		4.84		
ANNUAL RUNOFF (CFSM)	2.24			2.48			1.54		
ANNUAL RUNOFF (INCHES)	30.36			33.64			20.88		
10 PERCENT EXCEEDS	44300			50500			28000		
50 PERCENT EXCEEDS	4910			7290			4600		
90 PERCENT EXCEEDS	1940			2020			1810		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.72	7.65	9.50	17.13	17.99	20.48	17.22	21.16	18.73	13.74	11.36	10.44
2	7.71	7.61	9.22	17.36	18.07	20.54	18.11	21.11	18.76	13.07	11.85	10.51
3	7.72	7.60	9.94	17.55	17.72	20.55	18.61	21.16	18.71	12.84	11.96	10.88
4	7.81	7.62	12.28	17.67	16.92	20.56	18.92	21.26	18.74	13.59	11.58	11.28
5	8.03	7.62	12.23	17.62	16.21	20.55	19.10	21.36	18.90	13.40	11.31	11.63
6	8.04	7.67	11.42	17.27	17.71	20.52	19.20	21.53	18.99	14.58	10.84	12.17
7	7.99	7.76	11.49	16.67	18.85	20.49	19.24	21.64	19.08	16.17	10.41	11.75
8	7.98	7.79	11.06	15.71	19.15	20.43	19.24	21.76	19.09	17.38	10.11	11.37
9	7.93	7.97	10.48	14.70	19.11	20.36	19.24	21.90	18.98	16.88	9.94	11.33
10	7.84	8.41	10.14	14.54	18.62	20.24	19.25	22.06	18.65	15.68	10.04	11.08
11	7.85	8.78	10.05	15.94	17.71	20.11	19.06	22.13	17.76	14.76	10.13	10.74
12	7.83	8.56	9.83	17.08	16.78	19.96	18.42	21.96	16.09	14.19	10.09	10.46
13	7.78	8.48	9.41	17.72	15.81	19.80	17.14	21.63	14.93	13.65	9.97	10.01
14	7.75	8.62	9.10	17.98	15.13	19.56	17.65	21.38	15.84	13.00	10.18	9.61
15	7.72	8.48	8.95	17.71	14.70	19.04	19.01	21.14	15.93	12.21	9.99	9.37
16	7.70	8.30	8.85	16.56	13.98	18.01	19.70	20.90	15.00	11.51	9.68	9.22
17	7.68	8.17	8.74	15.27	13.17	16.79	20.09	20.71	14.01	11.15	9.52	9.13
18	7.66	8.06	8.60	14.73	12.92	16.15	20.32	20.55	13.79	11.20	9.40	9.06
19	7.64	7.98	8.56	14.71	12.92	15.65	20.45	20.40	14.16	11.14	9.33	9.08
20	7.63	7.96	8.64	15.00	13.36	15.16	20.50	20.21	15.02	11.11	9.31	9.19
21	7.64	7.96	8.58	16.02	17.24	14.64	20.53	20.03	15.20	11.13	9.21	9.24
22	7.85	7.96	8.49	16.41	19.25	14.09	20.55	19.80	15.07	11.46	9.10	9.22
23	8.13	7.95	8.88	15.53	19.99	13.66	20.58	19.42	15.36	11.09	9.07	9.17
24	8.11	7.96	9.74	14.53	20.31	13.42	20.62	18.68	15.35	11.22	9.03	9.50
25	7.97	8.01	12.40	15.46	20.43	13.30	20.66	18.02	15.75	10.94	8.97	10.74
26	7.87	8.01	14.91	16.47	20.45	13.01	20.76	17.93	15.77	10.69	8.97	12.58
27	7.81	7.97	15.53	16.89	20.42	12.70	20.80	17.87	15.79	10.65	9.06	12.65
28	7.78	8.14	15.65	16.56	20.38	12.50	20.76	17.82	15.84	10.46	9.41	13.37
29	7.73	8.97	15.88	15.89	---	12.55	20.79	17.94	15.29	10.57	9.89	13.21
30	7.66	9.64	16.30	15.95	---	13.28	21.08	18.27	14.34	10.81	10.23	12.30
31	7.64	---	16.78	17.25	---	15.01	---	18.53	---	10.89	10.54	---
MAX	8.13	9.64	16.78	17.98	20.45	20.56	21.08	22.13	19.09	17.38	11.96	13.37
MIN	7.63	7.60	8.49	14.53	12.92	12.50	17.14	17.82	13.79	10.46	8.97	9.06

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1952-53, 1963 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1962 to September 1970, June 1975 to October 1980, April 1981 to September 1981.

pH: June 1975 to October 1980.

WATER TEMPERATURES: November 1962 to September 1970, June 1975 to October 1980, April 1981 to September.

DISSOLVED OXYGEN: June 1975 to October 1980.

SUSPENDED-SEDIMENT CONCENTRATIONS: April 1967 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1967 to current year.

INSTRUMENTATION.--Water-quality monitor June 1975 to October 1980.

REMARKS.--Suspended-sediment data, sieve diameter, percent finer than 0.062 MM are instantaneous values.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 180 micromhos Sept. 10, 1965; minimum, 17 micromhos Apr. 26, 1979.

pH: Maximum, 8.4 units Oct. 19, 21, 1976; minimum, 5.4 units Jan. 23, 24, 1977, Jan. 18-20, 1980.

WATER TEMPERATURES: Maximum daily, 35.0 °C July 23, 1981; minimum daily, 1.5 °C Dec. 21, 1963.

DISSOLVED OXYGEN: Maximum, 12.9 mg/L Oct. 22, Dec. 1, 1976; minimum, 2.9 mg/L May 25, 1977.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 576 mg/L Oct. 24, 1984; minimum daily mean, 2 mg/L

Nov. 11-13, 1969, Oct. 15, 17, Nov. 14, 1971, Oct. 15-21, Nov. 3-5, 1972.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 80,600 tons Apr. 8, 1983; minimum daily, 7 tons Nov. 11-13, 1969.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 479 mg/L Feb. 22; minimum daily mean, 21 mg/L Nov. 20.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 21,000 tons March 2; minimum daily, 114 tons Nov. 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990											
16...	1100	1870	95	7.03	21.5	15	9.9	9.2	2.5	K80	88
FEB 1991											
26...	1030	50000	42	6.45	--	80	40	8.1	--	K220	220
MAY											
16...	1015	64600	41	7.17	23.0	80	30	6.6	0.9	58	180
AUG											
06...	1100	3970	67	6.87	29.5	60	20	9.1	2.8	140	100

DATE	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CaCO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 1990											
16...	14	3.8	1.0	13	1.9	22	11	7.3	0.1	7.6	57
FEB 1991											
26...	10	2.5	0.80	3.2	2.0	6	--	2.9	<0.1	6.6	35
MAY											
16...	12	3.2	0.91	2.3	1.5	12	3.8	2.3	<0.1	6.0	32
AUG											
06...	15	4.3	1.1	6.6	1.7	18	6.1	5.4	<0.1	5.9	49

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)
OCT 1990											
16...	59	<0.01	<0.10	<0.01	<0.010	0.4	0.01	<0.01	<0.01	30	<1
FEB 1991											
26...	--	<0.01	0.14	<0.05	0.03	0.7	0.07	0.02	0.01	<10	<1
MAY											
16...	27	<0.01	0.19	0.08	0.07	0.7	0.10	0.04	0.04	100	<1
AUG											
06...	41	<0.01	0.09	0.03	0.03	0.9	0.10	0.02	<0.01	60	1

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990											
16...	22	<0.5	<1	<1	<3	1	170	1	<4	3	<0.1
FEB 1991											
26...	28	<0.5	<1	<1	<3	3	280	2	<4	85	<0.1
MAY											
16...	28	<0.5	<1	<1	<3	5	420	2	<4	38	<0.1
AUG											
06...	24	<0.5	<1	1	<3	3	460	4	<4	12	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990										
16...	<10	<1	<1	<1	34	<6	<3	34	172	100
FEB 1991										
26...	<10	2	<1	<1	19	<6	<3	--	--	--
MAY										
16...	<10	2	<1	<1	27	<6	6	--	--	--
AUG										
06...	<10	4	<1	<1	36	<6	3	37	397	100

< Actual value is known to be less than the value shown.

02489500 PEARL RIVER NEAR BOGALUSA, LA--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAY	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	39	196	34	168	43	359	191	6650	189	7680	236	19600
2	39	195	33	163	39	306	176	6300	199	8260	245	21000
3	38	194	33	161	61	594	168	6340	158	6160	194	16300
4	40	209	33	162	154	2310	130	4960	115	3930	200	17000
5	41	226	32	160	93	1390	106	4040	103	3100	188	15900
6	42	233	31	156	52	666	122	4320	165	6650	164	13800
7	39	214	28	146	56	729	94	3060	263	13100	163	13600
8	40	221	25	128	51	610	80	2260	293	15600	151	12300
9	39	209	26	141	41	429	74	1770	252	13500	119	9280
10	38	198	31	193	35	336	75	1740	191	9150	154	11200
11	35	187	29	201	36	342	91	2700	123	4810	169	11500
12	40	210	30	193	39	351	134	4660	93	3100	149	9460
13	38	197	31	197	34	274	214	8320	75	2130	144	8910
14	37	191	29	193	34	254	256	10400	63	1640	147	8570
15	37	188	28	178	33	235	164	6400	54	1290	156	8180
16	36	181	30	179	33	231	98	3140	51	1060	179	7420
17	36	179	29	167	34	234	72	1900	53	932	166	5520
18	37	183	29	161	31	202	63	1510	46	773	113	3370
19	36	176	27	147	30	198	65	1550	44	739	88	2460
20	34	169	21	114	28	188	65	1650	52	1010	75	1970
21	32	160	23	127	27	175	100	2980	375	14800	65	1530
22	30	158	24	130	26	167	124	3840	479	25900	59	1250
23	33	191	23	124	30	212	79	2210	343	22400	55	1060
24	36	205	23	126	45	398	64	1480	288	22100	50	921
25	35	192	24	131	138	2290	76	2060	263	21300	44	792
26	34	181	24	131	287	7190	103	3210	261	21500	40	684
27	32	167	23	127	254	6910	139	4640	261	21100	39	629
28	31	159	26	151	187	5230	98	3080	247	19500	41	637
29	31	156	34	247	150	4290	74	2170	---	---	47	736
30	33	164	42	361	160	4920	75	2200	---	---	57	1030
31	32	160	---	---	189	6220	121	4320	---	---	119	3230
TOTAL	---	5849	---	4963	---	48240	---	115860	---	273214	---	313359
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	312	11300	109	11700	123	5950	54	1060	37	446	47	461
2	355	14800	134	14400	124	6090	48	828	48	640	50	492
3	274	12900	123	13200	141	6790	54	910	54	734	64	693
4	226	11500	94	10300	131	6380	61	1160	47	594	58	694
5	197	10500	100	11000	137	6920	46	839	48	567	60	766
6	173	9380	128	14900	134	6870	71	1690	46	488	63	892
7	162	8880	97	11300	133	6980	97	2940	41	397	56	729
8	165	9110	105	12400	114	6040	128	4640	43	385	48	586
9	158	8720	175	21500	102	5170	85	2900	44	379	47	558
10	137	7570	116	14400	93	4450	62	1750	45	397	44	499
11	113	5920	98	12400	101	3960	57	1380	45	403	42	439
12	117	5330	92	11200	115	3440	54	1170	44	396	46	451
13	119	4170	94	11100	105	2640	53	1020	48	419	39	344
14	365	14500	97	10700	127	3660	46	782	48	442	38	305
15	352	17900	92	10000	89	2620	45	651	53	466	38	286
16	215	12900	83	8200	63	1630	40	500	47	384	33	240
17	185	12500	100	9240	57	1190	37	428	41	319	33	233
18	180	13900	100	8470	59	1170	43	496	39	295	35	244
19	194	16000	96	7730	66	1420	32	371	39	294	34	241
20	206	17300	110	7890	81	2070	28	319	39	290	33	242
21	197	16800	131	8690	69	1820	29	336	34	246	35	258
22	165	13900	132	8150	64	1660	33	402	31	220	38	277
23	166	14300	134	7700	73	1960	32	364	28	194	41	296
24	184	16300	133	6340	68	1830	36	425	28	194	49	383
25	165	14800	129	5320	73	2030	31	342	30	204	68	728
26	131	12400	119	4770	73	2050	30	310	29	198	76	1180
27	166	15800	106	4170	70	1960	34	345	33	231	90	1420
28	137	12700	109	4280	70	1980	33	324	38	289	104	1900
29	151	14500	121	4870	72	1910	33	331	43	370	84	1510
30	147	15500	143	6240	64	1430	34	362	44	407	65	953
31	---	---	138	6430	---	---	33	358	47	471	---	---
TOTAL	---	372080	---	298990	---	104070	---	29733	---	11759	---	18300

PEARL RIVER BASIN

02490500 BOGUE CHITTO NEAR TYLERTOWN, MS

LOCATION.--Lat 31°10'37", long 90°16'48", in SE 1/4 sec.34, T.3 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mi upstream from Bars Branch, 2.2 mi downstream from Topisaw Creek, and 9.2 mi northwest of Tylertown.

DRAINAGE AREA.--492 mi².

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1504: 1945(P), 1946(M), 1947-51, 1953. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Telemeter and satellite telemeter at station.

AVERAGE DISCHARGE.--47 years, 810 ft³/s, 22.36 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,200 ft³/s, Apr. 7, 1983, gage height, 34.62 ft, minimum, 175 ft³/s Oct. 31, 1963, minimum gage height, 5.93 ft, Sept. 30, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1936 reached a stage about 0.1 ft higher than the flood of Apr. 7, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Feb. 6	1400	9,340	17.23	Apr. 30	1000	*18,200	*21.52
Feb. 22	1030	11,200	18.85	May 5	0300	10,300	18.21
Apr. 16	0130	8,540	15.79				

Outside gage.

Minimum daily discharge, 235 ft³/s, Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252	246	364	363	3080	1110	587	13900	728	372	373	411
2	250	246	338	383	2140	2480	472	5920	554	379	360	462
3	253	247	506	969	1080	3070	429	3210	447	502	355	512
4	273	248	657	1960	821	2820	410	5870	438	806	357	456
5	267	259	608	1920	3300	1860	397	8310	408	692	355	422
6	271	260	425	1100	7390	1120	438	5130	387	540	349	400
7	268	265	381	636	4840	890	421	3640	626	583	352	458
8	255	263	372	551	3910	748	420	3320	775	816	348	1010
9	252	310	360	495	1930	653	415	5000	491	861	395	840
10	250	335	344	734	1090	588	462	5340	389	548	387	521
11	245	349	328	2290	849	545	664	5530	396	435	376	421
12	246	301	322	2410	717	527	999	4040	497	396	364	383
13	246	277	321	2190	657	517	2210	2600	1690	378	372	365
14	247	266	318	1110	677	496	3040	1190	1800	367	352	356
15	246	263	337	695	646	478	6590	833	1080	361	348	352
16	243	261	344	677	568	475	7320	684	617	355	345	347
17	244	261	322	682	550	607	5840	593	485	351	342	343
18	245	258	327	595	549	695	3080	612	598	348	341	350
19	238	258	332	1370	690	672	2200	698	1440	392	336	423
20	235	262	335	2160	4630	558	4280	686	826	386	332	503
21	251	267	336	2130	9290	498	3010	586	760	393	328	447
22	292	269	331	1270	10600	470	2600	556	870	496	328	380
23	282	275	491	704	7610	452	1620	520	614	394	325	365
24	278	278	925	1240	4720	462	1760	492	769	383	322	429
25	259	281	635	2720	2760	423	1950	504	593	370	333	795
26	249	283	431	2560	1430	407	1280	864	502	367	329	1240
27	246	284	381	2110	1060	401	1390	1280	462	360	377	1160
28	246	379	361	1100	899	396	2630	1050	418	370	400	568
29	247	792	363	1090	---	461	6390	1090	388	378	440	437
30	246	522	363	4410	---	1170	16900	1070	388	388	427	400
31	247	---	371	4580	---	950	---	788	---	411	412	---
TOTAL	7869	9065	12629	47204	78483	26999	80204	85906	20436	14178	11160	15556
MEAN	254	302	407	1523	2803	871	2673	2771	681	457	360	519
MAX	292	792	925	4580	10600	3070	16900	13900	1800	861	440	1240
MIN	235	246	318	363	549	396	397	492	387	348	322	343
CFSM	.52	.61	.83	3.10	5.70	1.77	5.43	5.63	1.38	.93	.73	1.06
IN.	.59	.69	.95	3.57	5.93	2.04	6.06	6.50	1.55	1.07	.84	1.18
CAL YR 1990	TOTAL 426943		MEAN 1170	MAX 38300	MIN 235	CFSM 2.38	IN 32.28					
WTR YR 1991	TOTAL 409689		MEAN 1122	MAX 16900	MIN 235	CFSM 2.28	IN 30.98					

02491500 BOGUE CHITTO AT FRANKLINTON, LA

LOCATION.--Lat 30°50'34", long 90°09'43", in SE 1/4 SE 1/4 sec.26, T.2 S., R.10 E., Washington Parish, Hydrologic Unit 03180005, at bridge on State Highway 10, 0.8 mi west of Franklinton, and 3.5 mi upstream from Lawrence Creek.

DRAINAGE AREA.--990 mi².

PERIOD OF RECORD.--August 1928 to September 1931, October 1938 to September 1957. February to September 1975, July 1976 to current year (gage heights and discharge measurements). Gage-height records collected in this vicinity since 1922 are contained in reports of the National Weather Service.

REVISED RECORDS.--WDR LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 123.81 ft above National Geodetic Vertical Datum of 1929. August 1928 to September 1931, nonrecording gage at site about 0.2 mi downstream. October 1938 to September 1957, nonrecording gage; February to September 1975 and since July 1976 water-stage recorder at present site. Prior to September 1931 at datum 2.00 ft higher; October 1938 to September 1957 and February to September 1975 at datum 1.00 ft higher.

AVERAGE DISCHARGE.--22 years (water years 1929-31, 1939-57), 1,596 ft³/s, 22.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 125,000 ft³/s, Apr. 7, 1983, gage height, 24.69 ft; minimum discharge, 350 ft³/s, Nov. 6-8, 1938; minimum gage height, not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1900 reached a stage of 28.6 ft, at former site and present datum, from floodmark.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 19,500 ft³/s, May 1, gage height, 14.39 ft; minimum gage height, 0.72 ft, Oct. 20.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	.77	1.27	1.05	6.90	3.15	1.78	14.16	3.97	1.46	1.08	1.22
2	.74	.77	1.11	1.03	5.04	5.17	1.41	12.36	2.79	1.48	1.01	1.18
3	.74	.77	2.94	1.36	3.46	5.70	1.27	7.40	2.17	1.71	1.02	1.31
4	.83	.77	2.85	2.57	2.66	5.55	1.20	7.57	1.91	2.74	.99	1.37
5	1.01	.82	1.84	2.98	6.31	4.66	1.15	11.73	1.97	2.69	.97	1.22
6	.83	.84	1.53	2.82	13.59	3.49	1.12	10.85	1.87	2.37	1.02	1.17
7	.83	.82	1.31	2.04	11.72	2.81	1.11	7.46	2.16	3.00	.98	1.16
8	.81	.82	1.25	1.63	7.76	2.45	1.26	6.51	2.32	4.09	.97	1.78
9	.81	1.12	1.18	1.48	5.58	2.17	1.22	8.96	2.07	2.82	1.02	1.99
10	1.17	1.27	1.13	1.97	3.65	1.94	1.67	11.24	1.70	2.31	1.05	1.65
11	.98	1.09	1.07	4.40	2.93	1.81	1.92	12.67	1.74	1.77	.99	1.19
12	.84	1.04	1.03	4.48	2.49	1.72	2.12	8.97	1.73	1.52	1.10	1.02
13	.82	.93	1.01	3.88	2.23	1.70	2.81	6.40	2.98	1.38	.99	.93
14	.80	.87	1.00	3.29	2.16	1.62	4.24	4.44	5.27	1.30	.95	.88
15	.79	.85	.98	2.25	2.01	1.54	7.81	3.40	4.29	1.25	.92	.85
16	.78	.84	1.01	2.03	1.82	1.53	8.65	2.90	2.96	1.20	.91	.83
17	.77	.83	1.00	1.89	1.72	2.18	8.17	2.62	2.10	1.17	.89	.81
18	.77	.81	1.02	1.79	1.68	2.18	6.57	2.87	2.03	1.15	.87	.80
19	.75	.81	1.17	2.37	1.74	2.00	4.56	2.79	2.75	1.13	.86	1.25
20	.73	.82	1.07	3.39	5.74	1.80	5.35	2.57	3.21	1.22	.84	1.14
21	.78	.81	1.04	3.57	11.03	1.62	6.00	2.46	2.82	1.21	.81	1.17
22	1.20	.82	1.09	3.24	12.58	1.54	4.71	2.35	2.59	1.31	.78	1.01
23	1.08	.85	1.23	2.23	12.59	1.49	4.41	2.16	2.51	1.32	.78	.95
24	.96	.85	1.54	3.08	9.79	1.41	3.46	2.18	3.22	1.33	.77	1.67
25	.89	.85	1.79	4.83	6.53	1.34	4.27	2.79	2.79	1.17	.78	3.10
26	.83	.85	1.39	4.74	4.21	1.29	4.13	3.69	2.19	1.11	.82	2.71
27	.80	.85	1.18	4.29	3.21	1.26	3.19	3.95	2.23	1.08	.87	2.57
28	.80	1.16	1.10	3.55	2.73	1.23	3.69	4.00	2.00	1.08	1.17	1.91
29	.79	1.67	1.08	2.90	---	1.47	6.16	4.49	1.73	1.21	1.13	1.26
30	.78	1.63	1.07	5.41	---	2.00	12.47	4.63	1.54	1.14	1.21	1.05
31	.78	---	1.07	7.93	---	2.40	---	4.05	---	1.11	1.46	---
MAX	1.20	1.67	2.94	7.93	13.59	5.70	12.47	14.16	5.27	4.09	1.46	3.10
MIN	.73	.77	.98	1.03	1.68	1.23	1.11	2.16	1.54	1.08	.77	.80

PEARL RIVER BASIN

02492000 BOGUE CHITTO NEAR BUSH, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°37'45", long 89°53'50", in SE 1/4 NE 1/4 sec.42, T.5 S., R.13 E., St. Tammany Parish, Hydrologic Unit 03180005, near center of span on downstream side of bridge on State Highway 21, 0.2 mi downstream from Illinois Central Gulf Railroad bridge, and 1.4 mi north of Bush.

DRAINAGE AREA.--1,213 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WDR LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 44.25 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 22, 1954, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 7	1941	21,700	12.80	May 2	2217	*22,400	*12.98
Feb. 23	2307	19,900	12.54	May 7	0219	17,500	12.17
Apr. 18	0940	11,000	11.03	May 12	1052	21,000	12.70

CORRECTIONS.--The figures of average discharge and runoff published in the following WDR LA-83-3, LA-84-1, LA-85-1, LA-86-1, LA-87-1, LA-88-1, LA-89-1, and LA-90-1 reports were published in error: the correct figures are 46 years, 1,955 ft³/s, 21.89 in/yr; 47 years, 1,953 ft³/s, 21.86 in/yr; 48 years, 1,950 ft³/s, 21.83 in/yr; 49 years, 1,941 ft³/s, 21.73 in/yr; 50 years, 1,955 ft³/s, 21.89 in/yr; 51 years, 1,955 ft³/s, 21.89 in/yr; 52 years, 1,958 ft³/s, 21.92 in/yr; 53 years, 1,981 ft³/s, 22.18 in/yr.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	697	695	1190	888	8370	3750	1940	15700	4160	1670	924	1410
2	692	694	1030	876	9010	6050	1620	21300	3650	1510	899	1230
3	698	692	1270	918	6290	7020	1400	20100	2710	1530	872	1130
4	705	692	2740	1180	3810	7570	1290	13100	2150	1830	863	1140
5	748	706	2820	1860	3000	7140	1250	9540	1920	2250	858	1140
6	768	721	1700	2150	7150	5660	1220	14900	1920	2390	895	1090
7	724	723	1290	2170	19200	4060	1210	16600	1880	2900	876	1100
8	723	713	1120	1680	19000	3040	1270	12300	2020	5180	861	1320
9	713	776	1050	1340	12300	2580	1370	10300	2060	5820	862	1500
10	716	963	982	1340	7660	2300	1450	14000	1880	3640	882	1470
11	832	971	940	2740	4370	2110	1800	18100	1750	2240	886	1260
12	768	858	905	4630	2920	1980	1880	20100	1820	1660	867	1060
13	726	818	883	4920	2390	1910	1900	15100	1900	1410	900	977
14	713	771	870	3990	2180	1840	2250	9680	3180	1280	866	932
15	706	744	853	3020	2100	1740	3750	6210	4870	1200	845	905
16	702	732	844	2170	1950	1660	6970	4190	4350	1140	832	890
17	699	728	854	1860	1820	1880	10100	3300	2850	1110	823	877
18	697	719	848	1690	1730	2340	10800	2970	2090	1130	813	870
19	690	711	886	1740	1690	2190	9270	3130	1940	1170	805	893
20	682	711	945	2250	1980	1940	6480	2930	2320	1130	799	1080
21	681	713	893	2770	4250	1760	5240	2710	2490	1110	789	1030
22	763	714	884	2880	12200	1620	6140	2680	2310	1070	777	1030
23	926	721	1120	2560	19200	1540	5160	2520	2220	1110	770	965
24	849	728	1240	2230	19300	1480	4320	2290	2520	1070	769	1010
25	781	728	1290	3410	15300	1410	3650	2340	3300	1050	766	1420
26	744	727	1300	4700	9770	1350	4190	3040	2710	982	772	2100
27	718	729	1080	4810	5760	1320	4670	4180	2250	954	826	1970
28	710	783	969	4190	3660	1290	3750	4590	2570	930	905	1840
29	704	1120	928	3440	---	1350	3980	4260	2480	961	1020	1480
30	700	1280	909	3830	---	1650	7310	4940	2050	997	998	1180
31	697	---	898	5390	---	1870	---	4760	---	946	1240	---
TOTAL	22672	23381	35531	83622	208360	85400	117630	271860	76320	53370	26860	36299
MEAN	731	779	1146	2697	7441	2755	3921	8770	2544	1722	866	1210
MAX	926	1280	2820	5390	19300	7570	10800	21300	4870	5820	1240	2100
MIN	681	692	844	876	1690	1290	1210	2290	1750	930	766	870
CFSM	.60	.64	.94	2.22	6.13	2.27	3.23	7.23	2.10	1.42	.71	1.00
IN.	.70	.72	1.09	2.56	6.39	2.62	3.61	8.34	2.34	1.64	.82	1.11

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	914	1223	2250	2770	3471	3263	3280	2208	1384	1253	1119	1029
MAX	2772	4298	7751	9596	10230	9284	14640	8770	5387	4020	3024	2597
(WY)	1985	1962	1962	1990	1966	1943	1983	1991	1975	1946	1953	1971
MIN	422	484	689	703	852	1026	722	592	565	556	565	503
(WY)	1969	1970	1940	1956	1968	1967	1963	1963	1963	1968	1963	1969

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1939 - 1991	
ANNUAL TOTAL	1084384		1041305			
ANNUAL MEAN	2971		2853			
HIGHEST ANNUAL MEAN					1995	
LOWEST ANNUAL MEAN					3697	
HIGHEST DAILY MEAN	57200	Jan 27	21300	May 2	126000	Apr 8 1983
LOWEST DAILY MEAN	681	Oct 21	681	Oct 21	369	Oct 26 1968
ANNUAL SEVEN-DAY MINIMUM	694	Oct 15	694	Oct 15	382	Oct 25 1968
INSTANTANEOUS PEAK FLOW			224000	May 2	132000	Apr 8 1983
INSTANTANEOUS PEAK STAGE			12.90	May 2	21.22	Apr 8 1983
INSTANTANEOUS LOW FLOW			679	Oct 20,21	366	Oct 22,23,26,29 1968
INSTANTANEOUS LOW STAGE			3.66	Oct 20,21	0.7	Oct 1 1937 Oct 29-31 1940 Oct 22-27 1941
ANNUAL RUNOFF (CFSM)	2.45		2.35		1.65	
ANNUAL RUNOFF (INCHES)	33.26		31.93		22.35	
10 PERCENT EXCEEDS	6870		6240		3870	
50 PERCENT EXCEEDS	1250		1470		1130	
90 PERCENT EXCEEDS	720		727		633	

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.71	3.71	4.94	4.22	10.41	8.32	6.10	11.86	8.70	5.61	4.35	5.28
2	3.70	3.70	4.57	4.19	10.57	9.71	5.51	12.75	8.31	5.28	4.29	4.88
3	3.71	3.70	5.11	4.30	9.78	10.05	5.05	12.56	7.32	5.33	4.22	4.65
4	3.73	3.70	7.45	4.92	8.39	10.21	4.84	11.41	6.48	5.90	4.20	4.68
5	3.85	3.74	7.57	6.27	7.66	10.08	4.73	10.70	6.07	6.65	4.19	4.66
6	3.91	3.78	5.98	6.74	9.91	9.54	4.67	11.73	6.08	6.88	4.28	4.55
7	3.79	3.78	5.16	6.77	12.42	8.61	4.64	12.02	6.01	7.50	4.23	4.55
8	3.79	3.76	4.78	5.95	12.41	7.73	4.79	11.28	6.26	9.30	4.19	5.05
9	3.76	3.93	4.61	5.27	11.27	7.16	5.00	10.87	6.32	9.61	4.18	5.41
10	3.76	4.41	4.46	5.27	10.21	6.74	5.16	11.58	6.00	8.30	4.23	5.34
11	4.08	4.43	4.35	7.40	8.81	6.42	5.85	12.27	5.76	6.88	4.23	4.90
12	3.91	4.15	4.27	9.01	7.58	6.18	6.01	12.58	5.88	5.96	4.17	4.44
13	3.79	4.04	4.21	9.19	6.88	6.05	6.03	11.77	6.04	5.47	4.25	4.23
14	3.76	3.91	4.18	8.58	6.53	5.92	6.63	10.72	7.80	5.18	4.16	4.11
15	3.74	3.84	4.13	7.74	6.38	5.74	8.34	9.74	9.15	5.00	4.10	4.04
16	3.73	3.81	4.11	6.65	6.12	5.58	9.98	8.71	8.82	4.87	4.06	3.99
17	3.72	3.80	4.13	6.13	5.88	5.99	10.84	8.00	7.48	4.80	4.03	3.95
18	3.71	3.77	4.12	5.81	5.72	6.79	10.97	7.65	6.37	4.84	3.99	3.92
19	3.69	3.75	4.22	5.90	5.63	6.54	10.63	7.83	6.10	4.94	3.96	3.97
20	3.67	3.75	4.37	6.77	6.15	6.11	9.85	7.60	6.76	4.84	3.94	4.41
21	3.67	3.76	4.23	7.49	8.66	5.77	9.36	7.34	7.05	4.81	3.90	4.29
22	3.89	3.76	4.21	7.62	11.18	5.50	9.75	7.30	6.75	4.71	3.87	4.29
23	4.32	3.78	4.77	7.22	12.43	5.34	9.31	7.08	6.60	4.79	3.84	4.13
24	4.12	3.80	5.06	6.74	12.45	5.22	8.82	6.71	7.06	4.71	3.83	4.22
25	3.94	3.80	5.17	8.09	11.81	5.07	8.31	6.79	8.00	4.66	3.81	5.14
26	3.84	3.79	5.19	9.06	10.74	4.97	8.72	7.73	7.32	4.50	3.83	6.41
27	3.77	3.80	4.69	9.12	9.55	4.89	9.04	8.71	6.66	4.43	3.96	6.19
28	3.75	3.95	4.42	8.72	8.30	4.83	8.39	8.99	7.15	4.37	4.16	5.94
29	3.73	4.78	4.32	8.12	---	4.95	8.54	8.77	7.02	4.45	4.43	5.24
30	3.72	5.14	4.28	8.42	---	5.55	10.08	9.20	6.29	4.53	4.38	4.58
31	3.71	---	4.25	9.40	---	5.98	---	9.10	---	4.41	4.93	---
MAX	4.32	5.14	7.57	9.40	12.45	10.21	10.97	12.75	9.15	9.61	4.93	6.41
MIN	3.67	3.70	4.11	4.19	5.63	4.83	4.64	6.71	5.76	4.37	3.81	3.92

PEARL RIVER BASIN

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953-55, 1965-68, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: October 1974 to September 1981.

INSTRUMENTATION.--Water-quality monitor October 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 402 micromhos July 11, 1976; minimum, 13 micromhos Feb. 10, 1981.

WATER TEMPERATURES: Maximum, 33.0 °C June 26, 1977, July 24, 25, 1981; minimum, 5.0 °C Jan. 19, 20, 1977, Jan. 20, 21, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)
OCT 1990											
16...	1230	42	7.2	21.0	5	5.5	8.7	0.8	K90	K20	8
DEC											
14...	1100	42	7.0	15.5	10	9.0	11.4	3.1	490	88	9
FEB 1991											
26...	1230	30	6.5	--	60	3.5	8.3	--	300	180	7
APR											
11...	0950	44	7.1	22.0	40	17	7.9	1.2	310	280	9
JUN											
25...	1100	31	6.7	26.5	40	28	6.9	1.7	1000	760	8
SEP											
04...	1115	43	6.9	27.0	20	13	7.7	1.2	210	400	8

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 1990										
16...	1.7	0.79	4.1	1.2	10	1.1	5.2	0.1	12	20
DEC										
14...	2.2	0.91	4.0	1.2	11	1.4	5.6	<0.1	12	37
FEB 1991										
26...	1.6	0.70	2.2	1.6	7	1.2	2.8	--	6.9	25
APR										
11...	2.0	0.89	3.8	1.3	9	1.2	6.0	<0.1	9.5	28
JUN										
25...	1.8	0.80	2.3	1.5	8	1.0	3.4	<0.1	7.5	25
SEP										
04...	1.9	0.87	4.1	1.4	9	1.7	6.0	<0.1	12	32

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 1990										
16...	32	<0.01	0.10	<0.01	<0.01	0.3	0.02	<0.01	--	<0.01
DEC										
14...	34	<0.01	0.30	0.03	0.03	0.2	0.04	0.03	0.02	0.01
FEB 1991										
26...	21	<0.01	0.17	0.04	0.02	1.3	0.07	0.02	0.01	0.02
APR										
11...	32	<0.01	0.35	0.11	0.12	0.8	0.07	0.01	0.01	0.01
JUN										
25...	23	<0.01	0.29	0.07	0.07	0.5	0.09	0.04	0.05	0.02
SEP										
04...	34	<0.01	0.26	0.04	0.03	0.3	0.07	0.03	<0.01	<0.01

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

02492000 BOGUE CHITTO NEAR BUSH, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)
OCT 1990 16...	50	<1	23	<0.5	<1	<1	<3	1	270	1
FEB 1991 26...	140	<1	31	0.9	2	<1	<3	4	200	3
APR 11...	70	<1	33	<0.5	<1	1	<3	2	290	1
SEP 04...	30	<1	28	<0.5	<1	<1	<3	2	210	<1

DATE	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)
OCT 1990 16...	<4	44	<0.1	<10	<1	<1	<1	19	<6	<3
FEB 1991 26...	<4	33	<0.1	<10	4	<1	<1	16	<6	11
APR 11...	<4	40	<0.1	<10	1	<1	<1	23	<6	11
SEP 04...	<4	44	<0.1	<10	4	<1	<1	22	<6	5

DATE	DIS- CHARGE, IN CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 16...	702	19	36	94
DEC 14...	870	19	45	98
FEB 1991 26...	9770	57	1500	94
APR 11...	1740	33	155	94
JUN 25...	3300	91	811	94
SEP 04...	1140	41	126	89

< Actual value is known to be less than the value shown.

PEARL RIVER BASIN

02492600 PEARL RIVER AT PEARL RIVER, LA

LOCATION.--Lat 30°23'06", long 89°44'12", in NW 1/4 NW 1/4 sec.6, T.8 S., R.15 E., St. Helena Meridian, St. Tammany Parish, Hydrologic Unit 03180004, on left bank on downstream side of Norfolk and Southern Railroad bridge over West Pearl River, 700 ft upstream from Interstate Highway 59, and 0.8 mi northeast of town of Pearl River.

DRAINAGE AREA.--8,494 mi², includes East Pearl River.

PERIOD OF RECORD.--October 1963 to September 1970. October 1975 to current year (gage heights and discharge measurements only). Daily discharge records October 1961 to September 1963 and gage heights only October 1970 to September 1975 in files of Corps of Engineers, Mobile District. Gage-height records since June 1906 are in reports of National Weather Service and gage-height records October 1899 to May 1906 (collected by Southern Railway System) are in files of National Weather Service, Meridian, Miss.

REVISED RECORDS.--WDR LA-1981-2: 1980(M): Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.05 ft below National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers, Mobile District). Prior to September 1970, supplemental gage located on East Pearl River at different datum for the determination of daily mean discharge for the entire flood plain.

REMARKS.--Records of daily discharge are the combined flow of the entire flood plain of the West and East Pearl Rivers. Records since October 1975 represent stages for the West Pearl River only.

AVERAGE DISCHARGE.--7 years (water years 1964-70) 9,470 ft³/s, 14.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 230,000 ft³/s, Apr. 9, 1983, gage height, 21.05 ft; minimum daily discharge, 1,580 ft³/s, Oct. 24, Nov. 10, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed since October 1899 is that of Apr. 9, 1983. Flood of 1874 reached a stage of 20.2 ft, furnished by Corps of Engineers. Southern Railway System reported a stage of 19.7 ft, Apr. 19, 1900.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 121,000 ft³/s, May 12, gage height, 18.46 ft; minimum gage height, 3.01 ft, Oct. 14.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.06	3.97	4.96	10.64	13.00	16.44	9.38	17.12	13.56	10.78	6.82	7.01
2	3.87	3.99	5.00	10.94	13.34	16.30	10.30	17.32	13.65	10.02	6.97	7.20
3	3.98	4.03	5.96	11.34	13.76	16.43	11.51	17.60	13.71	9.42	7.26	7.00
4	4.12	4.06	6.15	11.65	13.70	16.48	12.36	17.58	13.65	9.00	7.45	7.00
5	4.02	4.10	6.63	11.88	13.27	16.47	12.92	17.49	13.51	9.17	7.41	7.21
6	4.06	4.03	8.40	12.10	12.89	16.45	13.20	17.43	13.56	9.79	7.23	7.41
7	4.22	4.00	8.23	12.77	13.12	16.38	13.48	17.58	13.63	10.51	7.05	7.78
8	4.25	4.03	7.62	12.43	14.62	16.25	13.68	17.79	13.67	12.06	6.77	7.87
9	4.14	4.32	7.29	11.81	15.45	16.08	13.70	17.93	13.73	12.92	6.48	7.77
10	3.92	4.30	6.88	11.18	15.38	15.94	13.80	18.15	13.81	13.29	6.24	7.73
11	3.98	4.55	6.49	11.31	14.87	15.76	13.86	18.34	13.86	12.69	6.19	7.57
12	3.93	4.87	6.27	11.51	14.15	15.54	13.98	18.41	13.43	11.53	6.21	7.22
13	3.54	4.83	6.12	12.05	13.15	15.30	13.70	18.34	12.67	10.52	6.18	6.85
14	3.60	4.72	5.87	12.36	12.26	15.03	13.25	17.96	11.68	9.81	6.15	6.50
15	3.69	4.73	5.60	12.54	11.44	14.71	12.80	17.55	11.26	9.25	6.15	6.15
16	3.72	4.74	5.40	12.56	10.80	14.35	13.40	17.27	11.77	8.69	6.16	5.87
17	3.98	4.62	5.28	12.42	10.34	13.92	14.30	17.05	11.84	8.11	5.98	5.67
18	4.02	4.48	5.22	11.74	9.80	13.14	15.42	16.87	11.26	7.71	5.78	5.55
19	3.97	4.40	5.12	10.98	9.27	12.30	16.20	16.66	10.35	7.56	5.64	5.68
20	4.00	4.31	5.12	10.56	9.03	11.64	16.25	16.41	9.90	7.55	5.55	5.70
21	4.01	4.30	5.18	10.51	9.30	11.08	16.33	16.17	10.09	7.49	5.48	5.75
22	4.17	4.30	5.19	10.79	11.42	10.60	16.35	15.85	10.53	7.38	5.39	5.78
23	4.20	4.31	5.18	11.27	13.98	10.14	16.42	15.49	10.65	7.39	5.30	5.86
24	4.42	4.29	5.31	11.50	15.61	9.69	16.50	15.02	10.72	7.38	5.27	5.75
25	4.35	4.28	5.91	11.50	16.22	9.32	16.62	14.45	11.02	7.31	5.26	6.00
26	4.16	4.31	6.93	11.34	16.48	9.08	16.66	13.95	11.25	7.21	5.22	6.77
27	4.07	4.37	8.16	11.76	16.45	8.89	16.68	13.64	11.39	6.95	5.38	8.01
28	4.01	4.46	9.34	12.26	16.29	8.66	16.70	13.52	11.42	6.80	5.66	8.50
29	4.00	4.64	10.21	12.50	---	8.46	16.81	13.44	11.42	6.70	5.78	8.69
30	3.99	4.96	10.27	12.72	---	8.44	16.92	13.32	11.34	6.67	6.08	8.75
31	4.00	---	10.36	12.95	---	8.72	---	13.40	---	6.76	6.54	---
MAX	4.42	4.96	10.36	12.95	16.48	16.48	16.92	18.41	13.86	13.29	7.45	8.75
MIN	3.54	3.97	4.96	10.51	9.03	8.44	9.38	13.32	9.90	6.67	5.22	5.55

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS

LOCATION.--Lat 31°00'30", long 91°37'25", in lot 6, T. 1 N., R. 5 2., Wilkinson County, Hydrologic Unit 08060100, near left bank at Tarbert Landing, 2.5 mi upstream from Lower Old River, 8.2 mi downstream from inlet channel to Old River Control Structure, and at river mile 306.3.

DRAINAGE AREA.--1,124,900 mi², contributing.

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

REMARKS.--Records for the 1991 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

COOPERATION.--Samples for suspended-sediment analysis are collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 01100.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 2,490,000 tons Jan. 14, 1985; minimum daily, 18,000 tons Aug. 14, 15, 17, 18, 1988.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1989					
16...	1115	348000	92	86300	96
30...	1115	330000	170	151000	81
NOV					
13...	1115	259000	167	117000	94
27...	1115	366000	130	129000	96
DEC					
11...	1115	280000	104	78600	98
26...	1115	189000	83	42100	96
JAN 1990					
09...	1115	301000	407	331000	93
22...	1115	523000	421	594000	92
FEB					
08...	1115	825000	420	937000	78
22...	1115	1020000	207	573000	76
MAR					
05...	1115	1040000	126	354000	80
19...	1115	886000	126	300000	93
APR					
02...	1115	978000	150	396000	89
16...	1115	798000	174	375000	80
30...	1115	766000	--	--	--
MAY					
14...	1115	930000	378	948000	90
29...	1115	952000	331	850000	55
JUN					
11...	1115	1080000	121	354000	92
25...	1115	884000	258	615000	85
JUL					
09...	1115	636000	496	852000	92
23...	1115	471000	195	247000	87
AUG					
06...	1115	412000	197	219000	91
22...	1100	330000	174	155000	93
SEP					
04...	1100	341000	163	150000	90
17...	1100	325000	118	103000	90

LOWER MISSISSIPPI RIVER BASIN

07295100 MISSISSIPPI RIVER AT TARBERT LANDING, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120000	172000	132000	76000	796000	425000	396000	689000	713000	695000	248000	144000
2	115000	174000	125000	85000	813000	406000	396000	695000	673000	704000	246000	148000
3	113000	169000	119000	104000	813000	391000	397000	703000	628000	732000	245000	149000
4	113000	162000	110000	129000	820000	373000	400000	712000	590000	765000	237000	150000
5	111000	151000	103000	161000	842000	354000	403000	719000	556000	784000	229000	149000
6	109000	140000	97000	182000	868000	358000	402000	726000	518000	814000	219000	142000
7	105000	131000	93000	210000	903000	360000	404000	734000	477000	823000	212000	137000
8	100000	126000	98000	265000	934000	358000	401000	743000	440000	837000	204000	133000
9	96000	121000	90000	330000	908000	347000	393000	762000	409000	851000	197000	129000
10	95000	119000	83000	375000	922000	343000	392000	779000	379000	784000	192000	124000
11	94000	118000	79000	426000	898000	336000	395000	801000	352000	715000	189000	120000
12	93000	117000	76000	467000	874000	328000	389000	818000	378000	647000	185000	112000
13	92000	117000	72000	508000	835000	326000	385000	869000	400000	585000	181000	108000
14	91000	116000	67000	540000	797000	324000	381000	948000	423000	527000	179000	105000
15	89000	110000	65000	564000	765000	319000	376000	968000	447000	476000	176000	111000
16	86000	106000	62000	563000	753000	313000	374000	975000	469000	433000	178000	107000
17	87000	102000	60000	549000	725000	310000	383000	971000	491000	398000	175000	103000
18	88000	101000	58000	528000	688000	306000	394000	960000	508000	359000	172000	108000
19	87000	102000	56000	522000	657000	301000	407000	940000	530000	327000	168000	111000
20	84000	102000	54000	552000	626000	302000	420000	906000	553000	300000	162000	115000
21	82000	102000	53000	580000	594000	305000	437000	874000	573000	276000	158000	117000
22	81000	101000	52000	594000	571000	308000	458000	848000	578000	259000	155000	122000
23	81000	102000	49000	601000	548000	314000	483000	824000	584000	248000	148000	126000
24	81000	106000	47000	618000	528000	317000	510000	815000	604000	257000	144000	130000
25	84000	112000	45000	718000	508000	326000	537000	816000	615000	256000	139000	139000
26	90000	121000	42000	733000	487000	340000	569000	816000	633000	261000	136000	147000
27	95000	128000	46000	726000	462000	350000	601000	824000	642000	258000	134000	154000
28	110000	134000	50000	729000	443000	363000	631000	838000	656000	257000	133000	159000
29	129000	136000	55000	747000	---	371000	661000	850000	666000	255000	135000	170000
30	151000	135000	62000	768000	---	382000	692000	802000	681000	250000	136000	181000
31	163000	---	68000	788000	---	391000	---	745000	---	248000	139000	---
TOTAL	3115000	3733000	3456000	14738000	20378000	10347000	13467000	25470000	15666000	15381000	5551000	3950000
MEAN	100000	124000	111000	475000	728000	334000	449000	822000	522000	496000	179000	132000
MAX	163000	174000	1320000	788000	934000	425000	692000	975000	713000	851000	248000	181000
MIN	81000	101000	42000	76000	443000	10000	374000	689000	30000	248000	133000	103000
MED	94000	118000	65000	540000	780000	340000	401000	816000	554000	433000	176000	129000
WTR YR 1990	TOTAL 135252000			MEAN 371000		MAX 1320000		MIN 10000		MED 319000		

07337000 RED RIVER AT INDEX, ARKANSAS
(National stream-quality accounting network station)

LOCATION.--Lat 33°33'07", long 94°02'28", in NW1/4SW1/4 sec.7, T.14 S., R.28 W., Miller County, Hydrologic Unit 11140106, near right bank on downstream side of southbound bridge on U.S. Highway 71 at Index, 2.2 mi south of Ogden, 20.6 mi upstream from Little River, and at mile 485.3.

DRAINAGE AREA.--48,030 mi², of which 5,936 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1936 to current year. Gage-height records collected at same site since 1917 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1939, nonrecording gage, and Dec. 12, 1939, to July 19, 1979, water-stage recorder, at site 500 ft downstream at present datum.

REMARKS.--Water-discharge records good, except for estimated daily discharges, which are fair. Some regulation since Oct. 31, 1943, by Lake Texoma (Texas), 241 mi upstream, capacity, 5,392,900 acre-ft, since Sept. 28, 1967, by Pat Mayse Lake (Texas), capacity, 352,700 acre-ft, and since Jan. 18, 1974, by Hugo Lake (Oklahoma) capacity, 966,700 acre-ft. Satellite telemeter at station.

AVERAGE DISCHARGE.--55 years, 12,520 ft³/s, 9,071,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 297,000 ft³/s Feb. 23, 1938, gage height, 34.25 ft; minimum, 378 ft³/s Nov. 28, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51,400 ft³/s June 17, gage height, 13.58 ft; minimum daily, 2,290 ft³/s Nov. 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9310	3290	3770	e8710	9730	5580	19500	32500	15600	26800	11000	3910
2	6400	2740	4850	e9360	9130	6760	17800	30500	15600	23600	14300	5850
3	6620	2410	9730	e13300	8160	8850	16100	25900	15000	21200	15500	5880
4	6280	2290	12400	e15300	7860	10000	14600	24500	14700	18800	17400	5190
5	5550	2500	12200	e16100	7860	9120	13200	36200	14700	15200	17100	5010
6	4930	2810	9750	e13900	9160	7560	11200	47100	15600	12900	16400	4650
7	4270	2990	8370	e14100	11300	6600	11100	42400	20000	11900	14300	3720
8	4630	3520	8200	17800	12200	7830	13500	36300	32700	10400	12200	3780
9	8430	4420	8680	19800	13000	7740	15000	35200	38200	9480	11700	4290
10	15100	6350	7840	e22600	13000	5780	14700	36200	44600	8970	9990	7810
11	16000	8180	6430	e27500	11400	4410	15500	38100	49700	8580	8620	11000
12	17500	7290	5460	e33100	9640	3840	16900	35700	49400	8310	8070	13800
13	17400	5890	4550	e32500	7810	4060	20900	29800	45100	7870	7920	18900
14	16000	5660	3640	29500	6670	3760	38700	27000	44500	7020	7460	17900
15	14900	5280	3310	27200	5070	3150	47500	24300	45500	6540	5730	14500
16	13400	4180	e4500	22500	4670	2860	45000	21700	48300	6290	4340	11000
17	12300	3400	e3800	18500	5980	2900	39300	20700	51100	6120	4570	8800
18	11500	3030	e3500	17800	6870	3660	34400	21600	50100	5940	4780	7490
19	10200	3690	e3900	19400	8490	4430	35900	20500	47500	5900	4480	5320
20	7840	5010	e4000	24800	10900	4320	39900	18200	45500	5810	4370	5000
21	6880	5450	e4200	27800	10600	4170	39400	16200	48300	5740	4240	17200
22	5150	5840	e10000	28800	9670	3480	37000	15900	50200	5680	4150	25500
23	3580	6210	e14000	26700	12300	3260	36600	16100	49800	5630	3690	24300
24	3200	6040	e13000	23500	14000	4030	35600	16600	49400	5530	3250	24600
25	3350	5680	e12000	20700	12000	7820	34600	14900	50100	5470	3660	31300
26	3650	5940	e11000	18400	8810	14300	33700	13100	43000	5620	3770	31600
27	4140	6260	e12000	16400	6940	19000	33200	14700	36900	5680	3510	26200
28	4480	6200	e11000	14100	5800	21000	38600	13500	36100	6310	3430	22800
29	4020	5230	e9300	12100	---	22100	41200	12400	34200	6490	3710	21700
30	3730	4510	e7800	10900	---	22400	38200	16300	29600	6880	3600	19900
31	3710	---	e7000	10100	---	21400	---	16800	---	8250	3410	---
TOTAL	253450	142290	240180	613270	259020	256170	848800	770900	1131000	294910	240650	408900
MEAN	8176	4743	7748	19780	9251	8264	28290	24870	37700	9513	7763	13630
MAX	17500	8180	14000	33100	14000	22400	47500	47100	51100	26800	17400	31600
MIN	3200	2290	3310	8710	4670	2860	11100	12400	14700	5470	3250	3720
AC-FT	502700	282200	476400	1216000	513800	508100	1684000	1529000	2243000	585000	477300	811100
CAL YR 1990	TOTAL 11356370		MEAN 31110		MAX 268000		MIN 1380		AC-FT 22530000			
WTR YR 1991	TOTAL 5459540		MEAN 14960		MAX 51100		MIN 2290		AC-FT 10830000			

e Estimated.

07344400 RED RIVER NEAR HOSSTON, LA

LOCATION.--Lat 32°53'35", long 93°49'20", in SW 1/4 sec.16, T.22 N., R.14 W., Bossier-Caddo Parish line, Hydrologic Unit 11140202, near left bank on downstream side of bridge on State Highway 2, 1.8 mi downstream from Dry Bayou, and 3.2 mi east of Hosston.

DRAINAGE AREA.--57.041 mi², of which 5.936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (daily gage heights and discharges below 5,000 ft³/s only).

GAGE.--Nonrecording gage read once daily. Datum of gage is 161.56 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Feb. 20, 1962, water-stage recorder at same site and datum.

REMARKS.--No daily discharges published above 5,000 ft³/s. No estimated daily discharges. Regulation since July 1942 by Lake Texoma (capacity, 5,392,000 acre-ft), since July 1953 by Texarkana Reservoir (capacity, 2,654,300 acre-ft), and since August 1966 by Millwood Lake (capacity, 1,854,900 acre-ft). Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years (water years 1958-68), 17,920 ft³/s, 12,980,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 214,000 ft³/s, May 7, 1958; maximum gage height, 30.70 ft, May 15, 1990; minimum daily, 803 ft³/s, Sept. 16, 17, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.40 ft, May 1; minimum daily discharge, 4,820 ft³/s, Aug. 26.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.42	2.76	4.60	9.05	8.00	8.61	8.98	17.21	10.66	9.20	3.60	2.45
2	5.72	2.74	4.42	8.95	7.40	8.75	8.69	16.53	9.69	8.52	3.78	2.68
3	5.00	2.75	4.16	8.95	7.35	8.76	8.58	16.58	9.38	8.00	4.69	3.02
4	3.99	2.78	4.75	8.96	7.32	8.88	8.50	16.60	8.98	7.57	5.58	3.35
5	3.22	2.69	6.10	9.02	7.28	9.50	8.22	16.15	8.46	7.18	6.20	3.79
6	2.98	2.58	7.68	9.45	7.30	9.95	8.51	16.71	7.88	6.57	6.11	3.84
7	2.92	2.38	7.55	10.25	7.40	9.35	8.10	17.12	7.27	6.05	6.07	3.72
8	2.75	2.38	7.31	10.74	8.08	8.66	8.17	16.73	7.63	5.48	5.94	3.49
9	2.78	2.52	7.12	11.18	8.80	8.05	7.85	15.86	8.95	5.14	5.56	3.25
10	4.82	3.00	6.98	11.90	8.52	8.00	7.80	15.89	11.65	4.93	5.18	2.93
11	8.05	3.62	6.74	12.80	8.48	7.71	7.88	15.98	12.65	4.68	4.81	2.94
12	9.51	4.05	5.45	13.50	8.33	6.83	8.14	16.01	12.15	4.45	4.40	3.60
13	10.00	4.29	4.40	13.70	8.04	5.63	9.32	15.75	11.94	4.32	4.07	4.28
14	10.28	4.79	4.05	13.29	7.54	5.00	11.70	15.21	11.77	4.16	3.91	4.80
15	10.10	4.19	3.91	13.02	6.91	4.82	13.80	14.73	11.60	3.99	3.55	5.10
16	10.06	4.25	3.80	13.10	5.81	4.68	15.16	14.59	11.69	3.88	3.09	5.85
17	10.02	4.19	3.70	13.22	4.98	4.26	15.40	14.40	12.01	3.63	2.83	5.29
18	10.02	3.88	4.35	13.00	5.10	3.90	15.05	14.09	12.05	3.39	2.52	4.94
19	9.98	3.52	5.42	12.80	5.20	3.73	14.58	13.81	11.90	3.18	2.40	4.60
20	9.88	3.45	6.50	12.90	6.35	3.89	14.57	13.50	11.83	3.04	2.40	4.26
21	9.06	3.60	7.70	13.12	7.59	4.40	14.62	13.14	11.78	2.96	2.30	3.91
22	7.40	3.68	8.29	13.50	9.23	4.53	14.70	12.80	12.00	2.88	2.26	3.85
23	6.62	3.82	8.98	13.48	9.90	4.31	14.59	12.41	12.17	2.78	2.15	5.51
24	5.70	3.94	9.65	12.91	9.72	3.23	14.35	12.30	12.26	2.72	2.02	7.60
25	4.70	4.02	9.88	12.10	9.88	3.39	14.03	12.19	12.31	2.77	1.95	7.66
26	4.00	4.12	10.00	11.30	9.90	3.40	13.96	11.30	12.28	2.89	1.72	8.32
27	3.65	4.23	9.58	10.26	9.61	5.82	14.05	10.44	11.53	3.02	1.85	9.31
28	3.11	4.36	9.28	9.70	8.94	8.41	14.84	10.06	10.56	3.13	2.03	8.58
29	2.92	4.48	9.55	9.25	---	9.52	16.15	9.94	10.11	3.18	2.09	7.74
30	2.88	4.60	9.60	8.83	---	9.67	17.00	9.98	9.86	3.24	2.09	7.28
31	2.75	---	9.29	8.38	---	9.25	---	10.42	---	3.44	2.31	---
MAX	10.28	4.79	10.00	13.70	9.90	9.95	17.00	17.21	12.65	9.20	6.20	9.31
MIN	2.75	2.38	3.70	8.38	4.98	3.23	7.80	9.94	7.27	2.72	1.72	2.45

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)

LOCATION.--Lat 32°32'57", long 93°45'51", in lot 14, T. 18 N., R. 14 W., Caddo Parish, Hydrologic Unit 11140202, near right bank, 2.7 mi northeast of Shreveport Courthouse, 4.9 mi upstream from mouth of Cross Bayou, 5.4 mi upstream from gaging station at Illinois Central Railroad bridge at Shreveport (Station 07348500), and at mile 282.5.

DRAINAGE AREA.--57,100 mi², approximately, of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1974-84, 1986 to current year.

REMARKS.--Water-quality samples are non-integrated.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1975, October 1976 to September 1977.

WATER TEMPERATURES: October 1974 to September 1975, October 1976 to September 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,880 micromhos June 5, 6, 1977; minimum daily, 163 micromhos Mar. 17, 1977.

WATER TEMPERATURES: Maximum daily, 32.0 °C July 25, 1977; minimum daily, 4.5 °C Jan. 19, 1977.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 2.5 °C was observed Jan. 15, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990										
24...	1230	212	7.18	17.5	40	40	9.0	33	1.8	K120
NOV										
07...	0800	547	7.84	15.0	60	25	9.8	36	3.7	100
DEC										
05...	0845	349	7.59	12.0	40	45	10.7	23	2.0	120
JAN 1991										
10...	0830	172	7.37	7.5	80	90	11.7	40	3.5	1400
FEB										
20...	1115	344	7.82	11.5	60	100	11.1	35	3.9	1500
MAR										
06...	1100	300	7.62	14.5	60	65	10.1	29	2.7	400
APR										
10...	1300	677	7.57	21.0	40	50	9.1	23	1.4	K80
MAY										
15...	1200	411	7.33	23.0	20	70	7.2	33	1.2	1200
JUN										
26...	1115	1090	7.86	29.0	15	140	6.6	33	1.6	210
JUL										
30...	1145	1040	8.07	30.0	20	14	8.2	14	3.7	K12
AUG										
21...	1130	1060	7.70	30.0	15	12	8.0	36	3.6	550
SEP										
11...	1100	615	7.81	29.5	40	40	8.1	35	3.9	1200

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS, TOTAL (MG/L AS CAC03)	CALCIUM, DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, WAT WH TOT FET (MG/L AS CACO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)
OCT 1990										
24...	K60	88	57	18	2.9	15	2.4	54	16	20
NOV 07...	K16	K20	160	47	9.7	52	4.3	130	48	66
DEC 05...	88	K20	100	28	7.6	25	3.3	75	37	35
JAN 1991										
10...	450	K3600	54	16	3.4	9.8	2.4	41	16	12
FEB 20...	860	K2500	110	33	7.7	23	2.7	101	34	27
MAR 06...	K80	K65	82	24	5.3	21	2.3	74	26	26
APR 10...	K16	K30	160	41	13	62	3.0	97	54	93
MAY 15...	K80	120	100	30	7.1	34	2.8	66	38	50
JUN 26...	K40	K60	240	63	21	--	4.8	117	--	180
JUL 30...	K10	K12	280	74	24	100	4.8	183	120	140
AUG 21...	220	K15	270	70	22	110	4.7	174	120	140
SEP 11...	220	150	160	44	13	59	3.7	126	57	78

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990									
24...	122	72	0.02	0.20	0.67	0.87	0.12	0.07	8.9
NOV 07...	330	50	0.02	0.10	0.87	0.97	0.12	0.05	9.6
DEC 05...	192	90	0.02	0.21	0.77	0.98	0.14	0.07	8.5
JAN 1991									
10...	104	220	0.03	0.19	0.77	0.96	0.21	0.09	9.0
FEB 20...	198	191	E0.03	E0.24	E1.0	--	E0.22	E0.10	8.6
MAR 06...	161	152	0.02	0.08	1.1	1.2	0.19	0.07	9.2
APR 10...	372	117	0.01	0.15	0.59	0.74	0.11	0.04	5.5
MAY 15...	232	137	0.02	0.24	0.71	0.95	0.17	0.09	8.4
JUN 26...	635	284	0.01	0.23	0.78	1.0	0.27	0.06	8.5
JUL 30...	599	35	<0.01	<0.02	0.93	--	0.10	0.04	7.9
AUG 21...	605	25	<0.01	<0.02	0.68	--	0.08	0.04	5.4
SEP 11...	351	65	0.02	0.16	0.76	0.92	0.16	0.09	9.1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated.

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 1990								
24...	2	<10	<1	4	4	1700	3	150
JAN 1991								
10...	2	<10	<1	5	5	4900	10	160
APR								
10...	1	<10	<1	4	3	2300	2	170
JUL								
30...	2	<10	<1	7	1	560	1	150

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 1990							
24...	<0.1	2	<1	20	<0.01	1	<1
JAN 1991							
10...	<0.1	6	<1	20	<0.01	5	<1
APR							
10...	<0.1	3	<1	10	<0.01	<1	<1
JUL							
30...	--	3	<1	10	<0.01	2	<1

DATE	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN, TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)
OCT 1990										
24...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC										
05...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB										
20...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR										
10...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN										
26...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG										
21...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 1990									
24...	<0.01	<0.01	<0.1	<0.1	<0.1	<0.01	<0.1	<0.01	<0.01
DEC									
05...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB									
20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR									
10...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN									
26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG									
21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

RED RIVER BASIN

07344410 RED RIVER ABOVE SHREVEPORT, LA (CE 04225)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)
OCT 1990									
24...	<0.1	<0.01	<0.1	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
DEC									
05...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
FEB									
20...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
APR									
10...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
JUN									
26...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
AUG									
21...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1

< Actual value is known to be less than the value shown.

07346280 CADDOLAKE AT HIGHWAY 1 NEAR MOORINGSPOET, LA

LOCATION.--Lat 32°42'18", long 93°55'10", in lot 20, T. 20 N., R. 15 W., Caddo Parish, Hydrologic Unit 11140304, at center span of bridge on State Highway 1.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1969-70, July 1991 to September 1991.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPECIFIC CONDUCTANCE (µS/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
JUL 1991										
31...	0815	100	6.67	30.0	--	--	7.3	3.6	K80	40
AUG										
21...	1440	96	6.77	31.5	20	6.1	6.9	3.3	K40	K20
SEP										
11...	1300	107	7.58	32.0	20	8.8	7.9	5.9	K90	K70

DATE	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS, TOTAL (MG/L AS CaCO3)	CALCIUM, DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, WAT WH TOT FET (MG/L AS CaCO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUL 1991										
31...	K16	24	5.8	2.4	8.2	2.9	19	9.1	11	68
AUG										
21...	65	24	5.4	2.5	8.6	2.9	21	9.1	9.9	69
SEP										
11...	K40	22	5.2	2.3	8.7	2.9	20	7.2	--	65

DATE	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO TOTAL (MG/L AS P)	ARSENIC, DIS-SOLVED (µG/L AS AS)	BARIUM, DIS-SOLVED (µG/L AS BA)
JUL 1991										
31...	12	<0.01	0.03	0.01	1.1	0.03	0.03	0.04	<1	<100
AUG										
21...	18	<0.01	0.03	0.03	0.93	0.07	0.02	0.02	<1	<100
SEP										
11...	8	<0.01	<0.02	0.01	1.1	0.05	0.02	0.02	<1	<100

DATE	CADMIUM, DIS-SOLVED (µG/L AS Cd)	CHROMIUM, DIS-SOLVED (µG/L AS Cr)	COPPER, DIS-SOLVED (µG/L AS Cu)	IRON, DIS-SOLVED (µG/L AS Fe)	LEAD, DIS-SOLVED (µG/L AS Pb)	MANGANESE, DIS-SOLVED (µG/L AS Mn)	NICKEL, DIS-SOLVED (µG/L AS Ni)	ZINC, DIS-SOLVED (µG/L AS Zn)	CYANIDE TOTAL (MG/L AS CN)
JUL 1991									
31...	<1	<1	5	30	<1	<10	5	<10	<0.02
AUG									
21...	<1	<1	2	30	<1	30	2	<10	<0.02
SEP									
11...	<1	<1	5	10	<1	20	4	<10	<0.02

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07346310 CADDO LAKE AT DAM NEAR MOORINGSPOUT, LA

LOCATION.--Lat 32°42'15", long 93°56'44", in lot 21, T. 20 N., R. 15 W., Caddo Parish, Hydrologic Unit 11140306, at right bank at dam.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--July 1991 to September 1991.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

		SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- DIS- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	
JUL 1991											
31...	0900	105	6.81	30.0	--	--	7.6	3.3	K70	K16	
AUG											
21...	1410	96	7.15	32.5	15	4.5	9.7	6.9	K12	K5	
SEP											
11...	1320	106	7.30	29.5	20	9.0	7.9	5.5	K120	K35	
DATE		STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
JUL 1991											
31...	K30	25	5.9	2.5	8.2	2.9	21	9.1	12	64	
AUG											
21...	K10	23	5.1	2.4	8.6	3.0	19	8.4	12	66	
SEP											
11...	K43	22	5.0	2.3	8.6	2.9	20	7.0	12	63	
DATE		RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)
JUL 1991											
31...	19	<0.01	0.02	0.02	--	--	0.01	0.04		<1	<100
AUG											
21...	7	<0.01	<0.02	0.01	1.1	0.06	0.01	0.02		<1	<100
SEP											
11...	20	<0.01	<0.02	0.02	1.2	0.12	0.07	0.03		<1	<100
DATE		CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	NICKEL, DIS- SOLVED (µG/L AS NI)	ZINC, DIS- SOLVED (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	
JUL 1991											
31...		<1	1	4	40	<1	<10	2	<10	<0.02	
AUG											
21...		<1	<1	3	20	<1	10	<1	<10	<0.02	
SEP											
11...		<1	<1	2	10	<1	<10	2	<10	<0.02	

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07347950 TWELVEMILE BAYOU NEAR MOORINGSPOINT, LA

LOCATION.--Lat 32°42'00", long 93°54'38", in lot 11, T. 19 N., R. 15 W., Caddo Parish, Hydrologic Unit 11140306,
at center span of bridge on State Highway 1.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--July 1991 to September 1991.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPECIFIC CONDUCTANCE (µS/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML)	COLIFORM, FECALE, 0.7 UM-MF (COLS./100 ML)
JUL 1991 31...	0915	273	7.05	29.5	--	--	7.0	3.2	K220	K18
AUG 21...	1500	189	6.98	30.5	15	9.9	7.5	3.3	K50	K28
SEP 11...	1345	142	6.80	29.5	20	14	7.2	4.5	230	K30

DATE	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, WAT WH TOT FET (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
JUL 1991 31...	K38	62	14	6.6	24	3.1	51	13	42	150
AUG 21...	100	47	11	4.8	18	3.0	37	11	27	123
SEP 11...	110	30	7.2	2.9	12	2.8	26	6.4	18	85

DATE	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS, ORTHO TOTAL (MG/L AS P)	ARSENIC, DIS-SOLVED (µG/L AS AS)	BARIUM, DIS-SOLVED (µG/L AS Ba)
JUL 1991 31...	31	0.01	0.08	0.02	0.80	0.06	0.03	0.01	<1	100
AUG 21...	26	0.01	0.07	0.05	0.88	0.06	0.01	0.02	<1	<100
SEP 11...	27	<0.01	<0.02	0.02	1.1	0.09	0.01	0.03	<1	<100

DATE	CADMIUM, DIS-SOLVED (µG/L AS Cd)	CHROMIUM, DIS-SOLVED (µG/L AS Cr)	COPPER, DIS-SOLVED (µG/L AS Cu)	IRON, DIS-SOLVED (µG/L AS Fe)	LEAD, DIS-SOLVED (µG/L AS Pb)	MANGANESE, DIS-SOLVED (µG/L AS Mn)	NICKEL, DIS-SOLVED (µG/L AS Ni)	ZINC, DIS-SOLVED (µG/L AS Zn)	CYANIDE TOTAL (MG/L AS CN)
JUL 1991 31...	<1	<1	3	20	<1	10	2	<10	<0.02
AUG 21...	<1	<1	3	30	<1	30	3	<10	<0.02
SEP 11...	<1	1	2	50	3	10	3	<10	<0.02

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°38'45", long 93°52'40", in NW 1/4 NW 1/4 sec.14, T.19 N., R.15 W., Caddo Parish, 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.--3.137 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1942 to current year.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 136.12 ft above National Geodetic Vertical Datum 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 National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

Water-stage recorder for Twelvemile Bayou below Dixie (station 07348010) used as auxiliary gage for this station. Prior to May 7, 1981, nonrecording gage for Red River at Shreveport (station 07348500) used as auxiliary gage.

REMARKS.--Estimated daily discharges. Indefinite stage-discharge relationship: June 10-17, July 24-25, and Aug. 12-14. No base gage height: Nov. 4-27, Jan. 30 to Feb. 5, Feb. 8-12, July 7-16, and Aug. 3-14; no auxiliary gage height: Feb. 1-20, Mar. 14-26, Apr. 26 to May 12, and June 18-24. Records fair. Flow regulated by three reservoirs (combined usable capacity, 1,033,700 acre-ft of which 587,0200 acre-ft are available for storage) since August 1957. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--49 years, 4,980 ft³/s, 1,893,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,400 ft³/s, May 5, 1958; maximum daily reverse flow, 50 ft³/s, Aug. 5, 1975 (backwater from Red River); maximum gage height, 41.53 ft, Apr. 5, 1945, and May 5, 1958, present datum; minimum discharge (unaffected by backwater), 0.08 ft³/s, Aug. 24, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 22,000 ft³/s, May. 8; minimum daily discharge, 40 ft³/s, July 24, and Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	430	4050	6810	e6800	10900	7300	e14800	5420	1270	214	712
2	245	393	4260	6980	e6600	11400	6510	e15000	5210	966	218	905
3	161	345	4880	7130	e6400	11400	5930	e15800	5000	621	e150	1180
4	93	e325	4560	7150	e6300	11000	5860	e18500	4660	356	e100	1400
5	67	e340	4410	7240	e6100	10700	5750	e19500	4380	276	e80	1540
6	76	e300	4250	7630	e6300	10400	5790	e20500	3970	246	e75	1540
7	106	e280	4230	8340	e6400	9650	5830	e21500	3520	e220	e70	1420
8	97	e270	4150	8390	e6500	9210	5820	e22000	2980	e190	e65	1350
9	333	e700	3930	8360	e6500	8870	5680	e21800	2080	e175	e60	1250
10	363	e1500	3640	11000	e6500	8340	5340	e21500	e2000	e165	e55	1080
11	211	e1400	3280	13200	e6400	7870	5150	e20500	e2500	e150	e50	955
12	342	e1300	3080	13700	e6400	7610	6530	e19800	e3000	e140	e45	843
13	431	e1200	2850	13900	e6300	7390	10800	18900	e3500	e130	e40	743
14	479	e1300	2380	14000	e6200	e7000	14500	17200	e3300	e120	e50	646
15	501	e1500	2240	14500	e5900	e6700	17200	15500	e3000	e115	160	554
16	489	e1600	1910	15200	e5500	e6000	18400	14100	e3500	e110	240	493
17	491	e1700	1950	15100	e5600	e5800	18700	12800	e4000	105	250	416
18	539	e1800	2090	14700	e6200	5350	18700	11500	e5000	100	235	343
19	512	e1900	1850	14300	e9000	4660	18300	10200	e5500	92	229	184
20	524	e1800	1800	13600	e9300	3970	17600	9270	e5400	89	192	150
21	642	e1700	2080	12800	8860	e3700	16200	8590	e5300	84	163	139
22	721	e2500	2640	11400	9600	e3100	14700	8050	e5000	75	236	143
23	659	e3500	2950	10300	10300	e2700	13800	7470	e4500	57	350	114
24	650	e3400	2790	9650	10300	e2300	12900	6940	e4000	e40	311	249
25	580	e3200	2710	9090	10200	e2100	11600	7750	3690	e50	273	478
26	520	e3100	2810	8710	10400	e2000	e11000	8610	2900	89	239	430
27	498	e4000	4630	8380	10500	1930	e10200	7910	2500	141	218	442
28	485	4200	5620	7970	10300	2200	e10000	7220	2300	181	197	478
29	482	4160	5830	7630	---	7090	e12000	6690	1980	253	178	468
30	474	4030	6490	e7400	---	7760	e14500	6260	1580	234	248	444
31	456	---	6550	e7100	---	7860	---	5820	---	194	491	---
TOTAL	12522	54173	110890	321660	211660	206960	332590	421980	111670	7034	5482	21089
MEAN	404	1806	3577	10380	7559	6676	11090	13610	3722	227	177	703
MAX	721	4200	6550	15200	10500	11400	18700	22000	5500	1270	491	1540
MIN	67	270	1800	6810	5500	1930	5150	5820	1580	40	40	114
AC-FT	24840	107500	220000	638000	419800	410500	659700	837000	221500	13950	10870	41830

CAL YR 1990 TOTAL 1274206 MEAN 3491 MAX 17600 MIN 12 AC-FT 2527000
WTR YR 1991 TOTAL 1817710 MEAN 4980 MAX 22000 MIN 40 AC-FT 3605000

e Estimated.

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.33	6.11	13.99	18.45	---	24.54	19.17	30.19	17.77	10.50	5.35	7.28
2	5.83	6.00	14.32	18.66	---	25.34	18.15	30.66	17.41	9.63	5.37	7.96
3	5.25	5.84	15.26	18.82	---	25.32	17.37	31.53	16.85	8.81	---	8.80
4	4.93	---	14.80	18.82	---	24.77	17.07	33.32	16.27	7.98	---	9.39
5	4.84	---	14.57	18.98	---	24.32	16.76	34.09	15.69	7.55	---	9.74
6	4.88	---	14.53	19.61	17.35	23.94	16.81	34.58	14.96	7.04	---	9.76
7	4.98	---	14.64	20.89	17.40	22.80	16.89	35.04	14.28	---	---	9.46
8	4.95	---	14.46	21.06	---	21.92	16.82	35.18	13.64	---	---	9.31
9	5.77	---	14.04	21.22	---	21.29	16.61	35.05	12.77	---	---	9.06
10	5.91	---	13.57	25.61	---	20.40	16.13	34.76	12.29	---	---	8.57
11	5.95	---	12.99	28.19	---	19.69	15.81	34.33	12.86	---	---	8.21
12	8.93	---	12.47	28.85	---	19.28	19.53	33.77	13.53	---	---	7.88
13	9.94	---	11.96	29.05	17.34	18.95	25.19	---	13.89	---	4.33	7.55
14	10.53	---	11.17	29.03	17.11	17.87	30.03	32.16	13.51	---	4.47	7.21
15	10.54	---	10.90	29.77	16.78	16.97	32.26	31.14	13.33	---	5.11	6.86
16	10.28	---	10.21	30.42	15.96	16.57	33.17	30.08	14.30	---	5.47	6.62
17	10.26	---	10.28	30.43	16.15	16.52	33.41	28.91	15.63	4.87	5.52	6.33
18	10.37	---	10.58	30.00	17.61	15.97	33.39	27.35	16.66	4.86	5.44	6.10
19	10.30	---	10.09	29.38	21.96	14.94	33.05	25.43	17.21	4.82	5.42	5.47
20	9.82	---	9.98	28.59	22.39	13.90	32.44	24.07	17.19	4.81	5.26	5.32
21	9.05	---	10.79	27.59	21.59	13.04	31.40	22.97	16.94	4.78	5.12	5.27
22	8.17	---	12.14	26.05	23.00	12.46	30.04	22.06	16.66	4.74	5.44	5.29
23	7.53	---	12.74	24.76	24.09	11.95	29.12	21.22	16.48	4.65	5.91	5.16
24	7.06	---	12.90	23.79	24.02	11.24	28.06	20.45	16.11	4.41	5.77	5.80
25	6.61	---	13.25	22.75	23.81	10.75	26.48	21.84	15.58	4.48	5.62	6.87
26	6.40	---	13.36	21.91	24.02	10.34	24.90	23.01	14.99	4.79	5.46	6.89
27	6.33	---	15.88	21.04	24.04	10.26	23.84	21.73	14.27	5.05	5.37	7.92
28	6.29	14.24	17.16	20.24	23.79	10.99	25.09	20.39	13.15	5.24	5.28	8.09
29	6.27	14.18	17.45	19.62	---	19.02	28.84	19.48	12.09	5.57	5.20	7.25
30	6.25	13.96	18.28	---	---	20.21	29.85	18.81	11.27	5.46	5.49	6.66
31	6.19	---	18.32	---	---	20.07	---	18.20	---	5.26	6.54	---
MAX	10.54	---	18.32	---	---	25.34	33.41	---	17.77	---	---	9.76
MIN	4.84	---	9.98	---	---	10.26	15.81	---	11.27	---	---	5.16

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1953-55, 1958-60, 1969-70, 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to September 1981.

WATER TEMPERATURES: April 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3.970 micromhos Oct. 20, 1980; minimum daily, 76 micromhos Feb. 12, 1980.

WATER TEMPERATURES: Maximum daily, 36.0 °C June 27, 1978; minimum daily, 4.0 °C Jan. 14, Feb. 7, 1979.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 1.5 °C was observed Jan. 19, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990												
25...	0745	580	231	7.44	17.0	10	12	9.2	2.7	--	K30	K80
JAN 1991												
10...	1000	10900	119	6.76	7.5	60	45	11.6	3.3	--	550	2200
APR												
11...	0930	5200	115	6.70	21.0	50	13	8.7	1.9	--	K36	80
JUL												
30...	1400	250	377	7.42	28.0	20	13	7.8	4.2	120	K14	K12
AUG												
21...	1545	--	233	6.73	31.5	15	11	--	--	52	K18	K30
SEP												
11...	1415	--	146	7.10	29.5	30	19	7.2	4.1	230	K40	80

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
OCT 1990												
25...	53	12	5.6	20	3.3	45	15	31	<0.1	9.2	129	123
JAN 1991												
10...	26	6.3	2.5	11	2.8	16	11	16	<0.1	11	88	70
APR												
11...	24	5.5	2.4	11	2.1	15	9.6	17	0.1	6.0	65	64
JUL												
30...	86	19	9.2	38	2.7	59	17	67	0.2	12	210	200
AUG												
21...	60	13	6.7	22	3.1	41	18	33	--	--	148	120
SEP												
11...	31	7.5	3.1	13	2.9	29	7.0	20	--	--	86	71

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 1990												
25...	--	0.01	<0.01	<0.10	<0.10	0.02	<0.01	0.8	0.05	<0.01	<0.01	<0.01
JAN 1991												
10...	--	0.02	0.03	0.10	<0.10	0.06	0.06	0.6	0.08	0.04	0.97	0.02
APR												
11...	--	<0.01	<0.01	0.10	<0.05	0.01	0.01	0.5	0.06	0.01	0.03	<0.01
JUL												
30...	22	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	1.0	0.06	<0.01	<0.01	<0.01
AUG												
21...	27	0.01	--	0.09	--	0.02	--	0.8	0.07	0.01	0.02	--
SEP												
11...	43	0.01	--	<0.02	--	0.01	--	1.0	0.09	0.01	0.03	--

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07348000 TWELVEMILE BAYOU NEAR DIXIE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)
OCT 1990												
25...	<10	<1	65	<0.5	<1	<1	<3	4	9	1	6	2
JAN 1991												
10...	120	1	41	<0.5	<1	<1	<3	2	430	1	<4	25
APR												
11...	40	<1	49	<0.5	<1	<1	<3	2	470	1	4	7
JUL												
30...	<10	<1	98	<0.5	<1	<1	<3	3	6	<1	4	<1
AUG												
21...	--	<1	<100	--	<1	<1	--	3	20	<1	--	10
SEP												
11...	--	<1	<100	--	<1	1	--	2	60	<1	--	<10

DATE	MERCURY DIS- SOLVED (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990												
25...	<0.1	<10	1	<1	<1	160	<6	15	--	50	78	98
JAN 1991												
10...	<0.1	<10	1	<1	<1	81	<6	7	--	98	2880	77
APR												
11...	<0.1	<10	2	<1	<1	92	<6	9	--	29	407	93
JUL												
30...	<0.1	<10	<1	<1	<1	300	<6	<3	<0.01	37	25	96
AUG												
21...	<0.1	--	<1	--	--	--	--	<10	<0.02	--	--	--
SEP												
11...	<0.1	--	2	--	--	--	--	<10	<0.02	--	--	--

< Actual value is known to be less than the value shown.

RED RIVER BASIN

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA

LOCATION.--Lat 32°59'40", long 93°23'47", in NE 1/4 NE 1/4 sec.16, T.23 N., R.10 W., Webster Parish, Hydrologic Unit 11140203, near left bank on downstream side of bridge on State highway 157, 0.4 mi downstream from Crooked Creek, 1.7 mi downstream from Arkansas-Louisiana State line, and 4.2 mi southeast of intersection of State Highways 7 and 157 at Springhill.

DRAINAGE AREA.--605 mi².

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WDR LA-75-1: 1974, WDR LA-85-1: 1985(P).

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Records good above 200 ft³/s and fair below. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	1400	7,920	15.30	Apr. 15	1900	19,100	18.25
Feb. 24	1500	8,340	15.41	Apr. 30	1230	*20,700	*18.63
Mar. 4	2400	3,510	13.89	May 5	1930	12,500	16.53

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	13	359	e1400	447	2540	1910	17000	1430	38	14	e12
2	5.6	12	359	e1500	416	2470	1900	10800	1120	27	e10	e10
3	6.1	10	e310	1520	383	2700	1530	6890	753	18	e9.0	e11
4	6.7	11	e250	1490	346	3340	1300	6900	497	17	e8.0	29
5	7.5	16	e200	1300	376	3470	1090	11100	380	15	e7.0	26
6	7.8	15	e150	1180	467	3050	972	11000	288	19	e6.5	29
7	7.8	16	e200	1280	599	2430	1260	8330	217	18	e6.0	18
8	7.9	20	e150	1490	797	1920	1890	5670	224	17	e5.8	42
9	13	187	e125	1910	962	1540	2000	3670	275	27	e6.0	50
10	14	249	e110	4020	1040	1180	1700	2680	214	33	10	48
11	33	256	e100	7630	987	857	1380	2090	149	33	12	32
12	67	292	e90	7400	869	584	1280	1760	110	27	13	17
13	102	289	e80	6350	691	436	1640	1550	103	19	15	26
14	108	247	e70	5100	513	355	8590	1370	107	13	19	26
15	92	182	e60	5550	397	312	18000	1320	95	10	20	12
16	62	134	e70	5750	333	290	16800	1300	84	10	20	e10
17	35	97	e100	5960	308	279	11200	1120	74	9.5	21	e8.0
18	18	65	e200	6280	429	273	7080	1020	66	9.4	e20	e7.0
19	12	45	e250	6060	1200	272	4200	1060	117	7.3	e18	e6.0
20	11	36	e150	4800	2170	279	2830	1310	155	7.5	e15	e5.0
21	46	32	e100	3520	3070	292	2200	1350	144	8.2	e13	2.9
22	82	35	e150	2740	4260	298	1920	1440	126	9.0	e17	3.7
23	118	42	e200	2240	6330	287	1830	1440	109	9.3	e15	5.2
24	162	43	e150	1900	8090	273	1730	1380	107	9.5	e13	13
25	159	60	e100	1590	8080	253	1840	1390	88	10	e11	29
26	130	94	e90	1300	6990	229	2010	1640	51	16	e9.0	7.7
27	98	109	e150	1080	4630	207	2040	1610	50	16	e11	5.3
28	67	213	e220	860	2980	208	3260	1650	41	18	e15	4.5
29	40	185	e400	659	---	946	13800	1690	36	20	e12	4.8
30	24	277	e600	546	---	1130	20200	1710	43	17	e18	5.2
31	15	---	e1100	489	---	1460	---	1690	---	16	e14	---
TOTAL	1562.6	3282	6643	94894	58160	34160	139382	114930	7253	523.7	403.3	505.3
MEAN	50.4	109	214	3061	2077	1102	4646	3707	242	16.9	13.0	16.8
MAX	162	292	1100	7630	8090	3470	20200	17000	1430	38	21	50
MIN	5.2	10	60	489	308	207	972	1020	36	7.3	5.8	2.9
AC-FT	3100	6510	13180	188200	115400	67760	276500	228000	14390	1040	800	1000
CFSM	.08	.18	.35	5.06	3.43	1.82	7.68	6.13	.40	.03	.02	.03
IN.	.10	.20	.41	5.83	3.58	2.10	8.57	7.07	.45	.03	.02	.03

e Estimated.

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1991, BY WATER YEAR (WY)

MEAN	115	286	773	921	1166	1101	1275	874	391	219	59.7	115
MAX	1569	1351	3223	3061	3187	3586	4646	3707	3262	2937	420	2533
(WY)	1985	1975	1974	1991	1975	1990	1991	1991	1974	1989	1979	1974
MIN	1.39	2.93	28.8	35.5	107	146	149	22.3	3.10	1.58	1.73	1.48
(WY)	1984	1968	1990	1981	1981	1967	1987	1988	1988	1964	1969	1987

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1958 - 1991

ANNUAL TOTAL	400642.3			461698.9								
ANNUAL MEAN	1098			1265								
HIGHEST ANNUAL MEAN										605		
LOWEST ANNUAL MEAN										1551		1974
HIGHEST DAILY MEAN	23900	Mar 10		20200	Apr 30					129		1967
LOWEST DAILY MEAN	1.5	Sep 8		2.9	Sep 21					35000	Apr 28 1958	
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 2		5.4	Sep 17					.00	Oct 10-14 1957	
INSTANTANEOUS PEAK FLOW				20700	Apr 30					.07	Oct 8 1957	
INSTANTANEOUS PEAK STAGE				18.63	Apr 30					36400	Apr 28 1958	
INSTANTANEOUS LOW FLOW				2.9	Sept 21					22.79	Apr 28 1958	
ANNUAL RUNOFF (AC-FT)	794700			915800						0	Oct 10-14 1957	
ANNUAL RUNOFF (CFSM)	1.81			2.09						438100		
ANNUAL RUNOFF (INCHES)	24.63			28.39						1.00		
10 PERCENT EXCEEDS	2660			3390						13.58		
50 PERCENT EXCEEDS	182			185						1640		
90 PERCENT EXCEEDS	2.5			9.8						126		
										3.0		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.50	4.64	8.67	---	9.27	13.26	12.72	17.69	12.18	5.15	4.58	4.77
2	4.53	4.61	8.68	---	9.07	13.21	12.71	16.07	11.58	4.91	4.32	4.74
3	4.56	4.56	---	12.28	8.85	13.38	12.29	15.02	10.60	4.68	4.05	4.74
4	4.59	4.57	---	12.25	8.58	13.79	12.00	15.02	9.56	4.67	4.06	4.94
5	4.62	4.72	---	11.98	8.79	13.87	11.53	16.16	8.82	4.63	4.12	4.88
6	4.63	4.70	---	11.75	9.39	13.61	11.23	16.13	8.11	4.72	4.17	4.93
7	4.63	4.71	---	11.95	10.07	13.18	11.87	15.41	7.49	4.69	4.21	4.69
8	4.63	4.82	---	12.24	10.74	12.73	12.70	14.67	7.55	4.68	4.26	5.21
9	4.77	7.06	---	12.71	11.21	12.31	12.81	13.96	8.02	4.89	4.32	5.37
10	4.81	7.78	---	14.01	11.40	11.73	12.50	13.36	7.45	5.03	4.47	5.34
11	5.17	7.84	---	15.22	11.27	10.91	12.09	12.89	6.75	5.04	4.54	5.05
12	5.69	8.15	---	15.16	10.95	9.99	11.92	12.56	6.22	4.90	4.57	4.75
13	6.10	8.13	---	14.87	10.41	9.20	12.38	12.32	6.11	4.72	4.60	4.95
14	6.19	7.76	---	14.51	9.65	8.64	15.43	12.10	6.17	4.55	4.72	4.98
15	5.96	7.13	---	14.64	8.94	8.31	17.96	12.02	6.00	4.45	4.73	4.65
16	5.57	6.55	---	14.70	8.48	8.14	17.64	11.97	5.85	4.47	4.73	4.39
17	5.12	6.02	---	14.76	8.29	8.05	16.17	11.60	5.71	4.43	4.76	4.23
18	4.77	5.56	---	14.85	9.07	8.00	15.07	11.35	5.59	4.43	4.77	4.21
19	4.61	5.22	---	14.79	11.65	7.99	14.18	11.46	6.32	4.32	4.78	4.16
20	4.59	5.02	---	14.41	12.96	8.05	13.47	12.01	6.83	4.33	4.77	4.12
21	5.23	4.92	---	13.89	13.63	8.15	12.99	12.06	6.68	4.37	4.76	4.15
22	5.84	4.99	---	13.40	14.21	8.21	12.73	12.19	6.44	4.41	4.78	4.23
23	6.34	5.16	---	13.03	14.86	8.12	12.64	12.18	6.20	4.42	4.82	4.35
24	6.91	5.17	---	12.71	15.34	7.99	12.53	12.11	6.17	4.43	4.79	4.63
25	6.87	5.48	---	12.37	15.34	7.82	12.65	12.11	5.91	4.47	4.77	5.03
26	6.50	5.98	---	11.98	15.05	7.60	12.82	12.43	5.38	4.64	4.76	4.50
27	6.04	6.20	---	11.50	14.34	7.38	12.85	12.39	5.36	4.65	4.77	4.36
28	5.65	7.44	---	10.93	13.56	7.38	13.65	12.44	5.20	4.68	4.78	4.30
29	5.22	7.16	---	10.30	---	11.10	16.85	12.49	5.10	4.75	4.77	4.33
30	4.91	8.02	---	9.84	---	11.61	18.49	12.51	5.24	4.67	4.94	4.36
31	4.70	---	---	9.52	---	12.19	---	12.49	---	4.64	4.88	---
MAX	6.91	8.15	---	---	15.34	13.87	18.49	17.69	12.18	5.15	4.94	5.37
MIN	4.50	4.56	---	---	8.29	7.38	11.23	11.35	5.10	4.32	4.05	4.12

07349000 BAYOU DORCHEAT NEAR MINDEN, LA

LOCATION.--Lat 32°35'55", long 93°19'59", in NE 1/4 NW 1/4 sec.31, T.19 N., R.9 W., Webster Parish, Hydrologic Unit 11140203, on left bank 500 ft upstream from bridge on U.S. Highway 80, 0.7 mi upstream from Louisiana and Arkansas Railway Co. bridge, 3.0 mi west of Minden, and 28 mi upstream from Lake Bistineau dam.

DRAINAGE AREA.--1,097 mi².

PERIOD OF RECORD.--July 1928 to September 1931, October 1936 to September 1979. October 1979 to current year (annual maximum and gage heights only). Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1211: Drainage area. WSP 1241: 1941.

GAGE.--Water-stage recorder. Datum of gage is 133.75 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Mar. 1, 1940, nonrecording gage at same site and datum. July 29, 1953, to Sept. 30, 1979, supplementary water-stage recorder 4.6 mi upstream from base gage at different datum.

REMARKS.--Gage heights affected by Lake Bistineau.

AVERAGE DISCHARGE.--46 years (water years 1929-31, 1937-79), 1.111 ft³/s, 13.75 in/yr, 804,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,800 ft³/s, May 1, 1958, gage height, 24.90 ft; no flow at times in 1954, 1956, 1964, 1969, 1972, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,200 ft³/s, Apr. 16, gage height, 23.49 ft; minimum gage height, 6.54 ft, Oct. 18.

DISCHARGE MEASUREMENTS MADE DURING YEAR

Date	Discharge (ft ³ /s)
April 18, 1991.....	22,600

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.70	6.74	7.91	10.08	9.22	16.46	11.15	23.11	10.45	7.29	7.18	7.28
2	6.71	6.74	7.81	10.06	8.74	16.02	11.88	22.72	10.31	7.28	7.17	7.32
3	6.72	6.74	7.75	10.04	8.43	15.44	12.23	22.18	10.17	7.26	7.16	7.45
4	6.70	6.77	7.70	9.94	8.25	14.86	12.32	21.91	9.97	7.28	7.15	7.50
5	6.68	6.76	7.69	9.90	8.21	14.46	12.15	21.36	9.62	7.32	7.14	7.52
6	6.68	6.75	7.64	9.85	8.23	14.18	11.81	20.65	9.03	7.30	7.12	7.49
7	6.67	6.73	7.57	9.85	8.35	13.94	11.36	20.36	8.37	7.29	7.11	7.43
8	6.66	6.73	7.53	9.74	8.55	13.76	10.86	20.07	7.96	7.27	7.11	7.39
9	6.66	7.03	7.49	9.66	8.73	13.53	10.37	19.23	7.74	7.26	7.12	7.36
10	6.64	7.17	7.45	11.20	8.88	13.19	10.08	18.07	7.66	7.25	7.10	7.34
11	6.63	7.23	7.43	12.31	9.01	12.72	10.15	16.79	7.66	7.24	7.08	7.32
12	6.61	7.29	7.45	12.66	9.09	12.14	12.76	15.64	7.63	7.22	7.07	7.30
13	6.62	7.34	7.41	13.20	9.15	11.41	17.41	14.69	7.58	7.20	7.08	7.29
14	6.62	7.37	7.37	14.38	9.08	10.50	19.98	13.88	7.53	7.19	7.13	7.28
15	6.61	7.39	7.38	15.86	8.92	9.51	22.63	13.18	7.55	7.19	7.19	7.26
16	6.60	7.40	7.35	16.56	8.70	8.74	23.42	12.55	7.62	7.17	7.20	7.25
17	6.61	7.37	7.41	16.58	8.47	8.36	23.17	12.00	7.59	7.19	7.19	7.24
18	6.57	7.37	7.45	16.38	9.25	8.13	22.41	11.68	7.55	7.21	7.19	7.24
19	6.58	7.36	7.43	16.22	12.73	8.01	21.12	11.49	7.56	7.20	7.18	7.16
20	6.58	7.34	7.41	15.92	15.08	7.97	19.60	11.32	7.51	7.21	7.17	7.15
21	6.63	7.33	7.53	15.49	16.32	7.93	17.94	11.07	7.49	7.19	7.15	7.16
22	6.69	7.42	7.73	15.04	16.29	7.91	16.65	10.86	7.46	7.17	7.18	7.16
23	6.70	7.48	7.78	14.58	16.29	7.85	15.86	10.81	7.44	7.16	7.19	7.14
24	6.70	7.46	7.84	14.08	16.57	7.81	15.38	10.85	7.42	7.16	7.17	7.22
25	6.69	7.44	7.90	13.54	16.88	7.78	15.06	11.11	7.41	7.15	7.16	7.25
26	6.71	7.44	7.96	12.98	17.28	7.78	14.59	11.42	7.40	7.15	7.16	7.24
27	6.72	7.48	8.83	12.39	17.32	7.76	14.19	11.25	7.37	7.15	7.15	7.23
28	6.72	7.89	9.28	11.78	16.93	7.77	16.02	10.97	7.36	7.19	7.14	7.22
29	6.73	7.90	9.45	11.15	---	8.14	20.30	10.79	7.34	7.23	7.13	7.21
30	6.73	7.96	9.77	10.46	---	8.98	22.94	10.67	7.31	7.21	7.21	7.20
31	6.73	---	10.05	9.79	---	10.15	---	10.55	---	7.19	7.29	---
MAX	6.73	7.96	10.05	16.58	17.32	16.46	23.42	23.11	10.45	7.32	7.29	7.52
MIN	6.57	6.73	7.35	9.66	8.21	7.76	10.08	10.55	7.31	7.15	7.07	7.14

07349250 LAKE BISTINEAU NEAR RINGGOLD, LA

LOCATION.--Lat 32°19'46", long 93°26'10", in SE 1/4 NW 1/4 sec.31, T.16 N., R.10 W., Bossier Parish, 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.

DRAINAGE AREA.--1,443 mi².

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. Datum of gage is 130.00 ft above National Geodetic Vertical Datum 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. Gates were closed all year.

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, 17.79 ft, Apr. 18; minimum, 10.32 ft, Oct. 20.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.51	10.50	11.36	11.79	11.71	12.77	11.57	---	11.77	11.07	10.99	11.07
2	10.49	10.51	11.34	11.77	11.63	12.75	11.65	---	11.74	11.05	10.97	11.10
3	10.46	10.51	11.33	11.77	11.56	12.67	11.74	---	11.70	11.03	10.95	11.18
4	10.49	10.51	11.29	11.72	11.52	12.53	11.84	---	11.67	11.06	10.93	11.21
5	10.48	10.55	11.25	11.68	11.50	12.39	11.92	---	11.64	11.09	10.92	11.23
6	10.46	10.53	11.24	11.67	11.46	12.33	11.92	---	11.60	11.07	10.90	11.23
7	10.44	10.54	11.26	11.71	11.45	12.29	11.91	---	11.52	11.05	10.90	11.19
8	10.44	10.56	11.21	11.69	11.45	12.20	11.86	---	11.44	11.03	10.89	11.16
9	10.47	10.84	11.20	11.70	11.45	12.14	11.84	---	11.36	11.02	10.89	11.14
10	10.48	10.92	11.18	12.22	11.47	12.09	11.78	---	11.34	11.01	10.88	11.12
11	10.44	10.97	11.16	12.54	11.49	12.03	11.71	---	11.30	11.00	10.87	11.10
12	10.42	11.00	11.13	12.46	11.49	12.00	12.03	---	11.27	10.98	10.87	11.08
13	10.40	11.04	11.14	12.32	11.49	11.96	13.42	---	11.25	10.97	10.87	11.07
14	10.38	11.06	11.15	12.23	11.54	11.87	14.99	14.00	11.22	10.97	10.92	11.05
15	10.38	11.08	11.12	12.47	11.53	11.77	16.48	13.44	11.24	11.00	10.97	11.03
16	10.37	11.09	11.13	12.69	11.47	11.66	17.14	12.90	11.31	10.98	10.97	11.02
17	10.36	11.11	11.14	12.76	11.47	11.57	17.46	12.50	11.29	10.97	10.97	11.03
18	10.39	11.09	11.18	12.76	11.64	11.50	17.74	12.30	11.28	10.99	10.98	11.05
19	10.36	11.09	11.18	12.73	12.45	11.43	17.64	12.22	11.29	10.98	10.98	11.06
20	10.34	11.08	11.17	12.67	12.86	11.36	17.31	12.09	11.25	10.97	10.97	11.00
21	10.42	11.07	11.19	12.59	12.92	11.34	16.76	11.99	11.22	10.97	10.95	10.96
22	10.49	11.15	11.34	12.48	13.15	11.32	16.13	11.90	11.18	10.95	10.98	10.94
23	10.48	11.24	11.34	12.39	13.17	11.32	15.49	11.84	11.16	10.94	10.99	10.94
24	10.48	11.20	11.31	12.33	13.04	11.30	14.85	11.83	11.15	10.91	10.98	11.01
25	10.49	11.17	11.29	12.25	12.93	11.28	14.23	11.97	11.14	10.92	10.97	11.05
26	10.47	11.13	11.32	12.17	12.83	11.25	13.69	12.14	11.14	10.95	10.96	11.04
27	10.47	11.16	11.63	12.09	12.80	11.26	13.20	12.12	11.13	10.95	10.94	11.02
28	10.49	11.47	11.81	12.01	12.77	11.32	---	12.00	11.11	10.98	10.93	11.01
29	10.50	11.46	11.80	11.94	---	11.44	---	11.89	11.10	11.02	10.92	11.00
30	10.50	11.40	11.78	11.88	---	11.46	---	11.82	11.09	11.02	11.00	11.00
31	10.50	---	11.83	11.79	---	11.49	---	11.78	---	11.01	11.08	---
MAX	10.51	11.47	11.83	12.76	13.17	12.77	---	---	11.77	11.09	11.08	11.23
MIN	10.34	10.50	11.12	11.67	11.45	11.25	---	---	11.09	10.91	10.87	10.94

RED RIVER BASIN

07349500 BODCAU BAYOU NEAR SAREPTA, LA

LOCATION.--Lat 32°54'18", long 93°28'58", in NE 1/4 sec.15, T.22 N., R.11 W., Bossier-Webster Parish line, 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 mi².

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 mi upstream. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 23, 1930, exceeded 25 ft and flood in 1905 may have reached a stage of 27 ft from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 17	0630	4,770	17.97	Apr. 15	2230	8,120	20.34
Mar. 2	2030	3,510	16.59	May 5	2130	*9,710	*21.67

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	32	813	783	960	3460	782	5260	2670	51	54	63
2	24	35	778	594	852	3490	654	5830	2490	50	43	69
3	26	38	689	481	800	3480	519	7230	2310	51	23	66
4	25	77	606	496	787	3170	449	8520	2100	53	14	152
5	27	172	565	540	792	2850	493	9460	1810	54	12	234
6	35	238	561	640	775	2400	649	9400	1620	55	12	148
7	36	288	574	853	756	2050	798	8120	1490	53	12	75
8	36	350	573	1040	741	1770	892	7350	1340	52	12	46
9	41	550	572	1230	724	1640	907	7200	1200	51	14	34
10	45	615	574	1870	704	1490	862	7080	1100	50	19	29
11	41	643	568	2710	683	1340	791	6980	1000	49	20	27
12	39	637	561	4080	668	1190	858	6780	912	48	21	28
13	37	594	556	4500	657	1030	1260	6520	818	46	25	28
14	37	534	550	4420	644	883	4720	6250	728	45	31	27
15	38	487	544	4440	630	759	7760	6100	646	44	33	25
16	37	463	537	4570	630	648	7110	5890	575	43	29	24
17	38	449	553	4540	640	563	6020	5770	500	42	26	23
18	37	447	575	4240	769	500	5160	5650	429	43	23	26
19	36	454	608	3750	1130	464	4620	5470	363	44	22	99
20	37	457	637	3350	1310	443	3990	5220	303	40	21	179
21	60	461	651	3220	1380	428	3390	5010	247	38	21	130
22	62	482	691	3050	1580	416	3240	4640	195	38	23	71
23	54	502	716	2730	1860	403	3130	4230	148	37	20	43
24	43	510	658	2450	2600	396	2900	4080	113	36	20	40
25	35	514	562	2140	2920	389	2520	3960	92	44	19	61
26	31	515	435	1840	3220	358	2120	3750	76	56	18	88
27	30	549	521	1650	3430	267	1800	3560	65	64	17	69
28	30	654	700	1470	3470	309	2300	3440	58	73	18	46
29	29	672	858	1320	---	879	3390	3270	54	72	20	35
30	30	753	941	1190	---	918	5030	3080	51	68	48	31
31	31	---	915	1070	---	869	---	2870	---	60	82	---
TOTAL	1131	13172	19642	71257	36112	39252	79114	177990	25503	1550	772	2016
MEAN	36.5	439	634	2299	1290	1266	2637	5742	850	50.0	24.9	67.2
MAX	62	753	941	4570	3470	3490	7760	9460	2670	73	82	234
MIN	24	32	435	481	630	267	449	2870	51	36	12	23
AC-FT	2240	26130	38960	141300	71630	77860	156900	353000	50590	3070	1530	4000

07349500 BODCAU BAYOU NEAR SAREPTA, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	123	380	724	957	1195	1018	1032	1068	355	217	49.8	76.6
MAX	1159	1934	3319	3312	3128	2988	3240	5733	2320	3254	332	1841
(WY)	1985	1958	1974	1946	1950	1945	1942	1991	1974	1940	1986	1974
MIN	.42	1.12	10.2	55.9	107	124	6.22	14.0	2.62	.47	.25	.20
(WY)	1940	1954	1955	1940	1981	1957	1967	1972	1972	1952	1943	1954

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1939 - 1991		
ANNUAL TOTAL	346457			467511			597		
ANNUAL MEAN	949			1281			1280		
HIGHEST ANNUAL MEAN							157		
LOWEST ANNUAL MEAN							18200		
HIGHEST DAILY MEAN	8130	Mar 10		9460	May 5		May 2	1958	
LOWEST DAILY MEAN	24	Oct 1		12	Aug 5		.10	Aug 3	1939
ANNUAL SEVEN-DAY MINIMUM	26	Sep 28		14	Aug 4		.10	Aug 6	1939
INSTANTANEOUS PEAK FLOW				9710	May 5		18600	May 2	1958
INSTANTANEOUS PEAK STAGE				21.67	May 5		25.14	May 2	1958
INSTANTANEOUS LOW FLOW				11	Aug 5,6,7		.10	1939,43,52,54	
INSTANTANEOUS LOW STAGE				2.33	Aug 6,7		1.43	Aug 14-19,1954	
ANNUAL RUNOFF (AC-FT)	687200			927300			432200		
10 PERCENT EXCEEDS	2840			4140			1650		
50 PERCENT EXCEEDS	521			553			208		
90 PERCENT EXCEEDS	30			28			4.1		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.32	3.65	10.01	9.82	10.84	16.53	9.82	18.43	15.49	3.50	3.50	3.74
2	3.34	3.73	9.80	8.63	10.24	16.56	9.02	18.75	15.22	3.48	3.25	3.85
3	3.39	3.81	9.25	7.84	9.93	16.55	8.11	19.58	14.94	3.51	2.73	3.81
4	3.36	4.51	8.71	7.95	9.86	16.31	7.59	20.64	14.60	3.55	2.45	4.91
5	3.44	5.67	8.43	8.26	9.89	15.85	7.92	21.52	14.19	3.57	2.38	5.86
6	3.63	6.27	8.41	8.93	9.78	15.24	8.99	21.48	13.71	3.59	2.36	4.97
7	3.66	6.70	8.49	10.24	9.67	14.61	9.92	20.84	13.20	3.55	2.35	3.98
8	3.67	7.20	8.49	11.26	9.58	14.11	10.46	20.28	12.65	3.53	2.36	3.43
9	3.79	8.58	8.48	12.18	9.47	13.66	10.54	20.01	12.05	3.52	2.41	3.15
10	3.89	8.99	8.50	13.95	9.35	13.18	10.29	19.93	11.54	3.49	2.58	3.03
11	3.80	9.16	8.45	15.23	9.21	12.65	9.88	19.85	11.08	3.47	2.60	2.97
12	3.75	9.12	8.41	16.82	9.12	12.01	10.25	19.70	10.58	3.44	2.63	3.03
13	3.72	8.85	8.37	17.70	9.05	11.23	11.77	19.50	10.06	3.41	2.75	3.03
14	3.72	8.45	8.33	17.62	8.96	10.41	16.73	19.29	9.53	3.38	2.92	3.00
15	3.74	8.13	8.29	17.64	8.87	9.69	19.89	19.16	9.03	3.35	2.98	2.96
16	3.74	7.95	8.24	17.77	8.87	8.99	20.12	18.99	8.57	3.32	2.89	2.92
17	3.75	7.84	8.35	17.93	8.94	8.42	19.39	18.89	8.05	3.30	2.80	2.89
18	3.73	7.81	8.50	17.61	9.73	7.98	18.64	18.78	7.52	3.34	2.74	2.97
19	3.73	7.84	8.72	17.07	11.67	7.71	18.02	18.63	7.00	3.35	2.71	4.39
20	3.73	7.85	8.92	16.55	12.51	7.55	17.42	18.40	6.48	3.25	2.69	5.38
21	4.19	7.85	9.01	16.23	12.80	7.43	16.69	18.20	5.97	3.21	2.66	4.85
22	4.27	7.99	9.26	16.00	13.48	7.34	16.25	17.95	5.46	3.19	2.74	3.99
23	4.12	8.11	9.42	15.68	14.18	7.23	16.10	17.66	4.98	3.17	2.67	3.46
24	3.91	8.16	9.05	15.25	15.20	7.18	15.80	17.36	4.57	3.14	2.66	3.38
25	3.70	8.17	8.41	14.77	15.83	7.12	15.37	17.12	4.24	3.33	2.63	3.82
26	3.62	8.16	7.48	14.25	16.22	6.85	14.78	16.88	3.99	3.56	2.62	4.30
27	3.59	8.37	8.12	13.70	16.50	6.02	14.17	16.68	3.78	3.72	2.59	3.99
28	3.59	9.06	9.31	13.14	16.54	6.30	14.68	16.50	3.64	3.88	2.61	3.53
29	3.58	9.16	10.26	12.57	---	10.38	16.08	16.29	3.56	3.86	2.69	3.29
30	3.61	9.66	10.73	12.01	---	10.61	17.71	16.04	3.51	3.78	3.36	3.18
31	3.63	---	10.59	11.42	---	10.33	---	15.76	---	3.62	4.06	---
MAX	4.27	9.66	10.73	17.93	16.54	16.56	20.12	21.52	15.49	3.88	4.06	5.86
MIN	3.32	3.65	7.48	7.84	8.87	6.02	7.59	15.76	3.51	3.14	2.35	2.89

RED RIVER BASIN

07349815 CYPRESS BAYOU LAKE NEAR BENTON, LA

LOCATION.--Lat 32°39'07", long 93°40'11", in NE 1/4 SW 1/4 sec.12, T.19 N., R.13 W., Webster Parish, 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 mi².

PERIOD OF RECORD.--January 1975 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 170.00 ft above National Geodetic Vertical Datum 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 rest 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 still 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. Gates were closed all year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.14 ft, Apr. 15, 1991; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.14 ft, Apr. 15; minimum, 8.60 ft, Oct. 20, 21.

CORRECTIONS.--Corrected figures of gage-height, in feet for water year 1990, superseding figures published in WDR-LA-90-1, are given below.

Date	Gage height (feet)	Date	Gage height (feet)
September 27, 1990.....	8.81	September 29	8.79
September 28	8.80	September 30	8.77

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.78	8.80	9.84	10.10	9.83	10.31	10.55	11.16	10.03	9.63	9.12	9.08
2	8.74	8.79	9.80	10.04	9.82	10.33	10.38	10.84	9.99	9.61	9.10	9.17
3	8.73	8.79	9.78	9.99	9.80	10.37	10.24	10.96	9.97	---	9.08	9.34
4	8.75	8.80	9.71	9.92	9.80	10.34	10.15	11.48	9.94	---	9.06	9.42
5	8.73	8.80	9.68	9.88	9.83	10.28	10.08	11.85	9.90	---	9.04	9.50
6	8.71	8.78	9.67	9.92	9.84	10.21	10.01	11.50	9.84	---	9.02	9.57
7	8.70	8.77	9.67	10.02	9.87	10.12	9.98	11.04	9.80	---	9.01	9.61
8	8.70	8.80	9.65	10.08	9.87	10.02	9.96	10.74	9.77	---	8.99	9.63
9	8.76	9.07	9.63	10.16	9.85	9.96	9.96	10.57	9.74	---	8.97	9.63
10	8.75	9.17	9.62	10.62	9.83	9.90	9.94	10.51	9.75	---	8.96	9.62
11	8.73	9.26	9.61	10.74	9.81	9.85	9.90	10.43	9.75	---	8.95	9.62
12	8.71	9.35	9.60	10.81	9.79	9.83	10.59	10.35	9.75	---	8.93	9.61
13	8.69	9.39	9.61	10.73	9.76	9.82	10.94	10.27	9.75	---	8.92	9.60
14	8.67	9.40	9.60	10.59	9.74	9.80	11.71	10.20	9.74	---	8.95	9.58
15	8.67	9.40	9.61	10.87	9.71	9.78	12.10	10.22	9.74	---	8.99	9.57
16	8.66	9.41	9.60	10.91	9.66	9.77	11.75	10.18	9.76	9.20	8.99	9.55
17	8.65	9.41	9.63	10.91	9.67	9.78	11.21	10.22	9.76	9.19	9.00	9.56
18	8.66	9.39	9.65	10.79	10.04	9.78	10.89	10.33	9.75	9.18	9.00	9.58
19	8.63	9.39	9.65	10.62	10.65	9.77	10.67	10.32	9.73	9.16	8.99	9.56
20	8.61	9.39	9.66	10.46	10.79	9.76	10.52	10.26	9.74	9.13	8.97	9.51
21	8.78	9.39	9.70	10.33	10.78	9.76	10.37	10.19	9.74	9.11	8.95	9.48
22	8.86	9.50	9.77	10.23	10.89	9.76	10.40	10.11	9.71	9.09	8.96	9.47
23	8.85	9.59	9.84	10.15	10.89	9.76	10.48	10.03	9.70	9.07	8.95	9.47
24	8.87	9.59	9.87	10.09	10.91	9.75	10.49	9.99	9.68	9.05	8.93	9.52
25	8.87	9.59	9.88	10.01	10.79	9.73	10.51	10.09	9.68	9.09	8.92	9.59
26	8.85	9.60	9.87	9.97	10.60	9.72	10.43	10.31	9.72	9.15	8.91	9.57
27	8.84	9.67	10.04	9.93	10.42	9.72	10.41	10.58	9.70	9.14	8.90	9.57
28	8.84	9.88	10.09	9.91	10.27	9.87	10.84	10.54	9.67	9.16	8.89	9.57
29	8.83	9.87	10.13	9.89	---	10.39	11.23	10.37	9.66	9.16	8.87	9.56
30	8.82	9.87	10.19	9.88	---	10.60	11.38	10.23	9.65	9.15	8.90	9.50
31	8.81	---	10.16	9.85	---	10.66	---	10.11	---	9.14	9.04	---
MAX	8.87	9.88	10.19	10.91	10.91	10.66	12.10	11.85	10.03	---	9.12	9.63
MIN	8.61	8.77	9.60	9.85	9.66	9.72	9.90	9.99	9.65	---	8.87	9.08

07349860 RED CHUTE BAYOU AT SLIGO, LA

LOCATION.--Lat 32°26'50", long 93°35'40", SW 1/4 NW 1/4 sec.22, T.17 N., R.12 W., Bossier Parish, Hydrologic unit 11140204, on downstream side of bridge on State Highway 612, 0.5 mi west of Sligo.

DRAINAGE AREA.--980 mi².

PERIOD OF RECORD.--Annual maximums, water years 1960-80. July 1980 to current year.

REVISED RECORDS.--WDR LA-82-1: 1968-80(M).

GAGE.--Water-stage recorder. Elevation of gage is 120.00 ft above National Geodetic Vertical Datum of 1929. Dec. 1, 1959 to July 10, 1980, crest-stage indicator at same site. Dec. 1, 1966 to July 10, 1980 at datum 121.26 ft lower and prior to Dec. 1, 1966 at National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,800 ft³/s, Apr. 14, gage height, 38.26 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	43	707	1140	2770	3420	2520	5340	2920	2120	284	60
2	13	38	729	1150	2730	3460	2510	5350	2850	2090	223	57
3	15	33	744	1170	2700	3480	2480	5550	2790	2060	164	61
4	16	31	755	1180	2670	3460	2470	5870	2750	2040	124	117
5	14	33	768	1180	2650	3400	2450	5970	2710	2010	94	185
6	12	29	776	1170	2620	3340	2420	5890	2670	1970	78	220
7	13	28	782	1180	2600	3280	2370	5710	2620	1930	71	208
8	13	29	783	1190	2570	3230	2340	5490	2580	1890	66	193
9	16	182	784	1230	2550	3190	2290	5320	2550	1850	66	184
10	21	211	776	2160	2520	3140	2220	5180	2520	1810	58	182
11	20	225	763	2460	2480	3090	2140	5000	2500	1760	50	176
12	19	248	747	2460	2450	3050	4150	4800	2480	1700	45	165
13	21	266	734	2370	2420	3010	6500	4510	2460	1650	43	144
14	20	292	719	2320	2380	2970	6620	4240	2430	1580	45	115
15	18	324	702	2800	2350	2920	6630	4060	2440	1510	52	86
16	16	355	687	3000	2310	2880	6130	3910	2450	1440	62	66
17	14	381	674	3130	2280	2840	5770	3770	2430	1360	68	55
18	14	405	666	3140	2430	2800	5710	3730	2400	1290	64	51
19	15	420	657	3120	3170	2760	5600	3660	2380	1190	59	42
20	16	432	649	3080	3710	2710	5610	3530	2360	1100	53	36
21	22	438	644	3070	3670	2670	5580	3380	2340	1010	46	34
22	43	493	640	3050	3870	2630	5470	3260	2310	938	49	32
23	52	531	637	3030	3880	2580	5350	3150	2290	866	45	34
24	52	495	640	3020	3810	2530	5250	3060	2270	791	44	41
25	57	492	651	2990	3680	2480	5160	3160	2250	720	44	58
26	56	493	672	2960	3560	2430	5040	3270	2240	661	45	90
27	53	513	1020	2930	3450	2380	4920	3210	2220	602	44	110
28	53	709	1010	2900	3370	2350	4880	3130	2200	552	41	113
29	54	647	1030	2860	---	2390	5040	3070	2190	487	37	104
30	54	677	1140	2830	---	2430	5230	3030	2160	421	37	88
31	48	---	1160	2800	---	2490	---	2970	---	353	61	---
TOTAL	863	9493	23846	73070	81650	89790	130850	131570	73760	41751	2262	3107
MEAN	27.8	316	769	2357	2916	2896	4362	4244	2459	1347	73.0	104
MAX	57	709	1160	3140	3880	3480	6630	5970	2920	2120	284	220
MIN	12	28	637	1140	2280	2350	2140	2970	2160	353	37	32
AC-FT	1710	18830	47300	144900	162000	178100	259500	261000	146300	82810	4490	6160

RED RIVER BASIN

07349860 RED CHUTE BAYOU AT SLIGO, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1991, BY WATER YEAR (WY)

MEAN	139	480	940	1386	1857	1864	1431	1364	1087	862	270	113
MAX	724	2001	2067	2991	3127	2896	3493	4244	2567	3288	2130	419
(WY)	1985	1985	1987	1988	1983	1991	1990	1991	1989	1989	1989	1989
MIN	6.97	22.0	47.0	68.8	185	257	157	71.7	14.5	21.8	14.1	4.23
(WY)	1989	1981	1981	1981	1981	1981	1982	1982	1988	1988	1987	1987

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1980 - 1991		
ANNUAL TOTAL	515719			662012			1003		
ANNUAL MEAN	1413			1814			1814		
HIGHEST ANNUAL MEAN							1814		
LOWEST ANNUAL MEAN							206		
HIGHEST DAILY MEAN	3780	Mar 31		6630	Apr 15		6630	Apr 15	1991
LOWEST DAILY MEAN	12	Oct 5		12	Oct 6		2.2	Oct 5	1982
ANNUAL SEVEN-DAY MINIMUM	13	Sep 3		14	Oct 1		2.8	Sep 30	1982
INSTANTANEOUS PEAK FLOW				6800	Apr 14		6800	Apr 14	1991
INSTANTANEOUS PEAK STAGE				38.26	Apr 14		38.26	Apr 14	1991
INSTANTANEOUS LOW FLOW				12	Oct 5,6,7		Not determined		
INSTANTANEOUS LOW STAGE				16.01	Oct 6		Not determined		
ANNUAL RUNOFF (AC-FT)	1023000			1313000			726500		
10 PERCENT EXCEEDS	3260			3870			2690		
50 PERCENT EXCEEDS	843			1760			484		
90 PERCENT EXCEEDS	20			42			20		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.06	16.80	22.39	24.69	30.78	32.53	30.05	36.34	31.20	28.69	19.34	16.99
2	16.07	16.70	22.51	24.74	30.68	32.64	30.03	36.36	31.02	28.58	18.82	16.94
3	16.12	16.60	22.59	24.85	30.59	32.69	29.95	36.64	30.86	28.47	18.26	17.00
4	16.15	16.54	22.65	24.89	30.50	32.63	29.91	37.08	30.73	28.39	17.80	17.73
5	16.10	16.58	22.72	24.88	30.46	32.49	29.84	37.21	30.62	28.28	17.46	18.47
6	16.01	16.52	22.77	24.86	30.37	32.32	29.72	37.10	30.49	28.15	17.26	18.79
7	16.05	16.49	22.80	24.92	30.28	32.18	29.57	36.86	30.37	28.00	17.15	18.69
8	16.07	16.51	22.80	24.94	30.22	32.05	29.46	36.55	30.25	27.85	17.09	18.55
9	16.15	18.45	22.81	25.13	30.14	31.93	29.28	36.31	30.14	27.71	17.08	18.47
10	16.29	18.87	22.77	28.80	30.05	31.79	29.03	36.10	30.06	27.53	16.95	18.45
11	16.27	19.00	22.69	29.88	29.95	31.67	28.76	35.84	30.00	27.34	16.82	18.39
12	16.25	19.20	22.61	29.87	29.84	31.56	28.76	35.54	29.94	27.13	16.73	18.28
13	16.29	19.35	22.53	29.58	29.73	31.45	28.76	35.09	29.85	26.91	16.69	18.04
14	16.27	19.56	22.45	29.38	29.61	31.34	28.76	34.53	29.78	26.65	16.72	17.71
15	16.23	19.81	22.36	30.85	29.48	31.22	28.76	34.11	29.79	26.37	16.86	17.36
16	16.14	20.04	22.27	31.44	29.36	31.10	28.76	33.76	29.82	26.04	17.01	17.08
17	16.08	20.24	22.20	31.79	29.25	31.00	28.76	33.41	29.75	25.71	17.12	16.90
18	16.08	20.42	22.15	31.81	29.76	30.88	28.76	33.31	29.68	25.39	17.05	16.84
19	16.13	20.54	22.10	31.76	31.86	30.75	28.76	33.14	29.60	24.97	16.97	16.67
20	16.16	20.63	22.05	31.66	33.27	30.63	28.76	32.81	29.53	24.49	16.87	16.56
21	16.33	20.67	22.03	31.61	33.17	30.50	28.76	32.43	29.45	24.04	16.75	16.50
22	16.80	21.04	22.00	31.56	33.65	30.38	28.76	32.11	29.36	23.67	16.79	16.47
23	16.98	21.31	21.98	31.52	33.68	30.24	28.76	31.84	29.29	23.26	16.72	16.51
24	16.97	21.07	22.00	31.48	33.52	30.09	28.76	31.60	29.23	22.83	16.71	16.64
25	17.07	21.05	22.07	31.40	33.20	29.93	28.76	31.87	29.16	22.42	16.70	16.94
26	17.04	21.05	22.19	31.31	32.89	29.77	28.76	32.16	29.13	22.06	16.72	17.41
27	16.99	21.19	24.11	31.23	32.62	29.60	28.76	31.98	29.06	21.68	16.70	17.65
28	16.99	22.39	24.04	31.14	32.40	29.49	28.76	31.79	28.97	21.34	16.64	17.68
29	17.01	22.04	24.18	31.05	---	29.62	28.76	31.63	28.93	20.88	16.57	17.58
30	17.01	22.22	24.70	30.97	---	29.76	28.76	31.50	28.82	20.39	16.57	17.39
31	16.90	---	24.81	30.88	---	29.97	28.76	31.35	---	19.87	16.99	---
MAX	17.07	22.39	24.81	31.81	33.68	32.69	28.76	37.21	31.20	28.69	19.34	18.79
MIN	16.01	16.49	21.98	24.69	29.25	29.49	28.76	31.35	28.82	19.87	16.57	16.47

07350500 RED RIVER AT COUSHATTA, LA

LOCATION.--Lat 32°00'45", long 93°21'10", in lot 23, T. 12 N., R. 10 W., Red River Parish, Hydrologic Unit 08040301 at bridge on U.S. Highway 84 at Coushatta, 11.0 mi downstream from Coushatta Bayou, and at mile 242.4.

DRAINAGE AREA.--63,362 mi².

PERIOD OF RECORD.--Water years 1970-1976, 1987 to current year.

REMARKS.--Water-quality samples are non-integrated and collected from center span of bridge.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990										
24...	1030	219	7.09	18.0	60	55	8.8	31	1.8	400
NOV										
07...	0930	517	7.88	16.5	60	23	10.2	36	3.0	K1200
DEC										
04...	1445	387	7.74	12.5	40	33	9.9	26	1.5	200
JAN 1991										
09...	1430	161	7.07	8.0	80	100	11.3	30	3.2	1800
FEB										
20...	0945	184	7.44	12.5	60	130	10.5	35	3.7	K7900
MAR										
06...	0945	210	7.33	14.5	80	60	9.8	--	2.2	580
APR										
10...	1100	403	7.42	21.0	60	45	8.6	25	1.3	K340
MAY										
15...	1030	305	7.27	23.5	50	65	6.4	31	1.3	1400
JUN										
26...	0950	977	7.83	29.0	20	130	7.0	35	1.9	K160
JUL										
30...	1010	1010	7.97	30.0	20	17	7.5	24	4.3	150
AUG										
21...	0945	1020	7.83	30.5	15	9.2	8.1	42	3.9	58
SEP										
11...	0915	468	7.24	29.0	30	36	7.7	35	3.2	400

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990										
24...	110	200	--	--	3.2	15	2.5	56	18	20
NOV										
07...	210	88	140	43	9.1	45	3.9	138	44	52
DEC										
04...	100	100	100	28	8.0	33	3.5	75	46	46
JAN 1991										
09...	450	850	51	15	3.3	9.3	2.5	40	13	12
FEB										
20...	K2400	K2500	54	15	4.1	11	2.4	48	16	15
MAR										
06...	K100	120	52	15	3.5	16	2.2	45	19	19
APR										
10...	K36	K40	92	25	7.1	36	2.4	65	35	50
MAY										
15...	340	230	76	22	5.0	24	2.6	53	22	34
JUN										
26...	K80	110	210	54	18	96	4.4	106	--	150
JUL										
30...	64	K22	280	75	23	98	4.8	183	110	130
AUG										
21...	K20	200	270	70	23	110	4.8	172	110	150
SEP										
11...	150	97	120	33	10	42	3.2	101	39	54

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07350500 RED RIVER AT COUSHATTA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990									
24...	124	90	0.02	0.22	0.67	0.89	0.12	0.10	7.7
NOV									
07...	286	47	0.01	0.07	0.82	0.89	0.13	0.05	8.9
DEC									
04...	222	56	0.02	0.16	0.68	0.84	0.10	0.07	7.5
JAN 1991									
09...	98	191	0.04	0.21	0.77	0.98	0.18	0.10	8.9
FEB									
20...	114	259	E0.05	E0.17	E1.1	--	E0.29	E0.14	10
MAR									
06...	122	116	0.02	0.09	0.77	0.86	0.16	0.07	8.8
APR									
10...	222	100	0.01	0.11	0.64	0.75	0.13	0.05	6.9
MAY									
15...	176	140	0.02	0.20	0.69	0.89	0.14	0.10	9.2
JUN									
26...	557	278	0.01	0.22	0.74	0.96	0.08	0.07	8.1
JUL									
30...	582	39	<0.01	<0.02	0.83	--	0.12	0.05	8.6
AUG									
21...	596	15	<0.01	<0.02	0.75	--	0.10	0.05	6.1
SEP									
11...	240	58	0.01	<0.02	0.78	--	0.12	0.06	9.2

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 1990								
24...	2	<10	<1	6	5	2000	10	140
JAN 1991								
09...	2	<10	<1	7	5	4300	8	150
APR								
10...	1	<10	<1	3	3	2100	3	160
JUL								
30...	3	<10	<1	16	4	1700	3	380

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 1990							
24...	<0.1	4	<1	20	<0.01	3	<1
JAN 1991							
09...	0.1	6	<1	20	<0.01	10	<1
APR							
10...	<0.1	3	<1	10	<0.01	<1	<1
JUL							
30...	<0.1	3	<1	10	<0.01	--	<1

< Actual value is known to be less than the value shown.
E Estimated.

07351500 CYPRESS BAYOU NEAR KEITHVILLE, LA

LOCATION.--Lat 32°18'00", long 93°49'40", in SW 1/4 sec.8, T.15 N., R.14 W., Caddo Parish, Hydrologic Unit 11140206, on downstream side of bridge on U.S. Highway 171, immediately downstream from Texas and Pacific Railroad bridge, 2.0 mi south of Keithville, and 6.0 mi upstream from mouth of Boggy Bayou.

DRAINAGE AREA.--66 mi².

PERIOD OF RECORD.--Sept. 26, 1938 to September 1957. October 1957 to September 1982 (annual maximum). Oct. 4, 1982, to current year.

REVISED RECORDS.--WSP 1211: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 162.13 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records fair above 50 ft³/s and poor below. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of July 1933 reached a stage of 18.0 ft, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	1330	7,710	11.51	Feb. 19	1600	4,190	11.00
Jan. 15	1730	4,400	11.04	Apr. 14	2200	*15,000	12.10

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	.79	15	158	21	282	12	30	54	1.4	3.0	33
2	.81	.77	11	60	18	548	9.5	16	24	1.1	3.3	11
3	.77	.74	7.6	165	16	149	7.9	305	14	.94	3.6	38
4	.81	.72	6.0	137	15	67	24	1680	9.9	2.9	3.4	33
5	.80	.72	4.5	60	37	44	48	840	7.8	17	3.2	10
6	.75	.70	3.4	40	88	35	24	301	6.0	1.9	2.6	5.1
7	.72	.76	3.1	115	63	28	16	61	5.0	1.2	2.3	4.0
8	.69	.92	3.1	116	37	21	21	37	4.2	.93	2.1	3.5
9	.68	103	3.1	116	25	17	20	305	3.8	.87	2.2	11
10	1.3	276	2.4	4330	20	15	12	581	4.1	.81	6.7	6.1
11	2.1	28	2.0	2100	16	14	9.2	191	8.1	.77	3.9	3.8
12	1.1	11	1.8	583	13	13	306	55	8.6	.72	3.0	3.5
13	.86	7.2	1.4	149	12	12	1440	30	5.2	.67	3.0	3.0
14	.77	5.5	.94	74	11	12	8960	20	3.7	.61	4.6	2.4
15	.73	4.5	.91	2010	10	11	3300	36	4.1	.58	22	2.1
16	.67	4.0	.98	1310	8.4	11	460	84	24	.51	8.8	1.8
17	.64	3.3	.96	285	9.9	13	88	36	12	.47	4.9	1.6
18	.66	2.9	1.1	125	377	15	589	22	6.9	.67	4.0	5.3
19	.63	2.6	1.1	534	3030	13	764	56	14	.51	3.5	12
20	.63	2.3	.97	336	1500	12	188	58	14	.39	3.6	6.3
21	.83	2.2	1.0	115	434	11	56	34	8.1	.36	4.6	4.0
22	5.6	9.4	29	61	1750	11	34	29	4.8	.36	158	3.3
23	3.2	244	10	42	948	10	33	30	3.7	.34	91	2.5
24	1.2	59	2.2	52	242	9.1	26	22	3.5	.32	6.3	5.2
25	.93	16	.92	117	97	8.0	19	493	3.3	.35	1.8	166
26	.86	9.6	1.4	68	71	7.8	15	1170	2.6	.58	.91	26
27	.80	8.1	929	47	53	7.8	13	232	2.3	.94	.81	7.4
28	.77	386	1330	37	41	8.2	16	42	2.1	1.1	.59	4.1
29	.77	261	293	31	---	55	273	66	2.1	3.8	.51	3.2
30	.77	31	130	28	---	47	100	392	1.7	3.8	51	3.5
31	.79	---	411	25	---	19	---	222	---	2.9	281	---
TOTAL	33.47	1482.72	3208.88	13426	8963.3	1525.9	16883.6	7476	267.6	49.80	690.22	421.7
MEAN	1.08	49.4	104	433	320	49.2	563	241	8.92	1.61	22.3	14.1
MAX	5.6	386	1330	4330	3030	548	8960	1680	54	17	281	166
MIN	.63	.70	.91	25	8.4	7.8	7.9	16	1.7	.32	.51	1.6
AC-FT	66	2940	6360	26630	17780	3030	33490	14830	531	99	1370	836
CFSM	.02	.75	1.57	6.56	4.85	.75	8.53	3.65	.14	.02	.34	.21
IN.	.02	.84	1.81	7.57	5.05	.86	9.52	4.21	.15	.03	.39	.24

07351500 CYPRESS BAYOU NEAR KEITHVILLE, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	28.3	56.8	92.9	147	188	119	107	129	58.9	17.6	19.1	1.22
MAX	370	437	534	649	452	325	563	517	436	196	454	14.1
(WY)	1950	1941	1941	1946	1990	1945	1991	1953	1986	1989	1955	1991
MIN	.000	.000	.000	3.26	5.73	4.57	5.19	1.84	.005	.000	.000	.000
(WY)	1940	1940	1957	1956	1943	1986	1943	1988	1988	1954	1943	1939

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1939 - 1991

ANNUAL TOTAL	53676.62			54429.19								
ANNUAL MEAN	147			149						80.7		
HIGHEST ANNUAL MEAN										168		1941
LOWEST ANNUAL MEAN										3.59		1943
HIGHEST DAILY MEAN	3970	Mar 30		8960	Apr 14					11200	Aug 3	1955
LOWEST DAILY MEAN	.00	Aug 19		.32	Jul 24					.00	Jun 15	1939
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 28		.38	Jul 19					.00	Jun 15	1939
INSTANTANEOUS PEAK FLOW				15000	Apr 14					23700	Aug 3	1955
INSTANTANEOUS PEAK STAGE				12.10	Apr 14					13.62	Aug 3	1955
INSTANTANEOUS LOW FLOW										No flow at times each year		
ANNUAL RUNOFF (AC-FT)	106500			108000						58470		
ANNUAL RUNOFF (CFSM)	2.23			2.26						1.22		
ANNUAL RUNOFF (INCHES)	30.25			30.68						16.62		
10 PERCENT EXCEEDS	283			283						105		
50 PERCENT EXCEEDS	6.9			9.9						4.5		
90 PERCENT EXCEEDS	.50			.77						.00		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.29	1.71	2.37	4.97	2.66	5.86	2.09	2.77	3.38	1.30	1.56	2.96
2	1.28	1.74	2.17	3.60	2.54	8.20	1.96	2.28	2.57	1.25	1.60	2.18
3	1.27	1.77	2.01	5.06	2.47	4.90	1.87	5.49	2.18	1.21	1.63	2.88
4	1.28	1.80	1.91	4.78	2.45	3.66	2.37	10.26	1.98	1.33	1.62	2.92
5	1.28	1.85	1.80	3.59	3.05	3.15	3.25	9.43	1.86	2.20	1.60	2.14
6	1.26	1.88	1.70	3.17	4.13	2.91	2.58	6.27	1.75	1.37	1.55	1.84
7	1.25	1.96	1.68	4.41	3.70	2.70	2.27	3.52	1.68	1.27	1.52	1.75
8	1.27	2.03	1.70	4.50	3.13	2.48	2.47	2.97	1.61	1.20	1.50	1.71
9	1.39	3.81	1.71	4.26	2.80	2.32	2.42	5.97	1.58	1.17	1.51	2.14
10	1.53	6.09	1.66	10.74	2.61	2.22	2.09	8.44	1.61	1.14	1.87	1.91
11	1.74	2.80	1.62	10.38	2.48	2.18	1.94	5.27	1.86	1.11	1.69	1.74
12	1.59	2.22	1.61	8.28	2.37	2.18	5.47	3.41	1.91	1.08	1.61	1.71
13	1.50	1.99	1.65	4.92	2.36	2.19	10.13	2.75	1.69	1.06	1.62	1.67
14	1.46	1.88	1.69	3.86	2.36	2.11	11.53	2.45	1.57	1.03	1.75	1.59
15	1.43	1.86	1.82	9.31	2.25	2.04	10.58	2.88	1.60	1.01	2.61	1.56
16	1.42	1.89	1.97	9.81	2.12	2.04	7.44	3.97	2.55	.97	2.05	1.52
17	1.46	1.89	1.98	6.20	2.20	2.15	4.05	2.93	2.08	.95	1.80	1.49
18	1.49	1.92	2.07	4.62	5.96	2.21	7.94	2.50	1.81	1.06	1.73	1.84
19	1.48	1.96	2.13	8.13	10.71	2.12	9.03	3.40	2.12	.98	1.69	2.22
20	1.48	2.00	2.13	6.69	10.03	2.07	5.27	3.45	2.20	.91	1.71	1.93
21	1.59	2.04	2.14	4.51	7.44	2.02	3.43	2.88	1.88	.91	1.80	1.76
22	2.08	2.28	3.18	3.66	10.00	2.03	2.88	2.73	1.66	.91	4.25	1.69
23	1.94	5.92	2.83	3.26	9.40	2.01	2.86	2.76	1.56	.90	3.87	1.61
24	1.71	3.48	2.32	3.44	5.86	1.94	2.64	2.50	1.55	.90	2.14	1.78
25	1.65	2.43	2.10	4.55	4.21	1.88	2.38	6.85	1.53	.91	1.73	5.10
26	1.65	2.12	2.11	3.80	3.75	1.87	2.21	9.84	1.46	1.05	1.58	2.72
27	1.68	2.03	8.34	3.37	3.37	1.86	2.16	5.53	1.42	1.25	1.52	1.99
28	1.68	6.89	9.88	3.14	3.07	1.89	2.26	3.10	1.40	1.28	1.41	1.76
29	1.67	5.84	6.24	2.97	---	3.29	6.08	3.59	1.41	1.60	1.36	1.68
30	1.68	2.89	4.67	2.88	---	3.20	4.16	6.87	1.35	1.63	2.52	1.71
31	1.68	---	7.33	2.80	---	2.38	---	5.64	---	1.55	6.15	---
MAX	2.08	6.89	9.88	10.74	10.71	8.20	11.53	10.26	3.38	2.20	6.15	5.10
MIN	1.25	1.71	1.61	2.80	2.12	1.86	1.87	2.28	1.35	.90	1.36	1.49

07351750 BAYOU PIERRE NEAR LAKE END, LA

LOCATION.--Lat 31°53'40", long 93°20'30", in E 1/2 sec.36, T.11 N., R.10 W., Natchitoches Parish, Hydrologic Unit 11140206, near left bank on downstream side of bridge on State Highway 174, 1/2 mi downstream from Jims River, and 2.9 mi southwest of Lake End.

DRAINAGE AREA.--860 mi².

PERIOD OF RECORD.--October 1980 to current year. November 30, 1959 to September 1980, annual maximum and miscellaneous measurements only.

GAGE.--Water stage recorder. Datum of gage is 90.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to September 1980, nonrecording gage at same site. Water stage recorder for Bayou Pierre near Powhatan (station 07351750) used as auxiliary gage for this station at datum 83.61 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Indefinite stage-discharge relationship: Apr. 29 to May 3, May 13-16, and June 12-15. Records fair. Backwater from Red River. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 978 ft³/s, 708,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s, May 18, 1989, gage height, 33.58 ft; maximum gage height, 33.63 ft, May 19, 1989; minimum daily discharge, 12 ft³/s, June 10, 11, 15, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,600 ft³/s, Feb. 23, gage height, 26.15 ft; maximum gage height 30.77 ft, Apr. 20; minimum discharge, 58 ft³/s, Oct. 3, 10; minimum gage height, 0.91 ft, Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	70	1550	3020	1220	5290	553	e5400	2480	317	139	1670
2	60	67	1170	2520	1060	4310	500	e5000	2130	258	119	2000
3	59	64	881	2620	932	3730	417	e4900	1690	346	106	3360
4	61	63	676	2510	819	3190	412	5130	1370	303	99	3940
5	62	63	532	2120	732	2630	632	5150	1110	285	94	3400
6	61	63	417	1750	684	2110	578	5000	1030	472	90	2820
7	60	68	341	1560	657	1770	557	4710	980	489	87	2090
8	60	74	288	1450	616	1580	732	4350	832	403	98	1480
9	60	123	276	1430	574	1380	722	4050	656	412	168	1240
10	59	447	224	5230	505	1200	670	3970	612	386	218	1070
11	67	895	180	8430	460	e1040	631	4010	546	352	373	887
12	94	945	148	9630	416	e880	832	3790	470	e270	426	708
13	104	781	121	9720	375	e750	1690	e3500	450	e210	338	557
14	207	641	106	9300	341	e600	6260	e3300	420	e180	676	436
15	181	533	98	9230	311	e500	8610	e3000	400	e160	1620	339
16	94	439	88	8850	292	e450	9140	e2900	608	e140	1670	260
17	254	351	83	8460	264	e400	9130	3020	1150	133	1370	203
18	278	273	382	8140	436	e380	9350	3630	1180	127	1120	169
19	284	212	723	7880	2860	e340	9270	3710	997	121	913	159
20	283	166	619	7130	6670	e310	9210	4210	905	139	726	150
21	243	133	504	6210	9030	e280	9090	4530	810	138	542	132
22	166	119	558	5220	10300	e260	8920	4240	696	123	808	122
23	112	234	726	4220	10400	e245	8610	3620	654	111	1950	107
24	157	484	699	3430	10400	e235	8300	2930	551	105	2280	103
25	148	604	631	3040	10100	e230	7860	2270	548	103	1880	103
26	119	540	526	2790	9470	224	7360	2080	474	101	1460	150
27	101	492	1550	2510	8270	196	6880	2150	363	105	1080	224
28	91	1050	3240	2200	6850	225	6500	2060	328	122	785	254
29	82	1600	4070	1840	---	385	e6200	2330	361	120	575	284
30	77	1780	4000	1620	---	499	e5800	2750	379	124	437	239
31	72	---	3550	1410	---	563	---	2610	---	147	978	---
TOTAL	3818	13374	28957	145470	95044	36182	145416	114300	25180	6802	23225	28656
MEAN	123	446	934	4693	3394	1167	4847	3687	839	219	749	955
MAX	284	1780	4070	9720	10400	5290	9350	5400	2480	489	2280	3940
MIN	59	63	83	1410	264	196	412	2060	328	101	87	103
AC-FT	7570	26530	57440	288500	188500	71770	288400	226700	49940	13490	46070	56840

CAL YR 1990 TOTAL 548258 MEAN 1502 MAX 11100 MIN 59 AC-FT 1087000
WTR YR 1991 TOTAL 666424 MEAN 1826 MAX 10400 MIN 59 AC-FT 1322000

e Estimated.

RED RIVER BASIN

07351750 BAYOU PIERRE NEAR LAKE END, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	1.06	10.22	14.48	8.69	19.23	5.93	26.02	13.26	5.25	1.69	10.80
2	.94	1.02	8.44	13.35	7.88	17.17	5.46	25.21	12.39	4.72	1.51	12.03
3	.93	.99	6.92	13.59	7.20	15.95	4.93	24.33	10.90	4.66	1.38	15.17
4	.96	.98	5.77	13.33	6.59	14.85	4.78	24.53	9.41	4.10	1.31	16.36
5	.97	.98	4.85	12.36	6.10	13.62	5.56	24.89	8.21	3.69	1.26	15.27
6	.95	.98	4.07	11.15	5.82	12.33	5.15	25.01	7.69	4.50	1.22	14.02
7	.95	1.04	3.56	10.27	5.66	11.25	5.07	24.80	7.45	4.50	1.19	12.15
8	.94	1.11	3.37	9.78	5.40	10.40	6.14	24.52	6.66	3.87	1.30	9.89
9	.94	1.68	3.09	9.75	5.19	9.45	6.04	24.37	5.61	3.95	1.98	8.75
10	.93	4.26	2.70	18.93	5.12	8.57	5.73	24.22	5.32	3.74	2.43	7.93
11	1.02	7.00	2.35	23.77	5.04	7.76	5.49	24.01	5.41	3.47	3.64	6.96
12	1.37	7.27	2.07	25.37	4.80	---	6.65	23.50	5.79	3.18	4.05	5.95
13	1.48	6.38	1.83	25.72	4.53	---	10.25	22.73	6.85	2.98	3.36	5.02
14	2.53	5.55	1.68	25.32	4.22	---	21.08	21.80	7.53	2.88	5.55	4.20
15	3.28	4.86	1.61	25.42	3.85	---	26.15	21.12	7.33	2.74	10.58	3.54
16	3.40	4.22	1.50	24.94	3.39	---	27.55	20.68	7.76	---	10.80	2.97
17	3.24	3.61	1.44	24.50	3.00	---	28.28	20.46	9.17	1.64	9.39	2.53
18	3.10	3.06	3.73	24.21	4.16	---	30.29	20.90	9.41	1.58	8.19	2.26
19	3.15	2.61	6.04	24.00	13.35	---	30.62	20.65	9.21	1.53	7.10	2.17
20	3.14	2.23	5.42	23.13	20.86	---	30.47	20.94	9.22	1.70	6.04	2.09
21	2.84	1.95	4.66	21.92	24.03	---	30.13	20.94	8.88	1.69	4.85	1.94
22	2.14	1.81	5.02	20.46	25.76	---	29.67	19.91	8.33	1.55	6.41	1.84
23	1.58	2.75	6.06	18.80	25.90	---	29.08	17.82	8.13	1.43	11.72	1.70
24	2.05	4.53	5.91	17.32	25.82	---	28.40	15.58	7.99	1.37	12.78	1.66
25	1.96	5.32	5.60	16.21	25.40	2.70	27.55	13.80	8.14	1.35	11.64	1.66
26	1.65	4.91	5.48	15.08	24.58	2.59	26.55	13.36	7.96	1.33	9.80	2.09
27	1.45	4.57	9.96	13.88	23.28	2.48	25.47	13.46	7.52	1.37	7.98	2.69
28	1.32	7.78	14.94	12.66	21.46	2.70	24.48	12.81	7.15	1.54	6.39	2.93
29	1.22	10.47	16.61	11.53	---	3.86	27.57	12.95	6.44	1.52	5.08	3.20
30	1.14	11.28	16.46	10.54	---	5.16	26.93	13.89	5.79	1.55	4.13	2.81
31	1.09	---	15.58	9.60	---	6.02	---	13.58	---	1.78	7.35	---
MAX	3.40	11.28	16.61	25.72	25.90	---	30.62	26.02	13.26	---	12.78	16.36
MIN	.93	.98	1.44	9.60	3.00	---	4.78	12.81	5.32	---	1.19	1.66

07351930 RED RIVER AT GRAND ECOPE, LA

LOCATION.--Lat 31°49'05", long 93°05'05" in NE 1/4 sec.51, T.10N., R.7W., Natchitoches Parish, Hydrologic Unit 1114027, at bridge on State Highway 6 at Grand Ecope, and 4.0 mi north of Natchitoches.

DRAINAGE AREA.--64,575 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Water-quality samples are non-integrated and collected from center span of bridge.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990										
24...	0930	249	7.17	17.5	60	70	8.8	37	1.0	270
NOV										
07...	1030	489	8.07	16.0	40	27	10.6	33	3.1	540
DEC										
04...	1345	422	7.83	12.5	40	55	9.8	27	1.7	--
JAN 1991										
09...	1315	162	7.08	8.0	120	120	11.9	34	4.1	510
FEB										
20...	0845	184	7.44	13.0	120	200	10.1	47	4.7	>7500
MAR										
06...	0830	204	7.32	14.0	100	65	9.8	27	2.3	240
APR										
10...	0945	372	7.43	20.5	50	55	8.3	28	1.3	500
MAY										
15...	0905	262	7.67	23.0	60	65	6.4	35	1.6	1000
JUN										
26...	0840	943	7.80	29.0	20	100	6.5	33	1.4	340
JUL										
30...	0820	1050	7.97	30.0	20	14	7.4	16	4.7	K50
AUG										
21...	0830	919	7.77	30.0	15	17	7.4	40	3.6	120
SEP										
11...	0745	432	7.18	28.5	30	34	7.1	32	2.7	350

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990										
24...	K60	180	69	21	4.0	18	2.5	64	19	22
NOV										
07...	120	54	140	40	10	39	3.5	135	42	46
DEC										
04...	70	K20	110	30	8.8	38	3.9	73	52	55
JAN 1991										
09...	480	860	49	14	3.3	8.9	2.4	41	14	12
FEB										
20...	K3600	K4300	52	14	4.1	10	2.4	48	10	14
MAR										
06...	K120	130	54	16	3.5	15	2.0	43	18	20
APR										
10...	200	K48	90	25	6.6	33	2.4	60	39	45
MAY										
15...	880	240	72	22	4.1	19	2.6	51	--	28
JUN										
26...	200	160	210	53	18	89	4.3	102	75	150
JUL										
30...	K20	K14	290	75	24	100	4.9	197	110	130
AUG										
21...	K40	85	230	61	20	98	4.3	153	100	130
SEP										
11...	K100	120	110	28	10	40	3.2	92	36	50

> Actual value is known to be greater than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07351930 RED RIVER AT GRAND ECORE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990									
24...	139	147	0.03	0.23	0.74	0.97	0.16	0.11	8.8
NOV									
07...	276	69	0.01	0.02	0.88	0.90	0.13	0.05	9.4
DEC									
04...	244	114	0.02	0.18	0.82	1.0	0.16	0.10	9.1
JAN 1991									
09...	97	277	0.04	0.18	1.1	1.3	0.29	0.09	11
FEB									
20...	111	349	E0.08	E0.27	E1.5	--	E0.40	E0.23	13
MAR									
06...	116	136	0.02	0.11	0.80	0.91	0.18	0.07	9.4
APR									
10...	210	112	0.02	0.16	0.78	0.94	0.11	0.06	7.0
MAY									
15...	157	128	0.02	0.21	0.86	1.1	0.15	0.11	8.8
JUN									
26...	533	157	0.01	0.27	0.90	1.2	0.28	0.07	7.9
JUL									
30...	598	40	<0.01	<0.02	0.93	--	0.10	0.05	9.2
AUG									
21...	528	25	0.01	<0.02	0.70	--	0.11	0.06	6.9
SEP									
11...	249	57	0.01	<0.02	0.88	--	0.14	0.06	9.5

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 1990								
24...	2	<10	<1	4	5	2500	6	190
JAN 1991								
09...	3	<10	<1	8	7	6000	8	210
APR								
10...	2	<10	<1	4	5	2500	6	170
JUL								
30...	2	<10	<1	10	4	670	1	230

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 1990							
24...	<0.1	4	<1	20	<0.01	3	2
JAN 1991							
09...	<0.1	8	<1	30	<0.01	6	<1
APR							
10...	0.2	4	<1	20	<0.01	<1	<1
JUL							
30...	<0.1	2	<1	10	<0.01	2	<1

< Actual value is known to be less than the value shown.
E Estimated.

07352000 SALINE BAYOU NEAR LUCKY, LA

LOCATION.--Lat 32°15'00", long 92°58'35", in SW 1/4 sec.27, T.15 N., R.6 W., Bienville Parish, Hydrologic Unit 11140208, near center of span on downstream side of bridge on State Highway 4, 0.7 mi downstream from Sixmile Creek, and 1.0 mi east of Lucky.

DRAINAGE AREA.--154 mi².

PERIOD OF RECORD.--June 1940 to current year.

REVISED RECORDS.--WSP 1177: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 152.65 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 28, 1949, nonrecording gage, Mar. 1, 1949 to Apr. 26, 1971, water-stage recorder, at same site and datum.

REMARKS.--Records fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 21, 1990	2400	1,430	7.40	Jan. 12	0500	2,420	8.14
Feb. 20, 1991	0900	7,500	10.46	Apr. 15	1315	3,720	8.89
Apr. 30	0100	*8,930	*10.92	May 5	0100	4,470	9.26
May 19	2300	1,920	7.79				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	21	148	508	161	363	165	2040	143	88	44	106
2	17	21	98	452	149	421	130	1000	125	58	35	86
3	16	21	85	517	140	449	113	889	103	47	29	197
4	17	23	78	459	137	444	121	2620	87	49	27	159
5	18	32	71	411	183	360	134	3460	75	283	25	101
6	18	33	65	383	232	274	116	1760	67	288	24	63
7	18	32	83	296	250	235	115	1090	61	198	25	51
8	17	32	86	244	220	207	195	773	56	109	25	45
9	20	163	79	231	180	183	194	575	51	75	37	42
10	22	253	71	701	157	165	159	407	64	65	67	52
11	22	218	67	1550	144	152	134	333	98	57	56	60
12	21	164	63	2190	135	148	193	275	151	48	44	54
13	20	90	60	1370	128	147	794	229	201	39	42	49
14	19	59	57	859	122	143	1670	192	223	35	58	41
15	18	47	56	744	114	136	3460	187	158	31	97	35
16	18	42	56	750	106	130	2620	186	169	28	97	31
17	18	40	67	804	117	159	1420	214	232	29	84	31
18	17	39	219	951	227	163	1090	268	199	41	60	44
19	17	39	600	827	2670	157	946	1010	145	39	45	50
20	16	39	545	627	6660	144	727	1660	125	36	36	44
21	36	40	872	498	3160	130	643	1030	116	31	31	39
22	67	62	1340	421	1880	126	571	705	83	30	39	36
23	57	145	975	301	1500	130	465	469	70	26	50	33
24	36	168	903	252	1200	129	601	299	79	25	40	47
25	26	121	759	247	903	115	897	241	105	25	31	201
26	22	86	463	249	671	105	709	221	89	62	28	227
27	22	74	474	234	454	99	473	216	82	101	27	164
28	21	180	711	210	325	121	335	190	86	68	28	80
29	21	208	754	195	---	178	4350	156	116	69	28	52
30	21	202	892	184	---	197	6420	148	155	77	80	41
31	21	---	727	174	---	203	---	150	---	61	115	---
TOTAL	716	2694	11524	17839	22325	6113	29960	22993	3514	2218	1454	2261
MEAN	23.1	89.8	372	575	797	197	999	742	117	71.5	46.9	75.4
MAX	67	253	1340	2190	6660	449	6420	3460	232	288	115	227
MIN	16	21	56	174	106	99	113	148	51	25	24	31
AC-FT	1420	5340	22860	35380	44280	12130	59430	45610	6970	4400	2880	4480
CFSM	.15	.58	2.41	3.74	5.18	1.28	6.48	4.82	.76	.46	.30	.49
IN.	.17	.65	2.78	4.31	5.39	1.48	7.24	5.55	.85	.54	.35	.55

07352000 SALINE BAYOU NEAR LUCKY, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1991, BY WATER YEAR (WY)

MEAN	44.3	125	210	307	334	287	253	272	120	67.6	32.9	42.3
MAX	310	713	971	1116	925	693	999	1122	652	1010	177	280
(WY)	1946	1958	1983	1945	1983	1973	1991	1953	1959	1989	1955	1958
MIN	5.73	11.9	25.0	29.5	36.9	53.7	27.3	14.3	12.0	5.60	4.76	4.45
(WY)	1968	1944	1944	1967	1981	1967	1978	1988	1985	1966	1954	1982

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1941 - 1991		
ANNUAL TOTAL	95919			123611					
ANNUAL MEAN	263			339					
HIGHEST ANNUAL MEAN							174		
LOWEST ANNUAL MEAN							371		
HIGHEST DAILY MEAN	3630			6660			11100		
LOWEST DAILY MEAN	15			16			2.6		
ANNUAL SEVEN-DAY MINIMUM	17			17			2.9		
INSTANTANEOUS PEAK FLOW				8930			a13500		
INSTANTANEOUS PEAK STAGE				10.92			12.90		
INSTANTANEOUS LOW FLOW				16			2.4		
INSTANTANEOUS LOW STAGE				2.75			1.66		
ANNUAL RUNOFF (AC-FT)	190300			245200			125800		
ANNUAL RUNOFF (CFSM)	1.71			2.20			1.13		
ANNUAL RUNOFF (INCHES)	23.17			29.86			15.32		
10 PERCENT EXCEEDS	816			840			428		
50 PERCENT EXCEEDS	86			125			62		
90 PERCENT EXCEEDS	21			26			11		

* Occurred on Oct 2,3,4,19,20,21.

a From rating curve extended above 6,400 ft³/s, on basis of record for Black Bayou near Castor and Dugdemona River near Jonesboro.GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.78	2.89	4.94	6.35	5.07	5.96	5.02	7.85	4.90	4.28	3.53	4.37
2	2.78	2.90	4.39	6.24	4.95	6.11	4.66	7.01	4.72	3.84	3.33	4.10
3	2.77	2.91	4.21	6.37	4.86	6.17	4.46	6.87	4.49	3.62	3.21	5.16
4	2.80	2.97	4.10	6.26	4.83	6.16	4.52	8.22	4.29	3.67	3.16	4.87
5	2.83	3.19	3.99	6.16	5.25	5.96	4.65	8.73	4.13	5.63	3.10	4.30
6	2.82	3.22	3.89	6.09	5.58	5.70	4.47	7.66	4.00	5.79	3.07	3.76
7	2.80	3.18	4.17	5.87	5.68	5.50	4.45	7.10	3.90	5.30	3.09	3.55
8	2.79	3.19	4.22	5.65	5.51	5.34	5.16	6.74	3.80	4.54	3.08	3.45
9	2.87	4.99	4.13	5.58	5.24	5.18	5.15	6.45	3.71	4.10	3.35	3.38
10	2.94	5.69	4.00	6.58	5.04	5.04	4.88	6.12	3.93	3.95	3.92	3.58
11	2.94	5.50	3.91	7.49	4.90	4.93	4.65	5.94	4.42	3.81	3.73	3.71
12	2.91	5.08	3.84	7.98	4.81	4.88	5.04	5.76	4.96	3.63	3.49	3.61
13	2.88	4.27	3.79	7.35	4.74	4.87	6.67	5.53	5.34	3.47	3.46	3.52
14	2.86	3.77	3.74	6.87	4.67	4.84	7.54	5.30	5.48	3.37	3.74	3.36
15	2.83	3.53	3.71	6.73	4.58	4.77	8.75	5.26	5.01	3.28	4.31	3.23
16	2.81	3.43	3.72	6.73	4.49	4.71	8.25	5.25	5.09	3.21	4.32	3.16
17	2.81	3.38	3.92	6.80	4.62	4.99	7.34	5.43	5.53	3.23	4.15	3.14
18	2.80	3.37	5.36	6.98	5.39	5.03	7.05	5.72	5.33	3.51	3.77	3.42
19	2.78	3.36	6.51	6.83	8.11	4.97	6.89	6.87	4.90	3.46	3.48	3.54
20	2.76	3.36	6.42	6.55	10.15	4.85	6.60	7.57	4.71	3.40	3.29	3.43
21	3.22	3.38	6.84	6.33	8.56	4.71	6.47	7.03	4.61	3.28	3.19	3.32
22	3.93	3.77	7.33	6.18	7.74	4.67	6.34	6.64	4.22	3.25	3.36	3.27
23	3.74	4.91	7.00	5.88	7.43	4.70	6.13	6.24	4.04	3.17	3.57	3.20
24	3.28	5.13	6.93	5.69	7.18	4.69	6.38	5.83	4.16	3.13	3.37	3.43
25	3.04	4.66	6.74	5.66	6.88	4.54	6.83	5.59	4.50	3.13	3.18	5.19
26	2.94	4.22	6.25	5.68	6.56	4.43	6.57	5.47	4.30	3.79	3.10	5.36
27	2.91	4.03	6.28	5.60	6.17	4.36	6.14	5.45	4.22	4.41	3.08	4.90
28	2.90	5.23	6.68	5.46	5.87	4.59	5.79	5.28	4.26	3.97	3.10	4.02
29	2.89	5.44	6.74	5.35	---	5.14	9.02	5.02	4.58	3.98	3.10	3.58
30	2.89	5.40	6.91	5.27	---	5.27	10.00	4.95	4.99	4.12	3.86	3.37
31	2.89	---	6.70	5.18	---	5.31	---	4.96	---	3.85	4.46	---
MAX	3.93	5.69	7.33	7.98	10.15	6.17	10.00	8.73	5.53	5.79	4.46	5.36
MIN	2.76	2.89	3.71	5.18	4.49	4.36	4.45	4.95	3.71	3.13	3.07	3.14

07352800 GRAND BAYOU NEAR COUSHATTA, LA

LOCATION.--Lat 32°02'55", long 93°18'10", in SW 1/4 SW 1/4 sec.4, T.12 N., R.9 W., Red River Parish, Hydrologic Unit 11140209, near right bank on downstream side of bridge on State Highway 155, 0.5 mi upstream from Carroll Creek, and 3.3 mi north of Coushatta.

DRAINAGE AREA.--93.9 mi².

PERIOD OF RECORD.--October 1956 to September 1977. June 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 136.26 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair below 100 ft³/s and good above.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	0730	3,300	10.00	Apr. 18	1930	3,940	10.18
Jan. 17	0100	750	8.18	Apr. 29	1100	*6,750	*11.52
Feb. 20	0430	3,710	10.23	May 5	1800	1,430	8.92
Apr. 15	0200	5,840	11.18	May 20	0730	1,218	8.79

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	22	190	36	213	41	1110	272	9.8	2.2	112
2	.00	.00	14	161	30	312	26	605	86	10	1.5	33
3	.00	.00	10	292	25	313	20	390	41	13	1.1	224
4	.00	.00	6.2	398	22	232	17	541	25	20	.80	204
5	.00	.00	3.4	333	23	141	16	1200	18	41	.64	59
6	.00	.00	2.2	159	32	92	15	1150	12	37	.62	26
7	.00	.00	2.1	105	42	68	15	753	9.5	15	.63	16
8	.00	.01	1.7	127	39	50	33	529	8.3	8.4	.59	15
9	.00	1.2	1.5	138	30	40	43	363	7.3	5.7	.39	14
10	.00	.07	1.4	1390	22	32	34	289	7.9	19	.61	51
11	.00	.00	1.3	2970	23	25	25	273	16	9.3	.33	44
12	.00	.00	1.2	1850	25	20	36	180	22	6.0	.19	22
13	.00	.00	1.3	958	18	19	175	85	48	4.2	.34	10
14	.00	.00	1.2	606	15	18	2800	58	36	2.8	1.8	5.8
15	.00	1.3	1.3	654	14	19	5160	155	19	4.1	26	3.8
16	.00	1.2	1.3	676	11	22	2280	207	126	5.4	18	2.8
17	.00	.97	1.5	718	13	22	993	124	154	3.4	10	2.3
18	.00	.88	144	648	85	27	2900	118	48	2.3	5.7	2.3
19	.00	.85	305	663	1370	27	2190	419	24	6.3	3.9	14
20	.00	.92	170	553	3330	25	1010	1140	32	4.4	2.5	7.0
21	.00	.97	36	468	2040	22	649	868	40	2.3	1.9	3.7
22	.00	1.6	127	363	1750	18	421	599	29	1.6	13	2.4
23	.00	1.6	318	182	1340	17	146	402	15	1.0	25	2.2
24	.00	1.6	228	104	927	17	80	143	9.4	.67	12	3.0
25	.00	7.7	62	152	623	17	62	115	7.4	.91	5.4	6.5
26	.00	9.0	32	170	475	15	44	267	7.5	1.1	3.0	28
27	.00	6.1	331	125	306	12	33	313	5.6	2.1	2.1	43
28	.00	29	551	83	174	13	99	224	5.8	3.9	1.6	33
29	.00	33	568	64	---	28	5620	162	7.0	3.0	.95	13
30	.00	31	471	52	---	40	2950	455	19	3.9	2.1	5.2
31	.00	---	307	44	---	57	---	454	---	2.8	154	---
TOTAL	0.00	128.97	3723.6	15396	12840	1973	27933	13691	1157.7	250.38	298.89	1008.0
MEAN	.000	4.30	120	497	459	63.6	931	442	38.6	8.08	9.64	33.6
MAX	.00	33	568	2970	3330	313	5620	1200	272	41	154	224
MIN	.00	.00	1.2	44	11	12	15	58	5.6	.67	.19	2.2
AC-FT	.00	256	7390	30540	25470	3910	55410	27160	2300	497	593	2000
CFSM	.00	.05	1.28	5.29	4.88	.68	9.92	4.70	.41	.09	.10	.36
IN.	.00	.05	1.48	6.10	5.09	.78	11.07	5.42	.46	.10	.12	.40

RED RIVER BASIN

07352800 GRAND BAYOU NEAR COUSHATTA, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1991, BY WATER YEAR (WY)

MEAN	4.74	56.7	139	176	221	170	159	148	85.6	41.2	6.22	28.6
MAX	36.8	513	820	834	818	525	931	787	560	602	66.8	485
(WY)	1975	1958	1962	1974	1983	1961	1991	1989	1989	1989	1961	1958
MIN	.000	.010	.050	.061	1.22	3.31	3.98	.39	.001	.000	.000	.000
(WY)	1963	1968	1981	1981	1981	1967	1981	1963	1988	1966	1990	1983

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1957 - 1991		
ANNUAL TOTAL	67552.43			78400.54			102		
ANNUAL MEAN	185			215			272		
HIGHEST ANNUAL MEAN							3.96		
LOWEST ANNUAL MEAN							1975		
HIGHEST DAILY MEAN	6980	Jun	1	5620	Apr	29	12700	May	18 1989
LOWEST DAILY MEAN	.00	Jul	12	.00	Oct	1	.00	Oct	1 1956
ANNUAL SEVEN-DAY MINIMUM	.00	Jul	12	.00	Oct	1	.00	Oct	1 1956
INSTANTANEOUS PEAK FLOW				6750	Apr	29	15400	May	18 1989
INSTANTANEOUS PEAK STAGE				11.52	Apr	29	14.04	May	18 1989
INSTANTANEOUS LOW FLOW				No flow	many days		No flow	at times	most years
ANNUAL RUNOFF (AC-FT)	134000			155500			74250		
ANNUAL RUNOFF (CFSM)	1.97			2.29			1.09		
ANNUAL RUNOFF (INCHES)	26.76			31.06			14.83		
10 PERCENT EXCEEDS	550			559			277		
50 PERCENT EXCEEDS	8.0			19			4.8		
90 PERCENT EXCEEDS	.00			.00			.00		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	.80	2.51	5.45	2.97	5.50	2.84	8.60	6.15	1.91	1.35	4.27
2	.75	.81	2.21	5.13	2.79	6.51	2.43	7.90	3.93	1.90	1.28	2.74
3	.74	.83	2.03	6.37	2.64	6.53	2.23	7.06	3.01	2.03	1.22	5.72
4	.78	.86	1.78	7.16	2.53	5.75	2.08	7.69	2.57	2.14	1.17	5.49
5	.84	.91	1.56	6.70	2.56	4.68	2.04	8.69	2.28	2.99	1.14	3.38
6	.84	.90	1.44	5.05	2.86	3.89	2.01	8.66	2.05	2.89	1.14	2.55
7	.82	.90	1.43	4.35	3.11	3.44	2.01	8.18	1.90	2.18	1.14	2.18
8	.81	.93	1.38	4.68	3.05	3.07	2.64	7.70	1.83	1.84	1.13	2.15
9	.80	1.32	1.36	4.81	2.78	2.84	2.91	6.90	1.77	1.67	1.09	2.08
10	.81	1.07	1.35	8.67	2.54	2.61	2.66	6.32	1.81	2.33	1.13	3.09
11	.81	.98	1.33	9.85	2.55	2.41	2.39	6.17	2.20	1.89	1.08	3.05
12	.81	.97	1.32	9.22	2.61	2.24	2.71	5.17	2.43	1.68	1.05	2.42
13	.81	.96	1.33	8.44	2.37	2.19	4.82	3.76	3.19	1.56	1.08	1.89
14	.81	.98	1.32	7.91	2.26	2.16	9.61	3.25	2.87	1.43	1.29	1.64
15	.79	1.34	1.34	8.01	2.20	2.19	10.89	4.82	2.33	1.52	2.53	1.49
16	.77	1.33	1.33	8.06	2.09	2.28	9.45	5.50	4.44	1.64	2.27	1.39
17	.77	1.29	1.35	8.13	2.14	2.29	8.49	4.41	4.95	1.49	1.93	1.34
18	.76	1.27	4.53	8.01	3.67	2.46	9.79	4.29	3.17	1.37	1.67	1.33
19	.74	1.26	6.50	8.04	8.44	2.46	9.40	7.05	2.51	1.69	1.53	2.10
20	.73	1.28	5.10	7.78	10.03	2.39	8.51	8.64	2.76	1.57	1.40	1.72
21	.82	1.29	2.95	7.51	9.36	2.29	8.00	8.34	2.98	1.37	1.33	1.48
22	.95	1.36	4.44	6.92	9.17	2.15	7.22	7.90	2.67	1.29	1.92	1.36
23	.91	1.37	6.61	5.32	8.84	2.08	4.67	7.12	2.17	1.21	2.55	1.32
24	.89	1.36	5.76	4.34	8.41	2.08	3.68	4.76	1.89	1.15	2.01	1.41
25	.87	1.78	3.55	5.01	7.95	2.11	3.33	4.40	1.78	1.18	1.64	1.69
26	.85	1.95	2.84	5.23	7.51	2.00	2.92	6.15	1.78	1.22	1.45	2.54
27	.83	1.73	6.28	4.64	6.45	1.89	2.65	6.55	1.66	1.34	1.34	3.04
28	.81	2.76	7.78	3.97	5.11	1.92	3.17	5.72	1.67	1.53	1.29	2.77
29	.80	2.88	7.82	3.61	---	2.47	11.06	4.83	1.74	1.44	1.20	2.02
30	.79	2.82	7.51	3.37	---	2.84	9.83	7.46	2.32	1.52	1.31	1.60
31	.80	---	6.50	3.16	---	3.22	---	7.44	---	1.43	4.83	---
MAX	.95	2.88	7.82	9.85	10.03	6.53	11.06	8.69	6.15	2.99	4.83	5.72
MIN	.73	.80	1.32	3.16	2.09	1.89	2.01	3.25	1.66	1.15	1.05	1.32

07352895 BLACK LAKE BAYOU NEAR CLARENCE, LA

LOCATION.--Lat 31°52'24", long 92°58'00", in NW 1/4 SE 1/4 sec.3, T.10 N., R.6 W., Natchitoches Parish, Hydrologic Unit 11140209, on downstream side of bridge on State Highway 1226, 1.8 mi northeast of Chivery Dam, 2.8 mi upstream from Allen Dam, and 5.0 mi northeast of Clarence.

DRAINAGE AREA.--908 mi² (see REMARKS).

PERIOD OF RECORD.--December 1969 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 88.49 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1980, at datum 6.00 ft higher.

REMARKS.--Drainage area does not include 412 mi² of Saline Lake. Flows are interchangeable between Black and Saline Lakes, combined usable capacity, 161,000 acre acre-ft. Considerable regulation by Chivery Dam. Lakes are used for recreation. Lake was drained by Department of Transportation and Development for repairs to spillway from Oct. 1-15. Lowest recorded stage, 3.62 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 25.76 ft, July 6, 1989, from floodmark; minimum, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 22.91 ft, May 5; minimum not determined.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	5.54	9.93	10.66	15.56	9.69	20.92	13.79	9.31	9.26	9.43
2		---	5.64	10.07	10.47	15.38	9.65	22.13	13.26	9.30	9.25	9.47
3		---	5.79	10.20	10.31	15.14	9.63	22.52	12.68	9.30	9.23	9.54
4		---	5.81	10.24	10.19	14.78	9.64	22.77	12.06	9.32	9.22	9.58
5		---	5.87	10.30	10.18	14.39	9.64	22.87	11.54	9.35	9.20	9.61
6		---	5.96	10.39	10.12	14.00	9.65	22.84	11.13	9.35	9.18	9.63
7		---	6.14	10.43	10.05	13.54	9.69	22.82	10.78	9.36	9.16	9.62
8		---	6.20	10.42	9.98	13.00	9.84	22.80	10.50	9.38	9.15	9.59
9	3.67	---	6.26	10.39	9.92	12.43	9.91	22.69	10.28	9.39	9.17	9.55
10	3.66	---	6.32	10.75	9.88	11.86	9.90	22.41	10.14	9.39	9.22	9.52
11	3.63	---	6.36	11.36	9.83	11.39	9.89	22.04	10.04	9.38	9.21	9.48
12	3.65	---	6.41	12.05	9.79	11.07	9.93	21.60	9.95	9.37	9.21	9.45
13	3.65	---	6.47	12.59	9.77	10.81	10.01	21.15	9.95	9.34	9.22	9.43
14	3.65	---	6.51	12.83	9.78	10.56	10.98	20.68	9.87	9.32	9.35	9.40
15	3.66	---	6.55	13.12	9.75	10.35	13.04	20.23	9.81	9.28	9.55	9.38
16	3.66	---	6.60	13.43	9.68	10.19	14.98	19.79	9.76	9.25	9.84	9.37
17	3.66	---	6.64	13.71	9.70	10.13	16.56	19.34	9.70	9.22	9.87	9.35
18	---	---	6.79	13.86	9.79	10.03	18.91	18.97	9.66	9.20	9.80	9.33
19	---	---	6.84	14.01	10.09	9.93	20.18	18.69	9.64	9.17	9.72	9.29
20	---	---	6.94	14.02	10.37	9.84	20.55	18.40	9.61	9.19	9.63	9.24
21	---	---	7.14	13.95	11.17	9.78	20.44	18.13	9.56	9.19	9.55	9.21
22	---	---	7.47	13.82	12.71	9.74	20.18	17.87	9.54	9.18	9.58	9.19
23	---	---	7.71	13.65	14.26	9.71	19.86	17.56	9.53	9.18	9.58	9.19
24	---	---	7.86	13.46	15.44	9.67	19.50	17.21	9.52	9.22	9.56	9.24
25	---	---	8.05	13.17	15.93	9.62	19.14	16.85	9.50	9.23	9.54	9.33
26	---	---	8.28	12.81	16.01	9.58	18.75	16.49	9.48	9.33	9.51	9.30
27	---	---	8.64	12.38	15.90	9.57	18.36	16.07	9.44	9.34	9.46	9.29
28	---	---	8.91	11.95	15.70	9.58	17.99	15.63	9.39	9.32	9.42	9.29
29	---	---	9.19	11.52	---	9.64	18.53	15.18	9.37	9.30	9.37	9.31
30	---	5.46	9.52	11.19	---	9.68	19.55	14.72	9.34	9.29	9.38	9.33
31	---	---	9.76	10.90	---	9.71	---	14.27	---	9.27	9.42	---
MAX	---	---	9.76	14.02	16.01	15.56	20.55	22.87	13.79	9.39	9.87	9.63
MIN	---	---	5.54	9.93	9.68	9.57	9.63	14.27	9.34	9.17	9.15	9.19

RED RIVER BASIN

07353520 NANTACHIE LAKE NEAR ALOHA, LA

LOCATION.--Lat 31°37'00", long 92°47'04", in SE 1/4 NW 1/4 sec.4, T.7 N., R.4 W., Grant Parish, Hydrologic Unit 11140207, at dam 2.0 mi upstream from mouth, and 2.5 mi northwest of Aloha.

DRAINAGE AREA.--80.4 mi².

PERIOD OF RECORD.--February 1969 to September 1979. October 1979 to current year(gage heights only).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 92.28 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--No gage heights recorded below 2.14 ft. Reservoir is formed on Nantachie Creek by earthfill dam, completed in 1964. Storage began Oct. 19, 1964. The dam contains a 150-ft concrete spillway. The crest of the spillway is 3.05 ft gage height. Drawdown structure consists of one 5- by 5-ft metal sluice gate that can be varied from -16.78 to -11.78 ft gage height. Area of lake is 1,580 acres, usable capacity, 11,200 acre-ft at 3.05 ft gage height. Reservoir is used for recreation.

AVERAGE DISCHARGE.--9 years (water years 1970-72, 1974-79), 72.6 ft³/s, 52,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s, Dec. 27, 1982, gage height, 9.39 ft; no flow at times most years. Reverse flow possible May 1973 and May 1990.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.87 ft, Apr. 30; minimum, 2.25 ft, Oct. 20, 21.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.44	2.42	2.86	3.36	3.36	3.64	3.21	5.02	3.33	3.08	2.96	3.60
2	2.43	2.42	2.86	3.49	3.34	3.75	3.20	4.42	3.31	3.08	2.94	3.57
3	2.42	2.41	2.95	3.79	3.31	3.82	3.20	4.09	3.29	3.09	2.93	3.46
4	2.45	2.43	2.95	3.74	3.30	3.80	3.23	4.28	3.27	3.21	2.91	3.40
5	2.45	2.48	2.94	3.65	3.46	3.71	3.26	4.27	3.25	3.37	2.90	3.37
6	2.43	2.47	2.95	3.55	3.66	3.63	3.27	4.15	3.22	3.38	2.88	3.32
7	2.42	2.47	3.06	3.47	3.69	3.56	3.33	4.08	3.19	3.32	2.87	3.28
8	2.42	2.46	3.08	3.40	3.67	3.49	3.58	4.27	3.16	3.27	2.90	3.26
9	2.42	2.59	3.10	3.37	3.60	3.44	3.64	4.50	3.14	3.24	2.97	3.30
10	2.40	2.60	3.11	3.96	3.52	3.39	3.60	4.59	3.15	3.22	3.04	3.36
11	2.36	2.61	3.12	4.83	3.46	3.37	3.53	4.47	3.18	3.19	3.11	3.36
12	2.34	2.61	3.12	4.70	3.41	3.36	3.52	4.20	3.22	3.16	3.14	3.33
13	2.32	2.61	3.12	4.33	3.39	3.36	3.54	3.92	3.22	3.14	3.15	3.29
14	2.31	2.61	3.12	4.03	3.37	3.34	3.88	3.71	3.20	3.12	3.20	3.25
15	2.30	2.61	3.12	3.98	3.33	3.32	4.47	3.70	3.18	3.10	3.25	3.22
16	2.30	2.62	3.13	3.94	3.29	3.31	4.70	3.69	3.17	3.08	3.27	3.19
17	2.30	2.62	3.14	3.87	3.30	3.37	4.43	3.65	3.16	3.07	3.25	3.17
18	2.30	2.60	3.18	3.83	3.33	3.42	5.25	3.64	3.15	3.05	3.24	3.16
19	2.27	2.60	3.18	3.85	3.57	3.43	5.28	3.74	3.13	3.04	3.24	3.14
20	2.26	2.60	3.18	3.82	3.71	3.40	4.72	3.97	3.13	3.03	3.20	3.10
21	2.35	2.60	3.28	3.77	3.88	3.37	4.26	3.98	3.15	3.02	3.17	3.07
22	2.49	2.63	3.44	3.69	4.08	3.36	3.98	3.84	3.15	3.01	3.24	3.07
23	2.49	2.71	3.45	3.60	4.11	3.34	3.79	3.70	3.16	2.99	3.41	3.07
24	2.49	2.72	3.41	3.60	4.05	3.31	3.66	3.59	3.17	2.97	3.42	3.10
25	2.48	2.73	3.36	3.61	3.93	3.29	3.57	3.54	3.15	2.96	3.35	3.14
26	2.46	2.73	3.32	3.59	3.78	3.27	3.51	3.52	3.14	2.99	3.29	3.13
27	2.45	2.74	3.41	3.55	3.66	3.26	3.61	3.47	3.12	3.00	3.25	3.11
28	2.45	2.82	3.45	3.51	3.58	3.26	3.57	3.43	3.11	3.02	3.21	3.10
29	2.44	2.85	3.44	3.47	---	3.29	4.96	3.39	3.10	3.00	3.18	3.09
30	2.43	2.86	3.47	3.44	---	3.25	5.73	3.37	3.09	3.00	3.22	3.09
31	2.43	---	3.41	3.40	---	3.23	---	3.35	---	2.99	3.48	---
MAX	2.49	2.86	3.47	4.83	4.11	3.82	5.73	5.02	3.33	3.38	3.48	3.60
MIN	2.26	2.41	2.86	3.36	3.29	3.23	3.20	3.35	3.09	2.96	2.87	3.07

07354100 KISATCHIE BAYOU AT LOTUS, LA

LOCATION.--Lat 31°29'04", long 93°08'19", NW 1/4 SE 1/4 sec.24, T.6 N., R.8 W., Natchitoches Parish, Hydrologic Unit 11140207, at right bank on downstream side of bridge on unnumbered parish road, 0.5 mi west of Lotus, 1.2 mi downstream from Sheard Branch, and 4.8 mi southeast of Bellwood.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--Occasional low-flow measurements water years 1956-63 (published as "near Bellwood"). December 1979 to current year. Gage-height records and discharge measurements December 1938 to July 1942 and January 1956 to September 1979 are in reports of Corps of Engineers, New Orleans District.

REVISED RECORDS.--WDR LA-82-1: 1982(P).

GAGE.--Water-stage recorder. Datum of gage is 123.57 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to January 1956 at datum 1.24 ft higher.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1939, reached a stage of 19.3 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	2230	7,340	16.57	Apr. 29	1230	5,460	16.21
Feb. 21	2400	4,130	15.76	May 4	1600	*8,840	*16.78
Apr. 12	0200	4,110	15.75	May 9	0630	5,830	16.29
Apr. 27	1230	5,600	16.24				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	39	116	129	1520	56	380	275	73	30	211
2	11	11	32	934	117	845	52	279	192	86	29	118
3	11	11	48	2240	111	510	50	314	153	737	28	91
4	12	11	54	489	109	317	56	6980	131	252	27	91
5	13	14	33	237	740	238	129	2920	118	359	27	103
6	13	16	28	171	516	202	109	689	367	214	28	131
7	12	16	132	166	259	170	198	426	226	194	27	101
8	11	14	128	199	180	145	754	2790	129	487	32	201
9	11	32	61	419	142	127	224	4380	104	358	46	137
10	11	75	40	4650	123	114	126	969	367	163	46	219
11	11	37	33	4630	110	107	830	626	786	114	115	112
12	11	22	29	651	100	106	2040	443	271	79	147	72
13	11	17	28	363	100	106	453	340	176	64	461	59
14	11	15	26	274	102	97	696	285	134	55	1150	53
15	11	14	25	1560	90	88	1970	1150	115	49	1210	49
16	11	13	25	828	78	88	453	1000	106	45	956	46
17	11	12	28	336	107	250	277	892	99	42	253	57
18	11	12	47	398	145	219	2060	2010	90	43	173	61
19	11	12	58	1260	828	136	693	1130	121	66	495	78
20	11	12	53	462	712	107	303	613	113	46	160	61
21	15	12	44	281	1470	95	215	393	98	39	104	47
22	89	13	617	218	2280	93	180	353	89	37	88	42
23	40	29	276	189	609	88	167	300	85	34	84	40
24	22	37	126	589	328	78	149	294	209	34	74	53
25	17	24	83	555	255	70	130	330	242	34	66	242
26	14	18	68	281	393	67	118	435	144	42	60	127
27	13	16	628	217	276	65	3380	259	101	56	57	67
28	12	217	463	195	206	64	748	221	96	47	54	51
29	12	196	191	176	---	83	3620	529	150	37	52	44
30	12	65	139	164	---	90	918	542	98	35	54	41
31	11	---	146	147	---	69	---	462	---	33	179	---
TOTAL	483	1004	3728	23395	10615	6354	21154	32734	5385	3954	6312	2805
MEAN	15.6	33.5	120	755	379	205	705	1056	179	128	204	93.5
MAX	89	217	628	4650	2280	1520	3620	6980	786	737	1210	242
MIN	11	11	25	116	78	64	50	221	85	33	27	40
AC-FT	958	1990	7390	46400	21050	12600	41960	64930	10680	7840	12520	5560
CFSM	.11	.24	.86	5.39	2.71	1.46	5.04	7.54	1.28	.91	1.45	.67
IN.	.13	.27	.99	6.22	2.82	1.69	5.62	8.70	1.43	1.05	1.68	.75

07354100 KISATCHIE BAYOU AT LOTUS, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1991, BY WATER YEAR (WY)

MEAN	143	208	402	396	424	306	209	295	200	93.2	47.7	31.7
MAX	824	553	1964	1597	1033	560	705	1056	1194	745	204	93.5
(WY)	1986	1987	1983	1990	1983	1988	1991	1991	1989	1989	1991	1991
MIN	7.44	6.84	9.97	20.1	27.7	48.9	9.85	27.6	13.6	12.9	6.55	4.38
(WY)	1983	1982	1982	1981	1981	1982	1981	1988	1985	1985	1981	1980

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1980 - 1991					
ANNUAL TOTAL	94154			117923			229					
ANNUAL MEAN	258			323			434					
HIGHEST ANNUAL MEAN							1983					
LOWEST ANNUAL MEAN							44.1					
HIGHEST DAILY MEAN	7890	Jan	20	6980	May	4	16700	Dec	27	1982		
LOWEST DAILY MEAN	11	Sep	6	11	Oct	1	2.8	Oct	5	1982		
ANNUAL SEVEN-DAY MINIMUM	11	Oct	8	11	Oct	8	2.9	Oct	1	1982		
INSTANTANEOUS PEAK FLOW				8840	May	4	a33700	Dec	27	1983		
INSTANTANEOUS PEAK STAGE				16.78	May	4	18.17	Dec	27	1983		
INSTANTANEOUS LOW FLOW				10	Oct	20,21,Nov 2,4	2.8	Oct	4,5,6,7,	1982		
INSTANTANEOUS LOW STAGE				3.92	OCT	20,21	1.94	Oct	6,	1981		
ANNUAL RUNOFF (AC-FT)	186800			233900			165700					
ANNUAL RUNOFF (CFSM)	1.84			2.31			1.63					
ANNUAL RUNOFF (INCHES)	25.02			31.33			22.20					
10 PERCENT EXCEEDS	515			738			404					
50 PERCENT EXCEEDS	50			109			48					
90 PERCENT EXCEEDS	12			14			8.4					

a From rating curve extended above 8,960 ft³/s, on basis of contracted-opening measurement at gage height, 18.17 ft.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.97	4.00	4.82	6.04	6.20	11.55	5.19	8.44	7.62	5.47	4.81	7.01
2	3.96	4.00	4.62	9.51	6.07	10.76	5.10	7.66	6.86	5.65	4.76	6.08
3	3.96	4.00	4.98	13.93	5.99	9.29	5.06	7.93	6.48	10.32	4.73	5.73
4	4.02	4.03	5.12	9.08	5.97	7.96	5.18	16.19	6.23	7.44	4.71	5.73
5	4.04	4.17	4.67	7.28	10.21	7.29	6.18	13.84	6.08	8.29	4.71	5.89
6	4.04	4.27	4.52	6.66	9.27	6.95	5.96	10.23	8.17	7.12	4.76	6.22
7	4.00	4.28	6.06	6.60	7.48	6.65	6.50	8.76	7.16	6.87	4.72	5.85
8	3.98	4.17	6.17	6.92	6.74	6.39	10.27	14.36	6.20	9.03	4.84	6.94
9	3.97	4.70	5.26	8.39	6.36	6.18	7.15	15.66	5.90	8.25	5.17	6.29
10	3.97	5.57	4.85	15.03	6.14	6.02	6.16	11.33	7.59	6.68	5.18	7.11
11	3.98	4.91	4.65	15.38	5.97	5.94	8.67	9.95	10.47	6.16	6.17	5.99
12	3.97	4.52	4.56	10.00	5.85	5.93	13.12	8.87	7.57	5.74	6.45	5.46
13	3.96	4.33	4.50	8.31	5.85	5.93	8.92	8.15	6.70	5.51	8.91	5.23
14	3.96	4.24	4.46	7.62	5.88	5.81	9.31	7.71	6.26	5.37	11.62	5.11
15	3.96	4.18	4.43	12.08	5.72	5.69	13.38	11.06	6.04	5.26	11.99	5.03
16	3.96	4.14	4.41	10.65	5.55	5.69	8.90	11.33	5.92	5.17	10.94	4.97
17	3.95	4.12	4.50	8.11	5.93	7.36	7.64	10.16	5.85	5.10	7.41	5.17
18	3.96	4.10	4.98	8.25	6.38	7.10	13.59	13.36	5.73	5.13	6.65	5.27
19	3.94	4.10	5.22	12.15	10.20	6.28	10.11	11.93	6.10	5.54	9.05	5.54
20	3.93	4.10	5.11	8.97	10.22	5.94	7.85	9.86	6.02	5.20	6.53	5.27
21	4.13	4.10	4.92	7.67	11.33	5.79	7.07	8.54	5.83	5.04	5.91	5.00
22	5.71	4.13	9.58	7.10	13.79	5.76	6.74	8.26	5.70	4.99	5.69	4.89
23	4.92	4.67	7.56	6.83	9.80	5.69	6.61	7.84	5.65	4.92	5.64	4.85
24	4.46	4.93	6.17	9.32	8.05	5.55	6.43	7.78	6.94	4.90	5.49	5.11
25	4.25	4.59	5.61	9.49	7.45	5.42	6.22	8.07	7.28	4.90	5.35	7.27
26	4.15	4.38	5.38	7.67	8.53	5.37	6.08	8.81	6.36	5.11	5.26	6.15
27	4.09	4.31	9.57	7.09	7.62	5.33	14.30	7.48	5.86	5.39	5.19	5.36
28	4.06	6.69	8.91	6.89	6.99	5.33	10.36	7.12	5.81	5.22	5.15	5.07
29	4.04	6.86	6.85	6.71	---	5.61	14.91	9.39	6.43	4.99	5.11	4.94
30	4.02	5.33	6.33	6.59	---	5.72	10.93	9.44	5.82	4.93	5.14	4.87
31	4.01	---	6.40	6.41	---	5.40	---	8.97	---	4.89	6.59	---
MAX	5.71	6.86	9.58	15.38	13.79	11.55	14.91	16.19	10.47	10.32	11.99	7.27
MIN	3.93	4.00	4.41	6.04	5.55	5.33	5.06	7.12	5.65	4.89	4.71	4.85

RED RIVER BASIN

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07355130 RED RIVER AT BOYCE, LA

LOCATION.--Lat 31°23'38", long 92°40'02", T. 5 N., R. 3 W., Grant-Rapides Parish line, Hydrologic Unit 11140207, near center of span on downstream side of bridge on State Highway 8, 0.2 mi east of Boyce, and at mile 135.0.

DRAINAGE AREA.--66,998 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1973-84, 1986 to current year.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPECIFIC CONDUCTANCE (µS/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, TOTAL, IMMEDIATE (COLS. PER 100 ML)
OCT 1990										
24...	0815	221	7.21	18.0	60	75	8.5	28	1.7	1200
NOV										
06...	1415	541	8.00	18.0	40	22	9.3	27	2.6	--
DEC										
04...	1230	483	7.65	14.0	40	45	9.5	24	1.5	130
JAN 1991										
09...	1200	185	7.26	8.0	80	100	12.0	32	4.2	510
FEB										
20...	0730	241	7.60	12.5	60	100	10.7	32	2.9	2200
MAR										
06...	0715	190	7.26	14.0	100	65	9.7	29	1.9	420
APR										
10...	0830	314	7.50	20.5	80	75	8.3	25	1.6	1000
MAY										
15...	0750	191	7.04	23.0	30	70	5.9	35	1.3	480
JUN										
26...	0730	850	7.85	29.0	20	110	6.5	31	1.3	K380
JUL										
29...	1530	974	8.19	31.0	20	8.3	9.5	26	5.3	K4
AUG										
20...	1415	803	7.51	30.0	15	15	7.2	23	1.8	K30
SEP										
10...	1400	676	7.21	29.0	30	34	6.5	34	2.3	120

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, TOCOCOCCI, KF AGAR (COLS. PER 100 ML)	HARDNESS, TOTAL (MG/L AS CaCO3)	CALCIUM, DISSOLVED (MG/L AS Ca)	MAGNESIUM, DISSOLVED (MG/L AS Mg)	SODIUM, DISSOLVED (MG/L AS Na)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY, WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE, DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS Cl)
OCT 1990										
24...	96	K200	--	--	3.3	15	2.4	59	19	19
NOV										
06...	K32	K20	170	48	12	41	3.6	172	34	48
DEC										
04...	60	48	120	33	9.7	43	3.9	80	56	64
JAN 1991										
09...	120	550	58	17	3.8	11	2.4	43	17	14
FEB										
20...	880	K2600	78	22	5.6	18	2.4	62	26	21
MAR										
06...	K80	100	49	14	3.3	14	2.0	40	20	18
APR										
10...	280	310	73	21	5.0	25	2.2	53	25	34
MAY										
15...	390	250	59	18	3.3	12	2.1	46	--	17
JUN										
26...	150	140	200	53	16	--	3.9	99	73	130
JUL										
29...	<2	68	270	72	23	96	4.4	190	100	130
AUG										
20...	K12	K76	200	51	17	85	4.0	118	91	110
SEP										
10...	K30	100	150	37	13	53	3.2	102	56	74

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990									
24...	124	133	0.03	0.24	0.69	0.93	0.15	0.11	8.0
NOV									
06...	306	45	0.01	0.02	0.74	0.76	0.12	0.04	8.0
DEC									
04...	276	82	0.02	0.15	0.82	0.97	0.14	0.09	8.8
JAN 1991									
09...	109	196	0.04	0.17	0.81	0.98	0.20	0.09	9.3
FEB									
20...	156	180	E0.03	E0.21	E0.82	--	E0.18	E0.08	9.0
MAR									
06...	113	108	0.02	0.09	0.77	0.86	0.13	0.08	9.1
APR									
10...	174	137	0.02	0.17	0.70	0.87	0.13	0.07	7.4
MAY									
15...	119	111	0.02	0.21	0.68	0.89	0.15	0.11	8.6
JUN									
26...	493	171	0.01	0.24	0.75	0.99	0.22	0.07	7.5
JUL									
29...	548	12	<0.01	<0.02	1.0	--	0.10	0.04	9.1
AUG									
20...	461	17	0.01	0.02	0.68	0.70	0.08	0.05	7.2
SEP									
10...	302	50	0.02	0.12	0.73	0.85	0.15	0.08	7.8

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 1990								
24...	2	<10	<1	6	4	3100	3	180
JAN 1991								
09...	3	<10	<1	5	6	4300	6	160
APR								
10...	2	<10	<1	6	5	3600	5	150
JUL								
29...	3	<10	<1	3	3	270	2	180

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV- GRAVI- METRIC (MG/L)
OCT 1990							
24...	<0.1	5	<1	10	<0.01	5	<1
JAN 1991							
09...	<0.1	6	<1	20	<0.01	3	1
APR							
10...	0.7	5	<1	20	<0.01	<1	<1
JUL							
29...	<0.1	<1	<1	10	--	<1	<1

< Actual value is known to be less than the value shown.
E Estimated.

07355500 RED RIVER AT ALEXANDRIA, LA

LOCATION.--Lat 31°18'46", long 92°26'34", in SE 1/4 sec. 10, T. 4 N., R. 1 W., Rapides Parish, Hydrologic Unit 08040301, near center of span on downstream side of Murray Street bridge between Alexandria and Pineville, and 1.7 mi downstream from Bayou Rigolette. Water-quality sampling site at center of channel 0.3 mi downstream.

DRAINAGE AREA.--67,500 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1947, 1952-62, 1969, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1952 to September 1963, June 1973 to September 1981.

WATER TEMPERATURES: October 1952 to September 1963, June 1973 to September 1984.

CHLORIDE: October 1974 to September 1984.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1982.

REMARKS.--Discharge data will be entered into the water-quality file when made available by the Army Corps of Engineers. Water-quality samples are non-integrated on all dates except Oct. 23, Jan. 11, Apr. 9, and July 29.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,020 micromhos Oct. 8, 1956; minimum daily, 133 micromhos June 24, 1953.

WATER TEMPERATURES: Maximum daily, 34.0 °C Aug. 2, 8, 10, 1956; minimum daily, 0.0 °C Dec. 24, 25, 1983.

CHLORIDE: Maximum daily, 420 mg/L Oct. 12, 1978; minimum daily, 8.6 mg/L Apr. 7, 1977.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,495,000 tons Dec. 9, 1973; minimum daily, 1,000 tons Oct. 10-22, 1972, Oct. 1 to Nov. 7, 1978, Sept. 27-30, Oct. 1-4, 1980, Jan. 30-31, Apr. 24-25, Oct. 1-6, 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990										
23...	1330	209	7.11	19.0	80	100	8.0	1.5	35	K450
NOV										
06...	1330	383	8.06	18.0	40	18	9.0	2.7	24	--
DEC										
04...	1200	468	7.64	15.5	60	55	9.4	1.3	40	260
JAN 1991										
11...	1000	157	7.78	11.0	120	100	10.6	2.7	40	K4400
FEB										
19...	1400	236	7.49	13.0	40	55	11.0	3.2	26	3800
MAR										
05...	1330	189	7.24	14.0	80	75	9.1	1.8	29	450
APR										
09...	1500	310	7.06	25.0	80	83	7.6	1.4	31	2400
MAY										
14...	1350	146	7.01	25.5	80	85	5.8	1.3	28	K160
JUN										
25...	1240	793	7.60	29.0	20	110	6.5	1.3	37	K180
JUL										
29...	1400	930	8.06	32.5	20	2.5	8.3	4.2	26	88
AUG										
20...	1230	753	7.53	29.5	15	15	7.5	2.0	20	K60
SEP										
10...	1245	570	7.26	29.0	30	25	6.3	2.1	32	K100

K Results based on colony count outside the acceptable range (non-ideal colony count).

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990										
23...	K120	110	62	19	3.4	14	2.2	56	15	18
NOV										
06...	K100	100	120	35	8.1	28	3.2	124	27	31
DEC										
04...	82	120	110	31	9.1	40	3.8	80	57	56
JAN 1991										
11...	K2100	K4800	48	14	3.1	9.7	2.3	43	13	12
FEB										
19...	K1800	>8000	69	20	4.6	15	2.4	56	19	19
MAR										
05...	K170	200	49	14	3.4	14	2.0	41	17	19
APR										
09...	920	1000	84	24	5.8	27	2.3	51	34	37
MAY										
14...	140	K60	49	15	2.9	7.9	2.0	44	--	9.0
JUN										
25...	K20	K120	170	46	14	--	3.9	94	--	110
JUL										
29...	K6	K24	260	71	21	85	4.5	188	91	120
AUG										
20...	K20	K48	180	46	16	76	3.6	106	84	110
SEP										
10...	K20	K40	140	35	12	53	3.2	105	52	70

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT 1990									
23...	<0.1	6.0	114	110	130	0.10	0.01	0.20	0.20
NOV									
06...	--	--	214	207	31	0.01	--	0.02	--
DEC									
04...	--	--	261	245	75	0.03	--	0.16	--
JAN 1991									
11...	<0.1	7.3	99	85	242	0.04	<0.01	0.24	0.24
FEB									
19...	--	--	140	114	81	E0.02	--	E0.23	--
MAR									
05...	--	--	110	94	96	0.03	--	0.10	--
APR									
09...	<0.1	5.6	181	167	178	0.06	<0.01	0.17	0.17
MAY									
14...	--	--	96	--	151	0.03	--	0.20	--
JUN									
25...	--	--	424	--	193	0.01	--	0.26	--
JUL									
29...	0.3	8.5	523	516	8	<0.01	<0.01	<0.05	<0.05
AUG									
20...	--	--	424	395	24	0.01	--	<0.02	--
SEP									
10...	--	--	311	288	30	0.02	--	0.10	--

< Actual value is known to be less than the value shown.

> Actual value is known to be greater than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated.

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990								
23...	0.13	0.02	0.7	0.09	0.02	0.10	0.03	8.6
NOV								
06...	--	--	0.69	0.10	--	0.05	--	7.5
DEC								
04...	--	--	0.79	0.14	--	0.12	--	8.9
JAN 1991								
11...	0.09	0.07	0.7	0.13	<0.01	0.07	0.02	13
FEB								
19...	--	--	E0.69	E0.12	--	E0.06	--	7.4
MAR								
05...	--	--	0.77	0.15	--	0.08	--	9.9
APR								
09...	0.09	0.02	0.8	0.13	0.02	0.08	0.01	7.7
MAY								
14...	--	--	0.72	0.16	--	0.12	--	9.8
JUN								
25...	--	--	0.68	0.22	--	0.07	--	8.3
JUL								
29...	<0.01	0.01	0.9	0.07	0.02	0.01	<0.01	7.7
AUG								
20...	--	--	0.65	0.09	--	0.05	--	6.4
SEP								
10...	--	--	0.76	0.11	--	0.08	--	7.7

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)
OCT 1990												
23...	80	3	1	51	<10	<0.5	<1	<1	<1	6	<3	4
JAN 1991												
11...	140	5	1	43	<10	<0.5	<1	<1	2	13	<3	11
APR												
09...	40	2	<1	67	<10	<0.5	<1	<1	<1	6	<3	4
JUL												
29...	20	3	2	170	<10	<0.5	<1	<1	<1	5	<3	4

DATE	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)
OCT 1990												
23...	5	3300	65	4	1	4	180	2	<0.1	<0.1	<10	5
JAN 1991												
11...	3	11000	160	11	<1	<4	400	33	<0.1	0.1	<10	14
APR												
09...	2	3800	110	3	1	5	150	8	<0.1	<0.1	<10	4
JUL												
29...	3	260	19	4	<1	9	110	4	<0.1	<0.1	<10	--

< Actual value is known to be less than the value shown.

E Estimated.

RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 1990											
23...	2	<1	<1	<1	120	<6	20	--	<0.01	14	<1
JAN 1991											
11...	<1	<1	<1	<1	92	<6	50	3	<0.01	4	1
APR											
09...	<1	<1	<1	<1	180	<6	10	<3	<0.01	<1	<1
JUL											
29...	--	<1	<1	<1	680	<6	40	4	--	<1	<1

DATE	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (µG/L)	ALPHA, COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	URANIUM NATURAL 2 SIGMA WATER, DISS, (µG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L)
OCT 1990								
23...		0.7	<0.6	0.7	0.8	<1.0	0.02	2.6
JAN 1991								
11...		1.0	1.3	0.6	0.8	<1.0	0.02	17
APR								
09...		0.9	<0.6	0.7	1.1	<1.0	0.02	5.2
JUL								
29...		3.9	2.5	1.5	2.0	<1.0	0.03	0.4

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
OCT 1990								
23...	<0.6	3.7	2.7	4.2	2.2	3.9	0.09	0.28
JAN 1991								
11...	1.7	25	2.3	1.9	1.8	1.8	0.08	0.19
APR								
09...	<0.6	11	3.4	8.1	2.6	7.5	0.07	0.33
JUL								
29...	3.8	<0.6	7.0	1.1	5.3	1.0	0.18	1.2

DATE	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN, TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)
OCT 1990										
23...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC										
04...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB										
19...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR										
09...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN										
25...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG										
20...	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

07355500 RED RIVER AT ALEXANDRIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 1990 23...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC 04...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB 19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR 09...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN 25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG 20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)
OCT 1990 23...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
DEC 04...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
FEB 19...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
APR 09...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	0.2	<0.1	<0.1
JUN 25...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1
AUG 20...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1

DATE	SEDI- MENT, SUS- PENDE (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 23...	210	97
JAN 1991 11...	732	89
APR 09...	--	--
JUL 29...	13	98

< Actual value is known to be less than the value shown.

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA (CE 04657)

LOCATION.--Lat 31°12'10", long 92°08'30", T.3 N., R.3 W., Avoyelles Parish, Hydrologic Unit 08040301, near center of span on downstream side of bridge on State Highway 115, 1.4 mi west of Moncla, and at mile 74.0.

DRAINAGE AREA.--67,625 mi², of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1971, 1973, 1984, 1986 to current year.

REMARKS.--Water-quality samples are non-integrated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPECIFIC CONDUCTANCE (μS/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, TOTAL, IMMEDIATE, PER 100 ML
OCT 1990										
23...	1215	205	7.48	19.0	120	100	8.2	33	1.7	K600
NOV										
06...	1200	323	7.68	18.0	40	16	8.9	24	1.8	--
DEC										
04...	1115	422	7.68	14.0	80	60	9.1	24	1.0	230
JAN 1991										
09...	1015	210	6.97	8.0	80	90	11.8	29	2.9	420
FEB										
19...	1230	239	7.52	12.5	40	45	11.3	22	2.9	740
MAR										
05...	1200	193	7.33	14.0	80	80	9.2	29	2.1	1200
APR										
09...	1300	308	7.41	21.0	80	80	7.6	31	1.4	1800
MAY										
14...	1245	147	7.11	23.5	80	90	5.7	33	1.6	K400
JUN										
25...	1130	780	7.76	28.5	20	120	6.4	37	1.2	260
JUL										
29...	1230	904	8.13	31.0	20	7.1	7.8	22	3.0	K3
AUG										
20...	1120	738	7.61	28.5	20	24	6.9	20	1.9	K55
SEP										
10...	1150	496	7.74	29.0	30	25	5.7	30	2.4	K60

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)
OCT 1990										
23...	110	150	--	--	3.1	13	2.3	56	17	17
NOV										
06...	40	K16	97	28	6.5	26	3.2	93	25	28
DEC										
04...	110	130	110	30	8.7	39	3.9	76	51	53
JAN 1991										
09...	66	160	62	18	4.1	14	2.5	44	23	20
FEB										
19...	210	--	68	20	4.5	17	2.4	56	25	20
MAR										
05...	K140	160	51	15	3.4	14	2.0	41	19	19
APR										
09...	390	920	80	23	5.4	26	2.4	58	26	35
MAY										
14...	K100	K90	46	14	2.7	7.9	2.0	43	8.0	9.7
JUN										
25...	K55	140	180	48	15	74	4.0	104	64	120
JUL										
29...	K6	K8	240	63	20	86	4.4	181	91	110
AUG										
20...	K12	K72	170	44	15	77	4.5	103	83	110
SEP										
10...	K5	K50	130	32	11	44	3.1	100	43	56

K Results based on colony count outside the acceptable range (non-ideal colony count).

07355600 RED RIVER AT MONCLA, LA (CE 04657)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990									
23...	111	166	0.04	0.27	0.67	0.94	0.17	0.14	8.6
NOV									
06...	186	28	0.01	0.05	0.65	0.70	0.12	0.05	7.3
DEC									
04...	246	73	0.03	0.21	0.72	0.93	0.14	0.12	7.4
JAN 1991									
09...	115	209	0.03	0.17	0.79	0.96	0.21	0.09	9.3
FEB									
19...	142	62	E0.01	E0.18	E0.61	--	E0.10	E0.03	7.4
MAR									
05...	115	149	0.03	0.10	0.75	0.85	0.17	0.08	9.4
APR									
09...	178	107	0.03	0.20	0.86	1.1	0.18	0.08	7.3
MAY									
14...	93	169	0.03	0.21	0.71	0.92	0.18	0.12	10
JUN									
25...	446	243	0.01	0.31	0.75	1.1	0.24	0.07	8.9
JUL									
29...	512	14	<0.01	0.02	0.70	0.72	0.08	0.04	7.4
AUG									
20...	414	23	0.02	0.17	0.58	0.75	0.09	0.06	6.1
SEP									
10...	272	25	0.03	0.20	0.74	0.94	0.12	0.08	7.8

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 1990								
23...	3	<10	<1	8	6	4100	7	220
JAN 1991								
09...	2	<10	<1	5	7	4200	9	170
APR								
09...	3	<10	<1	6	5	4600	6	230
JUL								
29...	2	<10	<1	4	4	260	2	70

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 1990							
23...	<0.1	6	<1	20	<0.01	7	<1
JAN 1991							
09...	--	6	<1	10	<0.01	3	1
APR							
09...	<0.1	6	<1	20	<0.01	<1	<1
JUL							
29...	<0.1	2	<1	10	--	<1	<1

E Estimated.

< Actual value is known to be less than the value shown.

RED RIVER BASIN

07355603 RED RIVER (ABOVE LOCK AND DAM 1) NEAR VICK, LA

LOCATION.--Lat 31°15'01", long 91°56'17", in SW 1/4 sec. 11, T. 3 N., R. 5 E., Avoyelles Parish, Hydrologic Unit 08040301, near right bank, 10.1 mi east of Vick, and at mile 50.0.

DRAINAGE AREA.--67,700 mi², approximately, of which 5,936 mi² above Denison Dam is noncontributing.

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Water-quality samples are non-integrated and collected from upstream side of lock.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990										
23...	1130	205	7.28	18.0	120	110	8.1	35	1.5	250
NOV										
06...	1100	297	7.64	18.0	40	18	8.7	22	1.4	--
DEC										
04...	1000	432	7.67	15.0	80	60	8.7	23	1.1	--
JAN 1991										
09...	0900	205	7.14	8.0	80	85	11.6	30	3.4	290
FEB										
19...	1145	236	7.54	13.0	30	45	11.0	28	2.5	230
MAR										
05...	1100	193	7.37	14.0	60	65	9.4	31	1.3	1000
APR										
09...	1200	302	7.56	21.0	80	75	7.6	27	2.3	1400
MAY										
14...	1140	151	7.08	24.0	80	85	5.5	35	1.7	K300
JUN										
25...	1020	847	7.68	28.0	20	110	6.4	33	1.3	K200
JUL										
29...	1130	864	8.09	31.0	20	5.7	8.2	22	3.0	--
AUG										
20...	1000	793	7.57	28.5	20	20	7.3	30	1.6	K70
SEP										
10...	1100	545	7.40	29.0	30	21	5.9	30	2.5	K80

DATE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990										
23...	210	150	--	--	3.0	13	2.3	55	17	17
NOV										
06...	K48	K56	86	25	5.6	23	2.9	82	23	26
DEC										
04...	160	140	110	30	8.7	38	3.9	77	50	51
JAN 1991										
09...	80	140	58	17	3.8	14	2.6	44	21	19
FEB										
19...	K60	K45	69	20	4.7	16	2.5	56	20	20
MAR										
05...	120	120	51	15	3.4	15	2.0	42	12	20
APR										
09...	460	420	83	24	5.5	25	2.4	59	23	35
MAY										
14...	310	110	49	15	2.8	7.8	2.0	47	7.4	8.3
JUN										
25...	K40	120	180	48	15	--	4.0	97	37	120
JUL										
29...	K8	94	240	63	20	80	4.4	174	--	110
AUG										
20...	K20	K68	190	48	16	86	3.9	109	91	110
SEP										
10...	K25	K60	150	37	13	49	3.1	111	44	64

K Results based on colony count outside the acceptable range (non-ideal colony count).

07355603 RED RIVER (ABOVE LOCK AND DAM 1) NEAR VICK, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990									
23...	116	154	0.04	0.29	0.73	1.0	0.17	0.16	8.1
NOV									
06...	167	29	0.01	0.11	0.57	0.68	0.10	0.06	7.0
DEC									
04...	237	74	0.04	0.22	0.80	1.0	0.16	0.14	8.1
JAN 1991									
09...	124	194	0.03	0.16	0.85	1.0	0.20	0.08	8.5
FEB									
19...	140	51	E0.02	E0.20	E0.71	--	E0.10	E0.06	7.0
MAR									
05...	115	136	0.03	0.09	0.76	0.85	0.15	0.08	9.0
APR									
09...	175	106	0.01	0.17	0.42	0.59	0.03	0.02	6.5
MAY									
14...	96	124	0.03	0.21	0.66	0.87	0.14	0.13	9.2
JUN									
25...	459	184	0.01	0.30	0.75	1.0	0.07	0.07	8.3
JUL									
29...	480	11	<0.01	<0.02	0.73	--	0.08	0.04	7.2
AUG									
20...	453	31	0.02	0.21	0.57	0.78	0.09	0.06	5.4
SEP									
10...	299	19	0.05	0.20	0.65	0.85	0.11	0.08	7.5

DATE	ARSENIC TOTAL (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN)
OCT 1990								
23...	3	<10	<1	8	5	3600	6	200
JAN 1991								
09...	2	<10	<1	5	5	4600	5	160
APR								
09...	2	<10	<1	6	5	3800	4	170
JUL								
29...	3	<10	<1	2	1	220	1	60

DATE	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 1990							
23...	<0.1	6	<1	20	<0.01	6	<1
JAN 1991							
09...	<0.1	6	<1	20	<0.01	5	--
APR							
09...	<0.1	5	<1	10	<0.01	<1	<1
JUL							
29...	--	2	<1	<10	--	<1	<1

< Actual value is known to be less than the value shown.
E Estimated.

RED RIVER BASIN

07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 33°01'52", long 92°05'16", in SE 1/4 NE 1/4 sec.25, T.19 S., R.10 W., Union County, Hydrologic Unit 08040202, on right bank 500 ft below lock and dam No. 6, 1.6 mi north of Arkansas-Louisiana State line, 3.5 mi downstream from Missouri Pacific Railroad Co. bridge, and 4.5 mi southeast of Felsenthal, Ark.

DRAINAGE AREA.--10,787 mi².

PERIOD OF RECORD.--April 1958 to current year (daily gage heights and daily discharges below 19.0 ft stage only). Gage-height record for some periods collected at same site since 1912 are contained in reports of Corps of Engineers, Vicksburg District.

REVISED RECORDS.--WDR LA-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 44.09 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 26, 1958, nonrecording gage at same site and datum. Water-stage recorder for Ouachita River at Sterlington (station 07364535) used as auxiliary gage for this station. Prior to Oct. 1, 1980, water-stage recorder for Ouachita River at Alabama Landing near Haile (station 07364103) was used as auxiliary gage for this station.

REMARKS.--Estimated daily discharges. Indefinite stage-discharge relationship: July 11-19. Records poor. Discharge computed for stages below bankfull, about 19 ft. Considerable regulation by 5 reservoirs in Arkansas, combined capacity, 3,107,880 acre-ft and a series of navigation locks and dams. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 43.04 ft, May 14, 15, 1958 (discharge not determined); minimum daily discharge, 190 ft³/s Sept. 13, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since 1912, 44.2 ft, Apr. 11, 12, 1945; minimum, -0.3 ft, Nov. 11, 1916; minimum since 1928, 5.8 ft, Aug. 25, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 42.35 ft, May 11; minimum daily discharge 819 ft³/s, Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	3530	10100								5410	3290
2	2140	3500	10500								4550	3720
3	819	4460	10200								4900	2510
4	3260	5450	8840								4730	2810
5	2690	6110	7390								4830	4660
6	3090	4350	9590								3800	6250
7	2900	4430	11000								3790	7320
8	3340	5900	11400								5630	6210
9	2060	7550	11200								6300	5300
10	5910	9290	10700								6590	4770
11	10700	10700	9710							e2000	5150	5400
12	13500	11200	8180							e1850	3460	5360
13	15700	11000	7250							e1500	e3000	5470
14	17300	9440	6510							e1300	e2700	5110
15	18700	8570	5600							e1150	2880	4810
16		8130	5610							e1100	2530	5000
17	18000	7230	5310							e1050	2290	4670
18	15800	7010	9490							e1000	4650	4820
19	13800	6580	13000							e1500	4690	4120
20	13200	5890	16800							2680	2900	3130
21	e11000	5470								2350	3560	3690
22	e10000	5690								2190	4410	2510
23	e9000	5410								2190	3750	2150
24	e8000	4430								1720	3470	2570
25	e7000	4280								2580	2740	2530
26	e6500	3760								2630	3140	1710
27	e6000	3180								2870	2910	1990
28	e5500	4690								3010	2820	1750
29	e5000	6460								2350	2700	1670
30	4370	8740								2970	2930	1910
31	3720	---								4790	3670	---
TOTAL	---	192430	---	---	---	---	---	---	---	---	120880	117210
MEAN	---	6414	---	---	---	---	---	---	---	---	3899	3907
MAX	---	11200	---	---	---	---	---	---	---	---	6590	7320
MIN	---	3180	---	---	---	---	---	---	---	---	2290	1670

e Estimated.

07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.43	9.73	13.85	23.25	31.60	32.02	25.70	39.15	37.76	25.49	11.01	9.57
2	8.81	9.70	14.10	23.69	31.29	32.28	25.46	39.85	37.50	24.91	10.44	9.86
3	8.34	10.33	13.93	24.11	30.96	32.47	25.21	40.44	37.22	24.34	10.66	9.04
4	9.52	11.01	13.17	24.53	30.60	32.66	24.94	40.98	36.92	23.78	10.56	9.22
5	9.14	11.44	12.26	24.94	30.28	32.83	24.65	40.79	36.59	23.22	10.62	10.47
6	9.40	10.30	13.54	25.33	29.92	32.96	24.35	41.11	36.23	22.63	9.93	11.52
7	9.28	10.34	14.40	25.63	29.53	33.00	24.10	41.54	35.88	21.97	9.90	12.21
8	9.58	11.27	14.62	25.90	29.18	33.05	23.92	41.87	35.50	21.30	11.13	11.55
9	8.78	12.34	14.49	26.13	28.86	33.10	23.74	42.12	35.11	20.48	11.55	10.95
10	11.20	13.46	14.22	26.48	28.58	33.08	23.57	42.27	34.70	19.35	11.76	10.58
11	14.18	14.28	13.66	26.84	28.27	33.02	23.45	42.34	34.30	18.29	10.84	10.97
12	15.81	14.58	12.74	27.15	27.95	32.90	23.49	42.33	33.90	17.09	9.72	10.95
13	17.03	14.43	12.15	27.50	27.63	32.72	23.80	42.25	33.48	15.67	9.16	11.02
14	17.93	13.58	11.66	27.89	27.24	32.47	24.64	42.12	33.06	14.25	9.13	10.80
15	18.71	13.05	11.09	28.43	26.79	32.19	26.22	41.94	32.65	12.50	9.27	10.59
16	19.04	12.76	11.07	29.06	26.35	31.88	27.51	41.72	32.27	10.71	9.06	10.71
17	18.32	12.20	10.89	29.71	25.94	31.56	28.77	41.49	31.89	9.33	8.84	10.50
18	17.13	12.03	13.43	30.33	25.86	31.18	29.95	41.23	31.49	9.21	10.46	10.60
19	16.05	11.75	15.50	30.89	27.12	30.79	30.99	41.00	31.08	8.96	10.52	10.13
20	15.69	11.30	17.66	31.33	28.21	30.37	31.85	40.72	30.67	9.21	9.29	9.43
21	---	11.02	19.29	31.66	28.84	30.00	32.58	40.44	30.25	8.90	9.73	9.86
22	---	11.14	20.15	31.92	29.50	29.61	33.28	40.16	29.85	8.79	10.33	9.01
23	---	10.98	20.44	32.12	30.03	29.19	33.92	39.88	29.43	8.80	9.90	8.71
24	---	10.33	20.73	32.28	30.47	28.74	34.40	39.60	29.00	8.43	9.67	8.99
25	---	10.22	21.00	32.38	30.81	28.28	34.76	39.38	28.57	9.03	9.16	9.08
26	---	9.85	21.23	32.42	31.12	27.82	34.98	39.15	28.10	9.13	9.46	8.43
27	---	9.47	21.58	32.41	31.41	27.36	35.15	38.91	27.60	9.32	9.28	8.63
28	---	10.53	21.92	32.35	31.68	26.91	36.06	38.66	27.09	9.45	9.22	8.44
29	---	11.62	22.26	32.25	---	26.57	37.50	38.42	26.58	9.02	9.13	8.37
30	10.56	13.05	22.60	32.08	---	26.21	38.35	38.20	26.05	9.41	9.31	8.58
31	9.87	---	22.84	31.86	---	25.93	---	37.98	---	10.62	9.81	---
MAX	---	14.58	22.84	32.42	31.68	33.10	38.35	42.34	37.76	25.49	11.76	12.21
MIN	---	9.47	10.89	23.25	25.86	25.93	23.45	37.98	26.05	8.43	8.84	8.37

RED RIVER BASIN

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA

LOCATION.--Lat 32°59'25", long 91°39'20", in SE 1/4 SW 1/4 sec.9, T.23 N., R.8 E., Morehouse Parish, Hydrologic Unit 08040205, on downstream side of right pier of bridge on State Highway 834, 1.0 mi downstream from Arkansas-Louisiana State line, and 1.6 mi northwest of Jones.

DRAINAGE AREA.--1,187 mi².

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 79.21 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Water-stage recorder for Bayou Bartholomew northwest of Jones (station 07364203) used as auxiliary gage for this station since Oct. 1, 1959. See WSP 2120 for history of changes prior to Dec. 7, 1966.

REMARKS.--No estimated discharges. Records good. Small diversions above station for irrigation. In extreme floods, considerable flow bypasses station. Most of flow is into the Bayou Lafourche-Boeuf River basins by way of Interconnecting system of bayous and drainage ditches and passes stations Bayou Lafourche near Crew Lake (station 07369000) and Boeuf River near Girard (station 07368000). Other flow bypasses station and re-enters the basin 5 mi downstream by way of Overflow Creek. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 1,366 ft³/s, 989,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,530 ft³/s, Apr. 28, 1991; maximum gage height, 29.16 ft, May 5, 1991; minimum discharge, 1.6 ft³/s, Aug. 22, 1986, gage height, -0.45 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,530 ft³/s, Apr. 28, gage height, 28.03 ft; maximum gage height, 29.16 ft, May 5; minimum discharge, 92 ft³/s, July 25, gage height, 1.64 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	710	450	3400	2740	7060	2230	6690	5380	372	195	289
2	125	709	445	3410	2610	7110	2090	6710	5090	354	216	329
3	123	702	448	3440	2470	7190	1990	6730	4810	342	232	350
4	134	691	455	3470	2330	7160	1920	6700	4540	338	247	346
5	144	693	452	3470	2210	7120	1840	6690	4280	317	244	328
6	158	674	454	3470	2100	7070	1770	6740	4040	285	228	305
7	181	646	464	3460	1980	7110	1710	6750	3780	257	219	281
8	218	620	471	3420	1890	7090	1690	6800	3560	238	224	256
9	227	684	469	3370	1820	7030	1730	6780	3330	221	227	237
10	223	781	459	3400	1770	6960	1730	6790	3100	210	319	222
11	221	789	443	3460	1740	6870	1730	6790	2840	202	309	210
12	243	800	427	3530	1700	6760	1720	6810	2590	197	275	202
13	272	796	412	3570	1650	6640	1910	6840	2380	190	240	199
14	284	763	399	3640	1590	6540	2110	6860	2160	177	208	199
15	279	715	387	3750	1530	6400	2560	6900	1950	166	181	204
16	267	653	376	3840	1460	6220	3130	6900	1730	147	166	213
17	255	587	375	3940	1380	6040	4190	6900	1550	140	159	219
18	248	531	425	3980	1470	5820	5220	6920	1360	133	151	222
19	247	479	540	3990	1980	5590	5890	6880	1190	134	146	219
20	261	436	727	3980	2550	5320	6370	6900	1030	146	137	208
21	308	400	1090	3970	4090	5040	6610	6920	856	146	138	195
22	416	381	1560	3920	5200	4800	6790	6900	702	128	146	182
23	467	376	2010	3840	5880	4520	6870	6860	585	108	145	170
24	513	376	2410	3750	6300	4230	6910	6810	514	101	148	167
25	561	377	2740	3650	6640	3840	6940	6770	466	95	150	167
26	602	378	2930	3540	6790	3680	6990	6640	470	94	149	158
27	638	379	3090	3410	6890	3400	7020	6460	444	97	144	149
28	669	412	3210	3290	6960	3120	7240	6260	415	112	148	144
29	690	438	3230	3150	---	2840	7120	6080	398	120	173	141
30	704	450	3280	3010	---	2600	6790	5880	388	136	282	139
31	710	---	3390	2880	---	2400	---	5660	---	165	316	---
TOTAL	10515	17426	38018	110400	87720	173570	122810	207320	65928	5868	6262	6650
MEAN	339	581	1226	3561	3133	5599	4094	6688	2198	189	202	222
MAX	710	800	3390	3990	6960	7190	7240	6920	5380	372	319	350
MIN	123	376	375	2880	1380	2400	1690	5660	388	94	137	139
AC-FT	20860	34560	75410	219000	174000	344300	243600	411200	130800	11640	12420	13190
CAL YR 1990	TOTAL 752314		MEAN 2061		MAX 6840		MIN 49		AC-FT 1492000			
WTR YR 1991	TOTAL 852487		MEAN 2336		MAX 7240		MIN 94		AC-FT 1691000			

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.34	7.34	5.58	19.70	17.39	27.62	16.37	28.92	26.03	5.17	3.23	4.22
2	2.30	7.33	5.53	19.76	16.89	27.74	15.76	28.98	25.54	4.95	3.47	4.74
3	2.27	7.29	5.56	19.87	16.37	27.82	15.24	29.02	24.99	4.78	3.64	4.90
4	2.44	7.23	5.63	19.89	15.82	27.84	14.85	29.09	24.40	4.69	3.79	4.71
5	2.60	7.24	5.63	19.88	15.36	27.84	14.47	29.13	23.77	4.45	3.76	4.55
6	2.82	7.12	5.61	19.83	14.90	27.83	14.05	29.10	23.08	4.16	3.59	4.35
7	3.13	6.95	5.68	19.74	14.39	27.83	13.66	29.00	22.37	3.89	3.50	4.12
8	3.54	6.80	5.75	19.60	13.95	27.80	13.79	28.95	21.62	3.70	3.55	3.88
9	3.64	7.24	5.74	19.42	13.61	27.73	13.72	28.88	20.82	3.52	3.58	3.69
10	3.60	7.87	5.65	19.56	13.35	27.64	13.53	28.82	19.97	3.40	4.47	3.53
11	3.57	7.85	5.52	19.75	13.13	27.54	13.42	28.78	19.04	3.31	4.39	3.40
12	3.80	7.98	5.39	19.83	12.91	27.40	13.63	28.73	18.12	3.25	4.07	3.32
13	4.09	8.01	5.27	19.95	12.66	27.27	14.70	28.69	17.21	3.17	3.72	3.27
14	4.20	7.87	5.16	20.12	12.34	27.11	16.22	28.66	16.30	3.03	3.37	3.28
15	4.16	7.61	5.06	20.42	11.97	26.91	18.46	28.62	15.36	2.86	3.07	3.34
16	4.04	7.26	4.96	20.69	11.57	26.69	20.85	28.58	14.41	2.58	2.87	3.43
17	3.92	6.83	4.96	20.84	11.17	26.45	23.00	28.54	13.45	2.46	2.76	3.49
18	3.85	6.38	5.37	20.93	12.22	26.15	24.40	28.50	12.47	2.36	2.64	3.53
19	3.85	5.92	6.24	20.98	15.43	25.79	25.19	28.48	11.45	2.36	2.55	3.49
20	3.98	5.49	7.45	20.97	19.71	25.37	25.74	28.43	10.36	2.56	2.41	3.38
21	4.41	5.17	9.82	20.91	23.62	24.88	26.02	28.38	9.21	2.56	2.43	3.23
22	5.34	5.01	12.18	20.81	25.15	24.38	26.27	28.32	8.12	2.26	2.56	3.08
23	5.74	4.97	13.94	20.64	26.06	23.83	26.48	28.24	7.25	1.92	2.54	2.92
24	6.08	4.96	15.46	20.44	26.56	23.12	26.60	28.13	6.64	1.79	2.59	2.87
25	6.41	4.97	16.76	20.17	26.91	22.30	26.74	28.01	6.31	1.68	2.62	2.88
26	6.68	4.98	17.62	19.87	27.13	21.56	26.90	27.88	6.31	1.67	2.60	2.74
27	6.91	4.99	18.49	19.53	27.30	20.66	27.11	27.67	5.98	1.72	2.53	2.61
28	7.09	5.27	19.08	19.15	27.42	19.68	27.92	27.42	5.68	1.99	2.59	2.53
29	7.22	5.48	19.25	18.75	---	18.78	28.55	27.13	5.48	2.13	2.96	2.49
30	7.30	5.57	19.41	18.32	---	17.91	28.74	26.82	5.35	2.40	4.11	2.45
31	7.34	---	19.63	17.87	---	17.08	---	26.47	---	2.84	4.45	---
MAX	7.34	8.01	19.63	20.98	27.42	27.84	28.74	29.13	26.03	5.17	4.47	4.90
MIN	2.27	4.96	4.96	17.87	11.17	17.08	13.42	26.47	5.35	1.67	2.41	2.45

07364840 LAKE CLAIBORNE NEAR AYCOCK, LA

LOCATION.--Lat 32°44'20", long 92°54'18", in sec.8, T.20 N., R.5 W., Claiborne Parish, Hydrologic Unit 08040206, attached to pier of catwalk to drop inlet structure, 50 ft upstream from dam on Bayou D'Arbonne, and 2.0 mi northeast of Aycock.

DRAINAGE AREA.--133 mi².

PERIOD OF RECORD.--1962 (one discharge measurement). February 1968 to current year (gage heights and miscellaneous discharge measurements only).

GAGE.--Water-stage recorder. Datum of gage is 176.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--Reservoir is formed by an earthfill dam, containing an uncontrolled concrete drop inlet spillway near the left end of dam. Outflow below spillway elevation is controlled by two 8- by 8-ft sluice gates in upstream face of drop inlet. Invert of sluice gates at -24.75 ft, gage datum, capacity, 100,000 acre-ft to 9.0 ft, gage datum. Dam completed and storage began in 1966. Reservoir is used for flood control and conservation. Gates were open October 1 to December 5, and September 3-30, and closed other times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 16.23 ft, Apr. 28, 1991; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.23 ft, Apr. 28; minimum, 4.43 ft, Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.18	4.87	5.34	6.80	9.53	10.22	9.87	12.57	9.68	9.18	9.04	8.94
2	5.15	4.85	5.34	6.85	9.51	10.24	9.81	11.74	9.64	9.16	9.03	8.98
3	5.14	4.84	5.38	6.89	9.50	10.22	9.76	11.62	9.60	9.14	9.01	9.08
4	5.18	4.85	5.35	6.91	9.49	10.12	9.79	11.97	9.56	9.13	9.00	8.93
5	5.16	4.86	5.33	6.94	9.56	10.04	9.82	11.78	9.52	9.11	9.00	8.76
6	5.13	4.82	5.33	6.99	9.60	9.98	9.79	11.40	9.49	9.09	8.98	8.60
7	5.12	4.80	5.36	7.09	9.60	9.90	9.77	11.03	9.44	9.08	8.97	8.49
8	5.10	4.81	5.36	7.15	9.58	9.84	9.84	10.76	9.41	9.07	8.95	8.39
9	5.12	5.08	5.36	7.20	9.57	9.80	9.84	10.59	9.39	9.06	8.95	8.30
10	5.09	5.14	5.36	7.71	9.55	9.75	9.78	10.45	9.38	9.04	8.96	8.22
11	5.05	5.15	5.36	8.22	9.54	9.71	9.73	10.32	9.40	9.02	8.95	8.12
12	5.02	5.14	5.36	8.42	9.52	9.68	10.23	10.21	9.41	9.00	8.93	8.00
13	5.00	5.14	5.37	8.52	9.52	9.67	11.33	10.12	9.40	8.98	8.91	7.88
14	4.98	5.13	5.37	8.59	9.52	9.62	12.31	10.03	9.38	8.96	8.92	7.76
15	4.96	5.12	5.38	9.00	9.48	9.59	12.98	9.98	9.39	8.94	8.94	7.63
16	4.95	5.11	5.39	9.43	9.43	9.57	12.19	9.94	9.43	8.92	8.93	7.51
17	4.94	5.10	5.45	9.58	9.45	9.59	11.56	9.90	9.44	8.90	8.93	7.32
18	4.99	5.09	5.53	9.64	9.91	9.58	11.19	9.97	9.42	8.90	8.94	7.11
19	4.96	5.08	5.55	9.68	11.74	9.56	10.93	10.01	9.40	8.91	8.94	6.87
20	4.93	5.07	5.57	9.69	11.99	9.55	10.71	10.01	9.38	8.91	8.91	6.63
21	5.00	5.06	5.65	9.68	11.52	9.53	10.48	9.98	9.35	8.90	8.89	6.41
22	5.04	5.10	5.79	9.65	11.40	9.53	10.50	9.95	9.33	8.88	8.89	6.19
23	5.03	5.14	5.84	9.64	11.28	9.53	10.84	9.91	9.31	8.87	8.88	5.98
24	5.01	5.13	5.82	9.63	10.99	9.51	10.74	9.88	9.30	8.85	8.86	5.80
25	4.99	5.12	5.83	9.62	10.72	9.49	10.56	9.92	9.28	8.87	8.85	5.65
26	4.97	5.12	5.84	9.61	10.51	9.48	10.38	9.99	9.25	8.94	8.84	5.43
27	4.95	5.14	6.15	9.59	10.34	9.48	10.31	9.94	9.23	9.05	8.82	5.20
28	4.93	5.31	6.37	9.58	10.20	9.52	14.42	9.88	9.21	9.07	8.81	4.98
29	4.91	5.35	6.48	9.57	---	9.84	15.58	9.81	9.20	9.08	8.80	4.76
30	4.90	5.35	6.62	9.56	---	9.95	13.82	9.77	9.19	9.07	8.86	4.54
31	4.88	---	6.74	9.54	---	9.93	---	9.72	---	9.06	8.92	---
MAX	5.18	5.35	6.74	9.69	11.99	10.24	15.58	12.57	9.68	9.18	9.04	9.08
MIN	4.88	4.80	5.33	6.80	9.43	9.48	9.73	9.72	9.19	8.85	8.80	4.54

07366200 LITTLE CORNEY BAYOU NEAR LILLIE, LA

LOCATION.--Lat 32°55'45", long 92°37'58", in NW 1/4 sec.1, T.22 N., R.3 W., Union Parish, Hydrologic Unit 08040206, left bank on downstream side of bridge on State Highway 15, 1.4 mi east of Lillie, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--208 mi².

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WDR LA-79-1: 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 91.48 ft above National Geodetic Vertical Datum of 1929. October 1955 to Jan. 26, 1956, nonrecording gage, Jan. 27, 1956, to May 31, 1978, water-stage recorder, at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 13	0200	1,490	7.64	Apr. 15	0900	9,480	11.80
Jan. 18	0600	1,390	7.56	Apr. 23	0300	1,510	7.66
Feb. 19	1700	6,000	10.34	Apr. 29	0600	*20,200	*17.07
Mar. 31	1900	1,350	7.52	May 6	0300	4,030	9.33

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	21	334	695	72	384	1100	7180	87	32	32	151
2	6.0	21	339	510	64	481	705	1860	91	27	21	130
3	5.9	23	272	383	60	751	469	917	70	23	15	168
4	7.5	25	202	279	58	1100	285	1370	58	49	14	138
5	15	31	124	158	81	789	191	2520	49	51	14	137
6	14	40	73	103	178	536	214	3500	44	64	13	120
7	12	44	56	153	252	377	242	1970	42	53	19	86
8	10	43	50	260	290	240	381	1330	42	37	28	56
9	12	97	45	288	324	155	451	856	38	28	22	43
10	17	232	42	539	295	116	775	655	36	24	26	116
11	23	311	40	1140	164	97	730	517	38	23	38	125
12	22	319	39	1290	92	89	632	421	56	19	32	81
13	19	300	47	1370	79	89	1450	364	70	16	24	42
14	17	263	47	884	71	86	4620	294	50	14	20	31
15	14	123	45	811	62	80	8840	201	41	12	19	25
16	14	56	43	1100	56	74	5460	154	75	11	17	21
17	13	45	57	1060	58	75	2130	157	143	11	17	20
18	16	38	114	1300	578	86	1040	154	179	9.8	17	20
19	27	32	193	866	4920	83	744	140	125	11	22	33
20	22	29	222	593	4120	78	778	129	66	15	23	28
21	25	28	248	424	2580	77	817	133	45	17	19	21
22	70	29	391	288	2040	79	1270	134	36	30	14	17
23	112	42	507	192	1580	75	1390	125	31	24	13	16
24	125	52	436	135	1310	70	972	123	33	17	13	31
25	123	51	366	107	1450	65	1080	114	51	14	14	200
26	70	48	324	93	921	61	857	211	46	13	11	385
27	36	51	369	85	608	63	783	281	36	13	9.6	367
28	28	105	592	83	442	83	11400	205	31	15	11	178
29	24	227	701	78	---	647	19300	173	35	27	12	60
30	22	291	820	76	---	1040	13800	128	43	51	17	38
31	23	---	840	74	---	1200	---	94	---	55	84	---
TOTAL	950.8	3017	7978	15417	22805	9226	82906	26410	1787	805.8	650.6	2884
MEAN	30.7	101	257	497	814	298	2764	852	59.6	26.0	21.0	96.1
MAX	125	319	840	1370	4920	1200	19300	7180	179	64	84	385
MIN	5.9	21	39	74	56	61	191	94	31	9.8	9.6	16
AC-FT	1890	5980	15820	30580	45230	18300	164400	52380	3540	1600	1290	5720
CFSM	.15	.48	1.24	2.39	3.92	1.43	13.3	4.10	.29	.12	.10	.46
IN.	.17	.54	1.43	2.76	4.08	1.65	14.83	4.72	.32	.14	.12	.52

07366200 LITTLE CORNEY BAYOU NEAR LILLIE, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1991, BY WATER YEAR (WY)

MEAN	54.8	155	236	306	401	350	413	267	159	83.0	25.4	40.6
MAX	660	977	1112	1140	1255	913	2764	852	1391	985	131	464
(WY)	1985	1958	1983	1974	1975	1973	1991	1991	1974	1989	1971	1974
MIN	.45	10.3	20.7	40.7	58.5	48.3	49.8	11.5	3.40	1.19	1.49	.54
(WY)	1988	1978	1957	1967	1964	1966	1981	1988	1966	1988	1956	1987

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1956 - 1991

ANNUAL TOTAL	130398.7			174837.2								
ANNUAL MEAN	357			479								
HIGHEST ANNUAL MEAN									206			
LOWEST ANNUAL MEAN									502		1958	
HIGHEST DAILY MEAN	5210	Mar 10		19300	Apr 29				52.3		1967	
LOWEST DAILY MEAN	2.4	Sep 4		5.9	Oct 3				20000		Apr 28 1958	
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 2		9.5	Oct 1				.00		Aug 18 1956	
INSTANTANEOUS PEAK FLOW				20200	Apr 29				.00		Sep 21 1956	
INSTANTANEOUS PEAK STAGE				17.07	Apr 29				24000		Jun 9 1974	
INSTANTANEOUS LOW FLOW				5.5	Oct 2.3				17.54		Jun 9 1974	
INSTANTANEOUS LOW STAGE				2.34	Oct 2.3				No flow at times		in 1956, 1964	
ANNUAL RUNOFF (AC-FT)	258600			346800					149400			
ANNUAL RUNOFF (CFSM)	1.72			2.30					.99			
ANNUAL RUNOFF (INCHES)	23.32			31.27					13.47			
10 PERCENT EXCEEDS	843			999					529			
50 PERCENT EXCEEDS	91			79					50			
90 PERCENT EXCEEDS	9.3			16					4.4			

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.39	2.99	5.79	6.71	4.35	5.95	7.28	10.81	4.35	3.31	3.30	4.93
2	2.37	2.99	5.80	6.30	4.22	6.23	6.73	7.88	4.39	3.16	2.98	4.77
3	2.37	3.05	5.58	5.95	4.15	6.78	6.19	7.08	4.11	3.05	2.80	5.03
4	2.44	3.12	5.31	5.60	4.11	7.29	5.59	7.53	3.89	3.72	2.73	4.83
5	2.80	3.28	4.86	5.08	4.44	6.88	5.18	8.36	3.73	3.76	2.75	4.83
6	2.76	3.52	4.36	4.71	5.18	6.37	5.29	9.01	3.61	4.00	2.69	4.70
7	2.66	3.60	4.08	5.04	5.51	5.92	5.42	8.00	3.58	3.80	2.91	4.32
8	2.58	3.59	3.95	5.54	5.64	5.41	5.94	7.49	3.56	3.44	3.19	3.86
9	2.64	4.38	3.84	5.64	5.75	4.95	6.15	6.99	3.47	3.20	3.01	3.59
10	2.85	5.37	3.78	6.35	5.66	4.66	6.84	6.63	3.40	3.07	3.13	4.58
11	3.06	5.70	3.73	7.33	5.10	4.46	6.78	6.32	3.46	3.05	3.48	4.74
12	3.01	5.73	3.71	7.47	4.59	4.37	6.58	6.06	3.85	2.92	3.30	4.24
13	2.92	5.66	3.89	7.54	4.44	4.37	7.55	5.89	4.11	2.81	3.08	3.55
14	2.85	5.52	3.90	7.02	4.33	4.33	9.61	5.64	3.75	2.73	2.96	3.28
15	2.76	4.71	3.84	6.92	4.19	4.26	11.54	5.22	3.54	2.68	2.94	3.10
16	2.75	3.95	3.80	7.29	4.08	4.17	10.04	4.95	4.13	2.62	2.87	2.99
17	2.69	3.73	4.08	7.25	4.12	4.18	8.10	4.98	4.87	2.61	2.85	2.96
18	2.80	3.57	4.78	7.48	6.12	4.33	7.21	4.95	5.11	2.56	2.85	2.97
19	3.16	3.44	5.26	7.00	9.77	4.29	6.81	4.85	4.72	2.60	3.03	3.35
20	3.02	3.38	5.39	6.50	9.36	4.22	6.86	4.77	4.03	2.77	3.05	3.21
21	3.11	3.36	5.49	6.07	8.43	4.20	6.93	4.80	3.64	2.85	2.91	2.99
22	4.08	3.42	5.97	5.63	8.03	4.24	7.45	4.81	3.41	3.25	2.75	2.85
23	4.62	3.76	6.30	5.26	7.71	4.19	7.56	4.74	3.27	3.09	2.69	2.81
24	4.73	4.01	6.10	4.94	7.48	4.10	7.15	4.72	3.33	2.87	2.71	3.20
25	4.72	3.97	5.89	4.75	7.60	4.02	7.26	4.65	3.76	2.75	2.73	5.15
26	4.06	3.90	5.76	4.60	7.07	3.96	7.00	5.26	3.66	2.70	2.61	5.95
27	3.42	3.97	5.90	4.53	6.53	3.99	6.88	5.59	3.41	2.68	2.55	5.89
28	3.19	4.65	6.49	4.51	6.12	4.22	12.61	5.25	3.28	2.77	2.62	5.04
29	3.07	5.41	6.73	4.43	---	6.49	16.56	5.07	3.38	3.15	2.67	3.93
30	3.03	5.65	6.94	4.40	---	7.22	13.85	4.75	3.59	3.76	2.82	3.46
31	3.03	---	6.98	4.37	---	7.38	---	4.44	---	3.84	4.24	---
MAX	4.73	5.73	6.98	7.54	9.77	7.38	16.56	10.81	5.11	4.00	4.24	5.95
MIN	2.37	2.99	3.71	4.37	4.08	3.96	5.18	4.44	3.27	2.56	2.55	2.81

07366300 BAYOU D'ARBONNE LAKE AT FARMERVILLE, LA

LOCATION.--Lat 32°45'25", long 92°24'50", in NW 1/4 NW 1/4 sec.6, T.20 N., R.1 E., Union Parish, Hydrologic Unit 08040206, near right bank on downstream side of bridge on State Highway 33, 0.6 mi southwest of Farmerville, and 5.0 mi upstream from dam on Bayou D'Arbonne.

DRAINAGE AREA.--1,607 mi² at dam, 1,470 mi² at site.

PERIOD OF RECORD.--December 1964 to current year (gage heights and miscellaneous discharge measurements only). August 1925 to current year in reports of Corps of Engineers, Vicksburg District. Published as Lake D'Arbonne at Farmerville, December 1964 to September 1968.

REVISED RECORDS.--WDR LA-71: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.40 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by an earthfill dam containing a 799-ft uncontrolled concrete spillway at left end. Capacity, 130,000 acre-ft at spillway crest, 39.60 ft, gage datum. There is no dead storage. Outflow below spillway crest controlled by four 5- by 5-ft sluice gates at outlet. Invert elevation of sluice gates at 17.6 ft gage datum. Dam complete and storage began in 1964. Reservoir is used for flood control, conservation, and recreation. Gates were open July 26-31.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 50.38 ft, April 30, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1925, 45.71 ft, April 30, 1958, (from Corps of Engineers records).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 50.38 ft, Apr. 30; minimum, 38.48 ft, Aug. 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.83	39.87	40.19	41.34	40.54	42.06	40.95	49.35	41.07	40.06	38.53	38.70
2	39.82	39.87	40.20	41.29	40.51	41.86	41.15	47.68	40.92	40.03	38.54	38.75
3	39.82	39.86	40.22	41.19	40.49	41.68	41.31	46.26	40.79	40.04	38.54	38.83
4	39.82	39.88	40.19	41.07	40.47	41.52	41.33	45.69	40.67	40.12	38.53	38.88
5	39.81	39.89	40.19	40.95	40.49	41.48	41.25	45.22	40.58	40.12	38.52	38.95
6	39.81	39.87	40.19	40.85	40.51	41.48	41.14	44.67	40.48	40.10	38.51	39.05
7	39.80	39.87	40.18	40.77	40.53	41.44	41.05	44.37	40.42	40.08	38.51	39.18
8	39.80	39.87	40.16	40.72	40.55	41.37	41.02	44.18	40.36	40.05	38.54	39.30
9	39.80	40.14	40.13	40.67	40.57	41.25	40.97	44.03	40.32	40.03	38.54	39.38
10	39.75	40.25	40.12	40.92	40.59	41.11	40.92	43.80	40.28	40.00	38.55	39.45
11	39.73	40.27	40.10	41.23	40.60	40.99	40.92	43.49	40.28	39.97	38.54	39.52
12	39.71	40.25	40.09	41.39	40.61	40.89	41.09	43.19	40.28	39.95	38.54	39.59
13	39.70	40.22	40.08	41.49	40.60	40.79	41.55	42.92	40.32	39.92	38.53	39.65
14	39.70	40.20	40.07	41.55	40.56	40.68	42.39	42.68	40.32	39.90	38.54	39.70
15	39.70	40.19	40.07	41.67	40.47	40.62	43.71	42.47	40.30	39.87	38.55	39.75
16	39.70	40.17	40.06	41.73	40.44	40.57	44.98	42.25	40.30	39.85	38.55	39.79
17	39.70	40.13	40.10	41.77	40.46	40.58	45.08	42.02	40.30	39.83	38.54	39.83
18	39.75	40.11	40.50	41.77	40.70	40.55	44.45	41.80	40.30	39.84	38.57	39.87
19	39.73	40.08	40.67	41.74	42.93	40.53	43.70	41.60	40.30	39.84	38.58	39.87
20	39.73	40.06	40.68	41.68	44.27	40.51	43.07	41.42	40.29	39.85	38.56	39.90
21	39.80	40.05	40.76	41.58	44.65	40.49	42.56	41.26	40.29	39.84	38.54	39.94
22	39.88	40.06	41.03	41.46	44.21	40.49	42.28	41.14	40.25	39.83	38.54	39.98
23	39.89	40.08	41.09	41.32	43.65	40.47	42.33	41.04	40.22	39.82	38.53	40.02
24	39.89	40.07	41.01	41.18	43.25	40.45	42.32	40.98	40.21	39.81	38.52	40.14
25	39.89	40.06	40.90	41.05	42.94	40.44	42.26	40.99	40.26	39.81	38.53	40.25
26	39.89	40.06	40.79	40.93	42.68	40.43	42.12	41.05	40.22	39.79	38.59	40.26
27	39.89	40.08	40.97	40.83	42.47	40.42	42.08	41.09	40.18	39.55	38.58	40.26
28	39.89	40.17	41.16	40.75	42.24	40.41	43.79	41.11	40.15	39.32	38.58	40.27
29	39.88	40.17	41.22	40.69	---	40.51	47.65	41.11	40.11	39.07	38.57	40.27
30	39.88	40.18	41.27	40.64	---	40.62	50.18	41.16	40.08	38.79	38.57	40.26
31	39.87	---	41.34	40.58	---	40.79	---	41.15	---	38.54	38.64	---
MAX	39.89	40.27	41.34	41.77	44.65	42.06	50.18	49.35	41.07	40.12	38.64	40.27
MIN	39.70	39.86	40.06	40.58	40.44	40.41	40.92	40.98	40.08	38.54	38.51	38.70

07366472 CHAUVIN BAYOU NEAR MONROE, LA

LOCATION.--Lat 32°33'34", long 92°04'31", in NE 1/4 NE 1/4 sec.43, T.18 N., R.4 E., Ouachita Parish, Hydrologic Unit 08040207, on downstream end of culvert on U.S. Highway 165, 2.5 mi north of Sherrouse School at Monroe, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 1977 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of the gage is 31.17 ft above National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 42.32 ft, May 9, 1991; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 42.32 ft, May 9; minimum, 30.44 ft, Oct. 1.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.47	30.55	30.83	32.68	36.31	37.65	35.82	41.13	40.42	37.03	31.12	31.05
2	30.50	30.55	30.77	32.75	36.31	37.77	35.50	41.23	40.31	36.64	31.10	31.14
3	30.49	30.70	30.93	33.08	36.31	37.80	35.17	41.46	40.19	36.21	31.08	31.13
4	30.50	30.68	30.88	33.16	36.32	37.80	34.80	41.99	40.07	35.90	31.07	30.99
5	30.50	30.84	30.80	33.20	36.49	37.80	34.35	42.13	39.96	35.89	31.05	30.87
6	30.49	30.76	30.76	33.24	36.61	37.78	33.80	---	39.84	35.49	31.07	30.91
7	30.48	30.71	30.80	33.29	36.70	37.75	33.16	42.18	39.74	34.96	31.15	31.37
8	30.57	30.69	30.78	33.31	36.73	37.72	33.81	42.21	39.66	34.12	31.13	31.14
9	30.58	31.31	30.71	33.34	36.75	37.68	33.23	42.30	39.58	33.05	31.10	31.01
10	30.61	31.18	30.71	34.10	36.76	37.64	32.33	42.28	39.51	32.33	31.12	30.88
11	30.56	30.99	30.67	34.53	36.76	37.60	31.53	42.22	39.46	31.75	31.03	30.82
12	30.54	30.86	30.68	34.61	36.70	37.56	31.79	42.15	39.47	31.51	30.91	30.78
13	30.56	30.80	30.66	34.72	36.54	37.52	33.24	42.06	39.41	31.38	30.86	30.74
14	30.57	30.74	30.66	34.87	36.36	37.47	34.94	41.97	39.36	31.29	30.89	30.71
15	30.50	30.67	30.66	35.20	36.14	37.43	35.61	41.87	39.30	31.24	30.92	30.68
16	30.53	30.63	30.66	35.46	35.91	37.39	36.02	41.78	39.22	31.20	30.93	30.66
17	30.57	30.65	30.71	35.61	35.67	37.39	36.46	41.69	39.15	31.18	30.93	30.67
18	30.56	30.60	31.01	35.75	35.67	37.36	36.83	41.70	39.06	31.19	31.06	30.81
19	30.58	30.58	30.96	35.88	36.01	37.32	37.07	41.60	38.97	31.24	31.08	30.76
20	30.72	30.60	31.01	35.96	36.25	37.27	37.26	41.51	38.88	31.25	31.00	30.79
21	30.75	30.60	32.53	36.02	36.51	37.23	37.41	41.43	38.79	31.20	30.94	30.75
22	31.01	30.67	34.16	36.07	36.82	37.20	37.65	41.35	38.70	31.15	30.94	30.72
23	30.78	30.83	33.19	36.12	37.03	37.18	38.02	41.27	38.63	31.14	30.90	30.74
24	30.62	30.60	32.44	36.17	37.18	37.14	38.14	41.17	38.58	31.15	30.86	30.93
25	30.64	30.55	31.92	36.21	37.31	37.10	38.19	41.07	38.50	31.12	30.81	31.29
26	30.58	30.60	31.60	36.23	37.39	37.03	38.22	41.07	38.38	31.15	30.76	31.07
27	30.60	30.73	32.21	36.25	37.44	36.87	38.25	40.96	38.18	31.15	30.74	30.89
28	30.73	31.26	32.35	36.27	37.47	36.74	38.94	40.84	37.95	31.15	30.71	30.79
29	30.61	31.07	32.39	36.29	---	36.63	40.52	40.74	37.69	31.14	30.71	30.75
30	30.61	30.90	32.54	36.30	---	36.39	40.96	40.64	37.38	31.12	31.04	30.81
31	30.58	---	32.72	36.31	---	36.12	---	40.53	---	31.12	30.97	---
MAX	31.01	31.31	34.16	36.31	37.47	37.80	40.96	---	40.42	37.03	31.15	31.37
MIN	30.47	30.55	30.66	32.68	35.67	36.12	31.53	---	37.38	31.12	30.71	30.66

07367630 OUACHITA RIVER AT COLUMBIA LOCK AND DAM, NEAR RIVERTON, LA

LOCATION.--Lat 32°10'00", long 92°06'45", on line between NE 1/4 and SE 1/4 sec.25, T.14 N., R.4 E., Caldwell Parish, Hydrologic Unit 08040207, near left bank on upstream end of lock wall of Columbia Lock and Dam on the Ouachita River, 1.0 mi northwest of Riverton, and 4.0 mi northwest of Columbia.

DRAINAGE AREA.--15,630 mi².

PERIOD OF RECORD.--October 1975 to September 1987. October 1987 to current year (elevations only). Gage-height records, April 1972 to December 1975, in reports of Corps of Engineers, Vicksburg District.

REVISED.--WDR LA-81-1: 1981(M).

GAGE.--Water-stage recorder, a broad-crested weir and four radial gates. Datum of gage is National Geodetic Vertical Datum of 1919. Prior to October 2, 1987, datum of gage was 23.88 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to October 1981 water-stage recorder for Ouachita River at Columbia (station 07367640) used as auxiliary gage for this station.

REMARKS.--Considerable regulation by five reservoirs in Arkansas and two reservoirs in Louisiana, combined capacity, 3,337,880 acre-ft, and a series of navigation locks and dams.

AVERAGE DISCHARGE.--12 years, 17,600 ft³/s, 12,780,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,700 ft³/s, Jan. 10, 1983, tailwater elevation, 44.82 ft; minimum daily, 452 ft³/s Oct. 24, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 72.45 ft, May 5; minimum elevation, 51.72 ft, Dec. 23, Jan. 1.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.15	52.19	52.03	51.83	61.11	62.01	55.27	69.36	69.12	55.76	52.13	52.18
2	52.22	52.19	52.02	51.99	60.99	62.23	54.92	70.65	68.91	54.98	52.20	52.22
3	52.13	52.20	52.00	52.56	60.82	62.39	54.55	71.48	68.67	54.20	52.24	52.15
4	52.21	52.20	51.98	52.99	60.60	62.52	54.20	72.20	68.43	53.44	52.23	52.20
5	52.21	52.19	51.99	53.28	60.48	62.60	53.84	72.40	68.19	52.77	52.22	52.24
6	52.21	52.13	52.04	53.51	60.31	62.65	53.50	72.27	67.96	52.07	52.17	52.25
7	52.20	52.23	52.02	53.71	60.14	62.71	53.19	72.12	67.68	51.98	52.25	52.26
8	52.24	52.08	52.01	53.87	59.86	62.75	53.14	72.16	67.40	52.02	52.33	52.19
9	52.20	52.00	52.01	54.00	59.53	62.76	52.90	72.24	67.11	51.98	52.26	52.22
10	52.23	51.98	52.02	54.58	59.14	62.73	52.68	72.25	66.84	52.02	52.28	52.19
11	52.23	51.99	52.02	55.25	58.71	62.66	52.49	72.24	66.56	52.01	52.21	52.24
12	52.23	51.99	52.00	55.69	58.26	62.54	52.58	72.19	66.29	52.19	52.19	52.20
13	52.21	51.99	52.03	56.16	57.74	62.40	53.28	72.12	65.97	52.10	52.17	52.23
14	52.19	52.01	52.01	56.60	57.21	62.24	54.59	72.01	65.57	52.18	52.22	52.19
15	52.17	51.99	52.03	57.05	56.69	62.04	55.88	71.91	65.17	52.08	52.28	52.22
16	52.13	52.01	52.02	57.51	56.16	61.82	56.95	71.79	64.76	52.14	52.21	52.22
17	52.18	51.98	52.04	57.89	55.59	61.63	58.21	71.68	64.31	52.15	52.22	52.22
18	52.15	52.00	52.06	58.30	55.13	61.33	59.84	71.60	63.85	52.14	52.29	52.22
19	52.16	52.00	52.04	58.76	55.32	61.01	61.01	71.50	63.35	52.12	52.21	52.17
20	52.13	51.95	52.05	59.16	55.93	60.64	61.80	71.31	62.82	52.19	52.19	52.19
21	52.17	51.98	52.02	59.51	57.09	60.24	62.41	71.15	62.29	52.13	52.24	52.35
22	52.15	52.02	51.80	59.84	58.47	59.78	62.95	70.99	61.73	52.18	52.25	52.16
23	52.21	51.98	51.79	60.13	59.63	59.34	63.46	70.79	61.16	52.24	52.21	52.14
24	52.20	51.98	51.84	60.41	60.47	58.84	63.81	70.59	60.61	52.15	52.21	52.19
25	52.20	52.00	51.83	60.65	61.02	58.31	64.13	70.38	59.99	52.17	52.20	52.16
26	52.15	51.98	51.83	60.84	61.41	57.78	64.40	70.25	59.33	52.20	52.26	52.23
27	52.12	51.99	51.84	60.99	61.63	57.20	64.68	70.05	58.64	52.22	52.17	52.18
28	52.16	52.02	51.88	61.09	61.77	56.64	65.04	69.86	57.97	52.22	52.20	52.20
29	52.17	52.01	51.80	61.15	---	56.43	66.78	69.72	57.28	52.16	52.20	52.19
30	52.12	52.04	51.83	61.18	---	56.02	68.02	69.52	56.52	52.24	52.21	52.24
31	52.19	---	51.85	61.17	---	55.62	---	69.32	---	52.23	52.22	---
MAX	52.24	52.23	52.06	61.18	61.77	62.76	68.02	72.40	69.12	55.76	52.33	52.35
MIN	52.12	51.95	51.79	51.83	55.13	55.62	52.49	69.32	56.52	51.98	52.13	52.14

RED RIVER BASIN

07367640 OUACHITA RIVER AT COLUMBIA, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°06'28", long 92°04'27", NE 1/4 SE 1/4 sec. 17, T. 13 N., R. 4 E., Caldwell Parish, Hydrologic Unit 08040207 on downstream side of bridge on U.S. Highway 165 at Columbia, 2.1 mi downstream from Bayou de Chene, and 4.2 mi downstream from Columbia Lock and Dam (station 07367630).

DRAINAGE AREA.--15,700 mi², approximately.

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: October 1975 to September 1981.

INSTRUMENTATION.--Water-quality monitor October 1975 to April 1981.

REMARKS.--Water-quality monitor removed April 1981. Samples for daily temperature and specific conductance were collected by an observer May to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 618 micromhos Oct. 3, 1977; minimum daily, 69 micromhos Mar. 4, 1975.

WATER TEMPERATURES: Maximum daily, 34.0 °C on several days in July and August 1981; minimum, 2.5 °C Jan. 15, 1979.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

A specific conductance of 59 microsiemens was observed Mar. 9, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
		HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT 1990											
26...	0900	13000	140	6.27	17.0	40	11	8.2	1.2	K40	K64
DEC											
05...	1400	7900	182	7.17	15.0	40	8.5	9.4	1.5	240	K70
FEB 1991											
21...	0930	54200	93	6.47	11.0	50	24	9.0	2.3	420	1300
APR											
12...	0800	38600	111	6.71	20.0	80	16	5.8	1.5	K1300	1100
JUL											
31...	1545	6520	163	6.62	30.0	50	6.1	4.4	2.6	K2	K12
AUG											
22...	1100	5260	233	7.18	30.5	30	10	5.1	1.0	K28	K10

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 1990											
26...	28	8.0	2.0	14	2.2	16	--	22	<0.1	6.4	87
DEC											
05...	32	9.2	2.1	20	2.5	23	16	29	<0.1	6.8	107
FEB 1991											
21...	18	5.0	1.3	8.7	1.4	11	8.4	14	<0.1	7.0	53
APR											
12...	21	5.9	1.6	12	1.5	15	8.1	17	<0.1	6.5	74
JUL											
31...	29	8.2	2.0	19	2.3	26	14	24	<0.1	7.3	95
AUG											
22...	36	10	2.6	28	2.2	26	24	37	0.1	7.3	127

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 1990											
26...	86	<0.01	0.20	0.07	0.06	0.5	--	0.03	0.02	0.02	0.01
DEC 05...	99	<0.01	0.20	0.16	0.10	0.5	--	0.07	0.04	0.05	0.03
FEB 1991											
21...	53	<0.01	0.08	0.03	0.03	0.5	--	0.07	0.02	0.01	<0.01
APR 12...	61	<0.01	0.10	0.07	0.06	0.7	--	0.09	0.03	0.03	0.02
JUL 31...	93	0.03	0.18	0.24	0.24	1.0	0.7	0.07	0.03	0.02	<0.01
AUG 22...	129	0.01	0.53	0.05	0.05	0.5	0.4	0.07	0.03	0.02	<0.01

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)
OCT 1990										
26...	210	<1	44	<0.5	<1	<1	<3	3	190	1
FEB 1991										
21...	70	<1	30	<0.5	1	<1	<3	3	190	2
APR 12...	110	<1	41	<0.5	<1	<1	<3	1	450	1
AUG 22...	60	1	57	<0.5	<1	<1	<3	3	280	3

DATE	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)
OCT 1990										
26...	<4	94	<0.1	<10	3	<1	<1	94	<6	19
FEB 1991										
21...	<4	41	<0.1	<10	2	<1	<1	69	<6	8
APR 12...	<4	77	<0.1	<10	2	<1	<1	98	<6	8
AUG 22...	<4	280	<0.1	<10	4	<1	<1	170	<6	6

DATE	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (µG/L)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	URANIUM NATURAL 2 SIGMA WATER, DISS, (µG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L)
OCT 1990								
26...	0.7	<0.6	0.7	0.8	<1	0.02	0.5	0.5
APR 1991								
12...	0.4	<0.6	0.6	0.8	<1	0.01	0.3	0.5

< Actual value is known to be less than the value shown.

RED RIVER BASIN

07367640 OUACHITA RIVER AT COLUMBIA, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
OCT 1990 26...	0.8	0.6	2.6	<0.6	2.2	<0.6	0.09	0.10
APR 1991 12...	<0.6	<0.6	2.0	<0.6	1.8	<0.6	0.05	0.07

DATE	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 26...	20	702	96
DEC 05...	20	427	74
FEB 1991 21...	49	7170	84
APR 12...	--	--	--
JUL 31...	17	299	99
AUG 22...	15	213	99

< Actual value is known to be less than the value shown.

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 32°58'25", long 91°26'25", in NE 1/4 NE 1/4 sec.21, T.23 N., R.10 E., Morehouse - West Carroll Parish line, Hydrologic Unit 08050001, near left bank on downstream side of bridge on State Highway 835, 2.0 mi downstream from Arkansas - Louisiana State line, and 7.5 mi southwest of Kilbourne.

DRAINAGE AREA.--785 mi² (see REMARKS).

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to September 1973 (annual maximum gage heights and daily discharges below 200 ft³/s only). October 1973 to September 1979 (daily gage heights and daily discharges below 200 ft³/s only). October 1979 to January 1986 (gage heights only). February 1986 to current year (daily gage heights and daily discharges below 3,800 ft³/s only).

GAGE.--Water-stage recorder. Datum of gage is 72.11 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Dec. 31, 1957, nonrecording gage, Dec. 31, 1957 to Oct. 1, 1961, water-stage recorder on left bank 300 ft upstream. Prior to Oct. 1, 1978, datum 2.00 ft higher. May 4, 1959 to Dec. 4, 1962, auxiliary nonrecording gage and Dec. 5, 1962 to Apr. 6, 1969, auxiliary water-stage recorder 1.7 mi downstream from base gage at datum 74.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Records fair between 200 and 3,000 ft³/s. No gage height recorded below 2.54 ft. Diversions above and below station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. In extreme floods, considerable flow bypasses station. Flow re-enters and passes stations Bayou Lafourche near Crew Lake (station 07369000) and Boeuf River near Girard (station 07368000).

AVERAGE DISCHARGE.--11 years (water years 1958-68), 952 ft³/s, 689,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s, Feb. 11, 1966; maximum gage height, 26.39 ft, present datum, May 5, 1991; no flow at times in 1966, 1974, 1977, 1978, and 1987-91 result of pumping for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 15, 1948, reached a stage of 24.8 ft present datum (from records of Corps of Engineers, Vicksburg District).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.39 ft, May 5; minimum gage height, 2.78 ft, July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	457		59		627		615	14	.00	261
2	.00	.00	204	2960	73		280		340	.00	.00	677
3	.00	.00	977	1730	58		141		194	.00	18	846
4	80	.00	1900	1160	46		72		107	.00	63	559
5	1010	.00	827	837	2600	3290	381		77	.00	87	403
6	686	.00	375	645		1460	442		56	.00	231	291
7	257	23	191	742		1080	349		478	.07	233	226
8	522	48	108	2290	1540	831	3390		236	2.8	81	139
9	2060	849	59	1970	741	680			10	.74	40	73
10	1750		27		450	565	2690		.00	.00	169	66
11	942		9.3		278	360	1050		.00	.00	517	133
12	492	1820	12		178	269	3440		.00	.00	758	95
13	218	669	.00	2240	163	204			36	.00	343	36
14	73	253	.00	1060	126	129			38	.00	177	21
15	21	84	.00	1290	83	58			.00	.00	65	7.4
16	.32	2.5	.00	2070	49	51			.00	.00	23	.29
17	.00	.02	130	1290	48	48		2770	.00	.00	31	4.2
18	.00	.00		750		e45		1170	.00	.00	70	16
19	.00	.00		557		e42		3080	.00	1.8	132	37
20	.00	.01		456		e40		1470	.00	507	72	85
21	.01	.00		359		e39		1080	.00	426	54	91
22	213	.00		278		e44	1960	776	.00	218	137	106
23	740	.00		213		e61	1760	553	.00	91	282	104
24	725	.00		163		e57	1070	444	6.1	5.6	372	146
25	328	.00		124		e51	728	2250	9.6	76	318	406
26	94	.00	1850	108		46	621		22	263	219	531
27	12	.00		96		40	1600		7.7	352	118	454
28	.00	554		88		57			.37	368	152	322
29	.00	1820		72		1420		1570	12	222	271	276
30	.00	1070		69	---	2470		1430	96	110	180	142
31	.00	---		58	---	1530	---	893	---	2.1	205	---
TOTAL	10223.33	---	---	---	---	---	---	---	2340.77	2660.11	5418.00	6553.89
MEAN	330	---	---	---	---	---	---	---	78.0	85.8	175	218
MAX	2060	---	---	---	---	---	---	---	615	507	758	846
MIN	.00	---	---	---	---	---	---	---	.00	.00	.00	.29
CFSM	.42	---	---	---	---	---	---	---	.10	.11	.22	.28
IN.	.48	---	---	---	---	---	---	---	.11	.13	.26	.31

e Estimated.

RED RIVER BASIN

07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.08	4.20	5.99	13.89	5.30	19.34	6.15	25.98	6.22	5.17	4.88	5.70
2	5.04	4.11	5.62	9.12	5.34	19.55	5.65	26.04	5.82	4.65	4.99	6.30
3	4.98	4.09	6.66	7.66	5.30	17.71	5.44	26.09	5.60	4.26	5.23	6.54
4	5.27	3.88	7.87	6.96	5.25	14.92	5.32	26.21	5.47	4.97	5.38	6.14
5	6.75	3.91	6.51	6.53	8.69	9.47	5.79	26.30	5.41	4.83	5.42	5.91
6	6.32	3.61	5.87	6.27	13.27	7.27	5.88	26.31	5.36	4.77	5.66	5.75
7	5.70	4.94	5.60	6.40	10.12	6.78	5.75	26.10	6.02	5.10	5.66	5.65
8	6.07	5.33	5.47	8.36	7.39	6.44	9.56	25.75	5.66	5.18	5.42	5.52
9	8.07	6.44	5.37	7.96	6.33	6.24	11.68	25.31	5.18	5.14	5.30	5.41
10	7.69	10.71	5.27	10.25	5.91	6.07	8.80	24.77	5.05	4.93	5.56	5.39
11	6.67	10.43	5.20	15.84	5.66	5.76	6.74	24.09	4.94	4.83	6.08	5.51
12	6.04	7.77	5.20	13.57	5.51	5.63	9.59	23.02	5.06	4.62	6.42	5.44
13	5.64	6.29	5.08	8.27	5.49	5.54	20.29	21.63	5.22	4.35	5.82	5.29
14	5.39	5.69	5.05	6.75	5.43	5.42	22.85	19.98	5.29	4.20	5.58	5.25
15	5.25	5.40	5.01	7.05	5.36	5.29	24.11	16.97	5.04	3.91	5.38	5.18
16	5.13	5.16	5.01	8.06	5.26	5.26	24.48	12.10	4.89	3.71	5.25	5.12
17	5.02	5.11	5.32	7.06	5.25	5.25	24.34	8.90	4.84	3.63	5.28	5.12
18	4.95	5.02	10.17	6.34	13.38	---	23.99	6.89	4.83	3.23	5.40	5.10
19	4.85	5.01	14.98	6.07	23.59	---	23.35	9.24	4.80	3.42	5.51	5.10
20	4.76	5.11	15.09	5.91	25.10	---	21.04	7.28	4.41	6.07	5.40	5.18
21	4.79	5.06	18.23	5.77	25.48	---	14.76	6.78	4.17	5.94	5.35	5.18
22	5.60	5.00	22.49	5.66	25.60	---	7.91	6.37	4.52	5.64	5.52	5.21
23	6.39	5.02	23.10	5.56	25.61	---	7.66	6.05	4.65	5.42	5.73	5.20
24	6.37	5.07	21.68	5.49	25.48	---	6.76	5.88	4.91	5.18	5.86	5.27
25	5.80	5.05	15.95	5.42	25.19	5.25	6.30	8.26	5.21	5.39	5.78	5.65
26	5.43	5.02	7.82	5.40	24.66	5.24	6.15	19.50	5.25	5.71	5.64	5.84
27	5.21	4.96	11.54	5.38	23.70	5.22	7.45	19.11	5.20	5.83	5.48	5.72
28	5.04	6.10	18.90	5.37	21.65	5.28	20.32	12.83	5.07	5.86	5.54	5.53
29	4.87	7.78	18.08	5.33	---	7.19	25.00	7.47	5.10	5.65	5.72	5.46
30	4.81	6.83	13.99	5.33	---	8.55	25.75	7.29	5.44	5.47	5.58	5.26
31	4.63	---	16.18	5.30	---	7.36	---	6.60	---	5.12	5.62	---
MAX	8.07	10.71	23.10	15.84	25.61	---	25.75	26.31	6.22	6.07	6.42	6.54
MIN	4.63	3.61	5.01	5.30	5.25	---	5.32	5.88	4.17	3.23	4.88	5.10

RED RIVER BASIN

123

07368000 BOEUF RIVER NEAR GIRARD, LA

LOCATION.--Lat 32°28'52", long 91°47'52", on line between sec.1, T.17 N., R.6 E., and sec.6., T.17 N., R.7 E., Richland Parish, Hydrologic Unit 08050001, on downstream side of bridge on U.S. Highway 80, and 0.5 mi east of Girard.

DRAINAGE AREA.--1,226 mi² (see REMARKS).

PERIOD OF RECORD.--October 1938 to current year. Daily gage heights as follows: 1886-94 in reports of National Weather Service; September 1925 to December 1931 in files of Corps of Engineers, Vicksburg District; since January 1932 in reports of Corps of Engineers, Vicksburg District.

GAGE.--Water-stage recorder. Datum of gage is 49.42 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Nov. 3, 1955, nonrecording gage at sites within 200 ft upstream. Prior to Oct. 1, 1966, at datum 2.20 ft higher. Water-stage recorder for Boeuf River southwest of Rayville (station 07368040) used as auxiliary gage for this station. Nov. 20, 1962, to Sept. 30, 1974, at datum 0.60 ft lower. See WSP 2120 for changes prior to Nov. 20, 1962.

REMARKS.--Estimated daily discharges. Indefinite stage-discharge relationship: Nov. 24-26. Records fair, except those for periods of no base gage heights, which are poor. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou Lafourche basins are connected by canal upstream. In extreme floods, considerable flow from Bayou Bartholomew basin passes this station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--53 years, 325 ft³/s, 235,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,070 ft³/s, May 2, 1958; maximum gage height, 21.51 ft, May 6, 1958, present datum; minimum discharge, 1.4 ft³/s, Aug. 3, 4, 1986; minimum gage height, 2.61 ft, June 25, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 7, 1927, reached a stage of 31.7 ft, present site and datum, (affected by overflow from Mississippi River).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,270 ft³/s, May 5, gage height, 20.09 ft; minimum daily discharge, 7.4 ft³/s, Nov. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.8	82	547	17	1190	135	2220	e270	27	42	28
2	11	8.8	62	500	17	1190	90	2180	e220	25	33	26
3	10	8.1	60	417	16	1100	65	2110	e190	53	28	25
4	10	8.2	50	316	15	968	48	2200	e170	99	25	25
5	9.9	11	59	219	29	783	35	2250	e230	96	24	26
6	9.9	9.7	58	146	45	550	25	2240	e240	71	22	25
7	10	9.3	49	99	126	333	23	2190	e220	64	21	26
8	10	8.8	39	71	202	192	111	2170	e190	54	19	25
9	9.9	33	31	55	163	117	124	2140	e170	45	19	27
10	11	53	27	119	105	79	175	2100	e150	37	61	29
11	11	117	25	237	67	60	174	2060	135	31	119	28
12	14	160	23	380	46	52	149	2000	116	29	68	26
13	19	150	21	419	32	46	372	1950	102	29	56	25
14	20	110	20	331	24	40	796	1880	93	28	46	24
15	18	72	19	228	18	36	1270	1800	83	21	37	23
16	15	47	19	177	16	32	1420	1630	75	19	31	23
17	14	31	22	150	15	34	1430	1340	65	19	27	23
18	12	23	25	118	53	32	1390	985	59	22	25	23
19	10	16	29	92	299	30	1370	696	51	23	24	23
20	9.0	12	60	76	792	29	1300	526	45	26	23	23
21	11	11	224	63	1070	27	1210	442	40	25	22	23
22	14	9.2	757	51	1210	26	1060	344	49	23	22	24
23	20	8.9	1010	40	1240	27	958	278	53	24	33	24
24	41	e8.2	1110	34	1230	28	669	247	35	20	39	69
25	38	e7.8	1090	29	1210	27	407	319	33	20	33	188
26	30	e7.6	974	28	1210	24	242	501	38	30	29	160
27	23	7.4	757	28	1190	22	150	591	35	39	26	137
28	18	30	619	25	1170	28	438	685	41	42	25	112
29	15	75	623	22	---	167	1570	672	41	61	25	82
30	13	101	649	20	---	242	2180	492	30	102	25	64
31	11	---	608	18	---	200	---	344	---	58	28	---
TOTAL	478.7	1163.8	9201	5055	11627	7711	19386	41582	3269	1262	1057	1386
MEAN	15.4	38.8	297	163	415	249	646	1341	109	40.7	34.1	46.2
MAX	41	160	1110	547	1240	1190	2180	2250	270	102	119	188
MIN	9.0	7.4	19	18	15	22	23	247	30	19	19	23
AC-FT	950	2310	18250	10030	23060	15290	38450	82480	6480	2500	2100	2750
CAL YR 1990	TOTAL 66459.5		MEAN 182		MAX 1550		MIN 6.4		AC-FT 131800			
WTR YR 1991	TOTAL 103178.5		MEAN 283		MAX 2250		MIN 7.4		AC-FT 204700			

e Estimated.

RED RIVER BASIN

07368000 BOEUF RIVER NEAR GIRARD, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.17	4.11	5.45	10.00	4.34	13.95	6.38	19.70	---	4.46	4.74	4.48
2	4.15	4.07	5.14	9.66	4.32	13.97	5.71	19.49	---	4.42	4.59	4.45
3	4.13	4.04	5.11	9.17	4.30	13.56	5.26	19.34	---	4.84	4.49	4.42
4	4.13	4.05	4.94	8.35	4.29	12.86	4.94	19.92	---	5.79	4.43	4.43
5	4.12	4.16	5.07	7.44	4.60	11.84	4.70	20.04	---	5.96	4.39	4.44
6	4.12	4.11	5.06	6.56	4.91	10.41	4.53	19.96	---	5.53	4.36	4.42
7	4.12	4.09	4.93	5.87	6.03	8.74	4.53	19.77	---	5.29	4.33	4.44
8	4.12	4.07	4.77	5.37	6.96	7.32	6.16	19.81	---	5.01	4.29	4.42
9	4.12	4.66	4.64	5.06	6.62	6.26	6.22	19.81	---	4.81	4.26	4.46
10	4.14	5.02	4.56	6.31	5.88	5.56	6.73	19.73	9.28	4.66	4.94	4.51
11	4.17	5.84	4.52	7.70	5.27	5.18	6.75	19.59	9.26	4.56	5.96	4.49
12	4.26	6.36	4.47	8.74	4.89	5.00	6.91	19.43	8.95	4.51	5.19	4.45
13	4.40	6.29	4.43	9.05	4.65	4.88	9.68	19.26	8.57	4.51	4.97	4.42
14	4.43	5.81	4.41	8.42	4.49	4.78	12.71	19.05	8.21	4.49	4.81	4.40
15	4.37	5.31	4.39	7.59	4.37	4.71	14.92	18.76	7.84	4.33	4.65	4.38
16	4.31	4.95	4.40	6.99	4.31	4.67	15.40	18.26	7.48	4.28	4.55	4.37
17	4.25	4.68	4.45	6.57	4.29	4.69	15.38	17.36	7.08	4.27	4.48	4.37
18	4.19	4.50	4.51	6.13	5.05	4.66	15.35	16.31	6.65	4.35	4.43	4.37
19	4.12	4.33	4.60	5.76	8.21	4.63	15.22	15.12	6.25	4.37	4.40	4.37
20	4.08	4.20	5.08	5.46	11.56	4.59	14.82	14.38	5.79	4.44	4.38	4.38
21	4.14	4.15	7.07	5.20	13.16	4.56	14.32	14.01	5.33	4.42	4.36	4.38
22	4.28	4.09	11.89	4.97	13.94	4.54	13.77	13.56	5.13	4.38	4.35	4.39
23	4.43	4.08	13.04	4.79	14.13	4.56	13.45	13.17	5.07	4.39	4.58	4.40
24	4.84	4.05	13.50	4.69	14.08	4.59	11.85	12.92	4.67	4.31	4.69	5.25
25	4.81	4.15	13.41	4.59	14.00	4.56	10.12	13.47	4.59	4.31	4.60	7.19
26	4.65	4.46	12.82	4.58	13.95	4.50	8.65	14.17	4.68	4.52	4.52	6.85
27	4.51	4.58	11.82	4.58	13.87	4.45	7.58	14.06	4.63	4.69	4.45	6.98
28	4.37	5.06	10.90	4.53	13.78	4.58	9.89	14.25	4.72	4.75	4.43	6.52
29	4.28	5.50	10.68	4.46	---	6.77	17.74	14.09	4.72	5.05	4.42	5.93
30	4.21	5.70	10.73	4.41	---	7.54	19.52	13.31	4.53	5.89	4.43	5.45
31	4.17	---	10.44	4.37	---	7.17	---	12.56	---	5.05	4.48	---
MAX	4.84	6.36	13.50	10.00	14.13	13.97	19.52	20.04	---	5.96	5.96	7.19
MIN	4.08	4.04	4.39	4.37	4.29	4.45	4.53	12.56	---	4.27	4.26	4.37

07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA

LOCATION.--Lat 32°29'55", long 91°55'05", in NW 1/4 SW 1/4 sec.36, T.18 N., R.5 E., Ouachita - Richland Parish line, Hydrologic Unit 08050001, near center of span on downstream side of bridge on U.S. Highway 80, 1.1 mi upstream from Illinois Central Gulf Railroad bridge, and 2.5 mi west of town of Crew Lake.

DRAINAGE AREA.--361 mi² (see REMARKS).

PERIOD OF RECORD.--October 1938 to current year. Prior to December 1938 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 37.08 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 10, 1944, nonrecording gage, Aug. 10, 1944, to June 5, 1952, water-stage recorder, and June 6 to September 30, 1952, nonrecording gage, all at same site at datum 19.00 ft higher. Water-stage recorder for Bayou Lafourche near Alto (station 07369050) used as auxiliary gage for this station since Oct. 1, 1957.

REMARKS.--Estimated daily discharges. Records fair, except for periods of indefinite stage-discharge relationship at times during the year, which are poor. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou Lafourche basins are connected by canal upstream. In extreme floods, considerable flow from the Bayou Bartholomew basin passes this station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--53 years, 1,840 ft³/s, 1,329,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,100 ft³/s, May 5, 1991; maximum gage height, 30.34 ft, May 9, 1991. Maximum daily reverse flow 210 ft³/s, Apr. 27, 1989; no flow at times in August, September, October 1952, and June 1984, result of pumping for irrigation. No flow Mar. 17, 1989, backwater from Ouachita River.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 17,000 ft³/s was measured Dec. 24, 1931 (from reports of Corps of Engineers, Vicksburg District).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,100 ft³/s, May 5, gage height, 30.27 ft; maximum gage height, 30.34, May 9; minimum daily discharge, 35 ft³/s, Nov. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	45	1160	10200	e250	15100	e1500	28700	e3000	e300	680	897
2	56	41	547	7730	e220	15300	e1000	29200	e2500	e260	388	947
3	51	35	993	5510	e200	14200	e700	29200	e2100	e230	189	2420
4	62	35	2180	4110	e320	12700	e460	30900	e1700	e240	134	2240
5	222	70	1960	1840	941	10600	e300	31400	e1450	e1800	135	1470
6	860	65	1020	e1500	6590	6510	e360	31400	e1300	e1700	126	928
7	622	49	514	e1100	6930	e3000	e330	30200	e1150	e1400	223	901
8	376	63	317	1310	3650	e2100	4410	29700	e1050	e1200	598	633
9	1010	940	228	2560	e2600	e1600	8160	29000	e950	e1000	476	445
10	2150	4660	166	4940	e1500	e1200	6290	28700	e820	e800	1270	357
11	1720	5640	124	9900	e800	e980	3330	28200	e740	e600	2480	385
12	930	4210	108	9780	e590	e860	e3000	27800	e660	514	1920	428
13	479	2330	105	6820	e560	e660	10600	26900	e600	324	1210	333
14	253	1060	84	2850	e520	e540	14400	25700	e560	238	719	255
15	154	436	70	2080	e480	e460	16500	23900	e520	196	370	236
16	111	217	79	3540	e450	e420	17200	21400	e480	148	245	195
17	82	132	78	2370	e430	e590	17100	18200	e450	126	194	167
18	67	93	931	e1500	2610	e560	16800	15200	e420	136	212	150
19	49	72	4910	e1000	13600	e370	16500	12100	e380	172	257	197
20	39	62	7250	e1500	16300	e320	16300	10300	e350	528	269	216
21	71	73	8690	e1400	17000	e300	15300	e9500	e320	851	269	202
22	453	71	14800	e1100	17100	e280	12700	e8400	e300	835	741	155
23	801	81	16100	e900	16900	e280	11400	e6400	e1000	734	875	142
24	1020	70	16100	e700	16500	e440	8940	e5400	e1100	389	702	373
25	728	66	15000	e450	16000	e450	5310	e5000	e1000	197	555	2360
26	363	65	12000	e740	15700	e400	e4000	6670	e900	218	476	1480
27	184	62	9370	e800	15500	e350	e3000	8690	e760	368	435	1090
28	116	553	11900	e740	15200	e320	10800	8910	e540	937	380	719
29	75	1380	12400	e450	---	1640	20300	7080	e440	1250	479	483
30	58	1940	11500	e370	---	2760	26600	e5900	e340	1220	584	277
31	48	---	10800	e300	---	2330	---	e4000	---	956	1070	---
TOTAL	13274	24616	161484	90090	189441	97620	273590	584050	27880	19867	18661	21081
MEAN	428	821	5209	2906	6766	3149	9120	18840	929	641	602	703
MAX	2150	5640	16100	10200	17100	15300	26600	31400	3000	1800	2480	2420
MIN	39	35	70	300	200	280	300	4000	300	126	126	142
AC-FT	26330	48830	320300	178700	375800	193600	542700	1158000	55300	39410	37010	41810
CAL YR 1990	TOTAL 1133537		MEAN 3106		MAX 18800		MIN 35		AC-FT 2248000			
WTR YR 1991	TOTAL 1521654		MEAN 4169		MAX 31400		MIN 35		AC-FT 3018000			

e Estimated.

07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.10	.92	4.66	22.47	14.87	25.96	11.09	29.08	26.08	10.98	3.50	4.06
2	1.03	.88	3.13	20.53	14.73	26.09	10.03	29.37	25.67	10.19	2.65	4.17
3	.98	.82	4.21	18.26	14.54	25.90	9.32	29.59	25.28	9.54	1.94	7.29
4	1.08	.81	6.83	16.46	14.29	25.49	8.72	30.00	24.92	10.99	1.67	7.07
5	1.86	1.15	6.59	13.67	15.10	24.78	8.19	30.19	24.57	13.68	1.68	5.36
6	3.96	1.10	4.32	12.33	18.77	23.15	7.90	30.27	24.30	11.36	1.62	4.13
7	3.34	.96	3.03	11.71	20.19	20.82	7.63	30.25	24.00	9.50	2.04	4.07
8	2.59	1.08	2.43	11.72	17.96	18.81	13.97	30.29	23.70	8.01	3.28	3.37
9	4.23	3.82	2.11	12.46	15.30	17.44	18.51	30.31	23.34	6.64	2.92	2.83
10	6.80	11.37	1.84	15.90	14.21	16.70	16.91	30.29	22.99	5.31	4.83	2.56
11	5.88	13.52	1.61	21.61	13.48	16.25	13.21	30.27	22.68	4.08	7.47	2.65
12	4.13	11.90	1.52	21.91	12.93	15.90	12.66	30.23	22.39	3.03	6.42	2.78
13	2.92	8.50	1.50	19.74	12.43	15.42	22.33	30.16	22.06	2.45	4.78	2.48
14	2.15	4.66	1.35	16.02	11.70	15.02	25.06	30.06	21.67	2.15	3.60	2.21
15	1.71	2.80	1.25	15.25	11.04	14.67	26.07	29.91	21.23	1.98	2.59	2.14
16	1.45	2.06	1.32	16.19	10.49	14.38	26.42	29.69	20.77	1.75	2.17	1.97
17	1.25	1.66	1.31	15.45	9.96	14.24	26.55	29.37	20.27	1.65	1.97	1.85
18	1.13	1.42	3.77	14.59	11.66	13.81	26.68	29.04	19.73	1.68	2.05	1.76
19	.96	1.27	11.78	14.63	22.94	13.45	26.73	28.66	19.16	1.87	2.22	1.98
20	.86	1.19	15.51	14.50	25.14	13.13	26.70	28.37	18.48	3.06	2.26	2.06
21	1.09	1.28	17.91	14.37	25.63	12.74	26.52	28.08	17.80	3.94	2.25	2.01
22	2.83	1.26	24.21	14.43	25.93	12.45	26.06	27.77	17.13	3.90	3.65	1.79
23	3.82	1.34	25.24	14.50	26.07	11.84	25.80	27.44	16.53	3.64	4.00	1.72
24	4.36	1.25	25.46	14.60	26.06	11.32	24.98	27.14	15.93	2.65	3.57	2.43
25	3.62	1.22	25.23	14.78	26.01	10.85	23.47	26.94	15.35	1.97	3.15	8.05
26	2.54	1.21	24.28	14.88	25.97	10.41	21.67	27.21	14.65	2.06	2.92	6.52
27	1.86	1.18	22.97	14.99	25.94	9.89	21.01	27.41	13.84	2.59	2.80	4.71
28	1.48	3.03	23.73	14.99	25.89	9.35	23.96	27.43	13.15	4.11	2.63	3.61
29	1.19	5.15	23.97	15.05	---	11.80	27.27	27.21	12.48	4.88	2.93	2.94
30	1.04	6.40	23.60	14.98	---	12.95	28.52	26.86	11.73	4.81	3.24	2.29
31	.95	---	23.03	14.94	---	12.51	---	26.49	---	4.20	4.47	---
MAX	6.80	13.52	25.46	22.47	26.07	26.09	28.52	30.31	26.08	13.68	7.47	8.05
MIN	.86	.81	1.25	11.71	9.96	9.35	7.63	26.49	11.73	1.65	1.62	1.72

07369500 TENSAS RIVER AT TENDAL, LA
(National stream-quality accounting network station)

LOCATION.--Lat 32°25'55", long 91°22'00", in NW 1/4 sec.29, T.17 N., R.11 E., Madison Parish, Hydrologic Unit 08050003, near right bank on upstream side of bridge on U.S. Highway 80 at Tendal, 200 ft upstream from Illinois Central Gulf Railroad bridge, and 2.8 mi east of Waverly.

DRAINAGE AREA.--309 mi² (see REMARKS).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1935 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 50.07 ft above National Geodetic Vertical Datum of 1929. Prior to July 11, 1944, nonrecording gage at site 1,000 ft upstream at same datum. July 11, 1944, to Sept. 14, 1954, nonrecording gage at same site and datum. Water-stage recorder for Tensas River southeast of Tendal (07369515) used as auxiliary gage for this station since Oct. 1, 1957. See WSP 1711 and 1731 for history of changes prior to Oct. 1, 1957.

REMARKS.--Estimated daily discharges. Records fair. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--55 years (water years 1936-91), 352 ft³/s, 255,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,610 ft³/s, Nov. 19, 1948; maximum gage height, 27.21 ft, May 5, 1991; minimum discharge, 1.7 ft³/s, Oct. 5, 1981, but may have been less during period of indefinite stage-discharge relation in October 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 15, 1927 (affected by overflow from Mississippi River) reached a stage of 34.02 ft and is the highest since then.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,800 ft³/s, May 4, gage height, 27.19 ft; maximum gage height, 27.21 ft, May 5; minimum discharge, 11 ft³/s, Nov. 4, gage height, 5.15 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	498	818	61	1500	924	3520	475	153	63	44
2	14	13	389	1130	49	2110	767	3580	402	127	46	40
3	13	12	535	1270	39	2110	647	3600	346	106	37	38
4	14	12	529	1280	33	1970	562	3630	313	155	33	39
5	16	14	421	1070	618	1700	502	3560	289	834	31	39
6	18	13	314	857	1430	1430	450	3540	284	916	30	35
7	17	14	228	929	1360	1190	390	3530	252	622	29	29
8	17	14	169	839	1060	e1010	378	3510	187	438	27	24
9	17	31	127	730	827	e910	397	3480	134	327	28	25
10	18	341	98	1010	678	e789	358	3450	94	211	31	58
11	20	586	79	1410	569	e639	306	3400	71	128	35	62
12	20	531	65	1290	489	e563	377	3340	63	79	51	50
13	19	441	56	1030	434	466	1450	3240	60	54	52	39
14	18	355	48	808	387	416	e2000	3130	58	42	42	30
15	18	284	44	722	311	362	2500	2990	57	39	34	24
16	17	229	43	732	246	288	2380	2850	64	40	29	20
17	15	186	42	651	201	233	2310	2720	69	39	26	18
18	14	147	58	563	439	191	2320	2570	66	36	25	17
19	13	108	125	565	2000	145	2290	2360	88	38	24	16
20	12	73	256	527	2250	99	2220	2110	90	203	23	16
21	16	52	887	455	2110	67	2120	1820	78	253	27	15
22	46	43	e1160	386	1880	49	2050	1510	76	176	28	15
23	113	40	e1080	333	1830	45	2190	1220	76	117	27	15
24	102	37	e1000	270	1830	38	2070	949	82	79	27	26
25	72	35	e940	237	1630	31	1880	735	117	56	25	71
26	46	34	e1010	191	1380	27	1650	582	177	49	24	144
27	31	34	e1040	142	e1210	25	1390	465	201	57	24	157
28	23	369	e1070	106	e1120	27	1880	399	204	274	32	128
29	19	811	e1050	83	---	604	3380	395	192	245	44	86
30	16	686	e1030	78	---	1230	3440	548	172	153	52	49
31	14	---	e986	73	---	1120	---	585	---	94	49	---
TOTAL	824	5558	15377	20585	26471	21384	45578	73318	4837	6140	1055	1369
MEAN	26.6	185	496	664	945	690	1519	2365	161	198	34.0	45.6
MAX	113	811	1160	1410	2250	2110	3440	3630	475	916	63	157
MIN	12	12	42	73	33	25	306	395	57	36	23	15
AC-FT	1630	11020	30500	40830	52510	42420	90400	145400	9590	12180	2090	2720

CAL YR 1990 TOTAL 154231 MEAN 423 MAX 2960 MIN 12 AC-FT 305900
WTR YR 1991 TOTAL 222496 MEAN 610 MAX 3630 MIN 12 AC-FT 441300

e Estimated.

07369500 TENSAS RIVER AT TENDAL, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.23	5.19	10.17	17.15	6.13	18.38	13.87	26.47	12.82	7.03	6.04	5.78
2	5.21	5.18	8.75	17.08	5.97	20.75	12.85	26.61	11.91	6.75	5.82	5.72
3	5.19	5.17	9.97	17.26	5.82	21.01	11.86	26.75	10.99	6.51	5.68	5.69
4	5.20	5.17	10.03	17.21	5.72	20.67	10.98	27.14	10.11	7.00	5.61	5.71
5	5.23	5.20	9.01	16.30	10.21	19.84	10.21	27.17	9.32	11.83	5.58	5.72
6	5.27	5.19	8.09	15.31	15.80	18.76	9.57	27.17	8.65	13.04	5.57	5.65
7	5.26	5.20	7.37	15.98	16.17	17.62	9.07	27.06	7.96	11.66	5.55	5.55
8	5.26	5.20	6.83	15.69	15.08	---	8.99	27.11	7.35	9.99	5.52	5.46
9	5.26	5.49	6.40	15.07	13.81	---	9.13	27.05	6.83	8.60	5.54	5.48
10	5.28	8.58	6.07	15.97	12.62	---	8.84	26.88	6.37	7.57	5.58	5.99
11	5.31	10.41	5.82	17.93	11.52	---	8.44	26.68	6.06	6.76	5.64	6.04
12	5.32	10.03	5.63	17.81	10.55	---	8.89	26.42	5.96	6.17	5.88	5.87
13	5.29	9.19	5.51	16.83	9.77	10.80	15.10	26.08	5.92	5.83	5.89	5.70
14	5.28	8.43	5.41	15.72	9.15	9.88	---	25.69	5.88	5.66	5.75	5.57
15	5.28	7.85	5.34	15.02	8.56	9.02	22.45	25.26	5.87	5.62	5.63	5.47
16	5.25	7.39	5.33	14.68	8.05	8.29	22.72	24.81	5.98	5.63	5.56	5.41
17	5.22	6.99	5.31	13.86	7.67	7.84	22.69	24.34	6.05	5.61	5.51	5.37
18	5.20	6.61	5.54	12.87	9.15	7.46	22.96	23.83	6.00	5.57	5.48	5.35
19	5.18	6.18	6.37	12.33	17.90	7.01	23.01	23.18	6.28	5.61	5.46	5.33
20	5.17	5.75	7.59	11.72	20.06	6.49	22.77	22.37	6.31	7.46	5.46	5.33
21	5.24	5.46	12.30	10.77	20.44	6.08	22.32	21.40	6.16	7.94	5.52	5.32
22	5.70	5.33	---	9.75	20.56	5.83	21.92	20.29	6.13	7.25	5.54	5.31
23	6.59	5.28	---	8.87	20.59	5.77	22.29	19.13	6.13	6.63	5.52	5.31
24	6.46	5.24	---	8.24	20.46	5.68	21.88	17.93	6.21	6.17	5.52	5.49
25	6.08	5.21	---	7.98	19.78	5.57	21.17	16.80	6.63	5.86	5.49	6.15
26	5.72	5.20	---	7.58	18.89	5.50	20.25	15.87	7.26	5.77	5.47	6.99
27	5.50	5.20	---	7.11	---	5.47	19.22	15.01	7.48	5.87	5.47	7.12
28	5.37	8.49	---	6.71	---	5.50	20.27	14.22	7.51	8.10	5.59	6.82
29	5.29	11.87	---	6.42	---	10.12	25.56	13.62	7.40	7.89	5.79	6.33
30	5.24	11.61	---	6.35	---	14.70	26.25	13.77	7.21	7.07	5.90	5.86
31	5.21	---	---	6.29	---	14.78	---	13.67	---	6.44	5.86	---
MAX	6.59	11.87	---	17.93	---	---	---	27.17	12.82	13.04	6.04	7.12
MIN	5.17	5.17	---	6.29	---	---	---	13.62	5.87	5.57	5.46	5.31

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1955-57, 1966-73, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1967 to September 1968, November 1971 to September 1972, April 1975 to September 1981.

WATER TEMPERATURES: October 1967 to September 1968, April 1975 to September 1981.

INSTRUMENTATION.--Water-quality monitor April 1975 to September 1979.

REMARKS.--The temperature range for the water-quality monitor, 0.0 °C to 36.5 °C. Water-quality monitor removed September 1979. Samples for daily temperature and specific conductance were collected by an observer October 1979 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 824 micromhos Sept. 3, 1981; minimum, 42 micromhos May 29, 1978.

WATER TEMPERATURES: Maximum, higher than 36.5 °C Aug. 10, Sept. 1, 1977; minimum, 2.0 °C Feb. 10, 1978.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 2.0 °C was observed Jan. 23, 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (µS/CM)	PH (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990											
25...	1030	72	308	7.08	14.5	80	150	5.0	4.6	280	520
JAN 1991											
10...	1530	1010	99	7.35	8.5	160	200	9.5	2.6	680	--
APR											
11...	1700	306	218	7.56	21.0	40	110	5.9	3.6	120	290
JUL											
31...	1330	94	297	7.35	30.0	20	45	5.1	0.7	K90	230

DATE	HARDNESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM DIS-SOLVED (MG/L AS MG)	SODIUM DIS-SOLVED (MG/L AS NA)	POTASSIUM DIS-SOLVED (MG/L AS K)	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE DIS-SOLVED (MG/L AS CL)	FLUORIDE DIS-SOLVED (MG/L AS F)	SILICA DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1990											
25...	93	24	8.0	19	7.2	101	16	19	<0.1	12	180
JAN 1991											
10...	41	11	3.2	3.8	4.0	43	4.8	2.9	<0.1	7.0	68
APR											
11...	89	24	7.1	10	3.9	102	4.3	6.1	0.1	6.7	126
JUL											
31...	110	28	9.0	18	3.3	133	7.7	9.9	0.3	13	162

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DIS-SOLVED (MG/L AS P)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 1990											
25...	171	0.05	1.7	0.22	0.06	1.4	0.39	0.12	0.12	50	2
JAN 1991											
10...	64	<0.01	0.30	0.13	0.06	1.0	0.32	0.11	0.10	130	2
APR											
11...	124	0.03	0.38	0.15	0.07	0.9	0.25	0.05	0.05	50	3
JUL											
31...	168	0.03	0.41	0.06	0.05	0.9	0.15	0.06	0.04	10	3

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07369500 TENSAS RIVER AT TENDAL, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990 25...	65	<0.5	<1	<1	<3	6	56	1	6	40	<0.1
JAN 1991 10...	33	<0.5	<1	<1	<3	4	120	1	<4	9	<0.1
APR 11...	61	<0.5	<1	2	<3	6	45	1	6	53	<0.1
JUL 31...	75	<0.5	<1	<1	<3	7	9	<1	<4	170	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 25...	<10	1	<1	<1	110	<6	39	270	52	99
JAN 1991 10...	<10	2	<1	<1	49	<6	10	306	834	100
APR 11...	<10	2	<1	<1	110	<6	5	151	125	100
JUL 31...	<10	6	<1	<1	130	<6	4	127	32	97

< Actual value is known to be less than the value shown.

07370000 BAYOU MACON NEAR DELHI, LA

LOCATION.--Lat 32°27'25", long 91°28'30", in NE 1/4 SE 1/4 sec.18, T.17 N., R.10 E., Madison - Richland Parish line, Hydrologic Unit 08050002, near right bank on downstream side of bridge on U.S. Highway 80, 0.2 mi upstream from Illinois Central Gulf Railroad bridge, and 1.0 mi east of Delhi.

DRAINAGE AREA.--782 mi².

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for some periods published in WSP 1311. Daily gage heights as follows: 1885-99 in reports of National Weather Service; September 1925 to December 1931 in files of Corps of Engineers, Vicksburg District; and since January 1932 in reports of Corps of Engineers, Vicksburg District.

REVISED RECORDS.--WDR LA-77-1: 1976.

GAGE.--Water-stage recorder. Datum of gage is 50.05 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Mar. 14, 1949, nonrecording gage; Mar. 14, 1949 to Oct. 1, 1963, water-stage recorder; all gages within 2,000 ft downstream at same datum. Auxiliary water-stage recorder 7.7 mi downstream from base gage at datum 46.05 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 9, 1972, auxiliary gages at different sites and datum. See WDR LA-76-1 for history of changes prior to Mar. 9, 1972.

REMARKS.--Estimated daily discharges. Records good. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--56 years, 980 ft³/s, 710,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s, Apr. 29, 1991; maximum gage height, 26.86 ft, May 5, 1991; no flow May 25, 26, 28, June 1, 1963, June 11, 1988, and June 12 to July 4, 1988 result of temporary dam; minimum gage height observed, 4.13 ft, June 21, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1882 reached a stage of 37.5 ft, present site and datum, from records of National Weather Service (affected by overflow from Mississippi River).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,600 ft³/s, Apr. 29; maximum gage height, 26.86 ft, May 5; minimum daily discharge, 96 ft³/s, Oct. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	97	186	2710	189	3140	593	10000	618	481	193	282
2	104	97	158	2500	176	4040	398	9240	441	415	157	285
3	101	97	228	2680	170	4150	291	8640	338	397	147	422
4	108	97	573	2680	167	3490	248	8450	305	398	161	430
5	109	103	339	1810	1440	2820	224	8230	266	1490	175	352
6	110	102	213	998	3450	2450	214	8270	231	573	165	303
7	119	101	174	714	3420	2100	230	8140	237	512	167	253
8	132	100	150	605	2350	1910	981	8090	205	385	203	215
9	140	543	136	496	1060	1490	1780	7520	145	272	221	214
10	194	1550	125	1380	567	1030	1180	7260	128	230	282	204
11	224	1190	119	2810	413	868	609	6780	130	191	320	183
12	186	650	113	2460	328	806	882	6280	170	167	310	179
13	146	375	115	1530	277	729	3960	5220	228	137	274	153
14	130	238	111	779	243	601	6220	4320	319	126	219	147
15	124	175	108	813	201	466	7870	3510	436	134	195	150
16	118	145	112	1080	176	351	7620	2850	299	151	176	158
17	114	129	114	782	175	344	6920	2170	222	133	175	151
18	112	117	148	565	847	341	6060	e1900	160	106	182	171
19	107	112	370	588	4450	321	5140	e1600	128	173	174	163
20	104	110	453	558	6050	299	4010	e1350	124	558	152	147
21	138	108	952	441	6210	287	3080	e1130	123	491	159	137
22	456	109	5160	367	6040	266	2360	e1040	207	353	220	140
23	382	112	6420	328	5540	237	2850	e980	413	255	259	144
24	224	107	6030	320	4870	210	2150	e930	627	171	242	221
25	141	105	4840	322	4150	182	1640	e900	559	119	209	1040
26	117	105	3360	285	3590	168	1330	e1500	602	121	171	823
27	107	106	3030	245	3170	171	1090	e1950	635	134	141	414
28	102	198	3570	221	2940	245	4430	e1700	548	383	137	278
29	98	303	3210	205	---	2640	11900	e1600	501	343	156	241
30	96	240	2780	204	---	2800	11100	e1400	457	290	236	191
31	96	---	2720	198	---	1330	---	1020	---	261	343	---
TOTAL	4547	7621	46117	31674	62659	40282	97360	133970	9802	9950	6321	8191
MEAN	147	254	1488	1022	2238	1299	3245	4322	327	321	204	273
MAX	456	1550	6420	2810	6210	4150	11900	10000	635	1490	343	1040
MIN	96	97	108	198	167	168	214	900	123	106	137	137
AC-FT	9020	15120	91470	62830	124300	79900	193100	265700	19440	19740	12540	16250
CAL YR 1990	TOTAL 313423.1		MEAN 859		MAX 7550		MIN 7.1		AC-FT 621700			
WTR YR 1991	TOTAL 458494		MEAN 1256		MAX 11900		MIN 96		AC-FT 909400			

e Estimated.

RED RIVER BASIN

07370000 BAYOU MACON NEAR DELHI, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.08	6.98	7.41	13.02	7.24	15.58	8.23	26.70	8.14	7.91	7.23	7.47
2	7.05	6.99	7.28	11.76	7.20	17.84	7.86	26.55	7.83	7.78	7.11	7.48
3	7.02	6.98	7.49	11.42	7.18	18.41	7.60	26.48	7.61	7.74	7.07	7.79
4	7.08	6.98	8.26	11.37	7.17	17.67	7.48	26.74	7.53	8.42	7.12	7.81
5	7.09	7.04	7.81	9.79	9.24	16.35	7.42	26.80	7.43	9.24	7.17	7.65
6	7.10	7.03	7.50	8.79	12.34	14.79	7.39	26.72	7.34	8.33	7.14	7.52
7	7.17	7.02	7.36	8.43	12.67	12.98	7.43	26.48	7.35	7.96	7.14	7.39
8	7.27	7.01	7.25	8.26	10.81	11.00	8.73	26.38	7.26	7.71	7.26	7.29
9	7.32	7.98	7.17	8.06	8.86	9.40	9.73	26.20	7.06	7.44	7.31	7.29
10	7.52	9.44	7.11	9.24	8.19	8.83	8.99	25.88	6.99	7.34	7.47	7.26
11	7.59	9.00	7.07	11.29	7.90	8.64	8.25	25.40	6.99	7.22	7.57	7.20
12	7.50	8.36	7.04	11.04	7.70	8.56	8.54	24.82	7.15	7.14	7.54	7.18
13	7.36	7.89	7.06	9.46	7.56	8.45	14.20	24.06	7.33	7.03	7.45	7.09
14	7.26	7.57	7.03	8.49	7.47	8.25	19.89	23.07	7.56	6.98	7.30	7.07
15	7.21	7.36	7.01	8.53	7.35	8.00	22.89	21.91	7.82	7.01	7.24	7.08
16	7.16	7.22	7.03	8.89	7.27	7.76	23.30	20.69	7.51	7.09	7.17	7.11
17	7.13	7.14	7.04	8.50	7.27	7.74	22.99	19.39	7.31	7.01	7.17	7.09
18	7.12	7.07	7.23	8.15	8.35	7.73	22.60	18.10	7.12	6.89	7.19	7.16
19	7.07	7.04	7.88	8.19	14.43	7.68	21.95	16.68	6.98	7.13	7.17	7.13
20	7.05	7.02	8.05	8.14	18.71	7.62	20.69	15.28	6.97	8.04	7.09	7.07
21	7.22	7.01	8.76	7.90	19.95	7.59	19.08	14.05	6.96	7.93	7.11	7.02
22	8.09	7.02	15.96	7.73	20.52	7.53	17.53	12.89	7.27	7.64	7.31	7.04
23	7.95	7.04	19.70	7.64	20.24	7.45	17.61	11.82	7.75	7.40	7.41	7.05
24	7.59	7.01	20.15	7.62	19.55	7.38	16.24	10.89	8.16	7.15	7.37	7.27
25	7.32	7.00	19.37	7.62	18.54	7.29	14.17	10.07	8.05	6.95	7.28	8.69
26	7.16	6.99	17.65	7.52	17.43	7.24	12.00	10.17	8.11	6.96	7.15	8.44
27	7.07	7.00	16.45	7.40	16.26	7.25	10.10	10.48	8.17	7.01	7.04	7.77
28	7.03	7.42	16.73	7.34	15.02	7.45	15.05	10.01	8.03	7.71	7.02	7.46
29	6.99	7.73	16.12	7.30	---	11.06	25.64	9.55	7.94	7.62	7.11	7.36
30	6.98	7.57	14.84	7.29	---	11.26	26.65	9.18	7.87	7.49	7.33	7.22
31	6.98	---	13.82	7.27	---	9.18	---	8.66	---	7.41	7.62	---
MAX	8.09	9.44	20.15	13.02	20.52	18.41	26.65	26.80	8.17	9.24	7.62	8.69
MIN	6.98	6.98	7.01	7.27	7.17	7.24	7.39	8.66	6.96	6.89	7.02	7.02

07371500 DUGDEMONA RIVER NEAR JONESBORO, LA

LOCATION.--Lat 32°12'25", long 92°48'05", in SW 1/4 sec.8, T.14 N., R.4 W., Bienville - Jackson Parish line, Hydrologic Unit 08040303, on left bank just upstream from bridge on State Highway 4, 200 ft downstream from Brush Creek, 1.5 mi downstream from McDonald Creek, and 5.4 mi west of Jackson Parish courthouse in Jonesboro.

DRAINAGE AREA.--355 mi².

PERIOD OF RECORD.--October 1938 to September 1957, October 1977 to current year. November 1957 to September 1977 (annual maximum, daily gage heights, and miscellaneous discharge measurements only).

REVISED RECORDS.--WDR LA-1971: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 116.53 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 29, 1938, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Water used by paper mill at Hodge is pumped from wells and discharged into stream about 7 mi above station. Most of effluent is discharged continually whenever mill is operating, but some waste water is stored in a reservoir and released whenever river flow is sufficient to materially dilute it. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 13	0230	3,980	13.35	Apr. 30	0730	*19,500	*17.77
Feb. 20	2000	17,000	17.28	May 5	0830	10,700	15.85
Apr. 15	1500	11,900	16.13				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	139	1550	254	993	622	7100	325	167	137	73
2	16	16	94	1100	228	1390	389	3130	294	121	75	64
3	16	15	66	935	203	1570	267	2030	231	72	51	139
4	15	17	50	926	185	1610	205	4400	166	53	40	248
5	16	19	40	953	205	1410	173	9660	128	92	31	204
6	16	21	45	955	299	1060	157	5570	201	382	26	133
7	17	20	50	875	397	712	165	3280	241	419	23	78
8	14	20	50	641	431	498	445	2380	149	277	22	54
9	12	33	52	475	379	402	779	2030	94	147	20	44
10	14	55	60	798	294	335	771	1620	73	90	22	45
11	16	105	57	2360	243	287	616	1320	73	65	24	45
12	16	158	50	3420	206	260	429	1080	76	51	25	44
13	16	101	44	3740	185	249	647	762	144	41	24	48
14	16	58	39	2640	167	242	5340	493	198	33	25	41
15	15	43	35	2000	155	228	11400	376	210	29	29	32
16	16	37	33	1800	141	206	8820	305	149	26	30	25
17	16	34	33	1670	127	217	4560	292	101	26	58	20
18	16	33	43	1750	299	259	3900	446	126	29	69	19
19	16	31	82	1920	1760	286	3370	763	169	44	48	17
20	16	30	243	1730	11500	277	2450	1080	137	192	36	12
21	19	28	350	1360	11800	240	2000	1590	100	122	29	13
22	22	29	489	1100	5940	203	1580	1890	79	53	28	13
23	19	41	721	841	4190	182	1330	1380	66	46	27	11
24	18	45	1140	588	3280	170	2030	880	59	38	24	12
25	17	85	1370	449	2480	163	2650	536	112	35	27	25
26	17	76	1650	420	1910	150	1920	409	302	68	27	159
27	18	55	1420	416	1460	133	1290	392	279	132	27	215
28	17	65	1300	387	1070	162	846	391	175	66	26	160
29	17	79	1580	342	---	449	6380	324	121	133	26	78
30	19	134	2000	307	---	698	16900	257	110	199	27	46
31	16	---	2040	281	---	750	---	279	---	212	37	---
TOTAL	510	1499	15365	38729	49788	15791	82431	56445	4688	3460	1120	2117
MEAN	16.5	50.0	496	1249	1778	509	2748	1821	156	112	36.1	70.6
MAX	22	158	2040	3740	11800	1610	16900	9660	325	419	137	248
MIN	12	15	33	281	127	133	157	257	59	26	20	11
AC-FT	1010	2970	30480	76820	98750	31320	163500	112000	9300	6860	2220	4200

07371500 DUGDEMONA RIVER NEAR JONESBORO, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	42.0	194	416	781	1099	764	743	753	264	174	33.9	27.4
MAX	407	1534	3981	3195	2499	1616	2748	3347	1482	2121	188	180
(WY)	1946	1942	1983	1945	1946	1953	1991	1953	1950	1989	1955	1957
MIN	2.00	2.33	3.77	20.0	54.0	124	63.8	10.8	8.23	2.06	.74	.50
(WY)	1957	1955	1955	1955	1981	1954	1978	1943	1956	1954	1954	1954

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1939 - 1991		
ANNUAL TOTAL	210060			271943					
ANNUAL MEAN	576			745					
HIGHEST ANNUAL MEAN							437		
LOWEST ANNUAL MEAN							893		
HIGHEST DAILY MEAN	9330			16900			67.3		
LOWEST DAILY MEAN	12			11			36500		
ANNUAL SEVEN-DAY MINIMUM	14			14			.40		
INSTANTANEOUS PEAK FLOW				19500			.40		
INSTANTANEOUS PEAK STAGE				17.77			41500		
INSTANTANEOUS LOW FLOW				10			a21.20		
INSTANTANEOUS LOW STAGE				3.47			.40		
ANNUAL RUNOFF (AC-FT)	416700			539400			2.67		
10 PERCENT EXCEEDS	1950			1910			316800		
50 PERCENT EXCEEDS	85			157			1120		
90 PERCENT EXCEEDS	16			18			72		
							8.0		

a From flood mark.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.69	3.67	6.00	11.39	7.76	10.56	9.68	14.66	8.20	6.39	5.97	4.98
2	3.70	3.68	5.35	10.75	7.45	11.18	8.64	12.79	7.93	5.74	5.03	4.82
3	3.68	3.66	4.86	10.46	7.14	11.42	7.63	11.92	7.22	4.97	4.56	5.97
4	3.66	3.72	4.54	10.44	6.91	11.47	6.89	13.40	6.38	4.60	4.31	7.43
5	3.70	3.84	4.33	10.49	7.17	11.21	6.47	15.55	5.84	5.21	4.09	6.92
6	3.71	3.89	4.43	10.50	8.19	10.69	6.26	14.11	6.82	8.58	3.91	6.01
7	3.73	3.87	4.54	10.34	8.92	9.94	6.36	12.91	7.33	8.86	3.83	5.23
8	3.60	3.86	4.55	9.74	9.13	9.23	8.78	12.23	6.14	7.70	3.77	4.80
9	3.51	4.23	4.57	9.15	8.80	8.75	10.13	11.92	5.35	6.11	3.72	4.61
10	3.61	4.75	4.73	10.06	8.18	8.27	10.12	11.48	5.00	5.29	3.77	4.62
11	3.70	5.55	4.68	12.17	7.63	7.85	9.66	11.09	5.01	4.84	3.85	4.64
12	3.70	6.27	4.53	13.01	7.19	7.56	8.91	10.72	5.05	4.57	3.90	4.61
13	3.68	5.45	4.41	13.21	6.91	7.43	9.58	10.07	6.06	4.34	3.85	4.70
14	3.67	4.69	4.28	12.44	6.67	7.35	13.78	9.21	6.80	4.15	3.89	4.55
15	3.64	4.39	4.20	11.89	6.50	7.18	16.02	8.57	6.97	4.02	4.03	4.33
16	3.67	4.25	4.15	11.70	6.28	6.91	15.28	8.03	6.14	3.92	4.04	4.11
17	3.70	4.18	4.15	11.57	6.11	7.04	13.63	7.90	5.46	3.93	4.70	3.93
18	3.69	4.13	4.39	11.65	7.78	7.55	13.30	8.99	5.82	4.02	4.92	3.89
19	3.69	4.08	5.10	11.82	11.48	7.85	12.97	10.03	6.43	4.40	4.50	3.80
20	3.69	4.04	7.34	11.63	15.82	7.75	12.30	10.72	5.97	6.67	4.21	3.59
21	3.80	3.98	8.38	11.20	16.06	7.33	11.89	11.41	5.45	5.74	4.03	3.63
22	3.93	4.00	9.18	10.83	14.29	6.87	11.43	11.77	5.11	4.59	3.99	3.63
23	3.81	4.33	9.96	10.37	13.46	6.60	11.11	11.17	4.85	4.45	3.95	3.55
24	3.76	4.43	10.83	9.72	12.91	6.43	11.86	10.33	4.72	4.28	3.86	3.59
25	3.72	5.20	11.16	9.22	12.32	6.33	12.46	9.37	5.58	4.21	3.94	4.04
26	3.74	5.04	11.51	9.07	11.79	6.15	11.80	8.79	7.97	4.82	3.97	6.36
27	3.80	4.65	11.23	9.04	11.28	5.91	11.03	8.68	7.75	5.90	3.96	7.05
28	3.75	4.84	11.07	8.86	10.70	6.30	10.27	8.68	6.49	4.85	3.94	6.36
29	3.74	5.10	11.43	8.56	---	8.93	13.82	8.17	5.74	5.91	3.92	5.23
30	3.80	5.92	11.89	8.30	---	9.92	17.24	7.53	5.59	6.83	3.95	4.65
31	3.70	---	11.92	8.06	---	10.07	---	7.75	---	6.98	4.19	---
MAX	3.93	6.27	11.92	13.21	16.06	11.47	17.24	15.55	8.20	8.86	5.97	7.43
MIN	3.51	3.66	4.15	8.06	6.11	5.91	6.26	7.53	4.72	3.92	3.72	3.55

07372200 LITTLE RIVER NEAR ROCHELLE, LA

LOCATION.--Lat 31°45'15", long 92°20'40", in NW 1/4 sec.41, T.9 N., R.1 E., Grant - La Salle Parish line, Hydrologic Unit 08040304, near right bank on downstream side of pier of bridge on State Highway 500, 700 ft upstream from Louisiana Midland Railway Co. bridge, 1.1 mi northeast of Zenoria, and 3.0 mi southeast of Rochelle.

DRAINAGE AREA.--1,899 mi².

PERIOD OF RECORD.--October 1957 to current year.

REVISED RECORDS.--WDR LA-1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.79 ft above National Geodetic Vertical Datum of 1929. Water-stage recorder for station Little River at Rochelle (station 07372190) used as auxiliary gage for this station since May 9, 1960. Prior to May 9, 1960, auxiliary nonrecording gage 5.1 mi upstream from base gage at same datum. Nonrecording gage read twice daily at auxiliary gage from Jan. 3, 1983 to Sept. 30, 1986.

REMARKS.--Records good. Natural flow is supplemented by effluent from operation of several oil fields upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 2,218 ft³/s, 16.57 in/yr, 1,679,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 108,000 ft³/s, Dec. 29, 1982, gage height, 45.88 ft, from floodmark; minimum discharge, 9.6 ft³/s, Sept. 26, 27, 1980, gage height, 4.87 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,100 ft³/s, May 2, gage height, 39.17 ft; maximum gage height, 39.50 ft, Apr. 18; minimum discharge, 16 ft³/s, Oct. 19, 20, 22; minimum gage height, 4.66 ft, Oct. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	50	404	4110	2590	11900	2760	40000	4990	887	768	328
2	27	44	360	4060	2090	10700	2510	47400	4450	773	651	781
3	26	39	385	4800	1700	9890	2280	41500	3640	659	552	1340
4	26	38	424	5260	1400	9410	2050	34700	2590	523	494	1570
5	25	48	410	5450	1450	8950	1860	28200	1710	448	448	1480
6	23	53	391	5380	2190	8390	1720	23300	1280	486	387	1120
7	22	55	367	5190	2760	7700	1650	20300	942	501	310	820
8	21	51	340	5020	2970	7010	2470	18800	759	430	243	692
9	21	93	308	4800	3000	6410	3240	19700	695	416	198	671
10	19	274	278	5460	2920	5680	3620	19600	627	483	334	657
11	19	263	261	7490	2760	4810	3700	18000	547	525	1130	549
12	18	249	253	8960	2560	3910	3790	15900	629	523	1550	425
13	18	240	250	10500	2370	3110	3990	13800	1880	482	1530	347
14	18	230	232	9730	2020	2440	5590	12000	1810	398	1290	289
15	19	239	208	11600	1720	1850	12800	10300	1530	318	1060	244
16	19	250	187	11300	1400	1370	36800	8880	1350	255	912	208
17	19	252	179	10600	1180	1270	44800	7600	1160	214	1110	185
18	18	243	221	10000	1010	1760	47100	6180	982	205	1380	165
19	17	218	292	9930	1640	2240	44900	5320	826	172	1700	147
20	16	185	265	9730	3310	2330	40000	4880	657	224	1850	132
21	71	150	294	9270	4210	2160	34100	4810	676	210	1440	118
22	618	125	1640	8700	5280	1910	27300	4850	661	317	724	107
23	533	113	2860	7940	6200	1620	20500	4700	806	507	506	98
24	379	101	3170	7300	7290	1360	15300	4430	680	630	505	93
25	270	92	3350	6830	10200	1160	12200	4230	616	599	599	97
26	176	87	3550	6470	14700	1010	10200	4630	576	563	528	101
27	122	89	3900	5890	15000	877	9200	4650	593	652	379	104
28	91	397	4460	5250	13400	755	8320	4620	729	632	278	125
29	71	542	4650	4540	---	1590	9610	4820	799	696	219	191
30	62	428	4570	3860	---	2610	16100	5100	845	763	195	216
31	56	---	4340	3190	---	2880	---	5240	---	835	226	---
TOTAL	2868	5238	42799	218610	119320	129062	430460	448440	40035	15326	23496	13400
MEAN	92.5	175	1381	7052	4261	4163	14350	14470	1334	494	758	447
MAX	618	542	4650	11600	15000	11900	47100	47400	4990	887	1850	1570
MIN	16	38	179	3190	1010	755	1650	4230	547	172	195	93
AC-FT	5690	10390	84890	433600	236700	256000	853800	889500	79410	30400	46600	26580
CFSM	.05	.09	.73	3.71	2.24	2.19	7.56	7.62	.70	.26	.40	.24
IN.	.06	.10	.84	4.28	2.34	2.53	8.43	8.78	.78	.30	.46	.26
CAL YR 1990	TOTAL 1142018		MEAN 3129		MAX 38000		MIN 16		AC-FT 2265000		CFSM 1.65	
WTR YR 1991	TOTAL 1489054		MEAN 4080		MAX 47400		MIN 16		AC-FT 2954000		CFSM 2.15	
											IN. 22.37	
											IN. 29.17	

RED RIVER BASIN

07372200 LITTLE RIVER NEAR ROCHELLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.98	5.39	8.97	22.74	24.61	32.80	21.35	37.96	28.61	16.19	11.54	8.41
2	4.95	5.29	8.63	22.69	23.68	32.29	20.17	39.11	28.19	15.55	10.83	11.19
3	4.92	5.21	8.69	24.98	22.84	31.88	19.33	38.62	27.56	14.83	10.12	14.55
4	4.92	5.18	9.00	25.98	22.15	31.53	18.52	37.92	26.66	13.95	9.62	15.67
5	4.89	5.36	8.94	26.01	22.20	31.19	17.86	36.91	25.70	13.20	9.25	15.32
6	4.84	5.45	8.82	25.74	23.16	30.81	17.37	36.01	25.03	12.69	8.80	13.76
7	4.82	5.47	8.67	25.43	23.75	30.35	17.07	35.39	24.51	12.26	8.20	12.17
8	4.80	5.41	8.50	25.17	23.81	29.83	20.33	35.03	24.08	11.66	7.64	11.25
9	4.79	5.94	8.25	24.86	23.54	29.20	23.69	35.14	23.71	11.24	7.21	11.01
10	4.75	7.71	7.97	26.35	23.14	28.43	24.00	35.17	23.38	10.98	7.96	11.39
11	4.74	7.89	7.79	29.45	22.54	27.46	23.45	34.87	23.10	10.80	13.29	10.58
12	4.73	7.69	7.70	30.59	21.78	26.25	23.75	34.37	22.98	10.52	15.59	9.57
13	4.73	7.59	7.65	31.41	20.89	24.82	24.21	33.74	23.49	10.13	15.51	8.84
14	4.73	7.48	7.52	32.19	19.87	23.28	27.18	33.03	23.49	9.50	14.47	8.31
15	4.74	7.53	7.32	32.57	18.76	21.85	32.13	32.37	22.96	8.76	13.54	7.90
16	4.74	7.64	7.09	32.50	17.69	20.71	37.60	31.73	22.48	8.10	13.04	7.54
17	4.74	7.66	7.03	32.19	16.73	20.29	38.96	31.13	22.01	7.61	13.37	7.28
18	4.72	7.60	7.40	31.89	15.93	20.50	39.41	30.56	21.58	7.38	14.73	7.05
19	4.68	7.42	8.08	31.82	17.72	20.98	39.31	30.12	21.15	7.02	16.27	6.84
20	4.67	7.12	7.97	31.69	23.23	20.98	38.72	29.84	20.68	7.24	16.95	6.65
21	5.46	6.77	8.23	31.40	25.20	20.48	37.84	29.70	20.43	7.31	15.41	6.48
22	10.03	6.46	15.37	31.00	27.12	19.72	36.69	29.62	20.09	7.85	12.39	6.34
23	10.18	6.30	19.40	30.55	28.34	18.80	35.43	29.47	19.88	9.36	11.08	6.21
24	8.96	6.15	20.11	30.14	29.50	17.86	34.17	29.27	19.35	10.41	10.12	6.14
25	8.12	6.03	20.61	29.78	31.59	17.05	32.99	29.05	18.84	10.42	10.39	6.19
26	7.22	5.95	21.17	29.33	33.68	16.32	32.05	29.17	18.35	10.05	10.15	6.25
27	6.51	5.99	22.03	28.77	33.95	15.61	31.53	29.04	17.90	10.60	9.17	6.29
28	6.01	8.54	23.44	28.10	33.43	14.95	30.94	28.81	17.52	10.58	8.26	6.45
29	5.73	10.09	23.88	27.32	---	18.74	31.86	28.74	17.13	10.91	7.64	7.11
30	5.59	9.33	23.72	26.46	---	21.97	33.67	28.88	16.67	11.30	7.32	7.42
31	5.49	---	23.27	25.55	---	22.13	---	28.83	---	11.79	8.15	---
MAX	10.18	10.09	23.88	32.57	33.95	32.80	39.41	39.11	28.61	16.19	16.95	15.67
MIN	4.67	5.18	7.03	22.69	15.93	14.95	17.07	28.74	16.67	7.02	7.21	6.14

07373000 BIG CREEK AT POLLOCK, LA
(Hydrologic bench-mark station)

LOCATION.--Lat 31°32'10", long 92°24'30", in SW 1/4 SE 1/4 sec.31, T.7 N., R.1 E., Grant Parish, Hydrologic Unit 08040304, near right bank on downstream side of bridge on U.S. Highway 165, 0.5 mi upstream from Sugar Branch, 0.8 mi upstream from water-supply diversion dam, 0.8 mi north of Pollock, and 1.3 mi downstream from Dyson Creek.

DRAINAGE AREA.--51 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1942 to current year.

REVISED RECORDS.--WDR LA-75-1: 1958(M), 1966(M).

GAGE.--Water-stage recorder with a data-collection platform and rain gage, concrete control. Datum of gage is 76.69 ft above National Geodetic Vertical Datum of 1929. See WDR-LA-88-1 for history of changes prior to Oct. 1, 1988.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 950 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 22	1700	1,450	10.13	Apr. 18	1300	2,400	11.27
Jan. 18	2400	1,400	10.02	Apr. 29	0800	*7,600	*14.74
Apr. 8	1030	2,860	11.71				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	28	49	46	312	66	185	79	39	28	39
2	15	17	26	158	44	303	59	126	67	38	25	43
3	14	17	27	399	43	172	50	107	60	48	26	37
4	15	22	29	136	43	99	63	612	56	58	26	35
5	17	50	25	78	81	77	104	285	52	70	25	34
6	16	31	24	64	70	68	65	131	49	47	25	34
7	15	22	56	57	54	61	133	98	48	44	26	31
8	14	21	43	51	47	55	1620	395	45	44	29	30
9	14	59	30	72	44	51	351	411	43	58	34	29
10	15	48	27	737	42	48	117	225	44	84	35	59
11	15	29	25	964	40	47	153	150	62	46	35	36
12	14	24	25	234	39	47	332	114	69	40	32	30
13	14	23	24	105	41	49	137	94	58	36	37	28
14	14	21	24	80	42	45	320	82	49	35	54	27
15	14	20	24	243	35	43	730	135	45	34	84	27
16	14	20	23	171	34	46	219	142	44	33	100	28
17	15	20	38	84	43	93	114	95	57	30	45	27
18	14	19	58	110	53	65	1530	81	46	33	35	27
19	14	19	40	265	267	52	691	78	47	33	33	25
20	14	20	46	115	176	48	151	72	58	30	31	24
21	41	19	64	75	199	47	102	72	97	33	32	24
22	96	22	960	63	235	47	86	91	63	31	97	24
23	33	46	330	58	108	45	79	72	55	29	63	25
24	23	32	95	152	74	43	70	137	71	28	37	47
25	19	25	66	121	66	41	62	103	59	28	32	189
26	18	24	56	74	78	40	60	298	47	34	31	47
27	18	23	99	64	63	39	1270	106	43	33	30	34
28	18	148	106	62	55	66	545	77	46	33	30	30
29	17	68	68	57	---	644	3840	198	50	30	29	29
30	17	33	61	54	---	207	743	191	42	29	52	28
31	17	---	59	50	---	84	---	110	---	30	72	---
TOTAL	609	959	2606	5002	2162	3084	13862	5073	1651	1218	1270	1127
MEAN	19.6	32.0	84.1	161	77.2	99.5	462	164	55.0	39.3	41.0	37.6
MAX	96	148	960	964	267	644	3840	612	97	84	100	189
MIN	14	17	23	49	34	39	50	72	42	28	25	24
AC-FT	1210	1900	5170	9920	4290	6120	27500	10060	3270	2420	2520	2240
CFSM	.39	.63	1.65	3.16	1.51	1.95	9.06	3.21	1.08	.77	.80	.74
IN.	.44	.70	1.90	3.65	1.58	2.25	10.11	3.70	1.20	.89	.93	.82

07373000 BIG CREEK AT POLLOCK, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1991, BY WATER YEAR (WY)

MEAN	32.8	49.2	69.6	93.9	113	98.5	99.1	88.2	41.8	35.6	25.1	29.8
MAX	288	391	470	352	474	244	461	698	284	240	105	161
(WY)	1985	1988	1983	1990	1966	1977	1991	1953	1989	1969	1961	1985
MIN	7.87	12.4	15.7	19.4	25.1	23.5	21.5	15.4	10.1	9.22	6.85	5.82
(WY)	1964	1968	1955	1956	1964	1955	1956	1956	1963	1956	1963	1956

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1943 - 1991

ANNUAL TOTAL	29156											
ANNUAL MEAN	79.9											
HIGHEST ANNUAL MEAN										64.5		
LOWEST ANNUAL MEAN										139		1983
HIGHEST DAILY MEAN	2080	Jan 18								22.7		1956
LOWEST DAILY MEAN	14	Sep 29								10100	May 17	1953
ANNUAL SEVEN-DAY MINIMUM	14	Oct 12								3.9	Sep 28	1956
INSTANTANEOUS PEAK FLOW										4.1	Sep 24	1956
INSTANTANEOUS PEAK STAGE										7600	Apr 29	1953
INSTANTANEOUS LOW FLOW										14.74	Apr 29	1953
INSTANTANEOUS LOW STAGE										13	Oct 20, 21	1956
ANNUAL RUNOFF (AC-FT)	57830									2.80	Oct 21	1956
ANNUAL RUNOFF (CFSM)	1.57									76610		
ANNUAL RUNOFF (INCHES)	21.27									46710		
10 PERCENT EXCEEDS	120									1.26		
50 PERCENT EXCEEDS	32									17.18		
90 PERCENT EXCEEDS	16									95		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.85	2.88	3.10	3.32	3.29	5.03	3.45	4.07	3.53	3.22	3.09	3.23
2	2.84	2.90	3.08	3.98	3.27	4.86	3.40	3.77	3.46	3.22	3.06	3.26
3	2.82	2.89	3.09	5.55	3.26	4.00	3.33	3.68	3.41	3.31	3.07	3.21
4	2.85	2.98	3.10	3.82	3.27	3.64	3.41	7.03	3.37	3.38	3.07	3.18
5	2.88	3.30	3.05	3.53	3.54	3.52	3.66	4.73	3.34	3.47	3.05	3.17
6	2.86	3.10	3.04	3.44	3.47	3.46	3.44	3.79	3.32	3.30	3.06	3.17
7	2.84	2.99	3.37	3.38	3.36	3.41	3.87	3.64	3.31	3.27	3.06	3.14
8	2.84	2.96	3.26	3.34	3.30	3.37	10.03	5.58	3.28	3.27	3.11	3.13
9	2.84	3.36	3.12	3.48	3.27	3.34	5.19	5.65	3.27	3.38	3.17	3.11
10	2.86	3.28	3.08	7.33	3.25	3.31	3.73	4.30	3.28	3.56	3.19	3.39
11	2.84	3.08	3.06	8.63	3.24	3.30	3.96	3.89	3.41	3.30	3.19	3.20
12	2.84	3.02	3.05	4.41	3.23	3.31	5.07	3.71	3.46	3.23	3.14	3.12
13	2.84	2.99	3.04	3.67	3.25	3.32	3.82	3.62	3.39	3.20	3.21	3.10
14	2.84	2.97	3.04	3.54	3.25	3.28	5.05	3.55	3.32	3.18	3.34	3.09
15	2.84	2.95	3.04	4.48	3.19	3.26	7.71	3.82	3.28	3.17	3.54	3.08
16	2.84	2.95	3.03	4.00	3.17	3.29	4.31	3.85	3.27	3.15	3.63	3.10
17	2.84	2.95	3.20	3.56	3.26	3.61	3.71	3.62	3.38	3.13	3.28	3.08
18	2.84	2.94	3.40	3.69	3.34	3.44	9.43	3.55	3.29	3.16	3.19	3.08
19	2.82	2.93	3.24	4.55	4.68	3.35	7.01	3.52	3.30	3.16	3.16	3.05
20	2.82	2.94	3.28	3.72	4.04	3.31	3.90	3.49	3.39	3.13	3.13	3.04
21	3.11	2.92	3.40	3.51	4.18	3.30	3.66	3.49	3.62	3.15	3.15	3.04
22	3.58	2.98	8.45	3.43	4.35	3.30	3.57	3.60	3.43	3.13	3.59	3.04
23	3.12	3.26	5.05	3.39	3.68	3.29	3.53	3.49	3.37	3.11	3.42	3.05
24	2.99	3.12	3.62	3.90	3.50	3.26	3.48	3.82	3.47	3.10	3.20	3.24
25	2.94	3.02	3.45	3.75	3.45	3.24	3.42	3.66	3.40	3.10	3.15	4.10
26	2.91	3.00	3.38	3.50	3.53	3.24	3.41	4.84	3.30	3.17	3.13	3.30
27	2.90	2.99	3.63	3.44	3.43	3.22	9.19	3.68	3.26	3.16	3.12	3.17
28	2.90	3.86	3.67	3.42	3.37	3.40	6.30	3.52	3.29	3.16	3.12	3.13
29	2.89	3.44	3.47	3.38	---	7.28	11.96	4.24	3.33	3.13	3.11	3.11
30	2.89	3.16	3.42	3.36	---	4.27	7.24	4.11	3.26	3.11	3.28	3.10
31	2.89	---	3.40	3.33	---	3.56	---	3.70	---	3.13	3.47	---
MAX	3.58	3.86	8.45	8.63	4.68	7.28	11.96	7.03	3.62	3.56	3.63	4.10
MIN	2.82	2.88	3.03	3.32	3.17	3.22	3.33	3.49	3.26	3.10	3.05	3.04

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1943, 1959, 1965 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1964 to September 1973, October 1974 to September 1976.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.0 °C July 30 to Aug. 1, 1976; minimum, 2.0 °C Jan. 15, 1969, Jan. 10, 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990 26...	1100	18	43	6.12	12.0	30	4.2	10.2	1.5	300	180
JAN 1991 11...	0845	964	25	5.98	12.0	100	27	9.6	2.0	K3200	K5500
APR 12...	0915	332	31	6.10	19.0	100	36	8.5	2.7	K2400	K3200
JUL 31...	1730	30	41	6.71	27.5	40	5.1	8.1	1.4	K85	230

DATE	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1990 26...	7	1.7	0.73	4.1	1.7	14	2.0	4.2	<0.1	18	33
JAN 1991 11...	7	1.7	0.59	1.2	1.4	4	--	0.80	<0.1	5.6	27
APR 12...	8	2.0	0.69	2.5	1.0	6	--	2.2	0.1	11	43
JUL 31...	8	1.8	0.77	4.2	1.5	13	1.2	3.9	<0.1	20	31

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 1990 26...	39	<0.01	<0.10	0.02	<0.01	0.2	0.02	<0.01	<0.01	70	<1
JAN 1991 11...	--	<0.01	<0.10	0.04	--	0.7	0.04	0.01	<0.01	470	<1
APR 12...	--	<0.01	<0.05	0.03	0.03	0.7	0.05	<0.01	<0.01	260	<1
JUL 31...	41	<0.01	<0.05	<0.01	0.02	0.4	0.03	0.01	<0.01	40	<1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07373000 BIG CREEK AT POLLOCK, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990 26...	25	<0.5	<1	<1	<3	1	150	1	<4	25	<0.1
JAN 1991 11...	29	<0.5	<1	<1	<3	3	440	1	<4	110	--
APR 12...	43	<0.5	<1	<1	<3	1	160	1	<4	120	<0.1
JUL 31...	29	<0.5	<1	<1	<3	2	340	<1	<4	78	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 26...	<10	<1	<1	<1	17	<6	<3	6	0.29	95
JAN 1991 11...	<10	<1	<1	<1	11	<6	13	135	351	58
APR 12...	<10	1	<1	<1	18	<6	4	89	80	91
JUL 31...	<10	2	<1	<1	19	<6	<3	8	0.65	94

	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (µG/L)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	URANIUM NATURAL 2 SIGMA WATER, DISS, (µG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L)
OCT 1990 26...	0.30	<0.60	0.60	0.60	<1.0	0.020	0.20	0.60
APR 1991 12...	0.60	0.60	0.50	0.60	<1.0	0.020	2.2	0.70

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
OCT 1990 26...	<0.6	<0.6	2.1	<0.6	1.9	<0.6	0.13	0.03
APR 1991 12...	1.0	3.8	1.7	2.2	1.6	2.1	0.08	0.10

< Actual value is known to be less than the value shown.

07373250 HEMPHILL CREEK AT NEBO, LA

LOCATION.--Lat 31°35'04", long 92°07'55", in NW 1/4 NE 1/4 in sec.39, T.7 N., R.3 E., La Salle Parish, Hydrologic Unit 08040304, at left bank on downstream side of bridge on State Highway 460, 0.6 mi east of Nebo, 1.4 mi upstream from Mason Creek, and 2.2 mi downstream from Mill Creek.

DRAINAGE AREA.--35.3 mi².

PERIOD OF RECORD.--Occasional low-flow and miscellaneous measurements, water years 1956-63, 1966-67, 1970. August 1978 to current year.

REVISED RECORDS.--WDR LA-82-1: 1979-81(M).

GAGE.--Water-stage recorder. Datum of gage is 46.58 ft above National Geodetic Vertical Datum of 1929. August 1978 to July 27, 1988, water-stage recorder at site 300 ft upstream at same datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	1630	2,770	8.74	Apr. 18	0430	*6,470	*11.72
Mar. 29	0330	3,840	10.03	Apr. 27	0500	3,110	9.37
Apr. 7	2130	3,270	9.52	Apr. 29	0615	6,420	11.69

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	21	31	36	573	91	158	e52	32	26	30
2	18	16	20	247	35	138	81	128	e48	36	26	23
3	22	16	25	309	34	138	74	111	e46	33	26	27
4	22	18	20	62	34	72	68	270	e44	34	25	22
5	20	31	19	43	422	60	63	115	e43	37	26	21
6	19	18	20	38	113	55	58	93	e43	33	25	20
7	19	18	33	44	67	50	516	82	e42	35	36	20
8	19	17	22	33	53	46	420	204	e42	41	29	20
9	20	57	20	50	48	43	114	253	e41	32	26	20
10	20	25	20	1430	45	41	82	131	e40	31	32	19
11	20	20	19	231	41	40	193	110	e39	29	44	19
12	20	19	19	101	40	40	212	79	45	28	26	18
13	20	18	19	74	40	39	114	69	64	28	25	18
14	20	17	18	61	38	37	670	62	40	27	38	19
15	20	17	18	186	35	37	351	75	38	26	31	19
16	20	17	18	81	35	42	122	66	38	26	26	19
17	20	16	20	58	39	62	103	60	37	26	21	19
18	21	16	22	147	140	43	2130	65	47	29	32	19
19	20	16	20	162	530	39	220	59	39	27	24	19
20	21	16	36	70	126	37	155	56	75	26	19	20
21	51	16	297	54	279	37	140	64	74	26	19	20
22	40	17	609	48	157	37	e120	62	55	25	43	20
23	23	20	110	45	85	35	e100	58	48	25	24	20
24	20	17	56	157	65	34	e90	72	68	26	20	79
25	19	16	42	73	62	33	80	65	41	25	19	76
26	18	16	36	54	61	32	78	60	36	33	20	29
27	18	16	55	51	52	32	800	53	34	30	20	26
28	17	54	55	47	48	60	220	49	35	29	20	24
29	17	24	36	44	---	1390	2030	49	34	27	20	24
30	17	22	37	42	---	147	231	48	33	27	63	23
31	16	---	41	38	---	107	---	e60	---	27	44	---
TOTAL	655	622	1803	4111	2760	3576	9726	2886	1361	916	875	752
MEAN	21.1	20.7	58.2	133	98.6	115	324	93.1	45.4	29.5	28.2	25.1
MAX	51	57	609	1430	530	1390	2130	270	75	41	63	79
MIN	16	16	18	31	34	32	58	48	33	25	19	18
AC-FT	1300	1230	3580	8150	5470	7090	19290	5720	2700	1820	1740	1490
CFSM	.60	.59	1.65	3.76	2.79	3.27	9.18	2.64	1.29	.84	.80	.71
IN.	.69	.66	1.90	4.33	2.91	3.77	10.25	3.04	1.43	.97	.92	.79

e Estimated.

RED RIVER BASIN

07373250 HEMPHILL CREEK AT NEBO, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1991, BY WATER YEAR (WY)

MEAN	39.9	67.6	86.1	86.7	115	85.7	80.7	75.3	42.6	26.8	22.6	29.4
MAX	146	349	507	227	235	162	324	348	89.0	63.2	32.6	84.6
(WY)	1985	1988	1983	1979	1983	1980	1991	1983	1984	1989	1984	1985
MIN	15.3	17.8	18.6	20.2	29.5	20.8	21.0	16.6	14.6	10.4	15.1	13.9
(WY)	1983	1982	1982	1982	1986	1982	1981	1982	1982	1985	1986	1982

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1978 - 1991	
ANNUAL TOTAL	21600		30043			
ANNUAL MEAN	59.2		82.3		62.9	
HIGHEST ANNUAL MEAN					138	
LOWEST ANNUAL MEAN					22.6	
HIGHEST DAILY MEAN	1250	Feb 3	2130	Apr 18	9000	Dec 27 1982
LOWEST DAILY MEAN	16	Oct 31	16	Oct 31, Nov. 1-3, Nov 17-21, 25-27	8.5	Aug 13 1985
ANNUAL SEVEN-DAY MINIMUM	16	Nov 15	16	Nov 15	9.1	Jul 31 1985
INSTANTANEOUS PEAK FLOW			6470	Apr 18	15800	Nov 16 1987
INSTANTANEOUS PEAK STAGE			11.72	Apr 18	14.93	Nov 16 1987
INSTANTANEOUS LOW FLOW					8.2	at times in 1985
ANNUAL RUNOFF (AC-FT)	42840		59590		45600	
ANNUAL RUNOFF (CFSM)	1.68		2.33		1.78	
ANNUAL RUNOFF (INCHES)	22.76		31.66		24.23	
10 PERCENT EXCEEDS	74		139		77	
50 PERCENT EXCEEDS	26		37		26	
90 PERCENT EXCEEDS	18		19		17	

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.82	1.81	1.93	2.04	2.02	4.46	2.70	3.00	---	1.62	1.53	1.75
2	1.82	1.82	1.91	3.29	2.00	3.05	2.61	2.76	---	1.68	1.53	1.64
3	1.88	1.82	2.00	3.77	1.99	3.04	2.54	2.62	---	1.64	1.53	1.71
4	1.90	1.87	1.92	2.42	2.00	2.52	2.48	3.61	---	1.66	1.52	1.63
5	1.86	2.07	1.91	2.20	4.34	2.41	2.43	2.65	---	1.70	1.53	1.61
6	1.84	1.88	1.91	2.13	2.80	2.35	2.38	2.44	---	1.64	1.52	1.58
7	1.84	1.87	2.12	2.20	2.39	2.28	3.53	2.34	---	1.67	1.66	1.59
8	1.84	1.86	1.96	2.06	2.24	2.23	4.15	3.27	---	1.75	1.57	1.59
9	1.84	2.39	1.93	2.27	2.18	2.20	2.89	3.55	---	1.63	1.54	1.59
10	1.86	2.00	1.92	6.46	2.14	2.18	2.62	2.78	---	1.60	1.62	1.58
11	1.85	1.93	1.91	3.53	2.10	2.17	3.12	2.60	---	1.58	1.78	1.57
12	1.85	1.90	1.90	2.71	2.08	2.17	3.46	2.31	1.83	1.57	1.57	1.56
13	1.86	1.88	1.89	2.46	2.08	2.15	2.89	2.20	2.01	1.56	1.57	1.56
14	1.85	1.87	1.89	2.33	2.05	2.12	4.62	2.13	1.75	1.55	1.77	1.57
15	1.85	1.86	1.89	3.26	2.01	2.12	3.98	2.25	1.72	1.54	1.71	1.57
16	1.85	1.86	1.89	2.53	2.02	2.18	2.95	2.14	1.71	1.53	1.65	1.57
17	1.86	1.85	1.91	2.30	2.07	2.42	2.79	2.07	1.70	1.53	1.59	1.58
18	1.86	1.85	1.96	2.85	2.75	2.20	7.07	2.11	1.82	1.57	1.75	1.58
19	1.85	1.85	1.92	3.11	4.53	2.14	3.41	2.03	1.73	1.55	1.66	1.58
20	1.86	1.84	2.13	2.43	2.90	2.12	2.98	1.98	2.05	1.53	1.58	1.58
21	2.22	1.84	3.43	2.25	3.68	2.12	2.86	2.06	2.12	1.53	1.56	1.59
22	2.16	1.86	4.54	2.18	3.13	2.11	---	2.03	1.91	1.52	1.89	1.59
23	1.91	1.92	2.85	2.15	2.57	2.09	---	1.98	1.84	1.51	1.66	1.60
24	1.86	1.87	2.36	3.11	2.38	2.07	---	2.10	2.06	1.54	1.59	2.05
25	1.84	1.85	2.19	2.45	2.34	2.06	2.32	2.04	1.75	1.52	1.58	2.18
26	1.83	1.85	2.11	2.25	2.34	2.05	2.29	1.98	1.68	1.63	1.59	1.70
27	1.83	1.84	2.34	2.22	2.23	2.04	4.94	1.90	1.66	1.60	1.60	1.64
28	1.83	2.36	2.33	2.17	2.18	2.19	3.39	1.86	1.67	1.57	1.60	1.62
29	1.82	1.99	2.11	2.13	---	6.17	6.81	1.85	1.66	1.54	1.59	1.60
30	1.82	1.95	2.11	2.11	---	3.11	3.47	1.84	1.64	1.55	2.00	1.60
31	1.82	---	2.17	2.05	---	2.83	---	---	---	1.54	1.92	---
MAX	2.22	2.39	4.54	6.46	4.53	6.17	---	---	---	1.75	2.00	2.18
MIN	1.82	1.81	1.89	2.04	1.99	2.04	---	---	---	1.51	1.52	1.56

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°45'30", long 91°23'45", in lot 31, T. 3 S., R.11 E., Pointe Coupee-West Feliciana Parish line, Hydrologic Unit 08070100, at State Highway 10 Ferry Crossing, 2.0 mi southwest of St. Francisville, and at mile 266.0.

DRAINAGE AREA.--1,125,300 mi², contributing.

PERIOD OF RECORD.--Water years 1954 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1954 to September 1972, October 1974 to April 17, 1990.

WATER TEMPERATURES: August 1954 to September 1972, October 1974 to April 17, 1990.

SULFATE: October 1974 to September 1978.

CHLORIDE: October 1974 to April 17, 1990.

DISSOLVED SOLIDS: October 1978 to April 17, 1990.

REMARKS.--See records of daily discharge for Mississippi River at Tarbert Landing, MS (station 07295100). Corps of Engineers station 01100.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 683 micromhos Oct. 16, 1955; minimum daily, 173 micromhos Apr. 15, 1955.

WATER TEMPERATURES: Maximum daily, 32.0 °C July 24, 1983; minimum daily, 1.0 °C Jan. 29, 30, 1961, Dec. 25, 1989.

SULFATE: Maximum daily, 90 mg/L Oct. 14, 1957; minimum daily, 21 mg/L May 20, 1978.

CHLORIDE: Maximum daily, 63 mg/L July 5, 1977; minimum daily, 7.2 mg/L Nov. 2, 1984.

DISSOLVED SOLIDS: Maximum, 321 mg/L Jan. 21-31, 1981; minimum, 125 mg/L Mar. 1-10, 1989.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (μS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990												
30...	1000	351000	408	7.17	17.0	10	36	<1	9.2	1.5	20	780
NOV												
13...	1015	283000	414	8.04	14.5	10	26	<1	9.7	1.4	16	1400
DEC												
12...	0830	404000	387	8.04	12.5	10	60	<1	10.2	1.9	17	1600
JAN 1991												
15...	1100	1240000	232	7.27	6.0	40	70	<1	11.2	1.9	18	--
FEB												
25...	1100	881000	292	7.73	7.0	20	80	<1	11.6	--	22	1400
MAR												
12...	0930	991000	256	7.60	10.0	20	40	<1	11.0	--	18	740
APR												
02...	0945	804000	322	7.56	22.0	20	83	<1	9.4	1.7	27	500
MAY												
06...	1130	1160000	270	8.07	19.0	20	75	<1	8.0	1.7	23	1600
JUN												
17...	1115	724000	389	7.78	27.5	5	86	<1	6.3	0.8	26	440
JUL												
23...	1030	334000	425	8.11	30.0	5	35	<1	6.8	0.6	19	K90
SEP												
23...	1245	313000	433	7.56	27.0	15	20	<1	7.6	1.4	16	K80

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS, TOTAL (MG/L AS CACO3)	CALCIUM, DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT 1990												
30...	84	K40	150	40	12	20	3.5	118	55	20	<0.1	6.1
NOV 13...	K60	K30	160	41	14	--	--	125	58	20	--	--
DEC 12...	200	110	150	40	13	18	3.3	117	44	22	0.5	5.6
JAN 1991												
15...	--	--	93	26	6.8	--	--	69	24	9.4	--	--
FEB 25...	180	360	120	33	9.3	10	2.5	87	39	15	0.1	6.3
MAR 12...	84	K60	99	27	7.6	--	--	75	19	10	--	--
APR 02...	92	96	130	35	10	11	2.5	90	41	13	0.2	6.9
MAY 06...	100	980	110	29	8.9	--	--	81	18	11	--	--
JUN 17...	K60	54	150	42	12	15	2.7	116	30	22	0.2	7.3
JUL 23...	K20	K8	170	43	15	--	--	130	27	18	--	--
SEP 23...	K4	110	170	44	15	24	3.6	132	59	18	0.2	2.6
DATE	SOLIDS, RESIDUE AT 180 DEG. C, DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
OCT 1990												
30...	234	229	86	0.02	<0.01	1.3	1.3	0.02	<0.01	0.9	0.4	0.14
NOV 13...	--	--	65	0.01	--	1.4	--	--	--	--	0.29	0.16
DEC 12...	234	219	107	0.04	0.03	1.2	1.2	0.03	0.04	0.6	0.4	0.08
JAN 1991												
15...	--	--	94	0.03	--	1.0	--	--	--	--	0.49	0.21
FEB 25...	177	171	130	0.04	0.03	1.4	1.4	0.04	0.04	1.1	0.4	0.26
MAR 12...	--	--	65	E0.03	--	E1.1	--	--	--	--	E0.42	E0.15
APR 02...	196	180	81	0.06	0.03	1.7	1.5	0.04	0.01	1.1	0.7	0.21
MAY 06...	--	--	116	0.02	--	2.7	--	--	--	--	0.46	0.22
JUN 17...	220	211	176	0.05	<0.01	2.5	2.6	0.09	0.02	1.3	0.5	0.13
JUL 23...	--	--	102	<0.01	--	2.2	--	--	--	--	0.85	0.20
SEP 23...	247	250	64	0.01	<0.01	0.53	0.55	0.02	0.03	1.0	0.5	0.13

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated.

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (MG/L AS AL)	ARSENIC TOTAL (MG/L AS AS)	ARSENIC DIS- SOLVED (MG/L AS AS)	BARIUM, DIS- SOLVED (MG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (MG/L AS BE)	BERYL- LIUM, DIS- SOLVED (MG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (MG/L AS CD)	CADMIUM DIS- SOLVED (MG/L AS CD)	CHRO- MIUM, DIS- SOLVED (MG/L AS CR)
OCT 1990												
30...	0.07	0.09	0.06	<10	2	1	61	<10	<0.5	2	<1	4
NOV												
13...	--	--	--	--	2	1	--	<10	<10	<1	<1	--
DEC												
12...	0.06	0.08	0.05	--	2	1	--	<10	<0.5	<1	<1	--
JAN 1991												
15...	--	--	--	--	2	<1	--	<10	<10	<1	<1	--
FEB												
25...	0.05	0.07	0.04	20	3	<1	47	<10	<0.5	<1	<1	<1
MAR												
12...	--	--	--	--	2	<1	--	<10	<10	<1	<1	--
APR												
02...	0.04	0.07	0.04	<10	2	<1	52	<10	<0.5	<1	<1	<1
MAY												
06...	--	--	--	--	3	<1	--	<10	<10	<1	<1	--
JUN												
17...	0.12	--	0.08	--	2	2	--	<10	<0.5	<1	<1	--
JUL												
23...	--	--	--	--	3	2	--	<10	<10	<1	<1	--
SEP												
23...	0.06	0.07	0.06	<10	2	2	71	<10	<0.5	<1	<1	<1

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (MG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (MG/L AS CR)	COBALT, DIS- SOLVED (MG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (MG/L AS CU)	COPPER, DIS- SOLVED (MG/L AS CU)	IRON, DIS- SOLVED (MG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (MG/L AS PB)	LEAD, DIS- SOLVED (MG/L AS PB)	LITHIUM DIS- SOLVED (MG/L AS LI)	MANGA- NESE, DIS- SOLVED (MG/L AS MN)	MERCURY DIS- SOLVED (MG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (MG/L AS HG)
OCT 1990												
30...	1	<1	<3	8	<1	8	4	1	12	1	<0.1	<0.1
NOV												
13...	4	<1	--	4	1	<25	2	<1	--	--	<0.1	<0.1
DEC												
12...	5	<1	--	5	5	6	8	<1	--	--	<0.1	<0.1
JAN 1991												
15...	4	<1	--	8	3	70	14	<1	--	--	<0.1	0.1
FEB												
25...	5	<1	<3	16	3	44	22	2	8	3	<0.1	<0.1
MAR												
12...	5	<1	--	10	2	<25	4	<1	--	--	<0.1	<0.1
APR												
02...	4	2	<3	24	7	18	11	1	7	26	<0.1	<0.1
MAY												
06...	4	<1	--	7	4	50	5	<1	--	--	<0.1	<0.1
JUN												
17...	6	<1	--	14	4	14	8	<1	--	--	<0.1	<0.1
JUL												
23...	5	<1	--	12	8	<25	4	1	--	--	<0.1	<0.1
SEP												
23...	3	<1	<3	12	4	<3	7	<1	13	<1	<0.1	0.1

< Actual value is known to be less than the value shown.

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 1990												
30...	<10	5	4	<1	<1	<1	180	<6	10	<3	5.3	<0.01
NOV												
13...	--	3	1	<1	<1	--	--	2	10	<10	4.8	<0.01
DEC												
12...	--	11	2	<1	<1	--	--	2	20	<3	6.0	<0.01
JAN 1991												
15...	--	6	2	<1	<1	--	--	<1	30	<10	5.6	<0.01
FEB												
25...	<10	<1	1	<1	<1	<1	120	<6	20	14	6.4	<0.01
MAR												
12...	--	5	2	<1	<1	--	--	<1	20	10	4.0	<0.01
APR												
02...	<10	11	3	<1	<1	<1	130	<6	40	22	6.2	<0.01
MAY												
06...	--	6	--	<1	<1	--	--	<1	20	<10	6.2	<0.01
JUN												
17...	--	9	3	<1	1	--	--	3	20	3	7.0	<0.01
JUL												
23...	--	4	2	1	<1	--	--	2	20	<10	4.7	<0.01
SEP												
23...	<10	4	2	<1	<1	<1	200	<6	10	6	5.6	<0.01

DATE	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)
OCT 1990											
30...	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV											
13...	3	3	<0.1	<0.1	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
DEC											
12...	<1	2	<0.1	<0.1	0.010	<0.01	<0.01	<0.01	<0.01	0.03	<0.01
JAN 1991											
15...	1	--	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB											
25...	1	81	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR											
12...	4	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR											
02...	4	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY											
06...	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN											
17...	6	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL											
23...	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP											
23...	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ENDO-SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA-CHLOR, TOTAL (µG/L)	HEPTA-CHLOR EPOXIDE, TOTAL (µG/L)	LINDANE, TOTAL (µG/L)	MALA-THION, TOTAL (µG/L)	METH-OXY-CHLOR, TOTAL (µG/L)	METHYL PARA-THION, TOTAL (µG/L)	METHYL TRI-THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)
OCT 1990											
30...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV											
13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC											
12...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 1991											
15...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB											
25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR											
12...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR											
02...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY											
06...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN											
17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL											
23...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01
SEP											
23...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	PARA-THION, TOTAL (µG/L)	PER-THANE, TOTAL (µG/L)	TOX-APHENE, TOTAL (µG/L)	TOTAL TRI-THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP, TOTAL (µG/L)	2,4,5-T, TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990											
30...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	138	131000	83
NOV											
13...	<0.01	<0.01	<0.5	<0.01	0.4	<0.1	0.2	<0.1	94	71800	89
DEC											
12...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	253	276000	64
JAN 1991											
15...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	263	913000	45
FEB											
25...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	238	556000	73
MAR											
12...	<0.01	<0.01	<0.5	<0.01	<0.1	0.2	<0.1	<0.1	174	466000	47
APR											
02...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	238	517000	74
MAY											
06...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	198	621000	74
JUN											
17...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	272	532000	88
JUL											
23...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	118	106000	93
SEP											
23...	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	90	76100	93

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)

LOCATION.--Lat 30°17'00", long 91°13'21", T.9 S., R.12 E., Louisiana Meridian, Iberville Parish, Hydrologic Unit 08070100, cross section of river, at west bank ferry landing at Plaquemine, and at mile 208.0.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
OCT 1990										
30...	1300	432	7.12	17.0	10	40	<1	9.2	22	1.4
NOV										
13...	1330	418	7.86	14.5	10	29	<1	9.9	18	1.6
DEC										
12...	1230	386	7.99	13.5	10	65	<1	9.8	15	2.2
JAN 1991										
15...	1530	236	7.11	6.5	40	70	<1	11.4	22	2.3
FEB										
26...	1545	305	7.70	7.0	40	80	<1	11.0	23	--
MAR										
12...	1230	259	7.44	11.0	20	40	<1	11.0	14	--
APR										
02...	1400	320	7.49	13.5	20	75	<1	8.8	52	1.0
MAY										
07...	0930	271	7.80	19.0	20	70	<1	7.2	23	0.8
JUN										
18...	0930	418	7.82	27.0	5	75	<1	6.1	22	0.6
JUL										
24...	1030	430	8.06	30.0	5	28	<1	6.8	13	1.4
AUG										
28...	0930	550	7.88	28.0	15	11	<1	7.7	17	1.8
SEP										
24...	1000	458	7.73	27.0	10	14	<1	7.6	12	--

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
OCT 1990										
30...	940	140	150	37	13	114	63	26	97	0.01
NOV										
13...	1300	180	160	41	14	120	60	23	73	0.01
DEC										
12...	2700	380	160	40	14	118	47	22	179	0.04
JAN 1991										
15...	--	--	93	26	6.8	69	24	19	96	0.03
FEB										
26...	1600	560	110	30	9.2	84	34	14	150	0.04
MAR										
12...	1600	280	98	27	7.4	82	24	12	64	E0.03
APR										
02...	1100	120	120	33	10	90	21	16	168	0.03
MAY										
07...	1500	270	110	29	8.8	82	17	12	117	0.02
JUN										
18...	560	76	160	41	13	117	27	21	192	0.01
JUL										
24...	1200	230	170	43	14	130	26	20	74	<0.01
AUG										
28...	K1900	K1100	170	43	16	137	58	24	21	0.01
SEP										
24...	K1000	K140	160	40	15	136	58	25	32	<0.01

< Actual value is known to be less than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
OCT 1990										
30...	1.3	0.45	0.19	2	1	<10	<10	<1	<1	13
NOV										
13...	1.4	0.32	0.16	2	1	<10	<10	<1	<1	3
DEC										
12...	1.3	0.35	0.25	3	1	<10	<10	<1	<1	6
JAN 1991										
15...	1.0	0.35	0.25	3	<1	<10	<10	<1	<1	5
FEB										
26...	1.4	0.52	0.27	<1	<1	<10	<10	2	<1	6
MAR										
12...	E1.1	E0.39	E0.16	2	<1	<10	<10	<1	<1	5
APR										
02...	1.9	0.59	0.25	3	<1	<10	<10	<1	<1	6
MAY										
07...	1.6	0.45	0.20	3	1	<10	<10	<1	<1	7
JUN										
18...	2.6	0.55	0.25	5	2	<10	<10	<1	<1	9
JUL										
24...	2.4	0.80	0.10	4	2	<10	<10	2	2	5
AUG										
28...	0.79	0.55	0.13	2	1	<10	<10	<1	<1	3
SEP										
24...	0.61	<0.20	0.13	2	2	<10	<10	<1	<1	5

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
OCT 1990										
30...	<1	6	4	<25	3	<1	<0.1	<0.1	26	6
NOV										
13...	<1	4	2	<25	2	<1	<0.1	<0.1	3	1
DEC										
12...	<1	8	2	<25	5	<1	<0.1	<0.1	6	1
JAN 1991										
15...	<1	11	4	60	6	<1	<0.1	<0.1	6	1
FEB										
26...	<1	57	4	40	7	<1	<0.1	<0.1	8	2
MAR										
12...	<1	8	3	30	5	<1	<0.1	<0.1	4	1
APR										
02...	<1	18	5	30	9	<1	<0.1	<0.1	7	<1
MAY										
07...	<1	6	3	30	4	<1	<0.1	<0.1	6	--
JUN										
18...	<1	14	4	<25	8	<1	<0.1	<0.1	9	--
JUL										
24...	<1	12	--	40	5	7	<0.1	<0.1	5	3
AUG										
28...	<1	10	3	<10	3	<1	<0.1	<0.1	2	2
SEP										
24...	<1	9	6	10	6	<1	<0.1	<0.1	4	--

< Actual value is known to be less than the value shown.

E Estimated.

LOWER MISSISSIPPI RIVER BASIN

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA (CE 01170)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
OCT 1990									
30...	<1	<1	2	20	<10	5.7	<0.01	18	<1
NOV									
13...	<1	<1	2	10	<10	4.8	<0.01	4	2
DEC									
12...	<1	<1	1	20	<10	5.6	<0.01	<1	<1
JAN 1991									
15...	<1	<1	<1	30	<10	5.3	<0.01	2	<1
FEB									
26...	<1	<1	<1	30	10	6.3	<0.01	1	<1
MAR									
12...	<1	<1	<1	20	<10	4.2	<0.01	4	<1
APR									
02...	<1	<1	<1	30	<10	6.1	<0.01	4	<1
MAY									
07...	<1	<1	<1	20	<10	6.0	<0.01	3	<1
JUN									
18...	<1	<1	2	40	<10	7.8	<0.01	1	<1
JUL									
24...	<1	<1	3	20	30	5.2	<0.01	<1	<1
AUG									
28...	<1	<1	2	20	10	4.8	<0.01	4	<1
SEP									
24...	<1	<1	2	10	10	4.3	<0.01	<1	<1

< Actual value is known to be less than the value shown.

07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)

LOCATION.--Lat 30°05'52", long 90°54'45", T.11 S., R.15 E., St. James Parish, Hydrologic Unit 08070100, cross section on downstream side of Sunshine Bridge on State Highway 3089, 0.7 mi northwest of Union, and at mile 167.5.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
NOV 1990										
01...	0930	430	7.11	16.5	5	35	<1	9.3	27	1.3
14...	0930	429	8.03	15.0	5	20	<1	9.8	24	1.8
DEC										
12...	1415	406	8.15	11.0	5	55	<1	9.8	17	1.8
JAN 1991										
16...	0945	235	7.65	6.0	50	70	<1	11.2	24	2.0
FEB										
27...	1000	301	7.79	7.0	30	80	<1	11.0	25	2.4
MAR										
13...	0915	264	7.65	11.0	15	40	<1	10.6	13	2.3
APR										
03...	0945	325	7.50	13.5	20	75	<1	9.4	23	--
MAY										
07...	1115	263	7.85	19.0	20	70	<1	7.2	23	0.9
JUN										
18...	1100	411	7.80	27.0	5	70	<1	6.1	21	0.8
JUL										
24...	1315	430	8.01	30.0	5	21	<1	6.1	<10	0.1
AUG										
28...	1115	454	8.19	28.0	10	4.7	<1	8.2	18	2.2
SEP										
24...	1130	418	7.85	27.5	15	10	<1	7.4	10	--

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
NOV 1990										
01...	700	110	150	38	13	120	63	26	105	0.01
14...	760	220	160	41	14	121	60	24	46	0.01
DEC										
12...	1800	170	160	41	14	122	49	26	154	0.03
JAN 1991										
16...	4600	280	94	26	7.1	70	27	10	120	0.03
FEB										
27...	1900	340	120	32	9.6	86	37	15	156	0.04
MAR										
13...	1000	260	99	27	7.6	76	24	14	87	0.03
APR										
03...	1400	230	120	33	10	90	28	18	156	0.03
MAY										
07...	1000	K190	110	28	8.6	82	17	11	120	0.02
JUN										
18...	680	120	150	40	13	111	25	23	185	0.01
JUL										
24...	640	130	170	43	14	130	26	19	63	<0.01
AUG										
28...	310	270	170	42	16	134	56	24	1	<0.01
SEP										
24...	350	K130	150	38	14	127	49	26	18	0.01

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

LOWER MISSISSIPPI RIVER BASIN

07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
NOV 1990										
01...	1.4	0.61	0.18	1	1	<10	<10	<1	<1	6
14...	1.4	0.44	0.14	2	1	<10	<10	<1	<1	3
DEC										
12...	1.4	0.30	0.21	3	1	<10	<10	<1	<1	4
JAN 1991										
16...	1.0	0.79	0.30	3	<1	<10	<10	<1	<1	5
FEB										
27...	1.5	0.50	0.22	3	<1	<10	<10	<1	<1	5
MAR										
13...	1.1	0.78	0.20	2	<1	<10	<10	<1	<1	5
APR										
03...	1.8	0.51	0.27	3	<1	<10	<10	<1	<1	6
MAY										
07...	1.6	0.44	0.21	3	<1	<10	<10	<1	<1	4
JUN										
18...	2.6	0.63	0.26	4	2	<10	<10	<1	<1	9
JUL										
24...	2.3	0.56	0.10	3	2	<10	<10	<1	<1	5
AUG										
28...	0.75	0.50	0.11	2	2	<10	<10	<1	<1	3
SEP										
24...	0.62	<0.20	--	2	2	<10	<10	<1	<1	3

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
NOV 1990										
01...	<1	19	5	<25	7	<1	<0.1	<0.1	4	2
14...	<1	4	2	<25	2	<1	<0.1	<0.1	3	<1
DEC										
12...	<1	7	4	<25	6	<1	<0.1	<0.1	5	2
JAN 1991										
16...	<1	8	3	50	11	<1	<0.1	--	8	2
FEB										
27...	<1	--	5	40	6	<1	<0.1	<0.1	5	2
MAR										
13...	<1	6	3	40	5	<1	<0.1	<0.1	4	2
APR										
03...	<1	12	4	<25	12	<1	<0.1	<0.1	6	1
MAY										
07...	<1	7	3	40	6	<1	<0.1	<0.1	6	6
JUN										
18...	<1	19	5	<25	7	<1	<0.1	<0.1	7	6
JUL										
24...	<1	10	6	<25	5	<1	<0.1	<0.1	4	3
AUG										
28...	<1	9	3	10	2	<1	<0.1	<0.1	--	5
SEP										
24...	<1	10	3	<10	2	<1	<0.1	<0.1	2	2

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

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07374220 MISSISSIPPI RIVER AT UNION, LA (CE 01222)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
NOV 1990									
01...	<1	<1	2	20	10	6.0	<0.01	<1	<1
14...	<1	<1	1	10	<10	4.5	<0.01	5	<1
DEC									
12...	<1	<1	1	10	<10	5.0	0.02	<1	2
JAN 1991									
16...	<1	<1	<1	30	<10	5.4	<0.01	7	<1
FEB									
27...	<1	<1	<1	30	<10	6.3	<0.01	1	<1
MAR									
13...	<1	<1	<1	20	10	4.3	<0.01	<1	<1
APR									
03...	<1	<1	<1	30	<10	5.5	<0.01	6	<1
MAY									
07...	<1	<1	<1	20	<10	9.2	<0.01	4	<1
JUN									
18...	<1	<1	2	30	10	7.4	<0.01	4	<1
JUL									
24...	<1	<1	3	20	10	4.8	<0.01	<1	<1
AUG									
28...	<1	<1	2	20	10	4.8	<0.01	5	<1
SEP									
24...	<1	<1	3	10	10	4.3	<0.01	<1	<1

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374400 MISSISSIPPI RIVER AT LULING, LA (CE 01290)

LOCATION.--Lat 29°56'19", long 90°21'49", T.13 S., R.21 E., St. Charles Parish, Hydrologic Unit 08090100, cross section of river at Luling-Destrehan ferry crossing, 17 mi west of New Orleans, and at mile 120.6.

DRAINAGE AREA.--1,125,800 mi², arbitrarily determined.

PERIOD OF RECORD.--Water years 1958 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1957 to September 1972, October 1974 to September 1975, October 1976 to April 19, 1990.

WATER TEMPERATURES: October 1957 to September 1972, October 1977 to April 19, 1990.

CHLORIDE: October 1974 to September 1975, October 1976 to April 19, 1990.

SULFATE: October 1974 to September 1975, October 1976 to September 1978.

DISSOLVED SOLIDS: October 1978 to April 19, 1990.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 636 micromhos Oct. 12, 1959; minimum daily, 194 micromhos Dec. 18, 1983.

WATER TEMPERATURES: Maximum daily, 38.5 °C July 6, 7, 13, 1984; minimum daily, 2.0 °C Jan. 14, 15, 1984.

CHLORIDE: Maximum daily, 69 mg/L June 24, 1977; minimum daily, 11 mg/L Mar. 22, 1975, June 12, 1983, Mar. 7-10, 12-16, 1989.

SULFATE: Maximum daily, 89 mg/L Oct. 10, 1977; minimum daily, 20 mg/L Feb. 8, Apr. 26, 1978.

DISSOLVED SOLIDS: Maximum, 339 mg/L Nov. 21-30, 1978; minimum, 151 mg/L Mar. 11-20, 1989, Feb. 11-20, 1990.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

CHLORIDE: Minimum, 8.3 mg/L Dec. 20, 1988.

SULFATE: Minimum, 20 mg/L Mar. 13, 1991.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
NOV 1990										
01...	1200	440	7.13	18.0	5	30	<1	9.4	29	1.6
14...	1200	434	8.01	15.5	5	18	<1	9.9	14	2.1
DEC										
12...	1610	408	8.05	11.0	5	36	<1	9.7	11	1.8
JAN 1991										
16...	1215	239	7.60	13.5	50	75	<1	11.2	18	2.0
FEB										
27...	1130	309	7.60	7.0	40	85	<1	11.1	23	3.1
MAR										
13...	1300	271	7.46	11.0	20	45	<1	11.0	13	2.5
APR										
03...	1210	326	7.52	13.5	20	75	<1	9.1	28	--
MAY										
07...	1340	279	7.40	19.5	20	75	<1	7.0	23	0.6
JUN										
18...	1330	395	7.81	27.0	5	65	<1	6.1	21	0.6
JUL										
24...	1500	441	7.92	30.0	5	9.3	<1	6.0	13	0.2
AUG										
28...	1400	461	8.18	30.0	10	5.0	<1	7.5	22	1.6
SEP										
25...	0930	442	7.69	27.0	15	10	<1	7.4	10	1.0

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

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07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COLI-FORM, TOTAL, IMMEDIATE (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS. / 100 ML)	HARDNESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)
NOV 1990										
01...	540	88	150	39	13	113	62	29	86	0.01
14...	560	K68	160	40	14	117	59	26	42	0.01
DEC										
12...	1600	62	160	41	14	123	47	28	98	0.03
JAN 1991										
16...	3700	260	94	26	7.0	71	24	10	143	0.03
FEB										
27...	--	300	110	29	9.2	87	29	16	175	0.04
MAR										
13...	1400	110	99	27	7.6	84	20	12	80	0.03
APR										
03...	1400	130	130	34	10	89	33	16	165	0.03
MAY										
07...	1100	210	110	30	9.4	83	24	12	146	0.02
JUN										
18...	460	110	140	37	12	102	35	20	167	0.01
JUL										
24...	310	250	170	43	14	136	23	22	10	<0.01
AUG										
28...	480	130	170	42	16	134	53	26	2	0.01
SEP										
25...	--	--	150	38	14	127	48	29	18	0.05

DATE	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS-SOLVED (µG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (µG/L AS BE)	BERYLLIUM, DIS-SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOVERABLE (µG/L AS CD)	CADMIUM DIS-SOLVED (µG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (µG/L AS CR)
NOV 1990										
01...	1.3	0.51	0.17	2	1	<10	<10	<1	<1	5
14...	1.5	0.44	0.14	1	<1	<10	<10	<1	<1	3
DEC										
12...	1.6	0.58	0.16	2	1	<10	<10	<1	<1	4
JAN 1991										
16...	1.0	0.41	0.32	3	<1	<10	<10	<1	<1	7
FEB										
27...	1.5	0.66	0.30	4	2	<10	<10	<1	<1	6
MAR										
13...	1.1	0.43	0.20	2	<1	<10	<10	<1	<1	4
APR										
03...	1.8	0.69	0.29	3	<1	<10	<10	<1	<1	6
MAY										
07...	1.7	0.35	0.27	3	1	<10	<10	<1	<1	7
JUN										
18...	2.5	0.58	0.34	4	2	<10	<10	<1	<1	10
JUL										
24...	2.7	0.47	0.15	2	2	<10	<10	<1	<1	2
AUG										
28...	0.72	0.55	0.12	2	1	<10	<10	<1	<1	3
SEP										
25...	0.70	0.20	0.12	2	2	<10	<10	<1	<1	4

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

LOWER MISSISSIPPI RIVER BASIN

07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	CHROMIUM, HEXAVALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOVERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOVERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOVERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOVERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
NOV 1990										
01...	<1	26	4	<25	8	<1	<0.1	<0.1	5	2
14...	<1	3	2	<25	1	<1	<0.1	<0.1	2	<1
DEC										
12...	<1	5	2	<25	3	<1	<0.1	<0.1	4	2
JAN 1991										
16...	<1	10	3	70	7	<1	<0.1	<0.1	9	1
FEB										
27...	<1	35	7	30	14	<1	<0.1	<0.1	8	1
MAR										
13...	<1	12	4	<25	5	<1	<0.1	<0.1	5	1
APR										
03...	<1	15	4	<25	16	<1	<0.1	<0.1	7	1
MAY										
07...	<1	7	3	40	7	<1	<0.1	<0.1	6	7
JUN										
18...	<1	43	5	<25	7	<1	<0.1	<0.1	8	3
JUL										
24...	<1	4	5	<25	1	<1	<0.1	<0.1	2	3
AUG										
28...	<1	14	4	<10	3	<1	<0.1	<0.1	4	2
SEP										
25...	<1	19	6	10	5	<1	<0.1	<0.1	2	2

DATE	SELENIUM, TOTAL (µG/L AS SE)	SELENIUM, DIS- SOLVED (µG/L AS SE)	VANADIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOVERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOVERABLE GRAVIMETRIC (MG/L)
NOV 1990									
01...	<1	<1	2	20	<10	5.4	<0.01	6	1
14...	<1	<1	2	10	10	4.5	<0.01	2	1
DEC									
12...	<1	<1	1	10	<10	4.9	<0.01	2	2
JAN 1991									
16...	<1	<1	<1	30	<10	6.0	<0.01	6	<1
FEB									
27...	<1	<1	1	30	<10	5.8	0.02	1	<1
MAR									
13...	<1	<1	<1	20	<10	4.5	<0.01	5	<1
APR									
03...	<1	<1	<1	30	<10	5.6	<0.01	2	2
MAY									
07...	<1	<1	1	20	<10	6.4	<0.01	1	<1
JUN									
18...	<1	<1	1	40	<10	6.6	<0.01	<1	<1
JUL									
24...	<1	<1	3	10	10	4.1	<0.01	<1	<1
AUG									
28...	<1	<1	2	20	10	4.9	<0.01	3	<1
SEP									
25...	<1	<1	3	20	10	4.0	<0.01	<1	<1

< Actual value is known to be less than the value shown.

07374400 MISSISSIPPI RIVER AT LULING, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

		ACE-NAPHTH-YLENE BOT.MAT (µG/KG)	ACE-NAPHTH-ENE BOT.MAT (µG/KG)	ANTHRA-CENE BOT.MAT (µG/KG)	BENZO B FLUOR-AN-THENE BOT.MAT (µG/KG)	BENZO K FLUOR-AN-THENE BOT.MAT (µG/KG)	BENZO-A-PYRENE BOT.MAT (µG/KG)	(2-CHLORO-ETHYL) ETHER BOT.MAT (µG/KG)	BIS (2-CHLORO-ETHOXY) METHANE BOT.MAT (µG/KG)	BIS CHLORO-ISO-PROPYL) ETHER BOT.MAT (µG/KG)			
SEP 1991 25...	0930	<220	<220	<220	<420	<420	<420	<220	<220	<220			
DATE	TIME	N-BUTYL BENZYL PHTHAL-ATE BOT.MAT (µG/KG)	CHRY-SENE BOT.MAT (µG/KG)	DIETHYL PHTHAL-ATE BOT.MAT (µG/KG)	DI-METHYL PHTHAL-ATE BOT.MAT (µG/KG)	FLUOR-ANTHENE BOT.MAT (µG/KG)	FLUOR-ENE BOT.MAT (µG/KG)	HEXA-CHLORO-CYCLO-PENT-ADIENE BOT.MAT (µG/KG)	HEXA-CHLORO-ETHANE BOT.MAT (µG/KG)	INDENO (1,2,3-CD) PYRENE BOT.MAT (µG/KG)	ISO-PHORONE BOT.MAT (µG/KG)	N-NITRO-SODI-N-PROPYL-AMINE BOT.MAT (µG/KG)	N-NITRO-SODI-N-PROPYL-LAMINE BOT.MAT (µG/KG)
SEP 1991 25...		<220	<420	<220	<220	<220	<220	<220	<220	<420	<220	<220	<220
DATE		NAPHTH-ALENE BOT.MAT (µG/KG)	NITRO-BENZENE BOT.MAT (µG/KG)	PARA-CHLORO-META-CRESOL BOT.MAT (µG/KG)	PHENAN-THRENE BOT.MAT (µG/KG)	PYRENE BOT.MAT (µG/KG)	BENZOGH I PERYL ENE1,12-BENZOP ERYLENE BOT.MAT (µG/KG)	BENZO A ANTHRAC ENE1,2-BENZANT HRACENE BOT.MAT (µG/KG)	1,2,4-TRI-CHLORO-BENZENE BOT.MAT (µG/KG)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT.MAT (µG/KG)	1,3-DI-CHLORO-BENZENE BOT.MAT (µG/KG)	1,4-DI-CHLORO-BENZENE BOT.MAT (µG/KG)	2-CHLORO-NAPH-THALENE BOT.MAT (µG/KG)
SEP 1991 25...		<220	<320	<1300	<220	<220	<420	<220	<220	<420	<220	<220	<220
DATE		2-CHLORO-PHENOL BOT.MAT (µG/KG)	2-NITRO-PHENOL BOT.MAT (µG/KG)	DI-N-OCTYL PHTHAL-ATE BOT.MAT (µG/KG)	2,4-DI-CHLORO-PHENOL BOT.MAT (µG/KG)	2,4-DP,IN BOTTOM MAT. (µG/KG)	2,4-DI-NITRO-TOLUENE BOT.MAT (µG/KG)	2,4-DI-NITRO-PHENOL BOT.MAT (µG/KG)	2,4,6-TRI-CHLORO-PHENOL BOT.MAT (µG/KG)	2,6-DI-NITRO-TOLUENE BOT.MAT (µG/KG)	3,3'-DI-CHLORO-BENZI-DINE BOT.MAT (µG/KG)	4-BROMO-PHENYL BOT.MAT (µG/KG)	4-CHLORO-PHENYL BOT.MAT (µG/KG)
SEP 1991 25...		<220	<220	<420	<220	<220	<220	<850	<850	<220	<1100	<220	<220
DATE		4-NITRO-PHENOL BOT.MAT (µG/KG)	4,6-DINITRO-ORTHOCRESOL BOT.MAT (µG/KG)	PHENOL (C6H-5OH) BOT.MAT (µG/KG)	PENTA-CHLORO-PHENOL BOT.MAT (µG/KG)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE BOT.MAT (µG/KG)	DI-N-BUTYL PHTHAL-ATE BOT.MAT (µG/KG)	BENZI-DINE BOT.MAT (µG/KG)	PCN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)
SEP 1991 25...		<1300	<1300	<220	<1300	<220	<220	<2200	<100	<10	<10	<10	<10
DATE		DDE, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	HEPTA-CHLOR-EPOXIDE TOT. IN BOT-TOM MA-TERIAL (µG/KG)	METH-OXY-CHLOR, TOT. IN BOT-TOM MA-TERIAL (µG/KG)	PCB, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	
SEP 1991 25...		<10	<10	<10	<10	<10	<10	<500	<10	<10	<10	<100	
DATE		MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	METHYL-PARA-THION, TOT. IN BOTTOM MATL. (µG/KG)	HEXA-CHLORO-BENZENE TOT. IN BOTTOM MATL. (µG/KG)	HEXA-CHLORO-BUT-ADIENCE BOT.MAT (µG/KG)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (µG/KG)	METHYL-TRI-THION, TOT. IN BOTTOM MATL. (µG/KG)	PER-THANE TOT. IN BOT-TOM MA-TERIAL (µG/KG)		
SEP 1991 25...		<10	<10	<10	<10	<220	<220	<10	<10	<10	<10		

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 29°51'25", long 89°58'40", in lot 20, T.14 S., R.12 E., Plaquemines Parish, Hydrologic Unit 08090100, at ferry crossing at Belle Chasse and at mile 76.0.

DRAINAGE AREA.--1,125,930 mi², arbitrarily determined.

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to May 1990.

WATER TEMPERATURES: October 1975 to May 1990.

CHLORIDE: October 1974 to May 1990.

SULFATE: October 1974 to September 1978.

DISSOLVED SOLIDS: October 1978 to May 1990.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A temperature of 1.5 °C was observed on Feb. 9, 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 692 microsiemens Jan. 31, 1981; minimum daily, 223 microsiemens Mar. 7, 1989.

WATER TEMPERATURES: Maximum daily, 38.0 °C June 9, 1984; minimum daily, 2.0 °C Feb. 7, 1984.

CHLORIDE: Maximum daily, 85 mg/L June 26, 27, 1977; minimum daily, 11 mg/L Apr. 21, May 12, 1975, May 12, 1984, Mar. 7, 1989.

SULFATE: Maximum daily, 93 mg/L Oct. 30, 1976; minimum daily, 28 mg/L Feb. 3, 1975.

DISSOLVED SOLIDS: Maximum, 415 mg/L Nov. 1-10, 1988; minimum, 145 mg/L Feb. 21-28, 1989, Mar. 1-10, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)
NOV 1990											
02...	0830	462	7.28	17.0	5	26	8.9	1.1	--	110	160
DEC											
13...	1215	457	8.15	13.0	5	45	9.1	1.2	200	110	170
FEB 1991											
28...	0845	310	7.69	8.0	30	85	11.0	2.5	200	--	120
APR											
03...	1540	325	7.55	13.5	20	65	8.6	2.3	200	320	130
03...	1545	332	7.80	13.5	20	75	--	--	360	260	130
MAY											
07...	1730	279	7.44	19.5	20	80	7.1	0.8	220	920	110
07...	1731	277	7.80	19.5	--	80	--	--	--	--	110
JUN											
19...	0730	374	7.87	27.0	0	66	6.3	1.5	460	480	150
JUL											
25...	0815	489	7.94	29.5	5	17	5.9	--	260	140	180
AUG											
29...	1030	500	8.09	30.0	15	2.0	7.2	1.7	360	K40	170

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 1990										
02...	42	14	29	3.9	114	57	31	0.4	6.3	258
DEC										
13...	43	14	27	3.3	122	44	36	0.1	6.0	270
FEB 1991										
28...	33	9.4	14	2.5	85	37	15	0.2	6.6	182
APR										
03...	34	9.8	13	2.8	86	42	17	0.2	6.4	185
03...	34	9.8	13	2.6	88	35	16	0.2	6.4	172
MAY										
07...	30	8.7	10	2.8	83	33	15	0.2	6.7	164
07...	30	8.6	9.8	2.6	84	29	13	0.2	7.2	--
JUN										
19...	39	12	17	3.3	107	31	24	0.4	7.1	206
JUL										
25...	49	15	23	3.7	136	46	31	0.4	7.7	268
AUG										
29...	45	15	29	3.7	136	60	35	0.5	--	281

K Results based on colony count outside the acceptable range (non-ideal colony count).

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
NOV 1990										
02...	253	<0.01	1.3	0.03	0.01	0.8	0.18	0.07	0.04	0.08
DEC										
13...	248	<0.01	0.30	0.02	0.03	0.8	0.15	0.05	0.07	<0.01
FEB 1991										
28...	175	<0.03	1.4	0.08	0.04	1.0	0.10	0.04	0.07	0.05
APR										
03...	186	0.02	1.6	0.06	0.02	0.9	0.19	0.07	0.10	0.08
03...	177	0.02	1.5	0.05	<0.01	0.8	0.25	0.06	0.11	0.06
MAY										
07...	162	<0.01	1.6	0.08	<0.01	0.6	0.20	0.09	0.17	0.06
07...	158	<0.01	1.6	0.08	<0.01	0.6	0.18	0.08	0.18	0.07
JUN										
19...	210	<0.01	2.4	0.06	0.02	1.1	0.19	0.13	0.20	0.11
JUL										
25...	268	<0.01	2.5	<0.01	0.02	0.5	0.19	0.14	0.13	0.11
AUG										
29...	271	--	--	--	--	--	--	--	--	--

DATE	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)
NOV 1990										
02...	10	1	67	<0.5	<1	<1	<3	4	8	<1
FEB 1991										
28...	20	<1	49	<0.5	<1	<1	<3	2	40	1
APR										
03...	40	<1	46	<0.5	<1	<1	<3	5	29	1
JUL										
25...	20	2	72	<0.5	<1	<1	<3	4	17	<1
AUG										
29...	20	2	72	<0.5	<1	<1	<3	5	<3	<1

DATE	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)
NOV 1990										
02...	10	2	<0.1	<10	3	<1	<1	200	<6	4
FEB 1991										
28...	6	8	0.1	<10	1	<1	<1	130	<6	<3
APR										
03...	5	3	<0.1	<10	2	<1	<1	130	<6	6
JUL										
25...	8	2	<0.1	<10	3	<1	<1	170	<6	28
AUG										
29...	16	<1	<0.1	<10	3	<1	<1	190	<6	7

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374525 MISSISSIPPI RIVER AT BELLE CHASSE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (µG/L)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L)	URANIUM NATURAL 2 SIGMA WATER, DISS, (µG/L)	RA-226 2 SIGMA WATER, DISS, (PCI/L)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L)
NOV 1990 02...	1.5	0.8	0.9	1.1	<1	0.02	1.1	0.8
APR 1991 03...	1.3	0.8	0.8	1.3	<1	0.01	3.7	1.3

DATE	GROSS ALPHA, DIS- SOLVED (µG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (µG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (µG/L AS U)
NOV 1990 02...	1.1	1.3	2.6	2.4	2.0	2.3	0.13	1.1
APR 1991 03...	1.2	7.0	4.5	5.1	3.4	4.6	0.06	0.59

DATE	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 1990 02...	349000	77	72600	93
14...	200000	--	--	--
DEC 13...	400000	110	119000	99
JAN 1991 16...	840000	--	--	--
FEB 28...	801000	--	--	--
MAR 13...	889000	--	--	--
APR 03...	767000	262	542000	76
MAY 07...	1060000	301	862000	63
JUN 19...	650000	217	381000	89
JUL 25...	334000	72	64900	98
AUG 29...	--	28	--	100

< Actual value is known to be less than the value shown.

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)

LOCATION.--Lat 29°16'26", long 89°21'00", T.21 S., R.31 E., Plaquemines Parish, Hydrologic Unit 08090100, cross section of river at Venice and at mile 10.7.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)
NOV 1990										
02...	1200	985	7.29	17.0	5	15	<1	8.8	24	1.0
15...	0900	998	7.99	16.0	5	9.5	<1	10.6	12	2.4
DEC										
20...	1215	406	7.85	12.0	5	40	<1	8.9	23	0.9
JAN 1991										
17...	0945	238	7.63	6.0	40	100	<1	11.2	26	2.8
FEB										
28...	1300	312	7.65	8.0	50	85	<1	11.5	18	2.5
MAR										
14...	0945	265	7.64	11.0	20	50	<1	10.0	11	1.4
APR										
04...	0945	338	7.49	14.0	20	75	<1	9.2	24	2.3
MAY										
08...	1100	279	7.39	20.0	20	85	<1	7.0	25	1.0
JUN										
19...	1330	354	7.78	27.0	5	70	<1	6.1	21	1.1
JUL										
25...	1230	490	7.88	--	5	10	<1	6.1	<10	0.5
AUG										
29...	1330	1530	7.98	30.0	10	2.1	<1	7.3	33	1.3
SEP										
26...	1030	2800	8.16	26.5	15	3.4	<1	6.4	33	1.0

DATE	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
NOV 1990										
02...	--	88	200	41	24	117	86	160	42	0.01
15...	700	100	210	42	25	111	88	180	26	0.01
DEC										
20...	430	130	150	39	13	116	47	24	85	0.02
JAN 1991										
17...	4100	500	90	25	6.8	73	25	12	254	0.03
FEB										
28...	2600	160	110	30	9.2	84	24	18	178	0.05
MAR										
14...	2200	290	99	27	7.7	74	22	14	108	0.03
APR										
04...	1100	240	130	34	10	90	37	21	179	0.03
MAY										
08...	1400	440	110	28	9.1	84	22	12	166	0.02
JUN										
19...	840	230	140	37	11	104	15	19	181	0.01
JUL										
25...	520	150	170	44	15	132	27	28	14	<0.01
AUG										
29...	160	83	310	50	45	138	110	420	5	0.03
SEP										
26...	6000	850	380	52	61	127	160	720	22	0.07

< Actual value is known to be less than the value shown.

LOWER MISSISSIPPI RIVER BASIN

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)
NOV 1990										
02...	1.1	0.33	0.13	1	2	<10	<10	<1	<1	4
15...	1.5	0.33	0.12	1	1	<10	<10	<1	<1	3
DEC										
20...	1.3	0.34	0.21	2	1	<10	<10	<1	<1	4
JAN 1991										
17...	1.0	0.57	0.38	4	<1	<10	<10	<1	<1	11
FEB										
28...	1.5	0.76	0.32	4	<1	<10	<10	<1	<1	7
MAR										
14...	1.1	0.65	0.25	2	<1	<10	<10	<1	<1	6
APR										
04...	1.8	0.71	0.32	3	<1	<10	<10	<1	<1	6
MAY										
08...	1.6	0.49	0.30	4	1	<10	<10	<1	<1	6
JUN										
19...	2.4	0.58	0.32	5	1	<10	<10	1	<1	8
JUL										
25...	2.9	0.44	0.20	3	2	<10	<10	<1	<1	3
AUG										
29...	0.88	0.46	0.13	2	2	<10	<10	<1	<1	<1
SEP										
26...	0.78	<0.20	0.12	2	2	<10	<10	<1	<1	2

DATE	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)
NOV 1990										
02...	<1	15	4	<25	5	<1	0.1	<0.1	3	2
15...	<1	3	2	<25	1	<1	<0.1	<0.1	2	1
DEC										
20...	<1	4	2	<25	3	<1	<0.1	<0.1	4	1
JAN 1991										
17...	<1	12	3	50	10	<1	<0.1	<0.1	11	1
FEB										
28...	<1	17	4	50	9	<1	<0.1	<0.1	9	2
MAR										
14...	<1	8	2	40	4	<1	<0.1	<0.1	6	2
APR										
04...	<1	10	3	30	7	<1	<0.1	<0.1	7	1
MAY										
08...	<1	7	2	50	5	<1	<0.1	<0.1	5	3
JUN										
19...	<1	14	4	<25	7	<1	<0.1	<0.1	8	8
JUL										
25...	<1	4	4	<25	<1	<1	<0.1	<0.1	2	2
AUG										
29...	<1	2	3	10	<1	<1	<0.1	<0.1	1	1
SEP										
26...	<1	7	3	<10	3	<1	<0.1	<0.1	2	1

< Actual value is known to be less than the value shown.

07374550 MISSISSIPPI RIVER AT VENICE, LA (CE 01480)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)
NOV 1990									
02...	<1	<1	2	20	<10	4.7	<0.01	<1	<1
15...	<1	<1	2	<10	10	4.2	<0.01	4	--
DEC									
20...	<1	<1	1	10	<10	5.0	<0.01	<1	2
JAN 1991									
17...	<1	<1	<1	40	<10	7.0	<0.01	3	<1
FEB									
28...	<1	<1	1	30	<10	6.5	<0.01	3	<1
MAR									
14...	<1	<1	<1	20	<10	4.5	<0.01	1	<1
APR									
04...	<1	<1	<1	30	<10	5.4	<0.01	3	<1
MAY									
08...	<1	<1	1	20	<10	6.6	<0.01	2	<1
JUN									
19...	<1	<1	1	30	<10	6.7	<0.01	6	<1
JUL									
25...	<1	<1	4	10	10	4.0	<0.01	<1	<1
AUG									
29...	<1	<1	2	10	10	3.8	<0.01	3	<1
SEP									
26...	<1	<1	2	20	10	3.7	<0.01	<1	<1

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07375000 TCHEFUNCTA RIVER NEAR FOLSOM, LA

LOCATION.--Lat 30°36'57", long 90°14'55", on line between SE 1/4 NE 1/4 and SW 1/4 NE 1/4 sec.13, T.5 S., R.9 E., St. Helena Meridian, Tangipahoa Parish, Hydrologic Unit 08090201, near center of span on downstream side of bridge on State Highway 40, 1.2 mi upstream from Bull Branch, and 3.6 mi southwest of Folsom.

DRAINAGE AREA.--95.5 mi², not including Bull Branch which has a drainage area of 7.5 mi² at State Highway 40. Total drainage area for extreme floods is 103 mi².

PERIOD OF RECORD.--October 1943 to current year. Prior to January 1944 monthly discharge only, published in WSP 1311. Prior to October 1954, published as Chefuncte River near Folsom.

REVISED RECORDS.--WSP 1057: 1944(M), 1945. WDR LA-83-2: 1948(M), 1953(M), 1961(M), 1962(M), 1973(M), 1977(M).

GAGE.--Water-stage recorder. Datum of gage is 62.11 ft above National Geodetic Vertical Datum of 1929. Prior to June 9, 1944, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 6	1900	2.970	16.75	May 10	1141	*2,990	*16.77
Feb. 22	1530	1.550	14.29	July 8	1600	1,440	14.01
May 1	0502	1.370	13.81				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	45	65	58	405	189	79	1220	168	87	64	76
2	43	45	60	57	205	528	73	580	128	79	63	80
3	43	45	143	60	151	1130	71	238	109	78	61	69
4	43	45	378	75	129	810	69	197	98	119	60	63
5	47	46	372	71	434	465	68	522	91	198	62	61
6	47	48	117	65	2360	245	67	729	89	163	62	62
7	45	48	86	67	1650	191	67	375	86	418	65	69
8	44	47	75	92	591	157	69	306	83	1360	61	129
9	44	53	69	71	271	133	78	1460	79	852	62	146
10	44	81	65	96	195	117	74	2900	78	298	60	79
11	45	70	62	472	158	105	85	2280	106	153	59	66
12	47	54	60	747	134	98	86	1530	150	117	61	61
13	45	51	59	466	122	97	77	612	110	99	60	58
14	45	49	58	192	121	103	72	270	133	89	58	57
15	44	49	58	144	118	94	295	193	126	84	57	56
16	43	48	57	169	102	90	771	169	91	80	57	55
17	42	48	57	144	93	163	461	144	86	78	56	54
18	43	48	57	112	92	268	216	144	117	164	56	54
19	43	48	63	139	92	169	425	209	114	157	55	59
20	42	48	69	230	336	125	472	172	158	158	55	75
21	43	47	62	153	706	108	282	160	106	101	54	58
22	50	48	62	115	1280	100	167	204	102	96	53	54
23	63	49	107	98	1280	94	129	168	94	84	53	53
24	53	49	99	203	735	89	117	136	140	78	52	54
25	48	50	75	551	312	84	178	243	227	77	52	82
26	46	49	66	552	211	80	485	708	109	72	52	77
27	46	49	63	251	166	77	467	780	177	70	60	63
28	46	56	62	190	140	76	300	613	172	69	62	56
29	45	115	61	187	---	82	262	597	143	67	62	54
30	45	97	60	243	---	118	861	331	110	69	65	53
31	45	---	59	464	---	97	---	259	---	66	67	---
TOTAL	1412	1625	2806	6534	12589	6282	6923	18449	3580	5680	1826	2033
MEAN	45.5	54.2	90.5	211	450	203	231	595	119	183	58.9	67.8
MAX	63	115	378	747	2360	1130	861	2900	227	1360	67	146
MIN	42	45	57	57	92	76	67	136	78	66	52	53
CFSM	.44	.53	.88	2.05	4.37	1.97	2.24	5.78	1.16	1.78	.57	.66
IN.	.51	.59	1.01	2.36	4.55	2.27	2.50	6.66	1.29	2.05	.66	.73

07375000 TCHEFUNCTA RIVER NEAR FOLSOM, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1991, BY WATER YEAR (WY)

MEAN	64.6	123	193	204	304	254	251	163	92.3	92.3	93.0	93.5
MAX	216	800	866	530	1257	621	1227	853	373	302	426	419
(WY)	1978	1962	1954	1990	1961	1973	1983	1953	1959	1949	1983	1977
MIN	32.0	39.5	51.3	57.7	57.7	53.6	50.6	44.8	35.5	36.8	34.3	31.1
(WY)	1969	1982	1970	1957	1968	1955	1963	1963	1968	1968	1968	1968

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1944 - 1991

ANNUAL TOTAL	71973		69739									
ANNUAL MEAN	197		191									
HIGHEST ANNUAL MEAN									160			
LOWEST ANNUAL MEAN									313		1949	
HIGHEST DAILY MEAN	2680	Jan 26	2900	May 10	15100	Feb 22	1961		62.5		1968	
LOWEST DAILY MEAN	42	Oct 17	42	Oct 17	.00	Jun 5	1981		28		Sep 9	1968
ANNUAL SEVEN-DAY MINIMUM	43	Oct 15	43	Oct 15	a29800	Apr 5	1983		24.12		Apr 5	1983
INSTANTANEOUS PEAK FLOW			16.77	May 10	26	Sep 4,15	1968		4.75		Oct 4,5,6	1986
INSTANTANEOUS PEAK STAGE			34	Oct 17					1.55			
INSTANTANEOUS LOW FLOW			5.00	Oct 17					21.08			
INSTANTANEOUS LOW STAGE			1.91						300			
ANNUAL RUNOFF (CFSM)	25.99		1.86						70			
ANNUAL RUNOFF (INCHES)	428		25.19						43			
10 PERCENT EXCEEDS	69		464									
50 PERCENT EXCEEDS	45		84									
90 PERCENT EXCEEDS			48									

a From rating curve extended above 13,000 ft³/s by slope conveyance measurement at gage height of 24.12 ft.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.19	5.21	5.57	5.44	9.14	7.21	5.80	13.33	7.02	5.93	5.55	5.75
2	5.18	5.20	5.48	5.42	7.42	9.99	5.70	10.28	6.52	5.80	5.52	5.82
3	5.17	5.20	6.62	5.47	6.83	13.04	5.66	7.76	6.25	5.78	5.50	5.63
4	5.18	5.21	8.94	5.73	6.55	11.66	5.63	7.34	6.09	6.39	5.49	5.54
5	5.25	5.23	8.84	5.67	8.90	9.56	5.62	9.88	5.99	7.33	5.51	5.49
6	5.25	5.26	6.36	5.56	15.78	7.83	5.60	11.22	5.95	6.92	5.52	5.51
7	5.21	5.25	5.91	5.61	14.33	7.27	5.59	8.89	5.90	8.92	5.57	5.64
8	5.19	5.24	5.73	6.00	10.36	6.90	5.64	8.29	5.86	13.80	5.50	6.45
9	5.19	5.35	5.64	5.67	8.08	6.60	5.78	13.47	5.79	11.79	5.51	6.71
10	5.18	5.83	5.56	6.02	7.32	6.36	5.72	16.65	5.77	8.26	5.49	5.80
11	5.21	5.65	5.52	9.58	6.92	6.19	5.89	15.78	6.18	6.84	5.46	5.59
12	5.24	5.38	5.49	11.34	6.61	6.10	5.90	14.11	6.79	6.37	5.50	5.49
13	5.21	5.31	5.47	9.55	6.43	6.08	5.76	10.49	6.27	6.11	5.48	5.45
14	5.20	5.29	5.45	7.28	6.42	6.16	5.69	8.06	6.57	5.96	5.45	5.43
15	5.19	5.27	5.44	6.75	6.39	6.04	8.18	7.30	6.49	5.87	5.43	5.40
16	5.17	5.27	5.43	7.04	6.15	5.97	11.45	7.04	5.98	5.81	5.42	5.39
17	5.15	5.27	5.42	6.74	6.02	6.92	9.45	6.75	5.91	5.77	5.41	5.38
18	5.17	5.26	5.43	6.29	6.00	8.05	7.53	6.74	6.36	6.92	5.40	5.37
19	5.16	5.26	5.52	6.64	6.00	7.03	9.30	7.47	6.32	6.91	5.39	5.45
20	5.15	5.26	5.63	7.68	8.44	6.48	9.65	7.07	6.92	6.90	5.39	5.72
21	5.17	5.25	5.51	6.84	11.10	6.23	8.18	6.93	6.21	6.14	5.37	5.45
22	5.30	5.26	5.52	6.34	13.46	6.12	7.01	7.42	6.15	6.06	5.36	5.38
23	5.54	5.27	6.21	6.09	13.53	6.04	6.54	7.03	6.04	5.87	5.35	5.36
24	5.36	5.29	6.11	7.31	11.20	5.95	6.37	6.64	6.63	5.78	5.34	5.38
25	5.26	5.29	5.73	10.16	8.42	5.87	7.05	7.76	7.63	5.76	5.33	5.84
26	5.23	5.28	5.59	10.17	7.48	5.81	9.73	11.06	6.25	5.68	5.33	5.76
27	5.22	5.28	5.53	7.87	7.01	5.77	9.61	11.51	7.08	5.64	5.47	5.54
28	5.22	5.40	5.52	7.26	6.70	5.74	8.32	10.57	7.06	5.63	5.51	5.40
29	5.22	6.33	5.50	7.24	---	5.85	7.94	10.48	6.73	5.60	5.52	5.37
30	5.21	6.08	5.48	7.79	---	6.38	11.72	8.56	6.26	5.63	5.57	5.36
31	5.21	---	5.46	9.59	---	6.07	---	7.97	---	5.58	5.59	---
MAX	5.54	6.33	8.94	11.34	15.78	13.04	11.72	16.65	7.63	13.80	5.59	6.71
MIN	5.15	5.20	5.42	5.42	6.00	5.74	5.59	6.64	5.77	5.58	5.33	5.36

MISSISSIPPI RIVER DELTA

07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°29'40", long 90°10'10", in SW 1/4 sec.26, T.6 S., R.10 E., St. Helena Meridian, St. Tammany Parish, Hydrologic Unit 08090201, at bridge on U.S. Highway 190, and 4.0 mi west of Covington.

DRAINAGE AREA.--145 mi².

PERIOD OF RECORD.--Water years 1959, 1966-68, 1974, 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1978 to September 1982.

WATER TEMPERATURES: April 1978 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 66 micromhos Feb. 24, 1979; minimum daily, 20 micromhos, Apr. 14, May 17, 18, 22, 1980.

WATER TEMPERATURES: Maximum daily, 34.0 °C July 25, 1980; minimum daily, 4.0 °C Jan. 11, 12, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990 15...	1005	44	35	7.05	16.5	10	2.9	8.8	0.6	260	230
JAN 1991 09...	1000	71	50	6.57	14.5	40	11	8.7	1.2	2300	330
APR 11...	1200	91	35	6.79	21.0	40	5.3	7.6	0.4	200	140
JUL 09...	1100	852	35	6.16	24.0	60	23	7.4	--	840	450

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 1990 15...	7	1.5	0.73	3.0	1.1	9	<1.0	4.7	<0.1	11	26
JAN 1991 09...	10	2.3	1.1	3.7	2.8	12	1.5	6.5	<0.1	12	32
APR 11...	8	1.6	0.91	3.3	1.1	10	4.6	3.4	0.1	11	42
JUL 09...	8	1.8	0.88	1.6	2.4	7	2.0	3.3	0.1	7.3	40

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC DIS- SOLVED (µG/L AS AS)
OCT 1990 15...	--	<0.01	0.30	0.01	<0.01	0.4	0.04	0.02	0.02	70	<1
JAN 1991 09...	39	0.01	0.50	0.45	0.44	1.0	0.15	0.10	0.08	320	<1
APR 11...	31	<0.01	0.36	0.02	0.03	0.3	0.09	0.08	0.02	70	<1
JUL 09...	25	0.01	0.34	0.15	0.13	1.0	0.21	0.12	0.09	220	<1

< Actual value is known to be less than the value shown.

07375050 TCHEFUNCTA RIVER NEAR COVINGTON, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990 15...	19	<0.5	<1	1	<3	2	280	1	<4	58	<0.1
JAN 1991 09...	30	<0.5	<1	<1	<3	2	180	2	<4	69	<0.1
APR 11...	25	<0.5	<1	<1	<3	1	590	<1	<4	77	<0.1
JUL 09...	29	<0.5	<1	<1	<3	4	370	1	<4	67	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 15...	<10	<1	<1	<1	13	<6	10	8	0.95	100
JAN 1991 09...	<10	<1	<1	<1	16	<6	22	20	3.8	100
APR 11...	<10	1	<1	<1	16	<6	6	10	2.5	100
JUL 09...	<10	5	<1	<1	14	<6	4	45	104	92

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07375500 TANGIPAHOA RIVER AT ROBERT, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°30'23", long 90°21'42", on line between secs.39 and 40, T.6 S., R.8 E., St. Helena Meridian, Tangipahoa Parish, Hydrologic Unit 08070205, near left bank on downstream side of bridge on U.S. Highway 190, 1.2 mi west of Robert, 2.8 mi downstream from Chappeeela Creek, and 6.0 mi east of Hammond.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--646 mi².

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6.87 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 25, 1939, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1921 reached a stage of 27.1 ft, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 7	0145	13,900	17.93	May 1	2340	9,740	16.83
Feb. 22	2130	10,700	17.13	May 11	1855	*14,700	*18.11

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	404	411	554	598	6110	1530	729	9170	1300	815	655	771
2	403	410	524	596	3410	3100	676	8680	1100	763	634	763
3	404	409	1210	603	1770	5170	641	4920	1000	753	650	713
4	414	409	2410	851	1390	3610	621	2400	923	793	655	683
5	435	421	1760	893	3340	2250	607	3840	871	794	634	727
6	448	430	1020	753	11400	1580	596	5470	860	939	618	736
7	432	437	880	760	13400	1340	593	4470	843	1670	786	682
8	420	428	832	805	8570	1200	599	3200	846	3810	708	688
9	415	495	809	750	3330	1090	599	6660	894	4180	654	1310
10	428	567	767	957	1850	1000	627	12000	867	1690	634	1020
11	419	574	740	3050	1520	936	612	14200	974	1110	667	784
12	420	491	720	4090	1350	889	686	12400	1090	913	1330	686
13	415	456	702	2840	1230	906	697	6790	965	814	874	635
14	407	444	690	1460	1180	954	726	2780	945	754	730	605
15	405	436	678	1190	1130	920	1970	1880	1110	713	644	584
16	402	431	666	1200	1060	868	3040	1560	982	687	614	569
17	404	429	646	1200	1000	1070	2580	1390	979	676	607	558
18	407	426	631	1050	976	1310	2220	1470	1140	865	596	547
19	400	426	638	1190	959	1100	2690	1750	1140	819	657	549
20	398	424	647	1740	1720	913	2090	1480	987	715	592	644
21	402	423	623	1420	5190	830	1800	1410	1090	711	571	639
22	499	421	635	1130	9600	790	1340	1380	1050	697	568	572
23	556	427	653	1010	10200	752	1100	1280	1040	677	559	546
24	495	433	675	1580	7750	722	1150	1150	994	739	551	624
25	450	434	659	3300	4320	695	1530	1150	1020	730	544	1260
26	429	431	635	3120	2110	673	2450	1480	1460	663	540	1830
27	423	428	616	1740	1640	660	2420	1820	1380	643	561	1200
28	418	483	604	1480	1440	650	1650	1860	1240	636	588	874
29	415	542	606	1510	---	698	1740	1540	1150	659	652	727
30	412	595	610	2210	---	805	5770	1650	912	677	629	656
31	411	---	601	4510	---	812	---	1720	---	678	692	---
TOTAL	13190	13571	24441	49586	108945	39823	44549	122950	31152	31783	20394	23182
MEAN	425	452	788	1600	3891	1285	1485	3966	1038	1025	658	773
MAX	556	595	2410	4510	13400	5170	5770	14200	1460	4180	1330	1830
MIN	398	409	524	596	959	650	593	1150	843	636	540	546
CFSM	.66	.70	1.22	2.48	6.02	1.99	2.30	6.14	1.61	1.59	1.02	1.20
IN.	.76	.78	1.41	2.86	6.27	2.29	2.57	7.08	1.79	1.83	1.17	1.33

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1991, BY WATER YEAR (WY)

MEAN	560	754	1336	1520	2025	1815	1793	1210	801	777	711	731
MAX	1594	3122	4534	4746	7611	5106	8813	4689	2746	3112	2114	3021
(WY)	1965	1949	1962	1990	1966	1943	1983	1953	1975	1946	1983	1971
MIN	270	294	315	381	487	530	437	362	356	363	345	321
(WY)	1968	1940	1940	1940	1968	1967	1963	1963	1963	1968	1968	1968

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1939 - 1991					
ANNUAL TOTAL	549728			523566			1165					
ANNUAL MEAN	1506			1434			2258					
HIGHEST ANNUAL MEAN							525					
LOWEST ANNUAL MEAN							1983					
HIGHEST DAILY MEAN	30700	Jan 27		14200	May 11		78500	Apr 7	1983			
LOWEST DAILY MEAN	398	Oct 20		398	Oct 20		245	Oct 30	1968			
ANNUAL SEVEN-DAY MINIMUM	403	Oct 15		403	Oct 15		246	Oct 28	1968			
INSTANTANEOUS PEAK FLOW				14700	May 11		85000	Apr 7	1983			
INSTANTANEOUS PEAK STAGE				18.11	May 11		a25.87	Apr 7	1983			
INSTANTANEOUS LOW FLOW				393	Oct 21		245	Oct 30	to Nov 3 1968			
INSTANTANEOUS LOW STAGE				5.91	Oct 21		2.95	Oct 25	1939			
ANNUAL RUNOFF (CFSM)	2.33			2.22			1.80					
ANNUAL RUNOFF (INCHES)	31.66			30.15			24.50					
10 PERCENT EXCEEDS	3840			2920			2080					
50 PERCENT EXCEEDS	659			786			634					
90 PERCENT EXCEEDS	425			429			379					

a From flood mark.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.95	5.98	6.52	6.38	14.79	9.75	7.31	16.63	9.11	7.46	6.77	7.13
2	5.95	5.98	6.41	6.38	12.58	12.76	7.12	16.42	8.52	7.28	6.68	7.11
3	5.95	5.97	8.42	6.40	9.92	14.66	7.00	14.35	8.21	7.25	6.74	6.94
4	5.99	5.97	11.31	7.24	8.89	13.39	6.92	11.77	7.95	7.37	6.75	6.84
5	6.08	6.02	9.82	7.39	11.93	11.45	6.88	13.57	7.77	7.37	6.67	6.99
6	6.13	6.06	7.81	6.92	17.24	9.90	6.84	14.85	7.73	7.85	6.61	7.02
7	6.07	6.08	7.35	6.95	17.82	9.23	6.83	14.12	7.67	9.80	7.18	6.83
8	6.02	6.05	7.19	7.10	16.29	8.80	6.85	12.91	7.68	13.40	6.93	6.86
9	6.00	6.30	7.11	6.92	12.92	8.47	6.85	15.43	7.83	13.62	6.73	8.80
10	6.05	6.57	6.97	7.57	10.60	8.20	6.95	17.46	7.73	9.96	6.66	7.93
11	6.01	6.59	6.88	12.07	9.72	7.99	6.89	17.99	8.08	8.34	6.77	7.18
12	6.02	6.29	6.81	13.39	9.23	7.84	7.15	17.55	8.42	7.73	8.85	6.85
13	6.00	6.16	6.76	11.81	8.91	7.89	7.20	15.49	8.05	7.40	7.48	6.66
14	5.96	6.11	6.71	9.09	8.73	8.05	7.29	12.33	7.97	7.20	7.00	6.56
15	5.96	6.08	6.67	8.31	8.61	7.94	10.78	10.66	8.49	7.05	6.70	6.48
16	5.94	6.06	6.63	8.35	8.40	7.77	12.78	9.84	8.09	6.96	6.59	6.43
17	5.95	6.06	6.55	8.34	8.21	8.42	12.05	9.35	8.06	6.91	6.56	6.39
18	5.96	6.04	6.50	7.90	8.13	9.12	11.40	9.60	8.57	7.54	6.53	6.36
19	5.94	6.04	6.53	8.30	8.07	8.50	12.28	10.34	8.55	7.38	6.74	6.36
20	5.93	6.04	6.56	9.86	10.07	7.92	11.13	9.62	8.08	7.04	6.51	6.70
21	5.94	6.03	6.47	8.98	14.58	7.64	10.47	9.40	8.39	7.02	6.44	6.68
22	6.32	6.02	6.51	8.13	16.75	7.51	9.20	9.33	8.26	6.97	6.43	6.44
23	6.53	6.05	6.58	7.79	16.96	7.38	8.50	9.03	8.23	6.89	6.40	6.35
24	6.30	6.07	6.66	9.38	16.02	7.28	8.67	8.66	8.08	7.10	6.37	6.63
25	6.14	6.07	6.60	12.60	13.92	7.19	9.68	8.64	8.15	7.06	6.35	8.66
26	6.06	6.06	6.51	12.35	11.18	7.11	11.86	9.62	9.45	6.82	6.33	10.24
27	6.03	6.05	6.45	9.86	10.06	7.06	11.78	10.52	9.21	6.74	6.40	8.50
28	6.01	6.26	6.41	9.15	9.49	7.03	10.08	10.62	8.79	6.72	6.50	7.48
29	6.00	6.48	6.41	9.23	---	7.20	10.19	9.79	8.55	6.79	6.72	6.99
30	5.99	6.66	6.42	10.79	---	7.56	14.91	10.07	7.79	6.86	6.64	6.74
31	5.98	---	6.40	13.70	---	7.58	---	10.27	---	6.85	6.87	---
MAX	6.53	6.66	11.31	13.70	17.82	14.66	14.91	17.99	9.45	13.62	8.85	10.24
MIN	5.93	5.97	6.40	6.38	8.07	7.03	6.83	8.64	7.67	6.72	6.33	6.35

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1954-56, 1966-76, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1979 to September 1982.

WATER TEMPERATURES: November 1979 to September 1982.

INSTRUMENTATION.--Water-quality monitor November 1979 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 87 micromhos Dec. 6, 1981; minimum, 27 micromhos Apr. 2, 3, 1982.

WATER TEMPERATURES: Maximum 33.0 °C July 22, 24, 1981; minimum, 4.0 °C Jan. 15, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990 15...	1135	358	53	6.82	20.0	10	4.7	8.9	0.7	92	K80
JAN 1991 09...	1130	652	54	6.75	14.0	20	6.5	9.2	1.0	5300	980
APR 11...	1330	644	53	7.12	23.0	20	10	7.9	0.8	1200	140
JUL 09...	1015	4190	37	6.41	25.0	60	20	6.6	2.3	K1500	880

DATE	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1990 15...	9	2.1	0.88	5.8	1.2	14	1.5	7.1	<0.1	13	42
JAN 1991 09...	10	2.5	1.0	4.9	2.3	14	2.2	4.5	<0.1	12	43
APR 11...	11	2.4	1.1	5.1	1.7	14	1.7	5.6	0.1	11	39
JUL 09...	8	2.0	0.79	2.0	2.4	7	2.0	3.0	0.1	6.9	44

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS Al)	ARSENIC DIS-SOLVED (µG/L AS As)
OCT 1990 15...	41	<0.01	0.20	0.02	<0.01	<0.2	0.03	0.02	0.02	40	<1
JAN 1991 09...	39	0.01	0.40	0.22	0.22	0.6	0.12	0.05	0.05	180	1
APR 11...	38	<0.01	0.32	0.13	0.13	0.5	0.12	0.06	0.05	50	<1
JUL 09...	26	0.01	0.40	0.16	0.15	1.1	0.27	0.15	0.12	200	<1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07375500 TANGIPAHOA RIVER AT ROBERT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990 15...	21	<0.5	<1	1	<3	1	240	<1	<4	39	<0.1
JAN 1991 09...	30	<0.5	<1	<1	<3	1	350	<1	<4	36	<0.1
APR 11...	31	<0.5	<1	<1	<3	<1	380	<1	<4	85	<0.1
JUL 09...	28	<0.5	<1	<1	<3	5	320	<1	<4	50	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 15...	<10	<1	<1	<1	22	<6	6	23	22	80
JAN 1991 09...	<10	<1	<1	<1	22	<6	4	32	56	92
APR 11...	<10	<1	<1	<1	25	<6	3	23	40	92
JUL 09...	<10	5	<1	<1	14	<6	3	103	1170	81

< Actual value is known to be less than the value shown.

07375800 TICKFAW RIVER AT LIVERPOOL, LA

LOCATION.--Lat 30°55'50", long 90°40'24", on line between secs.46 and 47, T.1 S., R.5 E., St. Helena Meridian, St. Helena Parish, Hydrologic Unit 08070203, near left bank on downstream side of bridge on State Highway 38, 0.2 mi east of intersection of State Highways 38 and 441, 0.5 mi upstream from Cotton Patch Branch, and 1.0 mi north of Liverpool.

DRAINAGE AREA.--89.7 mi².

PERIOD OF RECORD.--March 1956 to September 1968, October 1979 to September 1981 (published as "near Liverpool"). October 1968 to September 1979 (annual maximums only), October 1981 to current year (gage heights only).

GAGE.--Water-stage recorder with a data-collection platform and rain gage. Datum of gage is 204.44 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to Oct. 1, 1982 altitude of gage, 206 ft, from topographic map. Mar. 9, 1956, to Sept. 30, 1968, at site 0.2 mi west at same datum. Oct. 1, 1963, to Aug. 9, 1979, nonrecording gage and crest-stage indicator at same site 0.2 mi west at same datum.

AVERAGE DISCHARGE.--14 years (1957-68, 1980-81), 116 ft³/s, 17.56 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s, Apr. 6, 1983, maximum gage height, 13.30 ft; minimum discharge, 29 ft³/s, Sept. 26-30, 1968; minimum gage height, 1.76 ft, Oct. 9, 11, 12, 13, 14, 15, 16, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft³/s, Feb. 20, gage height, 9.93 ft; minimum gage height, 2.22 ft, Oct. 12.

DISCHARGE MEASUREMENTS MADE DURING YEAR

Date	Discharge (ft ³ /s)
February 21, 1991.....	2,400

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.27	2.32	2.37	2.55	5.69	3.10	2.45	8.08	3.07	2.45	2.34	2.47
2	2.27	2.31	2.40	2.52	3.54	4.26	2.43	4.45	2.92	2.52	2.33	2.39
3	2.27	2.31	4.28	3.57	3.15	3.98	2.41	3.30	2.57	2.86	2.36	2.35
4	2.32	2.32	5.05	4.03	2.95	3.56	2.39	3.98	2.46	3.26	2.35	2.47
5	2.34	2.38	2.93	3.05	6.22	3.12	2.39	6.98	2.41	4.06	2.33	2.52
6	2.29	2.38	2.56	2.77	9.02	2.93	2.37	5.80	2.41	3.50	2.86	2.55
7	2.26	2.37	2.49	2.66	7.27	2.81	2.38	3.74	2.36	3.87	2.81	2.62
8	2.24	2.36	2.46	2.58	3.92	2.71	2.39	5.54	2.40	6.55	2.44	2.69
9	2.25	2.56	2.40	2.53	3.30	2.62	2.37	8.71	2.35	3.99	2.38	3.20
10	2.23	2.55	2.36	4.19	3.03	2.56	2.37	9.10	2.42	2.92	2.36	2.50
11	2.23	2.43	2.35	7.65	2.87	2.53	2.72	8.05	3.08	2.64	2.35	2.37
12	2.23	2.39	2.35	7.66	2.74	2.51	2.64	4.87	2.93	2.50	2.34	2.33
13	2.23	2.38	2.35	4.34	2.68	2.50	2.45	3.42	2.56	2.42	2.37	2.31
14	2.24	2.37	2.38	3.22	2.67	2.48	2.55	3.00	2.50	2.38	2.35	2.30
15	2.26	2.36	2.38	3.08	2.64	2.45	4.89	2.78	2.41	2.36	2.34	2.29
16	2.27	2.37	2.38	3.22	2.58	2.46	4.91	2.67	2.36	2.35	2.37	2.28
17	2.27	2.37	2.39	3.00	2.55	2.70	3.12	2.60	2.35	2.35	2.35	2.27
18	2.28	2.36	2.42	2.80	2.53	2.85	3.07	3.53	2.40	2.35	2.32	2.28
19	2.27	2.36	2.44	4.10	2.92	2.73	3.50	3.92	2.50	2.35	2.30	2.36
20	2.28	2.35	2.43	4.34	8.42	2.61	3.95	3.04	2.73	2.38	2.28	2.37
21	2.37	2.35	2.43	3.29	9.22	2.54	5.12	2.78	2.84	2.36	2.27	2.32
22	2.48	2.35	2.46	2.91	8.42	2.51	3.20	2.72	3.49	2.35	2.27	2.29
23	2.39	2.37	2.66	2.75	7.68	2.48	3.78	2.64	3.17	2.35	2.27	2.39
24	2.35	2.36	2.60	3.92	4.88	2.46	3.20	2.60	2.85	2.36	2.26	2.75
25	2.32	2.36	2.50	5.40	3.56	2.44	3.90	2.58	5.39	2.36	2.26	3.22
26	2.31	2.36	2.46	4.08	3.23	2.44	4.23	2.65	5.07	2.35	2.27	2.80
27	2.32	2.37	2.50	3.26	3.03	2.44	3.54	3.11	3.23	2.35	2.40	2.48
28	2.33	2.50	2.48	3.14	2.88	2.44	3.48	2.78	2.81	2.35	2.39	2.35
29	2.33	2.51	2.51	3.27	---	2.62	5.82	3.33	2.60	2.37	2.34	2.31
30	2.32	2.43	2.52	7.41	---	2.66	9.48	4.33	2.48	2.38	2.32	2.31
31	2.32	---	2.52	8.80	---	2.50	---	3.21	---	2.36	2.42	---
MAX	2.48	2.56	5.05	8.80	9.22	4.26	9.48	9.10	5.39	6.55	2.86	3.22
MIN	2.23	2.31	2.35	2.52	2.53	2.44	2.37	2.58	2.35	2.35	2.26	2.27

MISSISSIPPI RIVER DELTA

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07376000 TICKFAW RIVER AT HOLDEN, LA

LOCATION.--Lat 30°30'13", long 90°40'38", in SE 1/4 NE 1/4 sec.26, T.6 S., R.5 E., St. Helena Meridian, Livingston Parish, Hydrologic Unit 08070203, near left bank on downstream side of bridge on U.S. Highway 190, 0.5 mi west of Holden, and 5.1 mi upstream from Big Branch.

DRAINAGE AREA.--247 mi².

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1711: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 13, 1944, nonrecording gage, Sept. 14, 1944, to June 14, 1948, water-stage recorder, June 15, 1949, to Dec. 9, 1949, nonrecording gage at same site and datum.

REMARKS.--Records fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 13	1645	2,280	9.20	Mar. 3	1730	2,120	8.79
Feb. 3	0855	2,270	9.17	May 2	2127	4,170	13.25
Feb. 8	0557	3,830	12.68	May 12	0707	*7,250	*16.41
Feb. 23	1430	5,460	14.94	June 1	1056	2,160	8.90

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	111	139	150	1790	622	207	2990	2010	209	152	156
2	112	111	150	148	1870	1250	184	3950	847	185	147	174
3	112	110	585	153	2150	2030	172	3770	487	179	142	162
4	124	110	987	201	862	1570	166	2750	385	176	139	156
5	127	112	953	417	1330	936	161	1770	304	209	138	147
6	130	114	653	393	2510	644	158	1710	261	290	137	154
7	122	115	348	277	3300	502	161	1370	237	421	137	164
8	116	114	244	246	3700	420	160	1820	217	516	166	172
9	116	126	209	228	3080	363	153	2750	204	691	227	200
10	121	142	190	349	1730	319	150	4610	200	853	170	179
11	112	168	176	1190	623	288	153	6280	198	626	153	227
12	112	148	166	1890	442	266	150	6770	281	343	156	174
13	111	131	159	2220	353	252	171	4710	399	268	145	151
14	112	121	154	1970	303	243	195	2930	335	232	155	141
15	112	118	149	1370	275	236	523	1150	252	216	146	136
16	111	116	145	616	249	234	918	689	219	201	141	132
17	111	115	143	552	226	373	818	551	211	188	137	129
18	110	114	144	450	210	526	923	489	273	181	135	127
19	108	114	149	461	205	470	1370	599	234	179	136	126
20	108	114	150	768	628	361	1630	787	198	174	132	126
21	112	113	149	802	2080	298	779	784	188	196	130	127
22	132	113	148	599	3430	261	591	713	212	213	127	130
23	166	114	174	423	5110	237	638	790	235	179	127	126
24	165	115	179	569	4730	220	396	697	283	172	127	127
25	129	114	181	1160	3280	208	640	521	260	207	125	160
26	118	116	172	1590	1930	197	859	663	227	223	124	210
27	114	117	157	1200	820	188	906	982	515	172	130	275
28	112	142	150	743	584	183	1110	981	626	158	142	204
29	112	144	149	723	---	190	1080	880	354	154	162	164
30	111	142	150	1030	---	196	2040	752	250	151	155	145
31	111	---	149	1710	---	234	---	1450	---	164	158	---
TOTAL	3681	3654	7751	24598	47800	14317	17562	61658	10902	8326	4498	4801
MEAN	119	122	250	793	1707	462	585	1989	363	269	145	160
MAX	166	168	987	2220	5110	2030	2040	6770	2010	853	227	275
MIN	108	110	139	148	205	183	150	489	188	151	124	126
CFSM	.48	.49	1.01	3.21	6.91	1.87	2.37	8.05	1.47	1.09	.59	.65
IN.	.55	.55	1.17	3.70	7.20	2.16	2.64	9.29	1.64	1.25	.68	.72

MISSISSIPPI RIVER DELTA

07376000 TICKFAW RIVER AT HOLDEN, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1991, BY WATER YEAR (WY)

MEAN	153	225	445	548	724	637	608	406	232	198	206	214
MAX	591	957	1565	2152	2592	1696	2352	1989	927	891	840	1192
(WY)	1965	1978	1962	1990	1966	1943	1983	1991	1959	1946	1955	1977
MIN	71.2	76.7	101	98.1	115	138	118	97.4	101	97.7	85.1	75.0
(WY)	1969	1970	1961	1957	1968	1955	1963	1963	1965	1968	1968	1968

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1941 - 1991			
ANNUAL TOTAL	205323		209548					
ANNUAL MEAN	563		574		381			
HIGHEST ANNUAL MEAN					707			
LOWEST ANNUAL MEAN					148			
HIGHEST DAILY MEAN	11100	Jan 27	6770	May 12	19200	Apr 7	1983	
LOWEST DAILY MEAN	108	Oct 19	108	Oct 19	65	Oct 3	1968	
ANNUAL SEVEN-DAY MINIMUM	110	Oct 14	110	Oct 14	66	Sep 27	1968	
INSTANTANEOUS PEAK FLOW			7250	May 12	22500	Apr 7	1983	
INSTANTANEOUS PEAK STAGE			16.41	May 12	21.04	Apr 7	1983	
INSTANTANEOUS LOW FLOW			105	Oct 19	65	Oct 1,2,3,4	1969	
INSTANTANEOUS LOW STAGE			.93	Oct 19	.93	Sep 26,27	Oct 21,22,23,24,	
					28,29 1976 Oct 19 1990			
ANNUAL RUNOFF (CFSM)	2.28		2.32		1.54			
ANNUAL RUNOFF (INCHES)	30.92		31.56		20.97			
10 PERCENT EXCEEDS	1870		1580		787			
50 PERCENT EXCEEDS	161		201		164			
90 PERCENT EXCEEDS	114		116		98			

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.02	1.00	1.29	1.38	7.92	4.14	2.02	10.88	8.51	2.26	1.56	1.57
2	1.02	1.00	1.37	1.36	8.13	6.33	1.86	12.89	5.01	2.09	1.52	1.70
3	1.02	.99	3.74	1.40	8.87	8.56	1.77	12.54	3.70	2.05	1.48	1.61
4	1.14	.99	5.52	1.76	4.99	7.28	1.73	10.31	3.25	2.03	1.46	1.55
5	1.18	1.03	5.40	3.12	6.50	5.34	1.69	7.85	2.86	2.26	1.45	1.48
6	1.21	1.04	4.26	2.98	9.76	4.26	1.67	7.69	2.61	2.78	1.44	1.54
7	1.13	1.06	2.72	2.30	11.57	3.63	1.69	6.71	2.45	3.41	1.44	1.62
8	1.07	1.05	2.08	2.10	12.41	3.24	1.68	7.97	2.32	3.83	1.66	1.67
9	1.07	1.16	1.83	1.97	11.08	2.95	1.63	10.32	2.23	4.51	2.10	1.87
10	1.12	1.31	1.69	2.67	7.65	2.71	1.60	13.69	2.20	5.07	1.70	1.72
11	1.02	1.52	1.58	6.15	4.27	2.54	1.63	15.72	2.19	4.12	1.57	2.06
12	1.02	1.36	1.50	8.18	3.55	2.40	1.61	16.08	2.72	2.78	1.59	1.67
13	1.01	1.22	1.45	9.05	3.15	2.32	1.76	13.95	3.32	2.36	1.50	1.51
14	1.02	1.12	1.41	8.41	2.91	2.26	1.93	10.70	3.01	2.13	1.58	1.42
15	1.02	1.09	1.37	6.68	2.75	2.22	3.68	5.99	2.55	2.03	1.51	1.37
16	1.01	1.07	1.34	4.11	2.59	2.20	5.29	4.44	2.34	1.92	1.46	1.34
17	1.00	1.06	1.32	3.80	2.44	3.00	4.94	3.85	2.27	1.82	1.43	1.31
18	1.00	1.05	1.33	3.30	2.33	3.74	5.30	3.57	2.67	1.78	1.41	1.30
19	.96	1.05	1.37	3.35	2.30	3.48	6.71	4.06	2.43	1.76	1.41	1.29
20	.97	1.05	1.38	4.72	4.17	2.94	7.48	4.82	2.19	1.72	1.37	1.27
21	1.01	1.04	1.37	4.88	8.65	2.60	4.74	4.81	2.12	1.88	1.35	1.29
22	1.22	1.04	1.36	4.02	11.84	2.37	4.03	4.55	2.29	2.00	1.33	1.31
23	1.50	1.05	1.57	3.15	14.49	2.22	4.23	4.80	2.44	1.76	1.33	1.28
24	1.49	1.06	1.60	3.85	14.00	2.11	3.12	4.46	2.73	1.71	1.33	1.29
25	1.20	1.05	1.62	6.07	11.50	2.03	4.21	3.72	2.60	1.96	1.31	1.55
26	1.09	1.07	1.55	7.36	8.24	1.95	5.08	4.33	2.39	2.06	1.30	1.91
27	1.04	1.08	1.43	6.20	4.93	1.89	5.24	5.50	3.81	1.71	1.35	2.33
28	1.02	1.30	1.38	4.64	4.00	1.85	5.91	5.50	4.26	1.61	1.45	1.87
29	1.02	1.33	1.37	4.58	---	1.90	5.78	5.16	3.10	1.58	1.61	1.59
30	1.01	1.31	1.38	5.63	---	1.94	8.58	4.68	2.53	1.56	1.55	1.43
31	1.01	---	1.37	7.70	---	2.20	---	6.92	---	1.65	1.58	---
MAX	1.50	1.52	5.52	9.05	14.49	8.56	8.58	16.08	8.51	5.07	2.10	2.33
MIN	.96	.99	1.29	1.36	2.30	1.85	1.60	3.57	2.12	1.56	1.30	1.27

MISSISSIPPI RIVER DELTA

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07376500 NATALBANY RIVER AT BAPTIST, LA.

LOCATION.--Lat 30°30'15", long 90°32'45", in NE 1/4 NW 1/4 sec.30, T.6 S., R.7 E., St. Helena Meridian, Tangipahoa Parish, Hydrologic Unit 08070203, near right bank on downstream side of bridge on U.S. Highway 190, 0.7 mi downstream from Still Branch, and 0.7 mi west of Baptist.

DRAINAGE AREA.--79.5 mi².

PERIOD OF RECORD.--August 1943 to current year.

REVISED RECORDS.--WSP 1057: 1943.

GAGE.--Water-stage recorder. Datum of gage is 11.28 ft above National Geodetic Vertical Datum of 1929. Prior to June 4, 1948, nonrecording gage, and June 4, 1948, to Apr. 13, 1950, water-stage recorder at old highway bridge 100 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,700 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 6	0430	2,210	13.21	Apr. 30	1403	2,110	13.03
Feb. 22	0540	2,160	13.12	May 10	1628	*3,230	*14.83

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	7.4	14	12	210	391	28	1240	136	28	18	19
2	8.5	7.4	14	12	105	1010	26	375	79	26	20	17
3	8.4	7.4	949	15	71	1080	25	177	57	26	18	16
4	10	7.4	509	37	57	366	24	603	48	25	17	16
5	11	8.5	101	25	1310	165	24	609	43	53	17	19
6	8.9	8.5	43	22	1850	106	23	203	41	92	17	16
7	8.4	7.6	31	24	870	79	26	102	37	417	21	22
8	8.3	7.5	25	21	261	65	26	1070	33	636	17	17
9	8.9	33	21	18	131	57	23	2570	32	212	16	14
10	17	31	18	380	89	48	23	3070	32	64	16	14
11	11	14	18	1560	69	44	23	3010	90	38	16	14
12	8.6	9.7	16	778	58	41	22	1290	64	31	16	13
13	8.2	8.8	15	227	52	40	22	361	62	28	20	13
14	8.2	8.5	14	100	50	38	43	195	82	26	17	13
15	8.1	8.0	14	86	46	35	620	143	39	25	16	12
16	8.0	7.9	13	107	41	43	242	114	34	24	15	12
17	8.2	7.7	13	73	39	266	82	95	267	23	15	12
18	8.0	7.6	15	55	36	186	649	114	142	31	15	12
19	7.5	8.3	23	209	38	90	886	298	50	25	14	12
20	7.4	9.3	18	184	656	58	263	201	43	22	14	12
21	14	9.9	15	89	1400	46	112	242	37	21	14	12
22	36	10	15	57	2060	40	68	224	52	22	15	12
23	18	11	21	56	1120	37	67	171	49	43	15	12
24	11	10	33	712	374	33	49	109	35	33	13	13
25	8.8	11	21	796	168	31	616	128	30	24	14	16
26	7.9	11	18	287	111	29	531	285	29	20	14	17
27	7.8	11	16	132	82	28	265	286	47	19	16	13
28	7.9	71	15	142	67	27	236	114	62	19	22	12
29	7.8	54	14	145	---	42	670	274	34	19	18	12
30	7.6	20	14	673	---	51	1920	266	30	19	17	12
31	7.5	---	13	582	---	32	---	294	---	20	27	---
TOTAL	315.6	434.4	2079	7616	11421	4604	7634	18233	1816	2111	520	426
MEAN	10.2	14.5	67.1	246	408	149	254	588	60.5	68.1	16.8	14.2
MAX	36	71	949	1560	2060	1080	1920	3070	267	636	27	22
MIN	7.4	7.4	13	12	36	27	22	95	29	19	13	12
CFSM	.13	.18	.84	3.09	5.13	1.87	3.20	7.40	.76	.86	.21	.18
IN.	.15	.20	.97	3.56	5.34	2.15	3.57	8.53	.85	.99	.24	.20

MISSISSIPPI RIVER DELTA

07376500 NATALBANY RIVER AT BAPTIST, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1991, BY WATER YEAR (WY)

MEAN	33.4	75.5	146	167	251	203	198	119	56.3	53.0	56.1	59.7
MAX	356	750	710	546	1026	529	821	791	412	230	296	586
(WY)	1986	1949	1954	1990	1966	1947	1983	1953	1950	1946	1955	1977
MIN	2.61	3.47	6.97	9.48	19.3	15.2	8.36	5.60	5.88	4.55	4.94	5.86
(WY)	1964	1966	1959	1957	1968	1955	1963	1963	1955	1947	1948	1969

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1944 - 1991	
ANNUAL TOTAL	51875.9		57210.0		117	
ANNUAL MEAN	142		157		234	
HIGHEST ANNUAL MEAN					25.0	
LOWEST ANNUAL MEAN					9700	
HIGHEST DAILY MEAN	2360	Jan 26	3070	May 10	1983	
LOWEST DAILY MEAN	7.4	Oct 20	7.4	Oct 20	1963	
ANNUAL SEVEN-DAY MINIMUM	7.5	Oct 29	7.5	Oct 29	Nov 3 1963	
INSTANTANEOUS PEAK FLOW			3230	May 10	Dec 11 1962	
INSTANTANEOUS PEAK STAGE			14.83	May 10	9810	
INSTANTANEOUS LOW FLOW			7.4	Oct 19,20,21,31	Apr 7 1983	
				Nov 1-4,5,8,17,18	20.80	
				Nov 1-4,5,8,17,18	1.8	
INSTANTANEOUS LOW STAGE			3.36	Oct 19,20,21,31	Nov 2-5 1963	
				Nov 1-4,5,8,17,18	2.78	
ANNUAL RUNOFF (CFSM)	1.79		1.97		Oct 14,15,16,17,18 1980	
ANNUAL RUNOFF (INCHES)	24.27		26.77		1.47	
10 PERCENT EXCEEDS	366		377		19.92	
50 PERCENT EXCEEDS	30		28		248	
90 PERCENT EXCEEDS	8.6		8.9		24	
					6.9	

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.42	3.36	3.61	3.63	5.73	6.47	4.00	10.59	5.37	4.20	4.00	4.01
2	3.41	3.36	3.60	3.63	4.98	9.69	3.96	6.69	4.91	4.17	4.03	3.96
3	3.41	3.36	8.96	3.70	4.67	9.95	3.94	5.53	4.68	4.17	3.98	3.93
4	3.47	3.36	7.32	4.16	4.48	6.66	3.93	7.67	4.55	4.15	3.96	3.93
5	3.52	3.41	4.92	3.94	10.30	5.44	3.92	7.87	---	4.60	3.96	4.00
6	3.43	3.41	4.27	3.89	12.40	4.99	3.91	5.69	4.44	4.99	3.95	3.94
7	3.41	3.37	4.06	3.92	9.06	4.75	3.96	4.96	4.37	6.71	4.04	4.04
8	3.40	3.37	3.95	3.87	6.05	4.59	3.96	9.57	4.30	8.02	3.96	3.95
9	3.42	3.97	3.86	3.78	5.19	4.48	3.90	13.80	4.28	5.84	3.93	3.88
10	3.66	3.97	3.80	6.24	4.84	4.35	3.90	14.60	4.28	4.75	3.93	3.88
11	3.49	3.58	3.79	11.78	4.64	4.28	3.90	14.48	4.95	4.39	3.93	3.86
12	3.42	3.46	3.73	8.64	4.49	4.24	3.89	10.51	4.74	4.26	3.93	3.85
13	3.40	3.42	3.71	5.83	4.40	4.22	3.88	6.68	4.65	4.20	4.02	3.84
14	3.40	3.41	3.69	4.94	4.37	4.19	4.12	5.75	4.91	4.17	3.95	3.84
15	3.39	3.39	3.67	4.82	4.32	4.13	7.92	5.40	4.40	4.15	3.93	3.83
16	3.39	3.39	3.66	4.99	4.23	4.24	5.92	5.19	4.32	4.12	3.91	3.82
17	3.40	3.38	3.65	4.68	4.20	6.08	4.76	5.04	5.70	4.10	3.90	3.82
18	3.39	3.37	3.70	4.44	4.16	5.58	7.77	5.18	5.38	4.25	3.90	3.82
19	3.37	3.40	3.90	5.72	4.19	4.85	9.13	6.29	4.58	4.15	3.89	3.81
20	3.37	3.44	3.79	5.56	7.94	4.50	6.06	5.74	4.47	4.09	3.88	3.81
21	3.51	3.46	3.71	4.84	11.23	4.32	5.03	5.96	4.36	4.06	3.87	3.81
22	4.06	3.48	3.72	4.48	12.93	4.22	4.62	5.87	4.57	4.08	3.89	3.81
23	3.70	3.51	3.83	4.42	10.11	4.16	4.60	5.55	4.56	4.30	3.89	3.82
24	3.50	3.48	4.09	8.29	6.69	4.10	4.37	5.13	4.33	4.27	3.86	3.85
25	3.42	3.49	3.87	8.74	5.46	4.06	7.67	5.26	4.24	4.13	3.87	3.94
26	3.39	3.50	3.78	6.20	5.03	4.02	7.51	6.31	4.22	4.05	3.87	3.95
27	3.38	3.51	3.73	5.19	4.78	4.00	6.09	6.29	4.46	4.02	3.93	3.84
28	3.39	4.41	3.70	5.27	4.61	3.98	5.90	5.21	4.70	4.01	4.06	3.83
29	3.38	4.31	3.68	5.29	---	4.22	7.83	6.24	4.32	4.00	3.99	3.81
30	3.37	3.75	3.67	8.09	---	4.39	12.64	6.20	4.24	4.02	3.95	3.80
31	3.37	---	3.66	7.75	---	4.08	---	6.35	---	4.04	4.19	---
MAX	4.06	4.41	8.96	11.78	12.93	9.95	12.64	14.60	---	8.02	4.19	4.04
MIN	3.37	3.36	3.60	3.63	4.16	3.98	3.88	4.96	---	4.00	3.86	3.80

07377000 AMITE RIVER NEAR DARLINGTON, LA

LOCATION.--Lat 30°53'20", long 90°50'40", in sec.72, T.2 S., R.4 E., St. Helena Meridian, St. Helena Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 10, 1.5 mi upstream from Collins Creek, and 4.0 mi west of Darlington.

DRAINAGE AREA.--580 mi².

PERIOD OF RECORD.--March 1949 to September 1950 (annual maximum), October 1950 to current year.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is 145.81 ft above National Geodetic Vertical Datum of 1929. Jan. 13, 1951, to May 28, 1963, water-stage recorder at former channel 700 ft to the left; and July 30, 1963, to Feb. 12, 1964, nonrecording gage at present site. Prior to Oct. 1, 1963, at datum 2.99 ft higher.

REMARKS.--Estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	1130	8,930	12.14	May 1	0400	*19,500	*16.10
Jan. 30	1730	12,300	13.82	May 10	0900	9,330	12.36
Feb. 21	1200	14,300	14.56				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	286	272	383	593	4950	1120	685	16300	951	558	448	496
2	281	272	347	543	1920	3340	e570	6050	752	766	437	470
3	282	270	3750	4340	1280	2740	e470	2100	666	1120	434	482
4	307	274	2610	5380	1040	2150	436	2950	623	984	433	581
5	328	304	920	2640	2610	1750	423	6480	596	826	434	487
6	329	319	643	1240	6550	1520	417	4850	574	1250	678	465
7	305	302	593	1400	5740	1370	417	2480	605	1060	634	704
8	298	287	614	1180	2750	1250	440	2850	652	1670	535	709
9	290	343	561	886	1400	1150	439	7390	572	1070	490	754
10	275	441	516	2810	1080	1030	423	9020	536	710	474	635
11	270	371	494	8360	938	915	510	7880	844	614	546	515
12	273	315	481	5570	884	833	1500	4130	1440	566	489	464
13	275	297	472	2420	835	768	1690	1720	874	536	476	441
14	278	293	464	1310	795	711	1290	1200	740	515	454	428
15	275	286	457	1040	772	673	5260	990	687	502	444	416
16	267	285	450	1070	745	641	5750	891	660	492	441	409
17	266	282	449	996	721	669	3830	885	587	488	434	409
18	264	280	452	851	695	838	2430	2910	1140	480	428	406
19	260	280	459	1710	1260	848	3890	2630	1490	493	425	457
20	257	282	458	2690	11200	748	2100	1550	1410	517	421	502
21	281	280	457	1740	13700	654	1400	1070	911	515	433	444
22	404	280	493	1070	12400	610	1040	968	1080	479	441	416
23	452	289	998	861	8670	e580	1270	862	762	482	420	419
24	329	296	945	1630	4360	e550	863	810	753	525	415	468
25	293	292	654	4260	1970	e510	1410	809	1310	476	404	1730
26	277	292	550	2980	1620	e490	2140	831	775	462	410	3300
27	273	292	513	1560	1350	e460	1300	1190	811	457	440	1490
28	274	517	512	1250	1150	e430	1510	1150	1020	456	471	696
29	276	998	521	1500	---	e520	5230	1240	716	498	461	569
30	275	583	553	10100	---	754	15500	1410	607	474	482	512
31	274	---	663	9360	---	804	---	1390	---	466	563	---
TOTAL	9074	10174	22432	83340	93385	31426	64633	96986	25144	20507	14495	20274
MEAN	293	339	724	2688	3335	1014	2154	3129	838	662	468	676
MAX	452	998	3750	10100	13700	3340	15500	16300	1490	1670	678	3300
MIN	257	270	347	543	695	430	417	809	536	456	404	406
CFSM	.50	.58	1.25	4.64	5.75	1.75	3.71	5.39	1.45	1.14	.81	1.17
IN.	.58	.65	1.44	5.35	5.99	2.02	4.15	6.22	1.61	1.32	.93	1.30

e Estimated.

MISSISSIPPI RIVER DELTA

07377000 AMITE RIVER NEAR DARLINGTON, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1991, BY WATER YEAR (WY)

MEAN	461	569	1111	1408	1799	1571	1500	1020	636	506	439	493
MAX	2964	2528	4106	6976	4793	5194	6032	4275	2915	2006	1491	2081
(WY)	1965	1958	1972	1990	1966	1980	1983	1953	1975	1989	1975	1975
MIN	197	225	263	339	363	413	346	257	264	261	218	220
(WY)	1964	1970	1967	1957	1970	1955	1963	1965	1969	1960	1954	1963

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1951 - 1991

ANNUAL TOTAL	555451		491870									
ANNUAL MEAN	1522		1348									
HIGHEST ANNUAL MEAN									958			
LOWEST ANNUAL MEAN									1924		1983	
HIGHEST DAILY MEAN	66400	Jan 25	16300	May 1	66400	Jan 25	1990		380		1970	
LOWEST DAILY MEAN	257	Oct 20	257	Oct 20	188	Oct 18	1956		190		Oct 26	1963
ANNUAL SEVEN-DAY MINIMUM	267	Oct 14	267	Oct 14	190	Oct 26	1963		104000		Jan 25	1990
INSTANTANEOUS PEAK FLOW			19500	May 1					22.05		Jan 25	1990
INSTANTANEOUS PEAK STAGE			16.10	May 1					188		Oct 18	1956
INSTANTANEOUS LOW FLOW			256	Oct 19, 20								
INSTANTANEOUS LOW STAGE			2.90	OCT 19, 20								
ANNUAL RUNOFF (CFSM)	2.62		2.32						1.65			
ANNUAL RUNOFF (INCHES)	35.63		31.55						22.45			
10 PERCENT EXCEEDS	3320		2830						1660			
50 PERCENT EXCEEDS	560		614						422			
90 PERCENT EXCEEDS	286		291						253			

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.99	2.95	3.23	3.49	9.06	4.59	3.71	15.12	4.28	3.41	3.15	3.26
2	2.97	2.95	3.15	3.37	5.84	7.53	---	9.89	3.87	3.87	3.12	3.20
3	2.97	2.94	7.43	8.12	4.88	6.90	3.20	6.10	3.67	4.59	3.11	3.23
4	3.04	2.95	6.58	9.46	4.45	6.17	3.12	6.93	3.56	4.34	3.11	3.46
5	3.10	3.03	4.21	6.75	6.38	5.62	3.08	10.44	3.50	4.03	3.11	3.24
6	3.10	3.07	3.61	4.79	10.50	5.27	3.07	9.01	3.44	4.81	3.70	3.19
7	3.04	3.03	3.49	5.07	9.81	5.03	3.07	6.55	3.52	4.46	3.59	3.74
8	3.02	2.99	3.54	4.70	6.83	4.84	3.13	6.83	3.63	5.47	3.35	3.77
9	3.00	3.13	3.41	4.15	5.06	4.64	3.12	11.12	3.44	4.49	3.25	3.88
10	2.96	3.36	3.31	6.47	4.52	4.43	3.08	12.19	3.36	3.77	3.21	3.59
11	2.94	3.20	3.26	11.80	4.25	4.21	3.29	11.46	3.94	3.54	3.38	3.31
12	2.95	3.06	3.22	9.63	4.15	4.05	5.20	8.28	5.11	3.43	3.24	3.18
13	2.96	3.02	3.20	6.47	4.06	3.91	5.53	5.56	4.13	3.36	3.21	3.13
14	2.96	3.00	3.18	4.91	3.97	3.78	4.88	4.73	3.84	3.31	3.16	3.10
15	2.95	2.99	3.17	4.45	3.92	3.68	9.33	4.35	3.72	3.27	3.14	3.07
16	2.94	2.98	3.15	4.51	3.86	3.61	9.82	4.16	3.65	3.25	3.13	3.05
17	2.93	2.97	3.15	4.36	3.80	3.67	8.01	4.14	3.48	3.24	3.11	3.05
18	2.93	2.97	3.16	4.09	3.74	4.06	6.44	7.06	4.50	3.22	3.10	3.04
19	2.91	2.97	3.17	5.48	4.55	4.08	8.10	6.75	5.21	3.25	3.09	3.17
20	2.90	2.97	3.17	6.85	13.23	3.86	6.09	5.30	5.09	3.31	3.08	3.28
21	2.97	2.97	3.17	5.58	14.34	3.64	5.08	4.49	4.20	3.31	3.11	3.14
22	3.28	2.97	3.25	4.50	13.84	3.53	4.44	4.31	4.51	3.22	3.13	3.07
23	3.38	2.99	4.34	4.11	11.92	---	4.84	4.11	3.89	3.23	3.08	3.07
24	3.10	3.01	4.26	5.26	8.49	---	4.11	4.00	3.84	3.33	3.06	3.19
25	3.00	3.00	3.64	8.47	5.93	---	4.97	4.00	4.90	3.21	3.04	5.35
26	2.96	3.00	3.39	7.15	5.42	---	6.14	4.05	3.92	3.18	3.05	7.50
27	2.95	3.00	3.30	5.32	4.98	---	4.91	4.70	4.00	3.17	3.13	5.17
28	2.95	3.49	3.30	4.83	4.64	---	5.24	4.65	4.39	3.17	3.20	3.74
29	2.96	4.47	3.32	5.14	---	---	8.78	4.80	3.79	3.26	3.18	3.43
30	2.96	3.66	3.40	12.59	---	3.87	14.95	5.09	3.52	3.21	3.23	3.30
31	2.95	---	3.66	12.34	---	3.99	---	5.04	---	3.19	3.42	---
MAX	3.38	4.47	7.43	12.59	14.34	---	---	15.12	5.21	5.47	3.70	7.50
MIN	2.90	2.94	3.15	3.37	3.74	---	---	4.00	3.36	3.17	3.04	3.04

07377500 COMITE RIVER NEAR OLIVE BRANCH, LA

LOCATION.--Lat 30°45'21", long 91°02'38", in sec.41, T.3 S., R.2 E., St. Helena Meridian, East Feliciana Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 67, 1,000 ft downstream from Knighton Bayou, and 1.3 mi northeast of Olive Branch.

DRAINAGE AREA.--145 mi².

PERIOD OF RECORD.--August 1942 to current year.

REVISED RECORDS.--WSP 1177: 1948, 1949(M). WSP 1920: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 113.65 ft above National Geodetic Vertical Datum of 1929. Aug. 20, 1942, to Oct. 28, 1949, nonrecording gage, Oct. 29, 1949, to Feb. 3, 1964, water-stage recorder at site 1,400 ft upstream. Prior to Oct. 1, 1977, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges. Records are fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	0705	3,830	7.46	Apr. 12	1730	3,430	6.96
Jan. 11	1815	4,570	8.36	Apr. 18	1510	3,200	6.65
Jan. 31	0230	5,720	9.65	Apr. 30	0257	5,780	9.71
Feb. 5	1500	3,270	6.75	May 10	1443	3,490	7.04
Feb. 20	2100	*6,390	*10.35				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	56	97	199	1130	335	94	2230	404	92	78	95
2	57	56	248	155	442	1170	87	475	e200	95	74	89
3	57	56	1390	1690	402	615	84	435	e150	127	73	82
4	81	56	2610	3170	399	370	82	508	e130	129	72	78
5	71	56	1410	815	1960	211	80	884	e120	106	77	76
6	68	59	279	292	2330	172	81	360	e350	101	522	167
7	56	68	219	443	1240	161	84	251	e300	145	208	116
8	56	56	233	336	435	156	89	949	e150	386	215	86
9	56	72	178	219	e410	154	91	2680	e130	344	94	80
10	56	110	152	1800	e320	e140	81	2940	e125	147	87	76
11	56	82	140	4240	e270	e130	132	1470	e120	102	118	73
12	56	71	137	2800	e240	e120	2730	465	117	93	120	72
13	56	56	136	613	e210	e115	2080	e300	109	89	218	71
14	56	56	130	348	e200	e110	543	e250	110	87	94	71
15	56	56	129	301	188	e120	2350	e200	105	85	81	71
16	56	56	123	372	180	e140	2350	e180	101	86	78	70
17	56	56	120	314	178	196	558	e250	99	93	75	70
18	56	56	123	267	181	237	1790	1870	98	83	74	70
19	56	56	126	812	923	149	1880	2180	113	92	73	120
20	56	56	124	629	4820	120	690	945	142	89	72	97
21	71	56	122	322	4200	100	282	674	105	83	71	76
22	100	56	125	270	2870	94	195	500	99	80	71	70
23	140	56	481	264	1470	91	446	401	106	78	70	182
24	78	56	253	819	447	89	573	398	102	128	70	298
25	68	56	159	1340	283	86	915	412	118	90	70	223
26	56	56	138	497	220	85	1260	393	100	80	70	249
27	56	56	128	309	190	84	605	e350	128	78	78	93
28	56	167	126	307	162	83	345	e300	118	76	750	79
29	56	779	136	464	---	144	2810	e320	96	78	229	74
30	56	191	273	3230	---	395	4580	1050	94	77	93	72
31	56	---	302	4250	---	122	---	922	---	79	94	---
TOTAL	1969	2775	10347	31887	26300	6294	27967	25542	4239	3498	4169	3146
MEAN	63.5	92.5	334	1029	939	203	932	824	141	113	134	105
MAX	140	779	2610	4250	4820	1170	4580	2940	404	386	750	298
MIN	56	56	97	155	162	83	80	180	94	76	70	70
CFSM	.44	.64	2.30	7.09	6.48	1.40	6.43	5.68	.97	.78	.93	.72
IN.	.51	.71	2.65	8.18	6.75	1.61	7.17	6.55	1.09	.90	1.07	.81

e Estimated.

MISSISSIPPI RIVER DELTA

07377500 COMITE RIVER NEAR OLIVE BRANCH, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1991, BY WATER YEAR (WY)

MEAN	114	152	293	382	467	418	372	225	135	120	118	113
MAX	774	758	1137	1506	1454	1266	1445	1232	609	570	512	623
(WY)	1986	1978	1983	1990	1966	1961	1983	1953	1975	1989	1975	1977
MIN	38.4	35.7	53.1	62.8	77.2	77.2	46.2	47.5	47.4	49.3	42.5	38.5
(WY)	1969	1969	1967	1957	1970	1955	1963	1963	1977	1956	1957	1972

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1943 - 1991					
ANNUAL TOTAL	116639			148133								
ANNUAL MEAN	320			406			241					
HIGHEST ANNUAL MEAN							527					
LOWEST ANNUAL MEAN							83.1					
HIGHEST DAILY MEAN	14200	Jan 25		4820	Feb 20		16200	Apr 6	1983			
LOWEST DAILY MEAN	55	Sep 7		56	Oct 7		29	Oct 16	1972			
ANNUAL SEVEN-DAY MINIMUM	56	Oct 7		56	Oct 7		31	Oct 12	1972			
INSTANTANEOUS PEAK FLOW				6390	Feb 20		22400	Apr 22	1977			
INSTANTANEOUS PEAK STAGE				10.35	Feb 20		23.37	Mar 18	1961			
INSTANTANEOUS LOW FLOW				40	several days		28	Oct 12,13,15,16,17,				
					in Oct, Nov			18,19	1972			
INSTANTANEOUS LOW STAGE							.39	Sep 6,7,8,9	1990			
ANNUAL RUNOFF (CFSM)	2.20			2.80			1.66					
ANNUAL RUNOFF (INCHES)	29.92			38.00			22.60					
10 PERCENT EXCEEDS	744			989			446					
50 PERCENT EXCEEDS	100			126			79					
90 PERCENT EXCEEDS	56			56			46					

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	.40	.68	1.13	3.31	1.79	1.00	5.26	2.12	1.13	1.08	1.23
2	.41	.40	1.30	.96	1.88	3.64	.95	2.29	---	1.15	1.06	1.18
3	.41	.40	3.90	4.27	1.70	2.55	.93	2.19	---	1.31	1.06	1.14
4	.57	.40	5.85	6.59	1.76	1.95	.92	2.36	---	1.32	1.05	1.11
5	.50	.40	3.95	2.67	4.61	1.49	.91	3.16	---	1.22	1.08	1.10
6	.48	.42	1.40	1.44	5.44	1.36	.91	2.00	---	1.19	2.45	1.42
7	.40	.48	1.20	1.88	3.53	1.32	.93	1.70	---	1.34	1.63	1.33
8	.40	.40	1.25	1.57	1.86	1.31	.97	3.14	---	2.10	1.66	1.16
9	.40	.51	1.05	1.20	---	1.30	.98	5.94	---	1.98	1.21	1.12
10	.40	.78	.95	4.20	---	---	.91	6.29	---	1.40	1.16	1.10
11	.40	.58	.89	7.97	---	---	1.15	4.14	---	1.21	1.33	1.08
12	.40	.50	.85	6.04	---	---	5.95	2.27	1.25	1.15	1.34	1.07
13	.40	.40	.88	2.29	---	---	5.05	---	1.20	1.13	1.68	1.06
14	.40	.40	.86	1.61	---	---	2.34	---	1.21	1.11	1.22	1.06
15	.40	.40	.86	1.47	1.39	---	5.48	---	1.18	1.10	1.13	1.06
16	.40	.40	.84	1.68	1.06	---	5.47	---	1.16	1.10	1.11	1.06
17	.40	.40	.83	1.51	1.05	1.44	2.38	---	1.14	1.16	1.09	1.05
18	.40	.40	.84	1.36	1.06	1.57	4.42	4.75	1.14	1.10	1.08	1.06
19	.40	.40	.85	2.76	2.53	1.28	4.80	5.24	1.20	1.15	1.08	1.32
20	.40	.40	.84	2.33	8.61	1.17	2.67	3.23	1.36	1.14	1.07	1.23
21	.51	.40	.84	1.53	7.87	1.05	1.71	2.74	1.20	1.09	1.06	1.10
22	.70	.40	.85	1.37	6.20	1.00	1.44	2.36	1.15	1.08	1.06	1.06
23	.90	.40	1.93	1.35	4.08	.98	2.05	2.12	1.20	1.07	1.06	1.38
24	.55	.40	1.31	2.70	2.15	.96	2.42	2.11	1.17	1.32	1.06	1.85
25	.48	.40	.98	3.80	1.72	.95	3.08	2.14	1.26	1.15	1.06	1.71
26	.40	.40	.89	2.01	1.52	.94	3.81	2.09	1.17	1.09	1.05	1.77
27	.40	.40	.85	1.50	1.42	.93	2.52	---	1.28	1.07	1.11	1.21
28	.40	1.01	.85	1.49	1.32	.92	1.89	---	1.26	1.07	2.90	1.12
29	.40	2.70	.89	1.86	---	1.18	5.62	---	1.14	1.08	1.69	1.08
30	.40	1.10	1.35	6.62	---	2.00	8.34	3.46	1.13	1.08	1.21	1.07
31	.40	---	1.47	7.91	---	1.16	---	3.19	---	1.09	1.21	---
MEAN	.45	.55	1.36	2.81	---	---	2.73	---	---	1.22	1.29	1.21
MAX	.90	2.70	5.85	7.97	---	---	8.34	---	---	2.10	2.90	1.85
MIN	.40	.40	.68	.96	---	---	.91	---	---	1.07	1.05	1.05

07377782 WHITE BAYOU SOUTHEAST OF ZACHARY, LA

LOCATION.--Lat 30°38'13", long 91°07'39", at center of E 1/2 sec.39, T.5 S., R.1 E., St. Helena Meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on Lower Zachary Road, 1.5 mi downstream from Indian Bayou, and 2.0 mi southeast of Zachary.

DRAINAGE AREA.--45 mi², approximately.

PERIOD OF RECORD.--August 1972 to current year. Daily gage heights from January 1965 to July 1972 published as White Bayou near Zachary by Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 65.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--No estimated daily discharges. Records are fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	0700	2,080	17.98	May 3	0230	2,240	18.51
Feb. 20	0315	*2,270	*18.59	May 10	1515	2,210	18.41
Apr. 29	2100	2,100	18.05				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.57	6.9	44	216	5.1	123	33	4.1	2.6	12
2	.00	.00	20	15	25	418	2.5	201	16	2.7	1.2	17
3	.01	.00	428	578	18	80	1.5	1210	20	20	.92	9.2
4	.51	.00	421	256	13	36	1.2	163	14	7.2	.83	14
5	1.0	.00	29	21	916	21	1.1	70	6.8	32	3.1	65
6	.85	.00	4.2	7.3	930	15	.95	23	7.9	29	43	253
7	.71	.00	4.7	225	89	12	1.6	13	5.4	59	20	223
8	.66	.00	3.0	57	35	9.5	3.3	633	3.6	80	8.3	59
9	.32	4.3	2.1	14	23	7.5	2.0	1170	3.7	20	3.7	17
10	.00	.57	1.3	575	18	5.5	4.4	1530	1.5	8.4	2.4	11
11	.00	.03	.77	1870	13	3.8	30	582	277	4.4	9.4	7.7
12	.00	.00	.45	591	11	2.7	128	42	310	2.3	29	4.0
13	.00	.00	.27	33	8.9	2.7	79	21	48	1.5	11	2.4
14	.00	.00	.19	12	8.2	2.0	151	13	13	1.2	4.8	1.6
15	.00	.00	.11	14	7.4	1.7	818	148	6.5	1.0	2.2	1.4
16	.00	.00	.09	28	5.1	4.9	260	122	3.8	.90	1.4	1.2
17	.00	.00	.05	12	4.2	118	26	36	2.8	.95	1.2	1.1
18	.00	.00	.07	17	3.4	58	552	65	2.3	.88	1.0	1.1
19	.00	.00	.10	350	506	22	654	55	7.3	.85	.97	204
20	.00	.00	.10	81	2090	13	117	24	6.5	.83	.88	42
21	.41	.00	.07	22	1040	8.9	33	424	2.9	1.0	.84	12
22	.54	.00	.15	8.0	984	7.0	16	130	2.2	1.2	.79	4.9
23	.00	.00	.36	5.4	209	5.2	132	64	1.5	1.1	.79	4.9
24	.00	.00	.19	464	35	3.8	27	96	2.9	1.1	.75	64
25	.00	.00	.08	375	23	2.6	496	92	55	1.1	.72	84
26	.00	.00	.03	41	18	2.5	442	66	20	1.1	.71	35
27	.00	.00	.02	25	15	2.2	428	54	28	1.2	60	14
28	.00	1.3	.14	51	14	2.0	72	56	61	1.2	564	7.3
29	.00	15	.10	115	---	3.6	1130	52	11	7.9	337	3.6
30	.00	2.8	16	768	---	16	1050	545	4.4	4.3	23	2.0
31	.00	---	14	505	---	9.9	---	224	---	9.6	15	---
TOTAL	5.01	24.00	947.21	7142.6	7106.2	1113.0	6664.65	8047	978.0	308.01	1151.50	1178.4
MEAN	.16	.80	30.6	230	254	35.9	222	260	32.6	9.94	37.1	39.3
MAX	1.0	15	428	1870	2090	418	1130	1530	310	80	564	253
MIN	.00	.00	.02	5.4	3.4	1.7	.95	13	1.5	.83	.71	1.1
CFSM	.00	.02	.68	5.12	5.64	.80	4.94	5.77	.72	.22	.83	.87
IN.	.00	.02	.78	5.90	5.87	.92	5.51	6.65	.81	.25	.95	.97

MISSISSIPPI RIVER DELTA

07377782 WHITE BAYOU SOUTHEAST OF ZACHARY, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1991, BY WATER YEAR (WY)

MEAN	41.0	47.4	99.0	149	168	110	133	73.2	55.0	40.7	47.5	44.0
MAX	372	209	369	426	378	335	423	260	519	282	203	226
(WY)	1985	1978	1983	1990	1988	1980	1983	1991	1989	1975	1987	1988
MIN	.16	.60	12.5	2.52	15.1	13.4	1.11	1.50	.56	1.41	1.15	.016
(WY)	1991	1982	1982	1981	1989	1982	1981	1988	1977	1982	1976	1990

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1973 - 1991	
ANNUAL TOTAL	24784.44		34665.58		83.5	
ANNUAL MEAN	67.9		95.0		142	
HIGHEST ANNUAL MEAN					1983	
LOWEST ANNUAL MEAN					32.2	
HIGHEST DAILY MEAN	2770	Jan 25	2090	Feb 20	4270	Apr 22 1977
LOWEST DAILY MEAN	.00	Aug 28	.00	Oct 1	.00	Aug 20 1974
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 28	.00	Oct 10	.00	Oct 3 1974
INSTANTANEOUS PEAK FLOW			2270	Feb 20	4730	Apr 6 1983
INSTANTANEOUS PEAK STAGE			18.59	Feb 20	23.24	Apr 6 1983
INSTANTANEOUS LOW FLOW			No flow	many days	No flow	many days in most years
ANNUAL RUNOFF (CFSM)	1.51		2.11		1.86	
ANNUAL RUNOFF (INCHES)	20.49		28.66		25.21	
10 PERCENT EXCEEDS	112		290		188	
50 PERCENT EXCEEDS	3.0		7.2		4.8	
90 PERCENT EXCEEDS	.00		.00		.40	

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.29	2.08	2.74	3.44	4.54	6.29	2.90	5.76	4.23	2.87	2.68	3.20
2	2.30	2.07	3.29	3.51	3.83	9.13	2.70	5.65	3.57	2.79	2.43	3.44
3	2.33	2.07	8.89	10.46	3.52	5.42	2.54	13.54	3.74	3.68	2.33	3.07
4	2.67	2.08	9.23	7.39	3.33	4.27	2.46	6.62	3.47	3.05	2.28	3.24
5	2.94	2.24	4.13	3.97	11.77	3.65	2.42	5.12	3.16	4.09	2.42	5.03
6	2.88	2.13	3.30	3.47	12.75	3.39	2.36	3.83	3.17	4.01	4.50	6.92
7	2.81	2.09	3.33	7.11	5.48	3.26	2.45	3.40	3.06	4.79	3.62	6.97
8	2.78	2.09	3.22	4.88	4.22	3.15	2.80	10.03	2.92	5.32	3.05	4.81
9	2.56	3.17	3.12	3.73	3.73	3.03	2.65	14.33	2.94	3.67	2.77	3.44
10	2.23	2.72	2.94	9.33	3.53	2.91	2.65	15.61	2.67	3.16	2.66	3.17
11	2.15	2.32	2.74	17.27	3.32	2.81	4.00	10.11	6.39	2.92	3.07	2.98
12	2.13	2.19	2.57	10.00	3.21	2.72	5.96	4.48	8.22	2.72	3.96	2.77
13	2.11	2.14	2.46	4.35	3.11	2.72	5.06	3.72	4.53	2.59	3.16	2.62
14	2.13	2.11	2.40	3.68	3.08	2.63	5.09	3.42	3.45	2.48	2.82	2.51
15	2.13	2.10	2.34	3.74	3.02	2.58	12.13	5.83	3.14	2.42	2.61	2.43
16	2.13	2.11	2.32	4.22	2.88	2.77	7.24	5.92	2.96	2.37	2.46	2.38
17	2.15	2.11	2.29	3.66	2.84	6.01	3.89	4.31	2.86	2.39	2.38	2.36
18	2.20	2.11	2.30	3.69	2.78	4.84	9.40	5.03	2.80	2.36	2.34	2.34
19	2.24	2.12	2.33	8.62	7.32	3.69	10.97	4.86	3.15	2.34	2.31	6.43
20	2.25	2.11	2.33	5.34	18.00	3.30	6.04	3.87	3.11	2.33	2.28	4.36
21	2.35	2.12	2.30	3.99	13.48	3.11	4.16	9.17	2.86	2.40	2.26	3.21
22	2.65	2.13	2.36	3.51	13.15	2.99	3.51	6.00	2.77	2.47	2.23	2.81
23	2.29	2.16	2.52	3.37	6.84	2.89	6.04	4.88	2.63	2.44	2.23	2.76
24	2.19	2.16	2.40	9.08	4.24	2.80	3.95	5.57	2.69	2.43	2.21	4.74
25	2.12	2.17	2.31	8.67	3.75	2.70	9.24	5.63	4.71	2.42	2.20	5.48
26	2.10	2.16	2.27	4.56	3.53	2.69	9.36	5.14	3.70	2.42	2.19	4.16
27	2.10	2.17	2.26	4.10	3.41	2.65	9.29	4.83	3.64	2.44	4.03	3.29
28	2.08	2.70	2.36	4.83	3.35	2.62	5.15	4.79	4.86	2.44	10.40	2.95
29	2.06	3.81	2.33	5.63	---	2.78	12.25	4.35	3.31	2.89	7.86	2.73
30	2.06	3.23	3.65	11.82	---	3.43	13.52	10.17	2.95	2.72	3.73	2.56
31	2.07	---	3.73	9.62	---	3.17	---	7.13	---	3.14	3.33	---
MAX	2.94	3.81	9.23	17.27	18.00	9.13	13.52	15.61	8.22	5.32	10.40	6.97
MIN	2.06	2.07	2.26	3.37	2.78	2.58	2.36	3.40	2.63	2.33	2.19	2.34

07378000 COMITE RIVER NEAR COMITE, LA

LOCATION.--Lat 30°30'45", long 91°04'25", on line between sections 24 and 44, T.6 S., R.1 E., St. Helena meridian, East Baton Rouge Parish, Hydrologic Unit 08070202, near left bank on downstream side of bridge on State Highway 946, 0.5 mi downstream from Blackwater Bayou, and 2.6 mi west of Comite.

DRAINAGE AREA.--284 mi².

PERIOD OF RECORD.--March 1944 to current year.

REVISED RECORDS.--WSP 1920: Drainage area. WDR LA-85-1: 1984.

GAGE.--Water-stage recorder. Datum of gage is 23.85 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to Apr. 22, 1946, nonrecording gage at same site. Prior to Oct. 1, 1962, at datum 5.00 ft higher. Prior to Oct. 1, 1978, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 13,600 ft³/s. Feb. 20, gage height, 20.76 ft; minimum daily discharge, 84 ft³/s. Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	90	162	194	e2100	510	165	5140	478	163	124	360
2	89	90	116	129	e600	2050	139	1990	287	209	120	301
3	88	90	1720	1790	e500	1420	130	4650	231	232	119	191
4	123	90	6050	3770	e520	543	124	1680	206	271	118	139
5	134	89	2930	1520	e4200	336	122	1110	196	521	166	288
6	108	90	525	322	6290	255	125	642	517	319	712	521
7	99	98	274	586	2150	218	133	333	556	824	409	1630
8	93	96	225	444	594	194	150	3010	205	811	266	286
9	90	97	191	225	342	172	130	7800	183	445	210	186
10	89	96	148	2390	265	156	126	9120	181	259	341	137
11	89	152	125	9420	225	145	146	6190	762	190	399	118
12	89	144	113	7430	198	141	1520	1840	1030	163	424	107
13	88	130	104	1650	179	140	2860	643	333	149	223	102
14	89	110	97	481	168	141	935	408	223	142	214	99
15	89	101	91	384	154	136	3990	495	192	137	146	125
16	88	95	89	358	143	160	3090	401	172	134	128	116
17	88	93	86	333	137	669	1230	285	165	139	122	97
18	88	90	97	292	134	452	2880	1500	175	156	117	96
19	87	90	95	1280	1120	273	4780	2510	166	137	114	1400
20	87	90	88	947	11600	196	1730	1490	237	139	111	307
21	86	90	84	e420	10400	166	465	1340	213	151	109	147
22	405	90	136	e300	7980	153	269	738	189	136	107	109
23	211	90	215	e290	3720	144	280	525	170	128	106	128
24	176	90	324	e1500	1230	139	520	474	172	125	105	400
25	134	90	147	e2200	528	135	1340	441	221	165	105	455
26	107	90	110	e700	341	132	2070	528	211	136	104	308
27	98	90	96	e400	277	130	1430	470	225	125	346	180
28	95	101	100	e390	242	127	537	465	230	121	1610	122
29	93	341	93	e630	---	139	5560	308	179	125	947	106
30	93	458	104	e7000	---	339	10800	1590	159	132	1090	99
31	92	---	254	e10000	---	262	---	1650	---	124	1360	---
TOTAL	3474	3551	14989	57775	56337	10173	47776	59766	8464	7008	10572	8660
MEAN	112	118	484	1864	2012	328	1593	1928	282	226	341	289
MAX	405	458	6050	10000	11600	2050	10800	9120	1030	824	1610	1630
MIN	86	89	84	129	134	127	122	285	159	121	104	96
CFSM	.39	.42	1.70	6.56	7.08	1.16	5.61	6.79	.99	.80	1.20	1.02
IN.	.46	.47	1.96	7.57	7.38	1.33	6.26	7.83	1.11	.92	1.38	1.13

e Estimated.

MISSISSIPPI RIVER DELTA

07378000 COMITE RIVER NEAR COMITE, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1991, BY WATER YEAR (WY)

MEAN	231	267	584	793	953	796	807	503	256	222	242	221
MAX	1753	1230	3042	3690	3419	2435	3531	3261	2158	1139	1243	1460
(WY)	1965	1949	1983	1990	1966	1980	1983	1953	1989	1989	1975	1977
MIN	32.2	45.9	67.2	79.0	113	109	58.5	53.3	63.3	80.0	53.8	52.0
(WY)	1964	1957	1967	1957	1968	1955	1963	1963	1964	1948	1954	1952

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1945 - 1991		
ANNUAL TOTAL	228619			288545					
ANNUAL MEAN	626			791			491		
HIGHEST ANNUAL MEAN							1096		
LOWEST ANNUAL MEAN							125		
HIGHEST DAILY MEAN	20100	Jan 26		11600	Feb 20		34400	Apr 7	1983
LOWEST DAILY MEAN	74	Jun 21		84	Dec 21		29	Oct 29	1963
ANNUAL SEVEN-DAY MINIMUM	79	Jun 16		88	Oct 15		29	Oct 28	1963
INSTANTANEOUS PEAK FLOW				13600	Feb 20		37000	Apr 7	1983
INSTANTANEOUS PEAK STAGE				20.76	Feb 20		30.64	May 19	1953
INSTANTANEOUS LOW FLOW							28	Aug 1	1977
ANNUAL RUNOFF (CFSM)	2.21			2.78			1.73		
ANNUAL RUNOFF (INCHES)	29.95			37.80			23.47		
10 PERCENT EXCEEDS	1360			1750			1010		
50 PERCENT EXCEEDS	137			191			125		
90 PERCENT EXCEEDS	85			91			58		

GAGE HEIGHT (FEET ABOVE), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.49	1.51	2.12	2.34	---	3.27	1.51	12.23	3.43	1.67	1.43	2.90
2	1.48	1.51	1.77	1.86	---	7.58	1.32	7.49	2.45	1.99	1.41	2.60
3	1.48	1.50	7.54	7.27	---	6.14	1.25	11.59	2.10	2.16	1.40	1.96
4	1.79	1.50	14.00	11.43	---	3.72	1.21	6.86	1.93	2.39	1.39	1.58
5	1.90	1.49	10.01	6.78	---	2.64	1.20	5.52	1.86	3.56	1.67	2.45
6	1.67	1.51	4.03	3.08	13.79	2.12	1.22	4.05	2.97	2.65	4.38	3.32
7	1.59	1.58	2.83	4.25	7.75	1.87	1.28	2.68	3.48	4.31	3.18	6.53
8	1.53	1.56	2.53	3.65	3.88	1.69	1.41	8.61	1.93	4.62	2.43	2.53
9	1.50	1.57	2.33	2.54	2.68	1.54	1.27	16.48	1.76	3.32	2.07	1.92
10	1.49	1.56	2.01	7.44	2.20	1.44	1.24	17.76	1.75	2.34	2.47	1.56
11	1.49	2.05	1.82	18.18	1.92	1.36	1.39	14.42	3.79	1.89	2.99	1.41
12	1.49	1.98	1.71	14.54	1.72	1.33	5.65	7.13	5.09	1.69	3.20	1.32
13	1.48	1.86	1.63	6.61	1.59	1.32	9.06	4.07	2.71	1.60	2.17	1.28
14	1.49	1.69	1.56	3.54	1.52	1.32	4.89	3.08	2.06	1.55	2.10	1.25
15	1.49	1.60	1.51	3.15	1.42	1.29	10.84	3.48	1.85	1.51	1.63	1.45
16	1.48	1.55	1.48	3.04	1.34	1.45	9.46	3.06	1.70	1.48	1.50	1.40
17	1.48	1.53	1.46	2.92	1.29	4.20	5.64	2.40	1.66	1.52	1.44	1.24
18	1.48	1.51	1.56	2.64	1.27	3.28	8.29	6.06	1.72	1.65	1.41	1.23
19	1.46	1.50	1.54	5.96	3.98	2.24	11.83	8.48	1.66	1.51	1.38	5.64
20	1.46	1.51	1.47	5.10	19.29	1.71	6.87	6.33	2.16	1.53	1.36	2.60
21	1.45	1.51	1.43	---	19.10	1.50	3.34	6.03	2.01	1.62	1.34	1.64
22	3.51	1.50	1.85	---	16.96	1.41	2.27	4.42	1.84	1.51	1.32	1.34
23	2.57	1.50	2.43	---	10.38	1.35	2.34	3.65	1.70	1.45	1.31	1.47
24	2.23	1.51	3.07	---	5.79	1.31	3.59	3.42	1.72	1.43	1.31	3.09
25	1.89	1.51	2.00	---	3.64	1.28	5.76	3.28	2.07	1.73	1.30	3.38
26	1.66	1.52	1.68	---	2.68	1.26	7.63	3.69	2.00	1.52	1.30	2.67
27	1.58	1.50	1.56	---	2.28	1.24	6.28	3.42	2.06	1.43	2.55	1.87
28	1.55	1.60	1.60	---	2.03	1.22	3.68	3.38	2.14	1.41	6.66	1.45
29	1.53	3.19	1.53	---	---	1.31	11.16	2.57	1.78	1.44	4.82	1.32
30	1.53	3.75	1.63	---	---	2.59	19.13	6.26	1.64	1.49	4.28	1.25
31	1.52	---	2.72	---	---	2.17	---	6.73	---	1.43	5.63	---
MEAN	1.67	1.71	2.79	---	---	2.20	5.07	6.41	2.23	1.98	2.35	2.19
MAX	3.51	3.75	14.00	---	---	7.58	19.13	17.76	5.09	4.62	6.66	6.53
MIN	1.45	1.49	1.43	---	---	1.22	1.20	2.40	1.64	1.41	1.30	1.23

07378083 BEAVER BAYOU AT HOOPER ROAD, NEAR BATON ROUGE, LA

LOCATION.--Lat 30°33'39", long 91°01'15", in sec.4, T.6 S., R.2 E., St. Helena Meridian, East Baton Rouge Parish, Hydrologic Unit 08070207, near center of box culvert on downstream side of State Highway 408, 1,200 ft east of Roundsville Road, and 8.6 mi northeast of Baton Rouge Post Office.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March 1982 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 50.00 ft above National Geodetic Vertical Datum of 1929 (levels by East Baton Rouge Parish, Department of Public Works).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.98 ft, Apr. 6, 1983; minimum, 2.70 ft, June 13, 14, 18, 19, 20, 21, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.25 ft, Apr. 29; minimum, not determined.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.74	2.77	2.84	---	---	4.41	2.84	3.81	2.94	---	---	4.03
2	2.74	2.75	2.85	---	---	4.47	2.82	3.53	2.90	---	---	4.08
3	2.75	2.78	5.74	---	---	4.33	2.83	4.74	2.91	---	---	3.94
4	3.37	2.76	3.76	---	---	3.52	2.83	5.40	2.93	---	---	3.40
5	3.14	2.92	3.24	---	---	3.24	2.82	3.97	---	---	---	3.82
6	2.90	2.82	3.06	---	---	3.12	2.83	3.36	---	---	---	4.45
7	2.82	2.79	3.40	---	---	3.04	2.94	3.11	---	---	---	4.18
8	2.79	2.77	3.23	---	3.30	3.00	2.99	8.51	---	---	---	3.44
9	2.77	3.57	3.06	---	3.13	2.95	2.90	10.24	---	---	---	3.22
10	2.78	3.17	2.96	---	3.06	2.90	2.87	8.24	---	---	---	3.08
11	2.79	2.95	2.91	---	3.02	2.90	2.85	4.74	---	---	---	3.00
12	2.78	2.85	2.87	---	3.01	2.90	2.85	3.62	---	---	---	2.94
13	2.79	2.81	2.87	---	2.99	2.90	2.84	3.28	---	---	3.47	2.92
14	2.78	2.80	---	---	2.99	2.88	3.46	3.12	---	---	3.13	2.91
15	2.79	2.78	---	---	2.96	2.87	4.75	3.43	---	---	3.03	2.91
16	2.78	2.78	---	---	2.94	3.09	3.42	3.52	---	---	2.97	2.92
17	2.78	2.77	---	---	2.95	4.87	3.38	3.43	---	---	3.03	2.89
18	2.79	2.76	---	---	2.94	3.65	6.56	4.21	---	---	2.91	2.89
19	2.78	2.77	---	---	4.52	3.25	4.24	3.80	---	---	2.89	4.44
20	2.80	2.76	---	---	10.53	3.06	4.02	3.27	---	---	2.88	3.60
21	3.45	2.77	---	---	6.62	2.99	3.39	3.48	---	---	2.87	3.17
22	4.21	2.78	---	---	6.67	2.94	3.11	3.38	---	---	2.87	3.02
23	3.24	2.79	---	---	3.82	2.92	3.04	3.20	---	---	2.87	3.11
24	2.97	2.78	---	---	3.38	2.90	2.98	3.36	---	---	2.87	3.47
25	2.85	2.78	---	---	3.21	2.89	4.80	3.56	---	---	2.86	4.70
26	2.82	2.79	---	---	3.11	2.87	4.05	4.07	---	---	2.86	3.45
27	2.80	2.80	---	---	3.04	2.87	3.92	3.96	---	---	4.90	3.12
28	2.79	3.04	---	---	3.00	2.87	3.64	4.06	---	---	4.88	2.99
29	2.79	2.98	---	---	---	3.01	8.23	3.35	---	---	3.47	2.94
30	2.77	2.92	---	---	---	2.90	6.36	3.09	---	---	4.40	2.91
31	2.77	---	---	---	---	2.86	---	3.00	---	---	5.81	---
MAX	4.21	3.57	---	---	---	4.87	8.23	10.24	---	---	---	4.70
MIN	2.74	2.75	---	---	---	2.86	2.82	3.00	---	---	---	2.89

MISSISSIPPI RIVER DELTA

07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA

LOCATION.--Lat 30°27'50", long 90°59'25", in sec.2, T.7 S., R.2 E., St. Helena Meridian, East Baton Rouge-Livingston Parish line, Hydrologic Unit 08070202, on downstream side of bridge on U.S. Highway 190, 1,000 ft downstream from Comite River, 2.3 mi southwest of town of Denham Springs, and 15 mi east of Baton Rouge.

DRAINAGE AREA.--1,280 mi².

PERIOD OF RECORD.--September 1938 to current year.

REVISED RECORDS.--WSP 1920: Drainage area.

GAGE.--Water-stage recorder and data-collection platform. Datum of gage is National Geodetic Vertical Datum of 1929. Sept. 1, 1938, to Aug. 8, 1939, nonrecording gage at same site. Prior to Oct. 1, 1977, at datum 3.87 ft higher. Water-stage recorder for Amite River at 4-H Camp, near Denham Springs (station 07378510) used as auxiliary gage for this station from October 1945 to September 1983.

REMARKS.--No estimated daily discharges. Records good. Since 1957, considerable flow from 46 mi² diverted from basin. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 12,000 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Elevation (ft)	Date	Time	Discharge (ft ³ /s)	Elevation (ft)
Jan. 12	1330	21,600	28.31	Apr. 19	1900	12,400	25.56
Feb. 1	0130	18,600	27.59	May 1	1000	28,400	29.69
Feb. 7	0030	13,900	26.19	May 11	1130	31,500	30.26
Feb. 22	0500	*37,700	*31.01				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	439	429	838	938	17000	2880	1250	27700	3150	1000	718	1640
2	433	427	624	808	11100	5130	1020	24400	2180	1020	699	1410
3	434	427	2990	2160	4850	7690	909	18600	1700	1610	677	1080
4	568	430	8780	7320	2460	5160	856	11600	1450	1730	666	853
5	609	473	8550	8970	5380	3460	824	9030	1310	1910	742	1010
6	512	464	2720	4360	12400	2540	810	9460	1310	1850	1620	1260
7	490	464	1460	2640	13500	2070	860	8190	2520	2770	1460	2640
8	466	459	1120	2340	10700	1810	913	8520	1340	3700	1330	1670
9	451	774	1000	1800	5960	1610	847	17500	1230	3080	1130	1190
10	439	666	881	3370	2750	1440	853	26500	1170	2060	1200	1090
11	425	669	782	13100	2070	1320	839	30700	1860	1430	1940	960
12	421	586	724	20500	1770	1240	1490	22600	3980	1140	1690	807
13	420	496	686	15500	1560	1190	4480	12800	2800	1010	1450	733
14	423	464	658	7750	1420	1140	3710	6130	2170	940	1040	691
15	424	453	634	3370	1330	1090	5810	3520	1650	911	835	688
16	422	446	618	2410	1240	1090	9660	2950	1360	868	749	719
17	420	440	607	2180	1160	2450	9960	2320	1260	835	711	640
18	419	435	644	1860	1100	2480	8930	3330	1160	854	687	621
19	411	435	667	3420	1460	2030	11800	7390	1450	1270	668	1970
20	408	434	617	4410	12200	1570	11100	7310	2060	1500	650	1250
21	588	434	605	3800	29300	1300	6730	5180	2080	1030	637	811
22	1600	433	694	2600	34300	1160	3150	4590	1610	963	636	693
23	747	440	991	1840	26500	1080	2380	3370	1580	836	644	669
24	712	440	1410	3550	17100	1020	2560	3260	1280	830	616	1060
25	541	444	1200	6900	10500	975	2930	2780	1460	994	604	1470
26	468	448	876	7570	4750	938	5350	3190	1880	816	597	2010
27	447	443	733	4890	2720	915	5470	3120	1470	753	953	3130
28	438	520	719	3460	2230	896	4260	3310	1570	728	2560	1920
29	438	969	684	3050	---	934	6220	2590	1600	740	2180	1120
30	433	1410	695	5900	---	1340	19400	3130	1170	787	1610	910
31	431	---	858	14400	---	1550	---	4460	---	756	3590	---
TOTAL	15877	15852	45065	167166	238810	61498	135371	299530	52810	40721	35289	36715
MEAN	512	528	1454	5392	8529	1984	4512	9662	1760	1314	1138	1224
MAX	1600	1410	8780	20500	34300	7690	19400	30700	3980	3700	3590	3130
MIN	408	427	605	808	1100	896	810	2320	1160	728	597	621
CFSM	.40	.41	1.14	4.21	6.66	1.55	3.53	7.55	1.38	1.03	.89	.96
IN.	.46	.46	1.31	4.86	6.94	1.79	3.93	8.71	1.53	1.18	1.03	1.07

07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1991, BY WATER YEAR (WY)

MEAN	903	1166	2425	3107	3930	3548	3376	2256	1281	1171	1093	1039
MAX	5821	4733	9423	14540	11810	9131	13150	13590	5039	5309	4919	5637
(WY)	1965	1958	1983	1990	1966	1973	1980	1953	1989	1940	1983	1977
MIN	296	323	420	515	609	823	512	419	452	466	386	359
(WY)	1964	1940	1967	1957	1968	1967	1963	1963	1963	1960	1954	1952

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1939 - 1991	
ANNUAL TOTAL	1067750		1144704			
ANNUAL MEAN	2925		3136		2099	
HIGHEST ANNUAL MEAN					4433	
LOWEST ANNUAL MEAN					669	
HIGHEST DAILY MEAN	79600	Jan 27	34300	Feb 22	105000	Apr 8 1983
LOWEST DAILY MEAN	408	Oct 20	408	Oct 20	271	Oct 17,18 1956
ANNUAL SEVEN-DAY MINIMUM	418	Oct 14	418	Oct 14	275	Oct 29 1963
INSTANTANEOUS PEAK FLOW			37700	Feb 22	112000	Apr 8 1983
INSTANTANEOUS PEAK STAGE			31.01	Feb 22	41.50	Apr 8 1983
INSTANTANEOUS LOW FLOW			407	Oct 20,21	271	Oct 17,18 1956
INSTANTANEOUS LOW STAGE			10.70	Oct 20,21		
ANNUAL RUNOFF (CFSM)	2.29		2.45		1.64	
ANNUAL RUNOFF (INCHES)	31.03		33.27		22.29	
10 PERCENT EXCEEDS	8590		8320		4620	
50 PERCENT EXCEEDS	836		1300		854	
90 PERCENT EXCEEDS	448		452		426	

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.84	10.80	12.13	12.42	27.14	16.66	13.23	29.56	17.23	12.62	11.56	14.00
2	10.82	10.79	11.48	12.04	24.82	20.28	12.64	28.92	15.28	12.64	11.50	13.45
3	10.82	10.79	16.52	15.12	19.78	22.79	12.34	27.56	14.26	14.06	11.43	12.62
4	11.27	10.80	23.47	22.35	15.86	20.41	12.18	25.14	13.70	14.32	11.39	11.98
5	11.43	10.98	23.26	23.65	19.82	17.82	12.09	23.71	13.37	14.70	11.63	12.42
6	11.12	10.95	16.29	19.15	25.51	16.03	12.05	23.98	13.36	14.57	13.95	13.10
7	11.05	10.95	13.71	16.24	26.04	15.06	12.20	23.13	15.95	16.40	13.58	16.20
8	10.96	10.93	12.92	15.63	24.69	14.49	12.35	23.22	13.43	18.26	13.28	14.07
9	10.89	11.92	12.61	14.46	21.07	14.05	12.16	27.18	13.19	17.09	12.78	12.92
10	10.84	11.61	12.26	17.25	16.45	13.68	12.18	29.33	13.04	14.94	12.83	12.67
11	10.78	11.62	11.96	25.62	15.06	13.40	12.13	30.10	14.51	13.52	14.61	12.30
12	10.76	11.36	11.79	28.05	14.41	13.21	13.67	28.48	18.75	12.81	14.11	11.84
13	10.76	11.07	11.67	26.62	13.94	13.09	19.51	25.62	16.55	12.46	13.54	11.61
14	10.77	10.95	11.59	22.62	13.64	12.97	18.27	21.29	15.26	12.25	12.53	11.48
15	10.77	10.90	11.51	17.63	13.42	12.84	21.05	17.93	14.14	12.16	11.92	11.46
16	10.77	10.87	11.46	15.76	13.22	12.85	24.10	16.85	13.49	12.03	11.66	11.56
17	10.76	10.85	11.43	15.28	13.01	15.85	24.28	15.59	13.26	11.92	11.54	11.31
18	10.75	10.83	11.54	14.61	12.88	15.92	23.63	17.43	13.01	11.99	11.47	11.25
19	10.72	10.82	11.62	17.74	13.65	14.96	25.25	22.56	13.68	13.05	11.40	14.58
20	10.71	10.82	11.46	19.43	24.82	13.96	24.91	22.50	15.03	13.67	11.34	13.03
21	11.23	10.82	11.42	18.46	29.83	13.36	21.88	20.47	15.08	12.51	11.30	11.85
22	13.99	10.81	11.69	16.15	30.76	13.03	17.21	19.66	14.06	12.31	11.30	11.48
23	11.86	10.85	12.58	14.56	29.30	12.82	15.70	17.66	13.99	11.93	11.32	11.40
24	11.75	10.85	13.60	17.83	27.15	12.67	16.07	17.44	13.30	11.91	11.24	12.55
25	11.21	10.86	13.10	22.17	24.48	12.53	16.78	16.53	13.71	12.41	11.20	13.62
26	10.97	10.88	12.24	22.70	19.73	12.42	20.68	17.32	14.64	11.87	11.17	14.80
27	10.88	10.86	11.82	20.03	16.40	12.36	20.84	17.18	13.73	11.67	12.16	17.21
28	10.84	11.14	11.77	17.83	15.40	12.30	19.16	17.54	13.96	11.59	16.03	14.62
29	10.84	12.40	11.67	17.04	---	12.41	20.54	16.15	14.03	11.63	15.19	12.76
30	10.82	13.60	11.70	20.91	---	13.41	27.70	17.14	13.05	11.78	13.76	12.15
31	10.81	---	12.19	26.21	---	13.91	---	19.49	---	11.68	17.91	---
MAX	13.99	13.60	23.47	28.05	30.76	22.79	27.70	30.10	18.75	18.26	17.91	17.21
MIN	10.71	10.79	11.42	12.04	12.88	12.30	12.05	15.59	13.01	11.59	11.17	11.25

MISSISSIPPI RIVER DELTA

07380101 BAYOU MANCHAC NEAR LITTLE PRAIRIE, LA

LOCATION.--Lat 30°20'25", long 90°55'02", in sec.39, T.8 S., R.3 E., Ascension Parish, Hydrologic Unit 08070202, 4.6 mi northwest of Port Vincent, and 3.0 mi downstream from Clay Cut Bayou, on the right bank 1,000 ft upstream from mouth of Muddy Creek.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--June 1989 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 16.83 ft, Jan. 28, 1990 from floodmark; minimum, 0.77 ft, Feb. 16, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 11.20 ft, May 12; minimum, 0.77 ft, Feb. 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.03	1.86	2.45	1.50	5.44	3.29	1.19	7.65	3.50	1.93	1.59	2.87
2	1.93	2.04	2.48	1.53	6.05	4.11	1.08	9.09	2.95	1.93	1.64	2.67
3	2.18	2.21	4.19	1.68	4.77	5.11	1.36	9.00	2.43	1.87	1.61	2.75
4	2.09	2.33	3.99	2.32	2.58	4.32	1.80	8.36	2.09	1.70	1.43	2.90
5	2.11	2.07	3.92	2.98	3.50	2.92	1.89	7.05	1.86	1.74	1.23	2.93
6	2.14	1.99	3.22	3.16	4.33	2.03	1.97	5.77	2.43	1.79	1.28	3.03
7	2.11	1.91	2.25	2.38	4.96	1.69	2.02	5.13	3.35	2.82	1.41	3.21
8	2.15	1.94	1.75	1.70	5.15	1.69	2.06	6.87	3.36	3.41	1.53	3.05
9	2.15	2.25	1.29	1.56	4.24	1.80	2.02	7.89	3.49	3.48	1.47	2.59
10	1.80	1.49	1.13	3.16	2.41	1.66	1.95	9.37	3.73	2.72	1.22	2.65
11	1.36	1.07	1.09	5.14	1.62	1.36	2.30	10.92	4.01	1.95	1.41	2.60
12	1.28	1.09	1.09	5.68	1.46	1.35	2.60	11.03	4.20	1.74	.99	2.44
13	1.15	1.05	1.19	6.91	1.41	1.45	3.01	9.81	4.00	1.50	.88	2.15
14	1.16	1.26	1.29	6.28	1.27	1.35	3.33	7.82	3.54	1.22	1.14	1.97
15	1.38	1.66	1.32	4.29	1.04	1.53	4.08	5.83	3.11	1.13	1.34	1.94
16	1.45	1.92	1.33	2.61	.84	2.34	4.13	4.55	2.78	1.09	1.52	1.97
17	1.67	1.83	1.44	2.08	1.17	3.61	4.40	3.89	2.43	1.28	1.55	1.88
18	1.85	1.84	1.47	1.96	1.40	3.47	5.98	3.99	2.24	1.46	1.34	1.85
19	1.84	1.88	1.52	2.93	1.71	2.97	6.34	4.47	2.03	1.40	1.16	2.16
20	2.09	1.89	1.84	2.97	3.65	2.53	6.11	4.91	2.02	1.41	1.16	2.24
21	2.25	2.03	1.93	2.24	6.09	2.33	5.29	5.45	1.89	1.52	1.29	2.14
22	2.81	2.07	2.02	1.58	10.10	2.26	3.82	5.26	1.97	1.67	1.29	2.27
23	2.11	2.01	1.88	1.49	10.77	2.10	2.83	5.21	1.78	1.56	1.35	2.36
24	1.83	1.95	1.45	2.98	9.92	1.88	2.59	5.21	1.92	1.34	1.61	2.20
25	1.45	1.99	1.17	3.63	8.14	1.71	3.07	4.96	1.94	1.12	1.83	1.84
26	1.11	2.01	1.20	3.77	5.81	1.67	3.97	4.88	1.85	1.07	1.78	1.60
27	1.06	2.13	1.57	3.51	3.12	1.70	4.36	4.57	2.04	.93	2.13	1.87
28	1.24	2.43	1.69	3.09	2.23	1.57	4.07	4.28	2.36	.95	2.26	2.02
29	1.41	2.26	1.76	2.97	---	1.59	4.82	3.85	2.17	1.08	2.05	2.31
30	1.58	2.21	1.72	3.70	---	1.25	5.88	3.60	2.03	1.08	2.19	2.43
31	1.83	---	1.55	4.30	---	1.27	---	3.78	---	1.31	3.57	---
MAX	2.81	2.43	4.19	6.91	10.77	5.11	6.34	11.03	4.20	3.48	3.57	3.21
MIN	1.06	1.05	1.09	1.49	.84	1.25	1.08	3.60	1.78	.93	.88	1.60

07380120 AMITE RIVER AT PORT VINCENT, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°19'57", long 90°51'07", in sec.19, T.8 S., R.4 E., Livingston Parish, Hydrologic Unit 08070202, on downstream side of bridge on State Highway 42, 0.1 mi east of intersection of State Highway 42 and 431, 0.2 mi west of intersection of State Highway 42 and 16, 0.5 mi downstream from mouth of Grays Creek.

DRAINAGE AREA.--1,596 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 25, 1983 to Sept. 30, 1984 (elevations only) October 1984 to current year. Prior to Oct. 24, 1983, elevations only in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 25, 1983, operated by Corps of Engineers, same site and location.

REMARKS.--Records poor. Reverse flow at times during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation, 14.65 ft, Apr. 9, 1983; minimum elevation, -1.04 ft, Jan. 19, 1977.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 69,500 ft³/s, Jan. 28, 1990; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 22,900 ft³/s, Feb. 24; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4360	1190	1530	1880	13200	6030	2580	9740	5600	2550	1200	2690
2	3870	1150	1430	1600	15500	8680	2090	14400	4630	2470	826	2110
3	2750	1120	5060	2080	12500	10600	1940	15600	3660	2630	976	1250
4	2450	1160	5930	4270	7430	9880	2080	14600	3070	2370	1050	1480
5	909	1470	6800	5980	8160	7080	2140	11700	2930	2290	931	1370
6	1030	1270	5140	6520	9680	4890	3310	7960	3370	2410	1290	2260
7	1550	1330	2770	3870	10700	3800	5740	6260	4390	3660	1090	2990
8	1530	1170	2210	2790	11800	3680	5400	9210	3500	4900	1390	3400
9	894	1890	1720	2450	10600	3610	2720	11300	3610	4830	1050	2420
10	1140	2040	1530	5230	6340	3340	3930	15800	3640	3890	915	2020
11	990	1230	1630	10000	3610	2850	2070	22200	4550	2770	2260	1130
12	1130	1280	1550	11500	3180	2740	2220	19600	6200	2250	1160	637
13	989	1190	1710	15200	3060	2880	4850	16000	5180	2030	1470	1250
14	722	1180	1620	11600	2850	2950	4920	11700	4480	1880	836	1040
15	891	1180	1700	7000	2710	2890	8600	7320	3650	2010	426	739
16	802	1380	1640	4100	2370	2950	8210	5010	3290	1920	511	697
17	816	1390	1540	3630	2480	7240	8670	4400	3080	1720	761	748
18	915	1330	1710	3360	2450	6990	9930	4690	3060	1630	976	744
19	910	1330	1660	4580	2560	5810	10100	6370	2680	1550	1020	1370
20	917	1250	1630	5770	8080	4490	9870	7490	3430	1540	861	1850
21	1180	1190	1510	5100	14400	3900	9990	8080	3100	474	933	1430
22	2900	1290	1750	4060	16900	3530	8450	7450	3010	625	885	1170
23	1530	1230	2160	3370	19200	4310	6200	6340	2850	909	644	1330
24	1240	1270	1930	5120	22900	3140	5010	5850	2760	1110	676	1730
25	1270	1260	1860	6450	17800	2920	6330	5460	2890	1280	693	2450
26	1100	1150	1710	7300	12800	2480	8360	6350	2870	1140	561	2010
27	1060	1420	1670	7150	7260	2310	8480	5860	2870	890	825	2730
28	1070	2740	2400	6060	4500	2140	7730	5860	3110	810	2620	1890
29	1020	1570	1950	5900	---	2570	7310	5380	2880	715	2180	1160
30	1070	1990	2270	7420	---	2360	8140	4890	2670	738	1620	939
31	1090	---	1930	9330	---	3030	---	6140	---	993	5510	---
TOTAL	44095	41640	71650	180670	255020	136070	177370	289010	107010	60984	38146	49034
MEAN	1422	1388	2311	5828	9108	4389	5912	9323	3567	1967	1231	1634

MISSISSIPPI RIVER DELTA

07380120 AMITE RIVER AT PORT VINCENT, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.97	1.78	2.36	1.38	3.56	2.28	.89	5.26	2.83	1.66	1.54	2.41
2	1.87	1.97	2.40	1.41	3.85	2.93	.82	6.25	2.40	1.66	1.56	2.46
3	2.11	2.15	2.97	1.54	3.22	3.54	1.32	6.30	1.85	1.52	1.48	2.60
4	2.01	2.25	3.01	1.87	1.98	2.99	1.71	5.89	1.45	1.41	1.26	2.74
5	2.06	1.98	2.86	2.13	2.52	1.75	1.77	5.24	1.26	1.31	1.10	2.81
6	2.07	1.91	2.37	2.34	3.04	1.05	1.82	4.35	1.60	1.42	1.17	2.80
7	2.04	1.82	1.83	1.96	3.25	.85	1.86	3.80	2.55	1.86	1.20	2.77
8	2.08	1.87	1.38	1.38	3.19	1.13	1.95	4.57	2.85	2.34	1.34	2.51
9	2.08	2.05	.79	1.38	2.57	1.34	1.92	5.57	3.08	2.17	1.26	2.26
10	1.69	1.14	.39	2.35	1.39	1.14	1.83	6.68	3.34	1.74	1.00	2.49
11	1.24	.89	.55	3.48	.92	.74	2.18	8.11	3.49	1.24	.97	2.49
12	1.14	.92	.88	3.82	.93	.88	2.49	8.38	3.55	1.04	.53	2.32
13	.96	.94	1.11	4.27	.88	.96	2.72	7.47	3.41	.86	.77	2.05
14	1.15	1.26	1.11	3.98	.73	.79	2.94	5.99	3.07	.72	1.15	1.87
15	1.29	1.63	1.18	2.95	.01	1.26	3.37	4.52	2.71	.83	1.27	1.84
16	1.39	1.83	1.22	1.95	.01	2.09	3.33	3.56	2.40	.85	1.46	1.87
17	1.62	1.74	1.34	1.59	.74	3.00	3.36	3.03	2.05	1.23	1.46	1.74
18	1.79	1.76	1.33	1.64	1.11	3.04	3.96	2.97	1.73	1.36	1.22	1.73
19	1.79	1.79	1.42	2.39	1.47	2.59	4.34	3.36	1.50	1.25	1.03	1.96
20	2.02	1.82	1.77	2.31	2.25	2.20	4.32	3.65	1.43	1.26	1.08	2.04
21	2.11	1.96	1.83	1.54	3.55	2.05	3.81	4.16	1.23	1.43	1.22	2.03
22	2.33	1.99	1.92	.82	6.55	2.00	2.94	4.47	1.31	1.55	1.19	2.17
23	1.97	1.93	1.64	.88	7.66	1.83	2.27	4.61	1.24	1.40	1.19	2.25
24	1.73	1.87	.83	1.99	7.00	1.56	2.14	4.69	1.39	1.19	1.13	2.05
25	1.22	1.90	.86	2.70	5.61	1.43	2.63	4.43	1.34	1.02	1.14	1.58
26	.85	1.93	1.09	2.77	3.89	1.49	3.29	4.32	1.35	.94	1.14	1.41
27	1.02	2.06	1.52	2.57	1.95	1.56	3.66	4.04	1.59	.85	1.15	1.64
28	1.19	2.33	1.57	2.40	1.51	1.39	3.48	3.68	1.81	.88	1.16	1.83
29	1.36	2.16	1.66	2.44	---	1.32	3.64	3.31	1.79	.99	1.16	2.19
30	1.50	2.10	1.57	2.88	---	.90	4.36	3.06	1.69	1.01	1.64	2.32
31	1.75	---	1.42	3.19	---	1.06	---	3.05	---	1.30	2.47	---
MAX	2.33	2.33	3.01	4.27	7.66	3.54	4.36	8.38	3.55	2.34	2.47	2.81
MIN	.85	.89	.39	.82	.01	.74	.82	2.97	1.23	.72	.53	1.41

07380120 AMITE RIVER AT PORT VINCENT, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1965, 1967-69, 1976, 1986 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990											
17...	0845	816	76	7.32	22.0	15	6.6	9.3	1.6	320	84
JAN 1991											
08...	0930	2790	89	6.98	13.5	80	67	7.8	2.5	K4700	K3700
APR											
12...	0920	2290	124	7.37	24.0	40	17	6.4	1.6	K24	K40
JUL											
17...	0930	1720	141	7.31	31.0	50	4.5	4.8	2.0	60	54

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1990											
17...	13	3.4	1.2	8.8	1.5	22	1.9	7.7	0.1	12	52
JAN 1991											
08...	19	5.0	1.5	8.8	2.4	23	5.1	8.7	<0.1	9.0	66
APR											
12...	30	7.8	2.6	13	2.0	36	3.8	12	0.1	10	70
JUL											
17...	37	10	2.9	12	2.5	38	4.2	15	0.1	12	87

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 1990											
17...	50	<0.01	<0.10	<0.01	<0.01	0.3	0.07	0.07	0.06	100	<1
JAN 1991											
08...	54	0.01	0.40	0.23	0.22	0.9	0.24	0.13	0.12	290	<1
APR											
12...	74	0.02	0.22	0.15	0.15	0.6	0.18	0.09	0.09	50	1
JUL											
17...	84	0.02	0.08	0.14	0.15	0.9	0.21	0.12	0.11	60	2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

07380120 AMITE RIVER AT PORT VINCENT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990 17...	17	<0.5	<1	2	<3	1	290	1	<4	3	<0.1
JAN 1991 08...	38	<0.5	1	<1	<3	2	290	<1	<4	82	<0.1
APR 12...	42	<0.5	<1	<1	<3	<1	280	1	<4	160	<0.1
JUL 17...	45	<0.5	<1	<1	<3	3	400	1	<4	160	--

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990 17...	<10	<1	<1	<1	28	<6	<3	11	24	100
JAN 1991 08...	<10	1	<1	<1	31	<6	5	82	618	100
APR 12...	<10	1	<1	<1	54	<6	6	17	105	98
JUL 17...	<10	15	<1	<1	63	<6	15	21	98	100

< Actual value is known to be less than the value shown.

07380230 PASS MANCHAC NEAR PONTCHATOU LA

LOCATION.--Lat 30°16'53", long 90°24'01", T.9 S., R.8 E., Tangipahoa Parish, Hydrologic Unit 08070204.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1990 to September 1991.

CHLORIDE: July 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURES: Maximum daily, 36 °C Oct. 1-3, 1991; minimum daily, 11 °C Dec. 24, 25, 1990.

CHLORIDE: Maximum daily 1.400 mg/L Dec. 3, 1990; minimum daily 9.8 mg/L Aug. 13, 1991.

EXTREMES FOR CURRENT YEAR.--

CHLORIDE: Maximum daily 1.400 mg/L Dec. 3, 1990; minimum daily 9.8 mg/L Aug. 13, 1991.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.0	---	19.0	19.0	19.0	23.0	23.0	30.0	---	---	---	---
2	36.0	---	19.0	19.0	19.0	23.0	25.0	32.0	---	---	---	---
3	36.0	---	19.0	21.0	19.0	19.0	25.0	32.0	---	---	---	---
4	---	---	17.0	19.0	19.0	16.0	26.0	31.0	---	---	---	---
5	---	---	17.0	19.0	21.0	19.0	27.0	31.0	---	---	---	---
6	---	---	16.0	23.0	21.0	23.0	27.0	31.0	---	---	---	---
7	---	---	16.0	23.0	21.0	23.0	27.0	28.0	---	---	---	33.0
8	---	---	16.0	19.0	22.0	23.0	27.0	30.0	---	---	---	33.0
9	---	---	18.0	19.0	22.0	23.0	29.0	30.0	---	---	---	33.0
10	---	---	18.0	21.0	22.0	23.0	27.0	28.0	---	---	---	32.0
11	---	---	19.0	21.0	22.0	23.0	27.0	30.0	---	---	---	32.0
12	---	---	19.0	18.0	23.0	23.0	27.0	32.0	---	---	---	33.0
13	---	---	19.0	15.0	23.0	23.0	27.0	32.0	---	---	---	33.0
14	---	---	19.0	15.0	23.0	21.0	29.0	32.0	---	---	---	33.0
15	---	---	19.0	18.0	---	21.0	29.0	34.0	---	---	---	33.0
16	---	---	21.0	19.0	15.0	20.0	29.0	34.0	---	---	---	33.0
17	---	---	21.0	19.0	20.0	21.0	29.0	34.0	---	---	---	33.0
18	---	---	25.0	---	22.0	21.0	28.0	34.0	---	---	---	33.0
19	---	---	25.0	17.0	22.0	21.0	28.0	34.0	---	---	---	33.0
20	---	---	25.0	17.0	22.0	23.0	28.0	34.0	---	---	---	33.0
21	---	---	27.0	17.0	23.0	23.0	29.0	32.0	---	---	---	33.0
22	---	---	27.0	17.0	23.0	25.0	29.0	32.0	---	---	---	33.0
23	---	---	25.0	17.0	23.0	25.0	29.0	32.0	---	---	---	33.0
24	---	---	11.0	17.0	21.0	26.0	29.0	32.0	---	---	---	33.0
25	---	---	11.0	15.0	21.0	26.0	29.0	34.0	---	---	---	33.0
26	---	---	13.0	20.0	20.0	26.0	29.0	---	---	---	---	32.0
27	---	---	16.0	20.0	19.0	27.0	32.0	---	---	---	---	32.0
28	---	---	20.0	20.0	21.0	27.0	32.0	---	---	---	---	32.0
29	---	---	23.0	20.0	---	26.0	---	---	---	---	---	32.0
30	---	---	23.0	20.0	---	24.0	30.0	---	---	---	---	32.0
31	---	---	19.0	19.0	---	23.0	---	---	---	---	---	---
MAX	---	---	27.0	23.0	23.0	27.0	32.0	34.0	---	---	---	---
MIN	---	---	11.0	15.0	15.0	16.0	23.0	28.0	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07380230 PASS MANCHAC NEAR PONTCHATOULA, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	---	650	510	98	500	140	140	35	60	65	80
2	400	---	650	470	490	10	95	86	29	46	64	120
3	760	---	1400	470	96	80	380	160	25	52	56	120
4	---	---	710	440	480	490	500	160	22	86	56	220
5	---	---	560	400	73	63	400	150	24	54	51	79
6	---	---	500	520	61	74	170	130	160	32	50	330
7	---	---	320	210	66	69	150	160	34	47	45	250
8	---	---	500	440	63	74	150	28	160	68	48	150
9	---	---	500	520	65	72	340	62	20	66	61	96
10	---	---	500	770	65	23	160	62	53	58	25	250
11	---	---	420	510	480	210	210	58	150	88	32	250
12	---	---	600	490	93	110	540	68	140	69	30	140
13	---	---	520	490	93	110	520	67	80	41	9.8	140
14	---	---	500	490	480	100	160	66	76	52	90	130
15	---	---	500	340	---	98	500	54	56	70	88	120
16	---	---	440	270	480	300	380	54	52	48	100	100
17	---	---	580	270	350	310	390	53	56	44	12	79
18	---	---	520	360	350	420	290	21	66	44	65	96
19	---	---	500	800	560	420	280	22	94	42	64	170
20	---	---	550	780	500	160	110	15	72	66	67	160
21	---	---	530	230	120	160	160	54	66	66	70	160
22	---	---	440	220	230	160	170	51	52	52	64	170
23	---	---	540	280	500	180	150	55	55	47	64	290
24	---	---	540	560	500	230	130	57	83	63	110	170
25	---	---	620	280	40	220	120	35	56	50	110	76
26	---	---	510	200	64	150	120	35	66	42	96	140
27	---	---	680	490	62	210	140	36	54	43	90	140
28	---	---	820	140	120	170	200	37	60	50	89	220
29	---	---	780	180	---	160	230	35	58	49	78	75
30	---	---	500	480	---	160	120	37	58	48	81	360
31	---	---	520	120	---	140	---	34	---	52	81	---
MAX	---	---	1400	800	560	500	540	160	160	88	110	360
MIN	---	---	320	120	40	10	95	15	20	32	9.8	75

301300089493000 LAKE PONTCHARTRAIN AT NORTH SHORE, NEAR SLIDELL, LA

LOCATION.--Lat 30°13'00", long 89°49'30", T. 10 S., R. 14 E., Orleans Parish, Hydrologic Unit 08090202, at bridge on U.S. Highway 11, 5.5 mi southwest of Slidell.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975, 1981 to September 1984, July 1990 to August 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1984, July 1990 to August 1991.

CHLORIDE: October 1974 to September 1984, July 1990 to August 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0 °C July 9, 15, 16, 17, 1980; minimum daily, 3.0 °C Jan. 3, 1979.

CHLORIDE: Maximum daily, 8,500 mg/L Oct. 14, 1981; minimum daily, 140 mg/L June 20, July 8, 22, 1983.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	11.5	9.0	16.5	16.0	---	29.0	---	29.0	---
2	---	---	---	12.0	10.0	16.0	18.5	24.0	27.0	---	29.0	---
3	---	---	---	13.0	12.0	16.5	18.5	24.0	27.0	---	29.0	---
4	---	---	---	12.0	15.0	13.0	19.5	24.0	28.0	---	28.5	---
5	---	---	---	13.0	15.0	14.5	19.5	24.0	28.0	---	29.0	---
6	---	---	---	13.5	14.5	16.5	16.0	24.0	29.0	---	29.0	---
7	---	---	---	13.5	16.0	17.0	16.5	---	28.0	---	28.5	---
8	---	---	---	14.0	15.5	15.5	16.0	---	28.0	---	29.0	---
9	---	---	---	13.5	13.5	15.5	---	---	29.0	---	29.0	---
10	---	---	10.5	---	13.0	15.0	---	---	30.0	---	28.5	---
11	---	---	11.5	15.0	12.0	14.5	24.0	---	30.0	---	29.0	---
12	---	---	13.0	9.5	15.0	17.0	24.5	---	30.0	---	29.0	---
13	---	---	13.5	10.0	15.5	18.0	23.5	---	27.0	---	28.5	---
14	---	---	15.5	10.0	14.5	18.0	23.5	---	29.0	---	29.0	---
15	---	---	15.5	---	12.0	14.5	24.0	25.0	28.0	---	28.5	---
16	---	---	17.0	10.0	9.0	14.0	24.0	25.0	27.0	---	---	---
17	---	---	---	10.5	---	15.0	23.5	26.0	27.0	---	---	---
18	---	---	18.5	10.5	14.0	15.5	23.0	27.0	29.0	---	---	---
19	---	---	16.0	12.0	15.0	18.5	21.5	25.0	27.0	---	---	---
20	---	---	17.0	10.5	16.0	18.0	22.0	25.0	30.0	---	---	---
21	---	---	18.5	10.0	17.0	19.0	22.0	28.0	27.0	---	---	---
22	---	---	18.0	7.0	16.5	20.5	22.0	25.0	29.0	---	---	---
23	---	---	15.5	8.0	15.0	---	23.5	23.0	28.0	---	---	---
24	---	---	---	9.0	15.5	20.5	23.5	22.0	30.0	---	---	---
25	---	---	---	10.5	15.5	20.5	---	24.0	---	---	---	---
26	---	---	10.0	9.0	13.5	---	23.5	23.0	---	---	---	---
27	---	---	13.0	10.5	14.5	24.0	24.0	24.0	---	---	---	---
28	---	---	15.0	11.5	15.5	23.5	24.0	26.0	---	---	---	---
29	---	---	---	13.5	---	23.0	24.0	26.0	---	---	---	---
30	---	---	18.0	14.5	---	15.5	24.0	28.0	---	---	---	---
31	---	---	14.5	11.5	---	18.5	---	29.0	---	---	---	---
MAX	---	---	---	15.0	17.0	24.0	24.5	---	---	---	---	---
MIN	---	---	---	7.0	9.0	13.0	16.0	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

301300089493000 LAKE PONTCHARTRAIN AT NORTH SHORE, NEAR SLIDELL, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	1600	2200	570	680	550	340	---	1100	---
2	---	---	---	2600	1300	560	950	350	460	---	1100	---
3	---	---	---	3600	700	460	880	450	460	---	1200	---
4	---	---	---	3500	1200	530	840	470	480	---	1100	---
5	---	---	---	3400	1900	530	1000	340	33	---	1200	---
6	---	---	---	2600	2000	570	880	370	470	---	1200	---
7	---	---	---	2600	1200	980	760	---	460	---	860	---
8	---	---	---	1600	960	980	780	---	470	---	920	---
9	---	---	---	3400	910	560	---	---	30	---	450	---
10	---	---	2400	1700	980	980	---	---	460	---	500	---
11	---	---	2700	1700	1800	880	760	---	620	---	520	---
12	---	---	2700	3700	1700	940	760	---	460	---	1400	---
13	---	---	2700	3700	1800	980	610	---	26	---	1500	---
14	---	---	3700	1600	1700	860	620	---	530	---	1500	---
15	---	---	3200	1800	1700	860	600	470	600	---	1500	---
16	---	---	3300	1800	1800	360	620	460	460	---	---	---
17	---	---	3100	1700	1200	560	650	700	400	---	---	---
18	---	---	3500	1700	1200	460	640	750	400	---	---	---
19	---	---	3700	1600	1100	500	610	690	420	---	---	---
20	---	---	3600	1200	1100	460	610	690	420	---	---	---
21	---	---	4300	1300	740	500	600	340	460	---	---	---
22	---	---	4800	1300	780	480	660	340	470	---	---	---
23	---	---	3200	1900	680	510	680	460	460	---	---	---
24	---	---	3200	2000	780	560	1200	460	460	---	---	---
25	---	---	3200	1900	860	560	---	590	---	---	---	---
26	---	---	4700	1600	850	850	370	600	---	---	---	---
27	---	---	3800	1900	860	670	360	860	---	---	---	---
28	---	---	3700	2000	560	690	370	840	---	---	---	---
29	---	---	4100	1200	---	660	360	850	---	---	---	---
30	---	---	3700	1200	---	660	370	860	---	---	---	---
31	---	---	3400	1100	---	660	---	360	---	---	---	---
MAX	---	---	---	3700	2200	980	1200	---	---	---	---	---
MIN	---	---	---	1100	560	360	360	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

295019089411500 BAYOU LA LOUTRE AT ALLUVIAL CITY AT YSCLOSKEY, LA

LOCATION.--Lat 29°50'19", long 89°41'15", T. 14 S., R. 15 E., St. Bernard Parish, Hydrologic Unit 08090203, 0.2 mi south of Yscloskey.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, July 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1979, November 1980 to September 1984, July 1991 to September 1991.

CHLORIDE: October 1974 to September 1984, July 1990 to September 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0 °C July 20, 1977; minimum daily, 0.5 °C Jan. 2, 5, 14, 16, 17, 1981, Dec. 24, 1983.

CHLORIDE: Maximum daily 16,000 mg/L June 29, 30, July 1-4, 7-9, 12, 1977, Sept. 6, 1981; minimum daily, 120 mg/L June 12, 18-20, 23, 1983.

EXTREMES FOR CURRENT YEAR.--

CHLORIDE: Maximum daily, 10,000 mg/L Dec. 15-21; minimum daily, 600 mg/L June 1.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	10.0	10.0	14.5	18.5	24.0	26.5	28.0	30.0	30.5
2	---	---	---	10.0	13.5	15.5	18.5	24.0	26.5	28.0	30.0	30.5
3	---	---	---	10.0	13.5	15.5	18.5	25.0	26.5	---	30.5	30.5
4	---	---	---	13.0	13.5	15.5	18.5	25.0	28.5	29.0	30.5	29.5
5	---	---	---	13.0	13.5	16.5	18.5	25.0	28.5	29.0	30.5	29.0
6	---	---	---	13.0	15.5	16.5	18.5	25.0	28.5	29.0	30.5	29.0
7	---	---	---	13.0	15.5	16.5	20.0	23.5	26.5	29.0	30.5	30.5
8	---	---	---	13.0	15.5	13.0	23.0	23.5	26.5	29.0	30.5	30.5
9	---	---	---	13.0	13.0	13.0	23.0	---	26.5	30.0	30.5	30.5
10	---	---	---	13.0	13.0	13.0	23.0	---	25.5	30.0	30.5	29.5
11	---	---	15.0	14.5	13.5	13.0	23.0	25.0	25.5	30.0	28.0	29.5
12	---	---	15.0	13.0	13.5	13.0	23.0	25.0	25.5	30.0	28.0	29.5
13	---	---	15.0	13.0	13.5	13.0	23.0	25.0	26.5	30.0	28.5	29.5
14	---	---	15.0	13.0	13.5	13.0	23.0	25.0	26.5	30.0	28.5	29.5
15	---	---	16.0	11.5	11.5	13.0	23.5	25.0	26.5	28.5	28.5	29.5
16	---	---	16.0	11.5	11.5	14.5	23.5	25.5	28.0	28.5	28.5	29.5
17	---	---	16.0	11.5	11.5	14.5	23.5	26.0	28.0	28.5	28.5	29.5
18	---	---	16.0	11.5	14.0	14.5	21.0	25.0	28.0	28.5	28.5	30.5
19	---	---	16.0	11.0	16.0	17.0	21.0	25.0	28.0	29.5	28.5	30.5
20	---	---	16.0	11.0	16.0	18.5	22.0	24.0	28.0	29.5	28.5	29.5
21	---	---	16.0	10.0	16.0	21.0	22.0	24.0	28.0	29.5	29.5	29.5
22	---	---	16.0	9.0	16.0	21.0	23.0	24.0	28.0	29.5	29.5	29.5
23	---	---	9.0	9.0	---	22.0	23.0	25.5	28.0	29.5	29.5	29.5
24	---	---	9.0	9.0	14.5	22.0	24.0	25.5	28.0	29.5	30.5	29.5
25	---	---	9.0	9.0	14.5	22.0	24.0	25.5	28.0	29.5	30.5	29.5
26	---	---	9.0	11.0	14.5	22.0	24.0	26.5	28.0	30.0	30.5	29.5
27	---	---	---	11.0	14.5	23.5	25.0	26.5	26.5	30.0	30.5	29.5
28	---	---	12.0	11.0	14.5	23.5	25.0	26.5	26.5	30.0	29.5	29.5
29	---	---	12.0	11.0	---	20.0	21.0	26.5	28.0	30.0	29.5	---
30	---	---	12.0	11.0	---	20.0	21.0	26.5	28.0	30.0	29.5	---
31	---	---	10.0	11.0	---	18.5	---	26.5	---	30.0	29.5	---
MAX	---	---	---	14.5	16.0	23.5	25.0	26.5	28.5	28.0	30.5	29.0
MIN	---	---	---	9.0	10.0	13.0	18.5	23.5	25.5	30.0	28.0	30.5

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

295019089411500 BAYOU LA LOUTRE AT ALLUVIAL CITY AT YSCLOSKEY, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	7800	2500	1600	3900	1800	600	4300	7000	7600
2	---	---	---	7600	2300	1800	4900	1600	1200	4800	6800	7600
3	---	---	---	7400	2200	1800	5000	1600	1200	5000	8500	7400
4	---	---	---	6000	2500	2200	5200	1500	1200	5200	8400	7600
5	---	---	---	6000	2400	2400	5200	1700	1200	2100	8400	6500
6	---	---	---	5800	2300	2700	5300	1700	7200	2200	9000	6300
7	---	---	---	6000	2300	2800	5100	1100	7100	2200	9000	7100
8	---	---	---	5400	3500	2800	5000	1300	5300	2100	7100	5500
9	---	---	---	6200	3500	3000	4900	1100	5300	5600	8600	5600
10	---	---	---	6200	3600	3400	4200	1100	4100	5800	6900	6000
11	---	---	8800	5400	4000	3600	2200	910	4000	3500	6100	6200
12	---	---	8800	4300	3800	3200	2200	920	3900	6400	8600	6000
13	---	---	8800	4000	4800	3800	2200	940	3600	6500	5600	6400
14	---	---	8800	4000	5400	4400	2200	920	3300	3900	6000	7900
15	---	---	10000	4300	4700	4500	2200	920	1700	3300	8600	7800
16	---	---	10000	4300	5700	4200	1800	1100	1400	4900	8800	7600
17	---	---	10000	4200	5800	4100	1800	1200	3000	5400	8600	7200
18	---	---	10000	4200	6000	3800	1300	1300	3000	6800	8500	7200
19	---	---	10000	4400	4000	3700	1300	1200	1500	7000	9000	7200
20	---	---	10000	4500	3600	4100	1100	880	1900	5000	8400	6600
21	---	---	10000	3800	3700	4000	1200	1100	2800	6300	8800	6100
22	---	---	9400	3800	3700	4000	1300	1100	3000	4900	9000	6300
23	---	---	6800	4500	---	3900	1300	1100	4800	6200	8400	6200
24	---	---	6400	4500	3800	3900	1000	1000	4900	6000	7800	6600
25	---	---	6700	3700	4400	3800	1900	900	5200	6300	7600	6400
26	---	---	6800	4500	4200	3900	2400	860	4700	5000	7800	6500
27	---	---	7300	4700	4200	4000	2400	950	4000	7400	7600	6500
28	---	---	7000	3800	4400	4000	2400	990	3600	7800	7400	7500
29	---	---	7600	3700	---	5200	2300	820	5400	6900	8000	7200
30	---	---	7500	3700	---	5600	2500	1000	5600	5500	7600	7800
31	---	---	7500	3200	---	4200	---	1000	---	3700	7200	---
MAX	---	---	---	7800	5400	5600	5300	1800	7200	7800	9000	7900
MIN	---	---	---	3200	2200	1600	1000	820	600	2100	5600	5500

07380250 BAYOU BARATARIA AT LAFITTE, LA (CE 82875)

LOCATION.--Lat 29°40'06", long 90°06'36" in Lot 5, T. 16 S., R. 23 E., Jefferson Parish, Hydrologic Unit 08090301, 1.0 mi (1.6 km) south of Lafitte.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1954, 1975 to 1984, January 1991 to July 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Water years 1977 to 1984, January 1991 to July 1991.

CHLORIDE: Water years 1975 to 1984, January 1991 to July 1991.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 34.0 °C July 23, 1981; minimum daily, 3.0 °C Jan. 20, 1977.

CHLORIDE: Maximum daily, 10.000 mg/L April 21, 1977; minimum daily, 40 mg/L July 17, 1991.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	13.0	16.0	21.0	23.0	27.0	29.0	---	---
2	---	---	---	---	11.0	16.0	21.0	24.0	29.0	29.0	---	---
3	---	---	---	---	12.0	16.0	22.0	25.0	30.0	29.0	---	---
4	---	---	---	---	14.0	14.0	21.0	25.0	30.0	30.0	---	---
5	---	---	---	---	16.0	15.0	21.0	25.0	29.0	30.0	---	---
6	---	---	---	---	15.0	16.0	22.0	26.0	29.0	28.0	---	---
7	---	---	---	---	15.0	18.0	22.0	25.0	28.0	27.0	---	---
8	---	---	---	---	15.0	18.0	23.0	24.0	26.0	27.0	---	---
9	---	---	---	---	15.0	18.0	23.0	24.0	27.0	29.0	---	---
10	---	---	---	---	14.0	16.0	22.0	23.0	28.0	27.0	---	---
11	---	---	---	---	15.0	16.0	23.0	24.0	27.0	28.0	---	---
12	---	---	---	---	16.0	18.0	24.0	25.0	26.0	29.0	---	---
13	---	---	---	---	15.0	17.0	25.0	25.0	28.0	30.0	---	---
14	---	---	---	---	16.0	18.0	24.0	25.0	27.0	30.0	---	---
15	---	---	---	---	14.0	16.0	24.0	26.0	28.0	29.0	---	---
16	---	---	---	---	12.0	14.0	24.0	26.0	28.0	29.0	---	---
17	---	---	---	---	12.0	15.0	24.0	26.0	28.0	30.0	---	---
18	---	---	---	---	14.0	16.0	23.0	26.0	27.0	---	---	---
19	---	---	---	---	17.0	18.0	24.0	25.0	28.0	---	---	---
20	---	---	---	---	18.0	18.0	23.0	25.0	29.0	---	---	---
21	---	---	---	---	17.0	19.0	23.0	25.0	30.0	---	---	---
22	---	---	---	---	17.0	21.0	22.0	24.0	30.0	---	---	---
23	---	---	---	---	17.0	22.0	23.0	24.0	30.0	---	---	---
24	---	---	---	---	16.0	21.0	23.0	25.0	30.0	---	---	---
25	---	---	---	10.0	17.0	22.0	---	26.0	30.0	---	---	---
26	---	---	---	10.0	14.0	23.0	---	25.0	30.0	---	---	---
27	---	---	---	11.0	14.0	22.0	22.0	26.0	29.0	---	---	---
28	---	---	---	12.0	14.0	23.0	23.0	27.0	29.0	---	---	---
29	---	---	---	14.0	---	24.0	23.0	28.0	29.0	---	---	---
30	---	---	---	15.0	---	20.0	22.0	29.0	29.0	---	---	---
31	---	---	---	13.0	---	19.0	---	29.0	---	---	---	---
MAX	---	---	---	---	18.0	24.0	25.0	29.0	30.0	---	---	---
MIN	---	---	---	---	11.0	14.0	21.0	23.0	26.0	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07380250 BAYOU BARATARIA AT LAFITTE, LA (CE 82875)--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	280	120	130	180	69	55	---	---
2	---	---	---	---	200	120	130	240	74	52	---	---
3	---	---	---	---	180	92	140	250	76	53	---	---
4	---	---	---	---	220	130	130	250	74	46	---	---
5	---	---	---	---	240	150	170	240	72	49	---	---
6	---	---	---	---	180	150	160	250	76	50	---	---
7	---	---	---	---	210	130	160	220	84	52	---	---
8	---	---	---	---	270	150	240	200	66	44	---	---
9	---	---	---	---	280	94	620	200	95	50	---	---
10	---	---	---	---	290	120	610	110	150	50	---	---
11	---	---	---	---	280	120	640	180	110	50	---	---
12	---	---	---	---	220	110	620	190	110	52	---	---
13	---	---	---	---	170	110	1200	180	110	49	---	---
14	---	---	---	---	100	120	2500	130	110	48	---	---
15	---	---	---	---	180	120	2500	140	100	44	---	---
16	---	---	---	---	240	170	220	97	70	50	---	---
17	---	---	---	---	240	200	210	100	60	40	---	---
18	---	---	---	---	230	140	200	130	57	46	---	---
19	---	---	---	---	200	180	200	120	48	---	---	---
20	---	---	---	---	370	170	210	100	58	---	---	---
21	---	---	---	---	160	180	860	98	56	---	---	---
22	---	---	---	---	100	140	350	80	42	---	---	---
23	---	---	---	---	100	220	340	80	46	---	---	---
24	---	---	---	---	110	120	380	100	56	---	---	---
25	---	---	---	130	140	140	---	100	54	---	---	---
26	---	---	---	250	160	120	---	79	55	---	---	---
27	---	---	---	360	160	490	440	68	56	---	---	---
28	---	---	---	250	170	500	190	59	57	---	---	---
29	---	---	---	310	---	490	180	71	52	---	---	---
30	---	---	---	240	---	190	180	72	61	---	---	---
31	---	---	---	140	---	110	---	72	---	---	---	---
MAX	---	---	---	---	370	500	2500	250	150	---	---	---
MIN	---	---	---	---	100	92	130	59	42	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

LOCATION.--Lat 29°47'52", long 90°49'21", in sec.117, T.15 S., R.16 E., Lafourche Parish, Hydrologic Unit 08090301, on downstream side of left pier of drawspan of bridge on State Highway 20 at Thibodaux, and 2.7 mi upstream from Laurel Valley Canal.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development).

REMARKS.--No estimated daily discharges. Records fair. Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during heavy runoff. Artificial control located about 1,000 ft downstream since Nov. 5, 1968. About 5.1 ft³/s is diverted daily from the stream above weir for city of Thibodaux water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.76 ft, May 9, 1991; minimum, 0.82 ft, Dec. 2, 1966.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	48	118	263	88	218	131	225	117	143	49	251
2	87	55	124	209	58	225	97	262	112	140	68	290
3	73	80	652	185	60	174	85	185	103	141	150	265
4	93	110	314	131	56	121	88	154	123	133	175	203
5	87	126	129	132	317	90	89	148	146	139	185	175
6	112	110	80	193	274	84	93	135	164	174	179	202
7	137	102	112	227	168	77	97	116	186	310	179	372
8	139	94	106	149	144	79	106	798	217	368	186	323
9	107	132	109	130	150	105	100	1530	250	254	184	192
10	92	93	123	394	151	146	90	990	318	166	180	181
11	82	102	112	614	148	133	89	434	450	117	197	158
12	91	106	103	307	141	102	91	194	268	100	215	152
13	115	98	104	150	131	90	99	138	193	100	214	153
14	136	77	107	111	127	77	122	122	230	102	173	159
15	138	79	123	178	132	77	306	173	225	102	134	166
16	101	91	151	164	149	99	238	174	207	104	166	183
17	81	99	126	111	185	230	174	132	224	94	124	171
18	83	105	128	136	193	194	386	147	221	67	114	158
19	102	106	137	258	170	129	314	147	190	54	144	151
20	127	104	144	174	151	92	163	135	155	151	164	157
21	168	104	146	167	175	96	120	140	128	206	168	166
22	182	110	170	147	353	131	103	138	136	201	168	195
23	116	125	187	86	205	152	95	159	151	186	174	251
24	88	127	136	346	131	156	81	214	156	186	180	229
25	65	131	143	221	102	161	182	297	154	180	184	217
26	48	128	157	98	85	161	805	309	161	174	218	190
27	76	120	147	109	75	158	691	200	187	184	296	170
28	106	174	133	133	67	157	344	150	186	188	218	148
29	112	191	141	306	---	160	334	142	171	182	191	148
30	73	119	176	556	---	157	332	141	157	176	171	148
31	51	---	235	292	---	163	---	138	---	137	215	---
TOTAL	3200	3246	4873	6677	4186	4194	6045	8367	5686	4959	5363	5924
MEAN	103	108	157	215	149	135	201	270	190	160	173	197
MAX	182	191	652	614	353	230	805	1530	450	368	296	372
MIN	48	48	80	86	56	77	81	116	103	54	49	148
CAL YR 1990	TOTAL 53815		MEAN 147	MAX 652	MIN 48							
WTR YR 1991	TOTAL 62720		MEAN 172	MAX 1530	MIN 48							

07381000 BAYOU LAFOURCHE AT THIBODAUX, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.11	4.80	5.07	5.49	4.96	5.35	5.12	5.40	5.09	5.15	4.80	5.46
2	4.96	4.83	5.09	5.34	4.84	5.40	5.01	5.51	5.07	5.14	4.88	5.56
3	4.90	4.93	6.35	5.27	4.85	5.26	4.96	5.30	5.03	5.14	5.17	5.49
4	4.98	5.04	5.61	5.11	4.83	5.09	4.97	5.20	5.11	5.12	5.25	5.32
5	4.96	5.09	5.10	5.11	5.57	4.98	4.98	5.18	5.19	5.14	5.27	5.24
6	5.05	5.04	4.93	5.30	5.51	4.96	4.99	5.14	5.24	5.24	5.26	5.32
7	5.13	5.01	5.05	5.39	5.22	4.93	5.00	5.08	5.31	5.58	5.26	5.75
8	5.13	4.98	5.03	5.16	5.15	4.94	5.03	6.60	5.39	5.74	5.28	5.63
9	5.03	5.11	5.03	5.11	5.17	5.03	5.01	7.90	5.47	5.46	5.27	5.29
10	4.98	4.98	5.08	5.76	5.17	5.17	4.98	7.03	5.62	5.22	5.26	5.26
11	4.94	5.01	5.05	6.28	5.16	5.13	4.98	5.93	5.93	5.06	5.31	5.19
12	4.97	5.03	5.02	5.59	5.14	5.02	4.98	5.33	5.50	5.00	5.36	5.18
13	5.06	5.00	5.02	5.17	5.11	4.98	5.01	5.15	5.30	5.00	5.36	5.18
14	5.13	4.92	5.03	5.04	5.10	4.92	5.08	5.10	5.40	5.01	5.24	5.20
15	5.13	4.93	5.08	5.25	5.11	4.92	5.62	5.26	5.39	5.01	5.12	5.22
16	5.01	4.97	5.17	5.21	5.17	5.01	5.44	5.27	5.34	5.02	5.22	5.27
17	4.94	5.00	5.09	5.04	5.27	5.42	5.26	5.13	5.38	4.98	5.09	5.23
18	4.94	5.02	5.10	5.12	5.30	5.32	5.78	5.19	5.38	4.88	5.05	5.19
19	5.01	5.03	5.13	5.47	5.23	5.11	5.63	5.19	5.29	4.82	5.15	5.17
20	5.10	5.02	5.15	5.24	5.17	4.99	5.23	5.14	5.18	5.17	5.21	5.19
21	5.22	5.02	5.16	5.22	5.24	5.00	5.09	5.16	5.10	5.33	5.22	5.22
22	5.26	5.04	5.23	5.16	5.72	5.12	5.03	5.15	5.13	5.32	5.22	5.30
23	5.06	5.09	5.28	4.95	5.35	5.19	5.00	5.22	5.17	5.28	5.24	5.46
24	4.96	5.10	5.13	5.68	5.12	5.20	4.95	5.39	5.19	5.28	5.26	5.40
25	4.87	5.11	5.15	5.37	5.02	5.21	5.29	5.59	5.18	5.26	5.27	5.36
26	4.80	5.10	5.19	5.00	4.96	5.21	6.62	5.64	5.20	5.24	5.37	5.29
27	4.91	5.07	5.16	5.03	4.91	5.20	6.46	5.36	5.28	5.27	5.57	5.23
28	5.02	5.23	5.12	5.11	4.88	5.20	5.71	5.20	5.28	5.28	5.37	5.16
29	5.05	5.29	5.14	5.56	---	5.21	5.67	5.18	5.23	5.27	5.29	5.16
30	4.90	5.07	5.25	6.15	---	5.20	5.68	5.17	5.19	5.25	5.23	5.16
31	4.81	---	5.41	5.55	---	5.22	---	5.16	---	5.12	5.36	---
MAX	5.26	5.29	6.35	6.28	5.72	5.42	6.62	7.90	5.93	5.74	5.57	5.75
MIN	4.80	4.80	4.93	4.95	4.83	4.92	4.95	5.08	5.03	4.82	4.80	5.16

07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA

LOCATION.--Lat 29°34'20", long 90°23'02", T. 17 S., R. 20 E., Lafourche Parish, Hydrologic Unit 08090301, at intersection with Intracoastal Waterway and at mile 35.3 (WHL).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1974 to September 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1979, October 1980 to September 1984, June 1990 to September 1991.

CHLORIDE: October 1974 to September 1979, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Flow direction is dependent upon tide and upon wind velocity.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.5 °C July 28, 29, 1977; minimum daily, 6.0 °C Jan. 19, 20, 1977, Jan. 20-23, 1978, Jan. 1-3, 1984.

CHLORIDE: Maximum daily, 6,700 mg/L Oct. 25, 1976; minimum daily, 11 mg/L May 30, 1991.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 32.0 °C July 28, 29, Aug. 1-6; minimum daily, 11.0 °C Jan. 24-26.

CHLORIDE: Maximum daily, 3,900 mg/L Oct. 3; minimum daily 11 mg/L May 30.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	---	---	16.0	13.0	16.0	20.0	24.0	29.0	31.0	32.0	30.0
2	27.0	---	---	16.0	13.0	16.0	20.0	25.0	30.0	31.0	32.0	29.0
3	28.0	---	---	16.0	15.0	16.0	20.0	25.0	30.0	31.0	32.0	29.0
4	---	---	17.0	15.0	15.0	16.0	20.0	25.0	30.0	31.0	32.0	29.0
5	---	---	15.0	15.0	16.0	16.0	21.0	26.0	30.0	30.0	32.0	29.0
6	---	---	15.0	16.0	16.0	17.0	21.0	26.0	30.0	30.0	32.0	29.0
7	---	---	15.0	16.0	17.0	18.0	23.0	25.0	28.0	28.0	31.0	29.0
8	---	---	15.0	15.0	16.0	19.0	23.0	25.0	28.0	28.0	31.0	29.0
9	---	---	13.0	---	16.0	19.0	23.0	25.0	28.0	28.0	31.0	29.0
10	---	---	13.0	16.0	16.0	17.0	23.0	24.0	28.0	28.0	31.0	29.0
11	---	---	13.0	16.0	16.0	17.0	23.0	24.0	28.0	28.0	30.0	29.0
12	---	---	14.0	16.0	16.0	18.0	24.0	25.0	28.0	28.0	30.0	29.0
13	---	---	15.0	13.0	16.0	18.0	24.0	26.0	28.0	29.0	30.0	30.0
14	---	---	16.0	13.0	17.0	18.0	24.0	26.0	28.0	30.0	30.0	30.0
15	---	---	16.0	13.0	16.0	17.0	25.0	27.0	28.0	30.0	30.0	30.0
16	---	---	17.0	---	16.0	16.0	25.0	26.0	29.0	30.0	30.0	30.0
17	---	---	17.0	---	16.0	17.0	24.0	26.0	29.0	30.0	30.0	30.0
18	---	---	18.0	13.0	16.0	17.0	24.0	26.0	29.0	30.0	30.0	31.0
19	---	---	18.0	13.0	17.0	17.0	24.0	26.0	29.0	31.0	30.0	29.0
20	---	---	18.0	13.0	17.0	18.0	24.0	26.0	29.0	31.0	30.0	29.0
21	---	---	20.0	13.0	18.0	18.0	24.0	25.0	30.0	31.0	31.0	29.0
22	---	---	20.0	12.0	18.0	20.0	23.0	26.0	30.0	31.0	31.0	29.0
23	---	---	20.0	12.0	17.0	20.0	24.0	26.0	30.0	31.0	31.0	29.0
24	---	---	17.0	11.0	18.0	22.0	24.0	26.0	31.0	31.0	31.0	29.0
25	---	---	16.0	11.0	18.0	22.0	24.0	26.0	30.0	31.0	30.0	28.0
26	---	---	14.0	11.0	17.0	22.0	24.0	27.0	30.0	31.0	30.0	26.0
27	---	---	14.0	12.0	17.0	22.0	24.0	27.0	30.0	31.0	30.0	26.0
28	---	---	16.0	12.0	16.0	22.0	25.0	28.0	30.0	32.0	30.0	26.0
29	---	---	17.0	---	---	23.0	25.0	28.0	30.0	32.0	30.0	25.0
30	---	---	17.0	14.0	---	23.0	23.0	28.0	31.0	31.0	30.0	25.0
31	---	---	17.0	14.0	---	20.0	---	29.0	---	31.0	30.0	---
MAX	---	---	20.0	16.0	18.0	23.0	25.0	29.0	31.0	32.0	32.0	31.0
MIN	---	---	13.0	11.0	13.0	16.0	20.0	24.0	28.0	28.0	30.0	25.0

MISSISSIPPI RIVER DELTA

07381230 BAYOU LAFOURCHE (AT INTRACOASTAL WATERWAY) AT LAROSE, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	---	---	54	30	32	39	26	23	17	19	42
2	160	---	---	56	25	33	32	29	27	27	22	40
3	3900	---	---	58	31	24	29	28	28	28	24	41
4	---	---	130	54	32	25	31	28	13	24	33	58
5	---	---	300	49	28	26	30	38	23	21	33	56
6	---	---	200	42	36	26	30	39	19	19	27	66
7	---	---	130	42	28	27	30	24	21	26	35	70
8	---	---	130	53	22	35	33	22	20	26	40	51
9	---	---	110	51	27	35	35	27	22	27	40	48
10	---	---	120	47	27	26	30	20	14	17	42	34
11	---	---	96	54	28	25	27	23	27	19	45	42
12	---	---	100	50	34	27	28	17	25	15	44	36
13	---	---	120	32	34	25	26	17	34	18	27	38
14	---	---	70	33	27	26	110	18	25	24	37	37
15	---	---	92	36	28	20	100	15	26	24	34	25
16	---	---	54	35	26	21	270	13	24	17	44	25
17	---	---	56	32	29	21	35	16	23	18	44	22
18	---	---	58	34	28	23	190	17	38	41	37	34
19	---	---	52	34	25	27	55	17	21	21	38	37
20	---	---	52	41	31	39	56	15	22	21	33	52
21	---	---	61	44	30	24	36	15	27	27	41	33
22	---	---	68	37	26	32	37	18	21	26	48	32
23	---	---	70	33	25	33	35	18	26	21	37	70
24	---	---	70	50	26	24	27	18	25	38	36	94
25	---	---	74	36	28	26	23	18	15	32	46	56
26	---	---	78	34	28	35	25	30	12	42	43	28
27	---	---	66	29	43	27	25	30	31	44	38	45
28	---	---	130	29	26	31	27	23	17	23	38	47
29	---	---	120	54	---	22	26	15	16	23	46	62
30	---	---	60	31	---	22	27	11	16	18	48	64
31	---	---	57	28	---	33	---	22	---	25	49	---
MAX	---	---	300	58	43	39	270	39	38	44	49	94
MIN	---	---	52	28	22	20	23	11	12	15	19	22

MISSISSIPPI RIVER DELTA

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292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA

LOCATION.--Lat 29°22'45", long 90°12'32", T. 19 S., R. 9 E., Lafourche Parish, Hydrologic Unit 08090301, at Galliano.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to July 1984, June 1990 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1978, October 1980 to July 1984, June 1990 to September 1991.

CHLORIDE: October 1974 to July 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 35.0 °C July 30, Aug. 23, 25-27, 1990; minimum daily, 0.5 °C Dec. 22-31, 1983, Jan. 1, 1984.

CHLORIDE: Maximum daily, 12,000 mg/L Mar. 30, 1977, Jan 26, 1981; minimum daily, 10 mg/L Apr. 15, 21, 1980.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	---	---	---	19.0	17.0	20.0	20.0	---	29.0	29.0	26.0
2	26.0	---	---	---	17.0	17.0	22.0	25.0	---	29.0	28.0	27.0
3	---	---	---	---	18.0	16.0	20.0	25.0	---	28.0	27.0	27.0
4	---	---	---	16.0	15.0	14.0	23.0	25.0	---	29.0	26.0	26.0
5	---	---	---	13.0	16.0	19.0	22.0	25.0	26.0	25.0	28.0	26.0
6	---	---	---	16.0	20.0	20.0	22.0	25.0	28.0	26.0	26.0	25.0
7	---	---	---	16.0	17.0	21.0	22.0	25.0	26.0	25.0	29.0	27.0
8	---	---	---	18.0	17.0	22.0	25.0	25.0	26.0	24.0	27.0	26.0
9	---	---	---	19.0	17.0	20.0	25.0	25.0	25.0	25.0	30.0	30.0
10	---	---	---	18.0	18.0	19.0	22.0	25.0	26.0	27.0	29.0	---
11	---	---	---	17.0	17.0	20.0	23.0	25.0	25.0	26.0	26.0	26.0
12	---	---	---	12.0	17.0	19.0	23.0	---	25.0	27.0	25.0	24.0
13	---	---	---	13.0	18.0	18.0	24.0	20.0	26.0	27.0	27.0	25.0
14	---	---	---	13.0	16.0	16.0	23.0	21.0	27.0	26.0	28.0	26.0
15	---	---	---	15.0	15.0	17.0	22.0	25.0	27.0	25.0	27.0	27.0
16	---	---	---	14.0	12.0	16.0	23.0	---	26.0	26.0	25.0	27.0
17	---	---	---	13.0	14.0	17.0	22.0	25.0	26.0	27.0	26.0	27.0
18	---	---	---	14.0	16.0	15.0	20.0	25.0	25.0	27.0	29.0	26.0
19	---	---	---	13.0	17.0	15.0	23.0	25.0	26.0	27.0	29.0	26.0
20	---	---	---	11.0	17.0	---	20.0	25.0	27.0	25.0	29.0	25.0
21	---	---	---	10.0	17.0	19.0	---	25.0	28.0	28.0	30.0	28.0
22	---	---	---	10.0	19.0	20.0	21.0	25.0	27.0	28.0	26.0	29.0
23	---	---	---	10.0	13.0	21.0	25.0	25.0	27.0	28.0	29.0	28.0
24	---	---	---	---	15.0	20.0	---	25.0	29.0	29.0	30.0	---
25	---	---	---	12.0	16.0	22.0	25.0	25.0	28.0	29.0	31.0	23.0
26	---	---	---	10.0	---	22.0	---	25.0	27.0	29.0	31.0	23.0
27	---	---	---	12.0	13.0	22.0	25.0	25.0	29.0	30.0	---	23.0
28	---	---	---	12.0	14.0	22.0	25.0	---	26.0	30.0	26.0	22.0
29	---	---	---	15.0	---	19.0	25.0	---	30.0	---	28.0	22.0
30	---	---	---	16.0	---	20.0	20.0	---	28.0	31.0	27.0	22.0
31	---	---	---	11.0	---	---	---	---	---	30.0	27.0	---
MAX	---	---	---	19.0	20.0	22.0	25.0	25.0	30.0	31.0	31.0	30.0
MIN	---	---	---	10.0	---	14.0	20.0	20.0	25.0	24.0	25.0	22.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

292245090123200 BAYOU LAFOURCHE AT GALLIANO, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6700	---	---	---	95	83	65	140	32	46	300	60
2	7200	---	---	---	90	80	77	51	44	37	1100	68
3	---	---	---	---	120	52	77	51	48	40	520	100
4	---	---	---	540	110	62	39	55	48	53	120	120
5	---	---	---	86	60	63	39	64	51	52	72	110
6	---	---	---	230	56	60	40	81	40	110	64	100
7	---	---	---	130	60	82	35	68	34	51	58	120
8	---	---	---	150	74	35	40	38	30	51	56	70
9	---	---	---	160	92	56	35	35	20	52	53	70
10	---	---	---	180	100	86	39	180	47	58	42	75
11	---	---	---	91	110	170	40	62	32	44	50	80
12	---	---	---	130	38	100	40	26	21	52	50	86
13	---	---	---	150	36	100	40	56	87	56	58	66
14	---	---	---	150	34	48	40	46	61	64	50	52
15	---	---	---	320	29	47	41	40	81	100	150	56
16	---	---	---	300	66	46	70	41	52	70	1500	44
17	---	---	---	110	60	46	340	22	66	46	840	48
18	---	---	---	120	540	46	47	18	74	57	890	46
19	---	---	---	170	1500	45	100	38	110	40	150	44
20	---	---	---	170	1200	50	90	30	57	48	120	41
21	---	---	---	170	58	52	76	210	50	42	120	36
22	---	---	---	200	78	34	66	220	84	22	100	1800
23	---	---	---	260	100	34	54	200	69	28	100	2900
24	---	---	---	230	90	35	69	220	52	38	120	2800
25	---	---	---	130	32	35	92	200	42	42	110	1700
26	---	---	---	140	56	34	34	160	46	36	180	280
27	---	---	---	130	69	34	30	170	43	52	280	250
28	---	---	---	110	78	34	33	40	44	66	67	380
29	---	---	---	90	---	25	36	37	50	62	63	2500
30	---	---	---	87	---	26	96	44	40	57	66	3300
31	---	---	---	52	---	37	---	45	---	70	66	---
MAX	---	---	---	540	1500	170	340	220	110	110	1500	3300
MIN	---	---	---	52	29	25	30	18	20	22	42	36

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

293150090241000 BAYOU BLUE ONE MILE ABOVE GRAND BAYOU CANAL, NEAR LAROSE, LA

LOCATION.--Lat 29°31'50", long 90°24'10", T. 18 S., R. 20 E., Lafourche Parish, Hydrologic Unit 08090302.

DRAINAGE AREA.--Indeterminate.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1990 to September 1991.

CHLORIDE: June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 27.0 °C July 22-Aug. 2, 1991; minimum daily, 7.0 °C Jan. 24-29, 1990.

CHLORIDE: Maximum daily, 160 mg/L Sep. 27, 29, 1991; minimum daily, 14 mg/L May 7, 8, 10, 15-18, 1991.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	12.0	8.0	---	17.0	---	25.0	---	27.0	---
2	---	---	---	12.0	8.0	---	17.0	---	25.0	---	27.0	---
3	---	---	---	12.0	9.0	---	17.0	---	25.0	---	---	---
4	---	---	---	12.0	9.0	---	17.0	---	25.0	---	---	---
5	---	---	---	11.0	9.0	---	17.0	---	25.0	26.0	---	---
6	---	---	---	11.0	10.0	---	---	---	25.0	26.0	---	---
7	---	---	---	11.0	10.0	---	---	---	24.0	26.0	---	---
8	---	---	---	11.0	10.0	---	---	---	24.0	26.0	---	---
9	---	---	---	11.0	---	---	---	---	24.0	26.0	---	---
10	---	---	---	10.0	---	---	---	---	24.0	26.0	---	---
11	---	---	---	10.0	---	---	---	---	24.0	26.0	---	---
12	---	---	---	10.0	---	---	---	---	---	26.0	---	---
13	---	---	---	10.0	---	---	---	---	---	26.0	---	---
14	---	---	---	10.0	---	---	---	---	---	26.0	---	---
15	---	---	---	9.0	---	---	---	---	---	26.0	---	---
16	---	---	---	9.0	---	14.0	---	---	---	26.0	---	---
17	---	---	12.0	9.0	---	14.0	---	---	---	26.0	---	---
18	---	---	12.0	9.0	---	14.0	---	---	---	26.0	---	---
19	---	---	12.0	8.0	---	14.0	---	---	---	26.0	---	---
20	---	---	12.0	8.0	12.0	15.0	---	---	---	26.0	---	---
21	---	---	12.0	8.0	12.0	15.0	---	22.0	---	26.0	---	---
22	---	---	12.0	8.0	12.0	15.0	---	22.0	---	27.0	---	---
23	---	---	12.0	8.0	12.0	---	19.0	22.0	---	27.0	---	---
24	---	---	12.0	7.0	12.0	---	19.0	24.0	---	27.0	---	24.0
25	---	---	11.0	7.0	12.0	---	20.0	23.0	---	27.0	---	24.0
26	---	---	11.0	7.0	12.0	---	20.0	23.0	---	27.0	---	24.0
27	---	---	11.0	7.0	12.0	---	20.0	23.0	---	27.0	---	23.0
28	---	---	12.0	7.0	12.0	---	20.0	23.0	---	27.0	---	23.0
29	---	---	12.0	7.0	---	---	---	24.0	---	27.0	---	23.0
30	---	---	12.0	8.0	---	---	---	24.0	---	27.0	---	23.0
31	---	---	12.0	8.0	---	---	---	24.0	---	27.0	---	---
MAX	---	---	---	12.0	---	---	---	---	---	27.0	---	---
MIN	---	---	---	7.0	---	---	---	---	---	26.0	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

MISSISSIPPI RIVER DELTA

293150090241000 BAYOU BLUE ONE MILE ABOVE GRAND BAYOU CANAL, NEAR LAROSE, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	36	42	110	29	48	29	21	40	48
2	---	---	---	30	29	100	30	50	31	36	41	28
3	---	---	---	30	33	120	28	48	33	44	38	28
4	---	---	---	39	32	88	30	52	18	38	47	22
5	---	---	---	30	38	76	36	51	15	36	30	26
6	---	---	---	30	32	84	29	49	16	35	30	42
7	---	---	---	30	32	69	29	14	16	40	42	36
8	---	---	---	29	32	110	30	14	23	35	38	27
9	---	---	---	30	33	90	31	16	20	20	41	29
10	---	---	---	34	32	84	32	14	16	34	38	40
11	---	---	---	31	32	86	31	15	19	35	40	42
12	---	---	---	30	33	21	38	15	18	41	40	39
13	---	---	---	31	33	21	32	16	20	36	60	72
14	---	---	---	29	33	68	32	17	19	40	58	40
15	---	---	---	30	31	58	31	14	---	35	60	38
16	---	---	---	31	34	54	34	14	19	18	55	40
17	---	---	74	30	35	56	32	14	---	21	57	50
18	---	---	75	38	33	62	42	14	21	20	56	44
19	---	---	42	30	33	56	31	15	20	20	57	42
20	---	---	50	30	34	58	32	16	21	21	58	44
21	---	---	47	30	32	56	32	30	20	23	64	42
22	---	---	48	37	33	57	32	31	22	19	57	40
23	---	---	50	31	33	54	67	32	20	19	57	43
24	---	---	50	31	32	52	66	30	21	18	58	150
25	---	---	43	31	32	57	54	30	21	22	60	140
26	---	---	52	32	110	28	51	30	21	22	62	150
27	---	---	43	31	110	28	50	31	21	20	48	160
28	---	---	42	30	100	31	53	31	22	22	47	150
29	---	---	45	36	---	30	50	29	22	23	49	160
30	---	---	43	36	---	28	50	30	20	40	48	140
31	---	---	42	32	---	29	---	30	---	40	27	---
MAX	---	---	---	39	110	120	67	52	33	44	64	160
MIN	---	---	---	29	29	21	28	14	15	18	27	22

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

293313090360500 BAYOU TERREBONNE NEAR BOURG, LA

LOCATION.--Lat 29°33'13", long 90°36'05", T. 17 S., R. 18 E., Terrebonne Parish, Hydrologic Unit 08090302, 0.2 mi downstream of Company Canal, at Bourg.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, March 1980 to September 1984, June 1990 to September 1991.

CHLORIDE-SURFACE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1991.

CHLORIDE-10 FT DEPTH: October 1975 to November 1978, November 1979 to September 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Samples collected at a 5-ft depth and at a 10-ft depth.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES-5 FT DEPTH: Maximum daily, 32.0 °C July 4-5, 1978, July 23, 1981; minimum daily, 3.0 °C Jan. 15, 1978.

WATER TEMPERATURES-10 FT DEPTH: Maximum daily, 32.0 °C July 4-5, 1978, July 23, 1981; minimum daily, 3.0 °C Jan. 15, 1978.

CHLORIDE-5 FT DEPTH: Maximum daily, 7,500 mg/L Mar. 30, 1977; minimum daily, 9.3 mg/L June 26, 1991.

CHLORIDE-10 FT DEPTH: Maximum daily, 7,700 mg/L May 19, 1981; minimum daily, 9.2 mg/L June 25, 1991.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES-5 FT DEPTH: Maximum daily, 31.0 °C July 28, 29, Aug. 5-7; minimum daily, 10 °C Dec. 26, 27.

WATER TEMPERATURES-10 FT DEPTH: Maximum daily, 31.0 °C July 28, 29, Aug. 5-7; minimum daily, 10 °C Dec. 26, 27.

CHLORIDE-5 FT DEPTH: Maximum daily, 3200 mg/L April 14; minimum daily, 9.3 mg/L June 26.

CHLORIDE-10 FT DEPTH: Minimum daily, 3200 mg/L April 14; minimum daily, 9.2 mg/L June 25.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	---	18.0	14.0	14.0	17.0	21.0	22.0	28.0	28.0	30.0	29.0
2	25.0	---	18.0	14.0	15.0	17.0	21.0	---	28.0	28.0	30.0	29.0
3	25.0	---	16.0	14.0	15.0	16.0	22.0	22.0	29.0	28.0	30.0	28.0
4	25.0	---	16.0	14.0	15.0	18.0	21.0	22.0	29.0	28.0	30.0	28.0
5	25.0	---	16.0	13.0	15.0	18.0	21.0	22.0	29.0	28.0	31.0	28.0
6	26.0	---	16.0	13.0	15.0	18.0	21.0	24.0	29.0	28.0	31.0	28.0
7	26.0	---	---	14.0	15.0	18.0	21.0	24.0	29.0	28.0	31.0	28.0
8	26.0	---	14.0	14.0	15.0	19.0	21.0	24.0	26.0	29.0	30.0	28.0
9	26.0	---	14.0	14.0	14.0	18.0	21.0	24.0	26.0	29.0	---	28.0
10	25.0	---	14.0	14.0	---	18.0	22.0	24.0	26.0	29.0	---	29.0
11	---	---	16.0	14.0	14.0	18.0	22.0	24.0	26.5	29.0	---	29.0
12	---	---	16.0	14.0	15.0	18.0	22.0	24.0	26.0	29.0	30.0	29.0
13	---	---	16.0	13.0	15.0	18.0	22.0	24.0	26.0	29.0	28.0	29.0
14	---	---	16.0	13.0	15.0	19.0	22.0	26.0	26.0	29.0	29.0	29.0
15	---	---	16.0	13.0	14.0	19.0	21.0	26.0	26.0	29.0	29.0	27.0
16	---	---	18.0	13.0	13.0	19.0	21.0	26.0	26.0	---	29.0	28.0
17	---	---	18.0	13.0	13.0	19.0	22.0	26.0	26.0	30.0	29.0	28.0
18	---	---	16.0	13.0	17.0	19.0	22.0	26.0	26.0	30.0	29.0	28.0
19	---	---	16.0	13.0	17.0	21.0	22.0	26.0	26.0	30.0	29.0	27.0
20	---	---	18.0	13.0	17.0	21.0	22.0	26.0	26.0	30.0	29.0	27.0
21	---	---	18.0	12.0	17.0	21.0	21.0	26.0	26.0	30.0	29.0	27.0
22	---	---	18.0	12.0	17.0	21.0	21.0	25.0	27.0	30.0	29.0	27.0
23	---	---	18.0	13.0	17.0	21.0	22.0	25.0	27.0	30.0	29.0	27.0
24	---	---	15.0	13.0	17.0	21.0	22.0	25.0	27.0	30.0	29.0	27.0
25	---	---	11.0	12.0	16.0	21.0	22.0	25.0	28.0	30.0	29.0	24.0
26	---	---	10.0	13.0	16.0	22.0	22.0	26.0	27.0	30.0	28.0	24.0
27	---	---	10.0	14.0	16.0	22.0	21.0	28.0	27.0	30.0	28.0	24.0
28	---	---	12.0	14.0	16.0	22.0	21.0	28.0	27.0	31.0	29.0	24.0
29	---	18.0	12.0	14.0	---	22.0	21.0	28.0	27.0	31.0	29.0	24.0
30	---	18.0	14.0	14.0	---	21.0	22.0	28.0	27.0	30.0	29.0	24.0
31	---	---	14.0	14.0	---	21.0	---	28.0	---	30.0	29.0	---
MAX	---	---	18.0	14.0	17.0	22.0	22.0	28.0	29.0	31.0	31.0	29.0
MIN	---	---	10.0	12.0	13.0	16.0	21.0	22.0	26.0	28.0	28.0	24.0

MISSISSIPPI RIVER DELTA

293313090360500 BAYOU TERREBONNE NEAR BOURG, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	---	180	35	37	29	31	21	18	---	49	44
2	52	---	180	35	28	27	29	---	19	16	44	46
3	74	---	190	50	29	24	26	20	13	12	44	46
4	1700	---	180	28	28	29	28	43	23	12	60	43
5	280	---	180	28	26	28	29	44	24	12	64	44
6	270	---	100	25	23	26	28	25	41	12	64	46
7	92	---	---	45	28	28	51	25	42	12	49	40
8	98	---	100	42	25	25	45	26	26	36	45	41
9	98	---	85	32	33	23	38	17	26	38	---	65
10	98	---	82	25	---	45	32	16	10	39	---	66
11	---	---	45	25	26	21	32	16	25	39	---	65
12	---	---	45	24	27	28	31	38	15	12	52	66
13	---	---	44	21	27	31	32	37	28	11	28	94
14	---	---	70	20	32	39	3200	18	15	17	30	92
15	---	---	54	33	31	18	24	18	14	17	32	94
16	---	---	53	26	28	19	24	17	14	---	32	70
17	---	---	61	26	24	20	24	16	16	15	31	73
18	---	---	44	36	24	38	25	18	16	48	47	74
19	---	---	40	38	30	22	23	11	16	23	40	40
20	---	---	46	42	24	75	72	12	15	65	41	40
21	---	---	42	42	26	45	27	18	14	68	37	37
22	---	---	73	27	27	57	33	44	14	68	40	38
23	---	---	72	24	40	21	26	44	29	21	44	38
24	---	---	72	26	26	59	28	44	28	21	43	48
25	---	---	51	26	25	160	36	45	10	18	79	68
26	---	---	52	27	29	160	24	23	9.3	29	70	68
27	---	---	90	27	28	160	36	20	9.6	20	72	68
28	---	---	85	40	25	160	32	19	9.5	20	42	68
29	---	180	82	41	---	160	32	---	10	28	45	88
30	---	180	36	21	---	30	58	19	10	25	25	110
31	---	---	35	26	---	32	---	18	---	26	45	---
MAX	---	---	190	50	40	160	3200	45	42	68	79	110
MIN	---	---	35	20	23	18	23	11	9.3	11	25	37

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 10.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	---	18.0	14.0	14.0	17.0	21.0	22.0	28.0	28.0	30.0	29.0
2	25.0	---	18.0	14.0	15.0	17.0	21.0	22.0	28.0	28.0	30.0	29.0
3	25.0	---	16.0	14.0	15.0	16.0	22.0	22.0	29.0	28.0	30.0	28.0
4	25.0	---	16.0	14.0	15.0	18.0	21.0	---	29.0	28.0	30.0	28.0
5	26.0	---	16.0	13.0	15.0	18.0	21.0	22.0	29.0	28.0	31.0	28.0
6	26.0	---	16.0	13.0	15.0	18.0	21.0	24.0	29.0	28.0	31.0	28.0
7	26.0	---	---	14.0	15.0	18.0	21.0	24.0	29.0	28.0	31.0	28.0
8	26.0	---	14.0	14.0	15.0	19.0	21.0	24.0	26.0	29.0	30.0	28.0
9	26.0	---	14.0	14.0	14.0	18.0	21.0	24.0	26.0	29.0	30.0	28.0
10	25.0	---	14.0	14.0	---	18.0	22.0	24.0	26.0	29.0	---	29.0
11	---	---	16.0	14.0	14.0	18.0	22.0	24.0	26.0	29.0	---	29.0
12	---	---	16.0	14.0	15.0	18.0	22.0	24.0	---	29.0	30.0	29.0
13	---	---	16.0	13.0	15.0	18.0	22.0	24.0	26.0	29.0	28.0	29.0
14	---	---	16.0	13.0	15.0	19.0	22.0	26.0	26.0	29.0	29.0	29.0
15	---	---	16.0	13.0	14.0	19.0	21.0	26.0	26.0	29.0	29.0	27.0
16	---	---	18.0	13.0	13.0	19.0	21.0	26.0	26.0	---	29.0	28.0
17	---	---	18.0	13.0	13.0	19.0	22.0	26.0	26.0	30.0	29.0	28.0
18	---	---	16.0	13.0	17.0	19.0	22.0	26.0	26.0	30.0	29.0	28.0
19	---	---	16.0	13.0	17.0	21.0	22.0	26.0	26.0	30.0	29.0	27.0
20	---	---	18.0	13.0	17.0	21.0	22.0	26.0	26.0	30.0	29.0	27.0
21	---	---	18.0	12.0	17.0	21.0	21.0	26.0	26.0	30.0	29.0	27.0
22	---	---	18.0	12.0	17.0	21.0	21.0	25.0	27.0	30.0	29.0	27.0
23	---	---	18.0	13.0	17.0	21.0	22.0	25.0	27.0	30.0	29.0	27.0
24	---	---	15.0	13.0	17.0	21.0	22.0	25.0	27.0	30.0	29.0	27.0
25	---	---	11.0	12.0	16.0	21.0	22.0	25.0	28.0	30.0	29.0	24.0
26	---	---	10.0	13.0	16.0	22.0	22.0	26.0	27.0	30.0	28.0	24.0
27	---	---	10.0	14.0	16.0	22.0	21.0	28.0	27.0	30.0	28.0	24.0
28	---	---	12.0	---	16.0	22.0	21.0	28.0	27.0	31.0	29.0	24.0
29	---	18.0	12.0	14.0	---	22.0	21.0	28.0	27.0	31.0	29.0	24.0
30	---	18.0	14.0	14.0	---	21.0	---	28.0	27.0	30.0	29.0	24.0
31	---	---	14.0	14.0	---	21.0	---	28.0	---	30.0	29.0	---
MAX	---	---	18.0	14.0	17.0	22.0	22.0	28.0	29.0	31.0	31.0	29.0
MIN	---	---	10.0	12.0	13.0	16.0	21.0	22.0	26.0	28.0	28.0	24.0

MISSISSIPPI RIVER DELTA

211

293313090360500 BAYOU TERREBONNE NEAR BOURG, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL). WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 10.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	---	180	36	22	27	31	51	20	15	48	43
2	51	---	180	36	29	31	29	43	20	12	44	46
3	72	---	180	41	29	22	26	43	12	12	43	45
4	1600	---	180	32	28	30	28	---	22	12	66	43
5	260	---	190	28	26	29	28	43	22	12	63	44
6	270	---	110	37	26	28	29	28	42	12	62	44
7	91	---	---	37	25	28	56	26	44	12	49	41
8	94	---	100	48	27	25	42	26	26	37	46	40
9	100	---	85	30	34	25	38	20	25	38	55	74
10	92	---	81	24	---	47	32	17	11	36	---	66
11	---	---	44	26	26	22	31	15	24	39	---	70
12	---	---	45	25	27	28	32	38	---	12	48	64
13	---	---	46	19	27	29	32	36	29	12	29	92
14	---	---	70	18	35	40	3200	19	13	17	32	94
15	---	---	52	32	32	19	23	17	15	18	31	94
16	---	---	54	27	29	19	23	18	15	---	32	71
17	---	---	68	27	24	22	23	17	17	15	30	71
18	---	---	55	36	23	38	22	19	14	48	48	70
19	---	---	40	36	33	20	24	12	16	23	40	39
20	---	---	41	40	25	28	72	12	15	72	42	39
21	---	---	42	42	27	19	28	18	15	66	41	38
22	---	---	72	28	26	46	27	45	15	---	40	37
23	---	---	72	25	43	32	26	44	27	24	38	38
24	---	---	71	27	27	52	27	43	29	23	42	38
25	---	---	51	27	25	160	26	44	9.2	19	78	70
26	---	---	52	37	31	160	28	25	11	29	72	68
27	---	---	82	27	28	160	33	19	11	18	72	71
28	---	---	100	38	27	160	33	19	9.8	25	42	68
29	---	170	84	40	---	160	32	20	9.4	26	41	89
30	---	180	36	22	---	34	---	19	9.6	24	27	110
31	---	---	37	25	---	31	---	18	---	27	44	---
MAX	---	---	190	48	43	160	3200	51	44	66	78	110
MIN	---	---	36	18	22	19	22	12	9.2	12	27	37

MISSISSIPPI RIVER DELTA

07381324 BAYOU GRAND CAILLOU AT DULAC, LA

LOCATION.--Lat 29°22'58", long 90°42'55", in sec.86, T.19 S, R.17 E., St. Helena Meridian, Terrebonne Parish, Hydrologic Unit 08090302, on downstream side of Bouquet Bridge, 0.1 mi west of intersection of parish road and Highway 57, 0.8 mi south of Dulac, 16.4 mi south of Houma.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1984 to Sept. 30, 1988 (daily discharges below 6.0 ft stage only, discontinued); January 1989 to current year.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 4.00 ft below National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1985, datum of gage 2.00 ft higher.

REMARKS.--Records fair. No discharge record: Oct. 1 to Dec. 10, Jan. 16 to Feb. 20. Flow occasionally reversed as a result of tide and wind effect.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,640 ft³/s, Oct. 13, 1984; maximum gage height, 8.89 ft, Oct. 28, 1985; maximum negative discharge, -1,470 ft³/s, Oct. 28, 1985; no flow at times each year.

EXTREMES FOR CURRENT PERIOD.--Maximum positive daily discharge, 475 ft³/s, Apr. 20; maximum negative daily discharge, -236 ft³/s, Sept. 2; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	-3.4	---	281	105	234	248	-16	45	-166
2	---	---	---	2.4	---	325	44	144	201	8.3	3.1	-236
3	---	---	---	110	---	304	6.0	66	163	29	9.0	-172
4	---	---	---	25	---	169	76	1.7	194	15	8.8	-168
5	---	---	---	9.6	---	171	64	15	118	27	7.6	-163
6	---	---	---	149	---	259	54	189	106	77	16	-92
7	---	---	---	251	---	128	41	229	33	99	16	-141
8	---	---	---	97	---	209	108	85	10	67	52	-126
9	---	---	---	14	---	171	205	332	-18	112	55	-165
10	---	---	---	335	---	73	214	31	82	118	77	-186
11	---	---	-87	258	---	37	61	76	97	89	102	-166
12	---	---	37	203	---	74	-7.9	262	186	59	127	-144
13	---	---	78	66	---	183	-69	272	192	9.2	89	-134
14	---	---	100	73	---	146	21	203	183	23	99	-131
15	---	---	33	114	---	54	139	212	184	8.0	106	-143
16	---	---	84	---	---	-67	249	236	227	33	25	-144
17	---	---	-23	---	---	16	328	256	208	-14	-3.0	-137
18	---	---	160	---	---	165	310	406	244	-10	-3.7	-141
19	---	---	21	---	---	130	354	175	224	7.3	-3.30	-96
20	---	---	66	---	---	62	475	336	144	20	-33	-46
21	---	---	58	---	156	-2.6	311	310	101	27	-39	-104
22	---	---	135	---	359	138	137	19	87	69	-13	-115
23	---	---	74	---	195	293	283	-8.6	48	83	-18	-109
24	---	---	7.1	---	175	198	162	87	56	61	-15	-81
25	---	---	-67	---	185	115	148	229	78	48	-5.6	75
26	---	---	-83	---	93	47	-14	178	63	42	-30	-7.3
27	---	---	2.1	---	63	106	210	320	37	29	62	-20
28	---	---	109	---	24	74	118	354	75	43	51	-31
29	---	---	34	---	---	293	69	298	48	40	22	-75
30	---	---	104	---	---	253	142	233	34	21	11	-113
31	---	---	93	---	---	162	---	216	---	24	-102	---
TOTAL	---	---	---	---	---	4566.4	4343.1	5996.1	3653	1247.8	720.90	-3477.3
MEAN	---	---	---	---	---	147	145	193	122	40.3	23.3	-116

07381324 BAYOU GRAND CAILLOU AT DULAC, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	4.06	---	4.45	3.76	5.41	5.04	4.50	4.29	4.84
2	---	---	---	4.15	---	4.59	3.92	5.21	4.89	4.50	4.38	4.90
3	---	---	---	4.07	---	4.14	4.25	5.16	4.71	4.42	4.36	4.98
4	---	---	---	4.00	---	3.68	4.31	5.13	4.48	4.37	4.41	5.01
5	---	---	---	4.22	---	3.90	4.30	5.09	4.26	4.46	4.39	5.11
6	---	---	---	4.28	---	4.06	4.31	4.74	4.35	4.83	4.33	5.07
7	---	---	---	4.14	---	4.10	4.47	4.67	4.91	4.81	4.37	4.95
8	---	---	---	3.95	---	4.07	4.68	5.06	5.10	4.75	4.45	4.70
9	---	---	---	4.07	---	3.74	4.66	5.30	5.27	4.69	4.45	4.75
10	---	---	---	4.50	---	3.60	4.46	5.24	5.36	4.59	4.30	4.89
11	---	---	3.72	4.75	---	3.86	4.71	5.10	5.47	4.52	4.02	4.92
12	---	---	4.16	4.36	---	4.07	5.01	5.01	5.36	4.44	3.84	4.90
13	---	---	4.01	4.11	---	4.17	5.17	5.01	5.20	4.32	3.82	4.85
14	---	---	4.03	4.16	---	3.96	5.31	5.05	5.10	4.18	4.03	4.81
15	---	---	4.01	4.45	---	3.99	5.22	5.19	4.98	4.19	4.21	4.84
16	---	---	4.10	---	---	4.52	5.07	5.21	4.84	4.02	4.19	4.77
17	---	---	4.18	---	---	4.77	4.91	5.19	4.68	4.07	4.30	4.66
18	---	---	4.32	---	---	4.47	5.09	5.25	4.46	4.15	4.29	4.72
19	---	---	4.24	---	---	4.42	5.06	5.48	4.36	4.23	4.15	4.69
20	---	---	4.40	---	---	4.53	4.81	5.29	4.30	4.23	4.10	4.39
21	---	---	4.51	---	4.07	4.58	4.59	5.19	4.33	4.35	4.10	4.52
22	---	---	4.61	---	4.11	4.82	4.80	5.67	4.35	4.40	4.09	4.65
23	---	---	4.47	---	3.76	4.58	4.77	5.90	4.36	4.36	4.19	4.76
24	---	---	3.61	---	3.87	4.27	4.69	5.84	4.36	4.30	4.22	4.75
25	---	---	3.73	---	3.88	4.30	5.09	5.69	4.33	4.25	4.21	4.47
26	---	---	3.85	---	3.64	4.40	5.38	5.67	4.34	4.21	4.25	4.28
27	---	---	4.02	---	3.75	4.73	5.64	5.48	4.46	4.17	4.50	4.20
28	---	---	4.09	---	4.00	4.66	5.75	5.31	4.46	4.10	4.43	4.30
29	---	---	4.19	---	---	4.86	5.90	5.19	4.49	4.03	4.41	4.45
30	---	---	4.23	---	---	4.24	5.73	5.21	4.47	4.02	4.43	4.54
31	---	---	4.02	---	---	3.88	---	5.21	---	4.14	4.60	---
MAX	---	---	---	---	---	4.86	5.90	5.90	5.47	4.83	4.60	5.11
MIN	---	---	---	---	---	3.60	3.76	4.67	4.26	4.02	3.82	4.20

MISSISSIPPI RIVER DELTA

292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA

LOCATION.--Lat 29°27'00", long 90°42'00", T. 19 S., R. 17 E., Terrebonne Parish, Hydrologic Unit 08090302, 0.8 mi south of Dulac at bridge.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1977 to November 1978, March 1980 to September 1984, June 1990 to September 1991.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 36.0 °C Oct. 10, Nov. 1, 8, 17, 21, 1977, May 25, July 1, 1978; minimum daily, 4.0 °C Dec. 25, 31, 1983.

CHLORIDE: Maximum daily, 18,000 mg/L Nov. 2, 1974; minimum daily, 14 mg/L Aug. 6, 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 32.0 °C July 15, 20-24, 26-31, Aug. 1-9, 13, 21-23, 26, Sept. 14, 16, 18; minimum daily, 10.0 °C Jan. 25, 26.

CHLORIDE: Maximum daily, 12,000 mg/L Nov. 4; minimum daily, 19 mg/L July 1-3.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.0	20.0	16.0	14.0	14.0	16.0	18.0	24.0	---	30.0	32.0	28.0
2	28.0	22.0	16.0	14.0	12.0	18.0	20.0	26.0	---	30.0	32.0	28.0
3	28.0	22.0	18.0	14.0	14.0	18.0	20.0	26.0	30.0	30.0	32.0	28.0
4	28.0	22.0	14.0	14.0	16.0	14.0	22.0	26.0	30.0	30.0	32.0	28.0
5	28.0	22.0	14.0	14.0	16.0	16.0	22.0	26.0	30.0	30.0	32.0	28.0
6	28.0	20.0	14.0	16.0	18.0	18.0	22.0	26.0	30.0	30.0	32.0	28.0
7	28.0	20.0	12.0	16.0	18.0	18.0	22.0	24.0	28.0	28.0	32.0	28.0
8	30.0	20.0	12.0	14.0	16.0	20.0	22.0	24.0	26.0	28.0	32.0	28.0
9	28.0	20.0	12.0	14.0	16.0	18.0	24.0	24.0	26.0	28.0	32.0	30.0
10	24.0	16.0	12.0	16.0	14.0	16.0	24.0	24.0	26.0	28.0	30.0	30.0
11	22.0	16.0	14.0	16.0	16.0	20.0	24.0	---	28.0	30.0	30.0	30.0
12	22.0	16.0	18.0	14.0	16.0	18.0	24.0	26.0	28.0	30.0	28.0	30.0
13	24.0	18.0	18.0	12.0	16.0	18.0	24.0	26.0	28.0	30.0	32.0	30.0
14	22.0	18.0	18.0	12.0	18.0	18.0	26.0	28.0	28.0	30.0	30.0	32.0
15	24.0	18.0	18.0	12.0	14.0	16.0	24.0	26.0	28.0	32.0	30.0	30.0
16	24.0	20.0	18.0	12.0	16.0	16.0	24.0	26.0	28.0	30.0	30.0	32.0
17	24.0	20.0	18.0	14.0	16.0	16.0	24.0	26.0	30.0	30.0	30.0	30.0
18	22.0	20.0	20.0	12.0	16.0	18.0	24.0	26.0	28.0	30.0	30.0	32.0
19	22.0	20.0	18.0	12.0	20.0	18.0	24.0	24.0	28.0	30.0	30.0	30.0
20	22.0	20.0	20.0	12.0	20.0	16.0	24.0	26.0	30.0	32.0	30.0	28.0
21	22.0	20.0	20.0	12.0	18.0	18.0	22.0	26.0	30.0	32.0	32.0	28.0
22	24.0	22.0	22.0	10.0	18.0	22.0	22.0	26.0	30.0	32.0	32.0	28.0
23	20.0	22.0	20.0	12.0	16.0	24.0	24.0	28.0	30.0	32.0	32.0	28.0
24	20.0	22.0	12.0	12.0	16.0	24.0	24.0	26.0	30.0	32.0	30.0	28.0
25	20.0	22.0	12.0	10.0	16.0	22.0	24.0	28.0	30.0	30.0	30.0	26.0
26	18.0	24.0	12.0	10.0	14.0	22.0	24.0	28.0	30.0	32.0	32.0	26.0
27	18.0	24.0	12.0	12.0	16.0	24.0	24.0	28.0	30.0	32.0	30.0	24.0
28	18.0	22.0	14.0	12.0	16.0	24.0	24.0	28.0	28.0	32.0	28.0	26.0
29	20.0	16.0	16.0	14.0	---	22.0	22.0	28.0	30.0	32.0	30.0	24.0
30	20.0	14.0	18.0	14.0	---	18.0	22.0	28.0	30.0	32.0	30.0	24.0
31	20.0	---	16.0	14.0	---	18.0	---	28.0	---	32.0	30.0	---
MAX	30.0	24.0	22.0	16.0	20.0	24.0	26.0	28.0	30.0	32.0	32.0	32.0
MIN	18.0	14.0	12.0	10.0	12.0	14.0	18.0	24.0	26.0	28.0	28.0	24.0

292700090420000 BAYOU GRAND CAILLOU NEAR DULAC, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6300	6600	5400	1600	1000	1800	780	2300	---	19	2600	5400
2	4800	7000	6500	3000	360	370	63	1100	---	19	6000	5500
3	9100	7300	9400	2000	470	220	64	2100	590	19	4600	5200
4	7500	12000	5600	4000	550	580	300	1800	660	24	4000	5000
5	4700	9400	5000	4000	61	90	1200	170	700	27	2600	5200
6	4500	8400	1700	2300	370	95	510	1700	560	21	2900	2100
7	6400	8500	4600	2600	850	82	360	1700	1800	28	3600	2100
8	7200	6100	4600	3400	940	110	1300	1600	3600	27	2100	1400
9	8700	8700	4000	2500	510	360	1300	280	3100	32	1600	1200
10	4500	6000	1100	3000	130	460	1500	280	3800	82	290	900
11	4200	5500	600	2000	140	62	680	430	3200	45	320	3200
12	5300	4600	1600	2400	50	54	4800	60	240	38	820	4500
13	2900	5200	1600	2700	50	510	3500	42	240	33	130	4200
14	4300	5200	1600	2000	68	74	7700	45	110	140	3300	1900
15	4200	5400	1600	350	190	120	3700	47	52	31	3200	3800
16	3500	5100	1600	460	78	2900	1400	33	740	90	4500	1800
17	6300	6000	1600	1600	78	5400	1900	110	800	25	4200	1300
18	4200	5400	6200	210	29	960	2500	520	980	100	3400	1700
19	4200	7800	2600	700	2000	500	1700	530	470	110	1200	1600
20	7800	7000	3300	86	580	110	1700	760	580	45	700	6000
21	8800	8000	4600	2000	120	560	2000	900	20	120	800	6000
22	7200	8200	5200	2100	280	1600	490	830	23	590	1600	6000
23	5800	8200	5000	290	630	2000	610	3500	22	160	2300	5800
24	5700	6800	4300	300	540	1000	980	2000	27	190	1300	5400
25	2600	5700	3700	1200	140	840	5000	1200	23	43	3100	2900
26	1700	10000	1800	350	590	200	6200	600	29	56	1900	2400
27	5000	10000	3100	200	200	360	6300	1000	52	45	2800	2100
28	3300	7200	4400	1700	210	540	5000	360	41	44	1500	2300
29	5400	6000	4000	250	---	2600	1800	560	29	43	1000	7700
30	5600	5800	4200	590	---	840	2800	38	57	42	320	8800
31	4200	---	3100	610	---	860	---	50	---	70	4700	---
MAX	9100	12000	9400	4000	2000	5400	7700	3500	3800	590	6000	8800
MIN	1700	4600	600	86	29	54	63	33	20	19	130	900

MISSISSIPPI RIVER DELTA

292300090370000 BAYOU PETIT CAILLOU NR BOUDREAUX CANAL NEAR DULAC, LA

LOCATION.--Lat 29°23'00", long 90°37'00", T. 19 S., R. 18 E., Terrebonne Parish, Hydrologic Unit 08090302, 5.7 mi east of Dulac.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, November 1979 to September 1984, June 1990 to September 1991.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 35.0 °C July 4-6, 1978; minimum daily, 3.5 °C Jan. 20, 1977.

CHLORIDE: Maximum daily, 9,600 mg/L Mar. 30, Oct. 26, 1981; minimum daily, 12 mg/L Aug. 2, 12, 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 30.0 °C June 24-28, July 4-6, 11-15, 17-29, Aug. 1-5; minimum daily 11.0 °C Dec. 25, 26, Jan. 24-26.

CHLORIDE: Maximum daily, 6,600 mg/L Dec. 20; minimum daily, 16 mg/L July 6, 8.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	15.0	13.0	17.0	18.0	25.0	28.0	29.0	30.0	29.0
2	---	---	---	14.0	13.0	17.0	19.0	25.0	28.0	29.0	30.0	29.0
3	---	---	---	14.0	17.0	18.0	22.0	25.0	28.0	29.0	30.0	29.0
4	---	---	15.0	13.0	17.0	15.0	22.0	25.0	29.0	30.0	30.0	29.0
5	---	---	13.0	17.0	17.0	18.0	22.0	25.0	29.0	30.0	30.0	28.0
6	---	---	13.0	17.0	17.0	18.0	22.0	25.0	29.0	30.0	29.0	28.0
7	---	---	13.0	17.0	17.0	18.0	23.0	25.0	29.0	30.0	29.0	28.0
8	---	---	12.0	15.0	17.0	18.0	23.0	25.0	27.0	26.0	28.0	28.0
9	---	---	12.0	16.0	16.0	18.0	24.0	25.0	27.0	27.0	28.0	28.0
10	---	---	12.0	16.0	16.0	17.0	24.0	24.0	27.0	27.0	29.0	27.0
11	---	---	12.0	16.0	16.0	17.0	24.0	24.0	27.0	30.0	29.0	27.0
12	---	---	13.0	13.0	17.0	19.0	24.0	24.0	27.0	30.0	26.0	27.0
13	---	---	15.0	13.0	17.0	19.0	24.0	26.0	27.0	30.0	27.0	28.0
14	---	---	18.0	13.0	17.0	17.0	24.0	26.0	27.0	30.0	27.0	28.0
15	---	---	18.0	14.0	16.0	17.0	24.0	26.0	29.0	30.0	27.0	28.0
16	---	---	20.0	15.0	12.5	16.5	24.0	26.0	29.0	28.0	28.0	28.0
17	---	---	20.0	14.0	16.0	16.5	24.0	25.0	29.0	30.0	28.0	28.0
18	---	---	20.0	14.0	15.0	18.0	---	25.0	28.5	30.0	28.0	28.0
19	---	---	19.0	14.0	19.0	18.0	23.0	25.0	28.5	30.0	28.0	28.0
20	---	---	19.0	13.0	18.0	19.0	23.0	25.0	29.0	30.0	29.0	26.0
21	---	---	22.0	13.0	18.0	19.0	22.0	24.0	29.0	30.0	29.0	26.0
22	---	---	22.0	12.0	17.0	22.0	22.0	24.0	29.0	30.0	28.0	26.0
23	---	---	21.0	12.0	17.0	22.0	24.0	24.0	29.0	30.0	28.0	26.0
24	---	---	14.0	11.0	18.0	22.0	24.0	25.0	30.0	30.0	28.0	26.0
25	---	---	11.0	11.0	18.0	23.0	25.0	25.0	30.0	30.0	28.0	26.0
26	---	---	11.0	11.0	15.0	24.0	25.0	25.0	30.0	30.0	28.0	26.0
27	---	---	15.0	12.0	15.0	24.0	25.0	25.0	30.0	30.0	27.0	26.0
28	---	---	15.0	12.5	15.0	24.0	25.0	27.0	30.0	30.0	27.0	24.0
29	---	---	15.0	14.0	---	22.0	25.0	27.0	29.0	30.0	27.0	24.0
30	---	---	17.0	15.0	---	19.0	25.0	28.0	29.0	27.0	29.0	24.0
31	---	---	16.5	14.0	---	19.0	---	28.0	---	28.0	29.0	---
MAX	---	---	22.0	17.0	19.0	24.0	25.0	28.0	30.0	30.0	30.0	29.0
MIN	---	---	11.0	11.0	12.5	15.0	18.0	24.0	27.0	26.0	26.0	24.0

MISSISSIPPI RIVER DELTA

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292300090370000 BAYOU PETIT CAILLOU NR BOUDREAUX CANAL NEAR DULAC, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	5000	50	84	1100	140	460	960	840	600
2	---	---	---	5000	30	86	1200	1200	400	900	840	620
3	---	---	---	5200	250	64	1300	1200	660	890	860	640
4	---	---	4700	3800	270	31	1100	1200	500	840	860	650
5	---	---	5500	2600	50	150	1100	180	520	820	860	120
6	---	---	5600	2600	64	240	1500	170	540	16	980	130
7	---	---	5500	2600	64	74	1500	190	1200	17	990	120
8	---	---	3500	1700	160	68	1800	190	1200	16	840	120
9	---	---	2100	2900	660	66	2000	200	1200	610	980	440
10	---	---	1900	2600	680	460	3800	64	1900	600	590	1800
11	---	---	2200	1300	600	540	3900	55	1800	720	600	1800
12	---	---	4100	320	1200	950	3900	58	1300	740	730	1900
13	---	---	3600	260	1200	950	5000	1700	1300	740	1100	1600
14	---	---	4500	2800	940	250	5000	1700	1400	670	1200	1600
15	---	---	4500	2200	940	240	5000	1700	340	660	1200	1600
16	---	---	4800	2800	270	620	5100	55	600	360	1000	1600
17	---	---	5000	2400	1500	660	5200	50	430	640	1100	1800
18	---	---	6500	790	1500	720	---	52	1100	700	1100	1800
19	---	---	5400	580	2000	740	5200	54	1100	460	1000	1700
20	---	---	6600	120	120	580	120	53	1100	460	1000	1600
21	---	---	5800	250	120	480	600	1800	1000	460	1000	1600
22	---	---	6200	450	840	880	510	1600	1000	720	1100	1600
23	---	---	5500	450	880	780	990	750	1000	740	1200	1600
24	---	---	3000	56	140	200	620	47	1100	660	1200	1100
25	---	---	3500	58	140	700	3000	48	1100	660	1200	1100
26	---	---	2400	430	220	1600	390	49	1100	660	1200	900
27	---	---	3200	1300	220	1600	390	49	1000	620	870	890
28	---	---	3300	1400	1000	1600	1100	460	1000	610	900	900
29	---	---	5000	1200	---	330	1200	400	1000	630	800	910
30	---	---	5400	65	---	350	210	320	1000	600	640	900
31	---	---	4000	76	---	1100	---	240	---	630	620	---
MAX	---	---	6600	5200	2000	1600	5200	1800	1900	960	1200	1900
MIN	---	---	1900	56	30	31	120	47	340	16	590	120

MISSISSIPPI RIVER DELTA

07381327 HOUMA NAVIGATION CANAL AT CROZIER, LA

LOCATION.--29°32'22", long 90°42'16", in lot 15, T. 8 S., R. 17 E., Terrebonne Parish, Hydrologic Unit 08090302, on right bank of canal and 0.8 mi east of Crozier.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1966, 1975 to September 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1978, October 1980 to September 1984, December 1990 to September 1991.

CHLORIDE: October 1974 to September 1975, October 1976 to October 1978, November 1979 to September 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 38.0 °C Aug. 21, 1983; minimum daily, 7.0 °C Jan. 20-23, 1978.

CHLORIDE: Maximum daily, 14,000 mg/L Sept. 23, 1984; minimum daily, 8.6 mg/L June 5, 1991.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 25.0 °C March 27-29, June 6, 25-30, July 1-31, Aug. 1-31, Sept. 1-19; minimum daily, 15.0 °C Jan. 9, 13-31, Feb. 1.

CHLORIDE: Maximum daily, 140 mg/L Dec. 3; minimum daily, 8.6 mg/L June 5.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	19.0	17.0	15.0	17.0	18.0	21.0	23.0	---	---	---
2	---	---	19.0	16.0	16.0	17.0	18.0	21.0	23.0	---	---	---
3	---	---	19.0	16.0	16.0	17.0	20.0	21.0	23.0	---	---	---
4	---	---	18.0	16.0	16.0	17.0	20.0	22.0	24.0	---	---	---
5	---	---	18.0	16.0	16.0	17.0	20.0	23.0	24.0	---	---	---
6	---	---	17.0	16.0	16.0	17.0	21.0	23.0	25.0	---	---	---
7	---	---	17.0	17.0	16.0	17.0	21.0	22.0	---	---	---	---
8	---	---	16.0	16.0	17.0	17.0	21.0	22.0	---	---	---	---
9	---	---	16.0	15.0	17.0	17.0	20.0	22.0	---	---	---	---
10	---	---	16.0	16.0	16.0	17.0	21.0	21.0	---	---	---	---
11	---	---	16.0	16.0	16.0	---	21.0	22.0	---	---	---	---
12	---	---	16.0	16.0	16.0	17.0	21.0	22.0	---	---	---	---
13	---	---	16.0	15.0	18.0	17.0	21.0	22.0	---	---	---	---
14	---	---	17.0	15.0	18.0	17.0	21.0	23.0	---	---	---	---
15	---	---	17.0	15.0	18.0	17.0	21.0	23.0	---	---	---	---
16	---	---	17.0	15.0	16.0	17.0	21.0	23.0	---	---	---	---
17	---	---	17.0	15.0	16.0	17.0	20.0	23.0	---	---	---	---
18	---	---	18.0	15.0	16.0	17.0	21.0	23.0	---	---	---	---
19	---	---	18.0	15.0	16.0	17.0	21.0	23.0	---	---	---	---
20	---	---	18.0	15.0	17.0	17.0	21.0	23.0	---	---	---	24.0
21	---	---	19.0	15.0	17.0	17.0	21.0	23.0	---	---	---	24.0
22	---	---	19.0	15.0	17.0	17.0	21.0	23.0	---	---	---	24.0
23	---	---	19.0	15.0	17.0	17.0	21.0	23.0	---	---	---	24.0
24	---	---	18.0	15.0	17.0	17.0	21.0	23.0	---	---	---	24.0
25	---	---	17.0	15.0	17.0	17.0	21.0	23.0	---	---	---	23.0
26	---	---	16.0	15.0	17.0	17.0	22.0	23.0	---	---	---	23.0
27	---	---	16.0	15.0	17.0	---	22.0	23.0	---	---	---	23.0
28	---	---	16.0	15.0	17.0	---	22.0	23.0	---	---	---	23.0
29	---	---	16.0	15.0	---	---	22.0	23.0	---	---	---	23.0
30	---	---	16.0	15.0	---	18.0	22.0	23.0	---	---	---	23.0
31	---	---	16.0	15.0	---	18.0	---	23.0	---	---	---	---
MAX	---	---	19.0	17.0	18.0	18.0	22.0	23.0	---	---	---	---
MIN	---	---	16.0	15.0	15.0	17.0	18.0	21.0	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

07381327 HOUMA NAVIGATION CANAL AT CROZIER, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	120	21	24	25	21	21	10	14	23	33
2	---	---	120	21	41	25	22	20	10	14	19	34
3	---	---	140	21	41	25	23	20	9.9	14	18	32
4	---	---	39	23	23	25	23	19	8.8	14	24	34
5	---	---	72	23	23	25	25	19	8.6	11	23	44
6	---	---	65	22	33	24	20	20	10	12	24	33
7	---	---	42	23	35	24	18	14	9.0	12	25	32
8	---	---	110	21	27	29	20	14	11	12	24	32
9	---	---	47	22	24	24	17	15	9.2	11	25	34
10	---	---	62	26	37	25	15	14	9.4	15	25	18
11	---	---	42	22	23	---	16	14	10	15	27	16
12	---	---	37	23	24	26	17	14	10	12	25	18
13	---	---	70	22	24	25	15	15	10	---	26	19
14	---	---	76	22	23	17	16	14	12	12	25	20
15	---	---	44	29	24	17	16	14	11	12	23	19
16	---	---	36	28	24	18	17	13	10	13	23	20
17	---	---	40	28	23	18	17	14	10	16	24	21
18	---	---	48	28	24	18	18	12	10	15	24	19
19	---	---	54	28	23	18	19	12	10	14	25	18
20	---	---	38	29	22	17	19	12	11	14	25	19
21	---	---	54	28	27	18	20	11	9.8	14	23	20
22	---	---	32	29	23	17	20	11	9.5	14	23	19
23	---	---	29	29	23	19	23	12	11	15	24	19
24	---	---	27	29	21	19	19	11	10	14	25	63
25	---	---	29	29	23	18	20	11	10	14	23	66
26	---	---	27	30	20	21	20	10	12	14	24	64
27	---	---	33	28	21	20	20	12	11	14	33	64
28	---	---	37	28	23	20	18	11	10	15	33	66
29	---	---	37	28	---	17	18	11	10	15	33	65
30	---	---	33	28	---	17	17	9.8	12	15	34	66
31	---	---	32	27	---	19	---	11	---	17	33	---
MAX	---	---	140	30	41	29	25	21	12	17	34	66
MIN	---	---	27	21	20	17	15	9.8	8.6	11	18	16

MISSISSIPPI RIVER DELTA

07381330 INTRACOASTAL WATERWAY AT HOUMA, LA

LOCATION.--Lat 29°35'55", long 90°42'36", in sec. 8, T. 17 S., R. 17 E., Terrebonne Parish, Hydrologic Unit 08090302, at bridge on State Highway 24 at Houma.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1960, 1978 to September 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1981 to September 1984, December 1990 to September 1991.

CHLORIDE: October 1980 to September 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures are not published because the number of missing days exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CHLORIDE: 8,100 mg/L Nov, 1981; minimum daily, 6.2 July 8, 1991.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 25.0 °C March 27-29, June 6, 25-30, July 1-31, Aug. 1-31, Sept. 1-19, 1991; minimum daily, 15.0 °C Jan. 9, 13-31, Feb. 1, 1991.

CHLORIDE: Maximum daily, 360 mg/L Sept. 24; minimum daily, 6.2 mg/L July 8.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	19.0	17.0	15.0	17.0	19.0	21.0	23.0	25.0	25.0	25.0
2	---	---	19.0	16.0	16.0	17.0	19.0	21.0	23.0	25.0	25.0	25.0
3	---	---	19.0	16.0	16.0	17.0	21.0	21.0	23.0	25.0	25.0	---
4	---	---	18.0	16.0	16.0	17.0	20.0	22.0	24.0	25.0	25.0	---
5	---	---	18.0	16.0	16.0	17.0	21.0	23.0	24.0	25.0	25.0	---
6	---	---	17.0	16.0	16.0	17.0	20.0	23.0	25.0	25.0	25.0	---
7	---	---	17.0	17.0	16.0	17.0	21.0	22.0	24.0	25.0	25.0	---
8	---	---	16.0	16.0	17.0	17.0	20.0	22.0	24.0	---	25.0	---
9	---	---	16.0	15.0	17.0	17.0	20.0	22.0	24.0	---	25.0	---
10	---	---	16.0	16.0	16.0	17.0	21.0	21.0	24.0	25.0	25.0	---
11	---	---	16.0	16.0	16.0	17.0	---	22.0	24.0	25.0	25.0	---
12	---	---	16.0	16.0	16.0	17.0	20.0	22.0	24.0	25.0	25.0	25.0
13	---	---	16.0	15.0	18.0	17.0	21.0	22.0	24.0	25.0	25.0	25.0
14	---	---	17.0	15.0	18.0	17.0	21.0	23.0	24.0	25.0	25.0	25.0
15	---	---	17.0	15.0	18.0	17.0	21.0	23.0	24.0	25.0	25.0	25.0
16	---	---	17.0	15.0	16.0	17.0	21.0	23.0	24.0	25.0	25.0	25.0
17	---	---	17.0	15.0	16.0	17.0	21.0	23.0	24.0	25.0	25.0	25.0
18	---	---	18.0	15.0	16.0	17.0	21.0	23.0	24.0	25.0	25.0	25.0
19	---	---	18.0	15.0	16.0	17.0	21.0	23.0	24.0	25.0	25.0	25.0
20	---	---	18.0	15.0	17.0	17.0	22.0	23.0	24.0	25.0	25.0	24.0
21	---	---	19.0	15.0	17.0	17.0	21.0	23.0	24.0	25.0	25.0	24.0
22	---	---	19.0	15.0	17.0	17.0	21.0	23.0	24.0	25.0	25.0	24.0
23	---	---	19.0	15.0	17.0	17.0	21.0	23.0	24.0	25.0	25.0	24.0
24	---	---	18.0	15.0	17.0	17.0	21.0	23.0	24.0	25.0	25.0	24.0
25	---	---	17.0	15.0	17.0	17.0	21.0	23.0	25.0	25.0	25.0	23.0
26	---	---	16.0	---	17.0	24.0	---	23.0	25.0	25.0	25.0	23.0
27	---	---	16.0	---	17.0	25.0	22.0	23.0	25.0	25.0	25.0	23.0
28	---	---	16.0	---	17.0	25.0	22.0	23.0	25.0	25.0	25.0	23.0
29	---	---	16.0	---	---	25.0	22.0	23.0	25.0	25.0	25.0	23.0
30	---	---	18.0	---	---	20.0	22.0	23.0	25.0	25.0	25.0	23.0
31	---	---	18.0	---	---	19.0	---	23.0	---	25.0	25.0	---
MAX	---	---	19.0	17.0	18.0	25.0	19.0	23.0	25.0	25.0	25.0	---
MIN	---	---	16.0	15.0	15.0	17.0	22.0	21.0	23.0	25.0	25.0	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

07381330 INTRACOASTAL WATERWAY AT HOUMA, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	240	26	24	25	21	20	9.0	12	15	27
2	---	---	98	25	25	20	22	10	10	13	14	28
3	---	---	100	25	27	19	23	20	9.2	12	17	110
4	---	---	130	22	25	22	20	20	9.4	12	17	110
5	---	---	56	20	26	22	20	20	8.9	13	17	96
6	---	---	44	26	23	22	18	20	9.6	11	19	76
7	---	---	34	18	22	22	20	18	13	12	20	50
8	---	---	35	16	23	27	20	17	7.4	6.2	14	72
9	---	---	42	17	24	20	18	14	11	7.1	19	72
10	---	---	39	19	22	20	17	13	7.5	14	22	60
11	---	---	38	15	21	20	16	12	9.5	14	22	48
12	---	---	37	15	21	19	17	13	10	13	21	23
13	---	---	38	18	22	18	18	13	11	11	25	20
14	---	---	33	25	21	15	17	14	11	12	25	19
15	---	---	34	29	22	17	17	11	13	12	23	19
16	---	---	35	40	24	19	17	12	9.6	14	20	18
17	---	---	54	40	23	18	17	13	9.7	15	18	16
18	---	---	70	48	23	16	17	13	9.7	13	18	18
19	---	---	68	35	22	15	17	12	9.3	12	15	81
20	---	---	34	45	22	18	19	11	9.1	10	23	80
21	---	---	53	47	21	20	20	9.3	9.5	11	26	80
22	---	---	50	49	19	19	21	10	8.7	9.2	30	46
23	---	---	31	46	22	18	22	10	9.4	9.8	30	30
24	---	---	39	44	21	18	22	10	8.8	9.7	30	360
25	---	---	98	44	22	16	30	10	10	10	31	220
26	---	---	56	49	24	21	22	8.0	8.7	15	27	340
27	---	---	75	37	24	21	73	9.2	10	15	24	27
28	---	---	74	40	25	20	24	9.2	10	16	23	28
29	---	---	56	24	---	17	22	8.9	10	16	54	46
30	---	---	56	23	---	16	31	9.1	12	16	48	52
31	---	---	30	21	---	19	---	9.0	---	18	47	---
MAX	---	---	240	49	27	27	73	20	13	18	54	360
MIN	---	---	30	15	19	15	16	8.0	7.4	6.2	14	16

MISSISSIPPI RIVER DELTA

07381440 BAYOU GROSSE TETE AT ROSEDALE, LA

LOCATION.--Lat 30°26'33", long 91°27'06", in sec.27, T.7 S., R.10 E., St. Helena Meridian, Iberville Parish, Hydrologic Unit 08070300, on downstream side of bridge on Highway 76, in the Town of Rosedale, 2.1 mi north of Interstate 10, 2.5 mi north of Grosse Tete.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1983 to current year. Prior to Oct. 1, 1983, gage heights only, in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929. Reverse flow at times during the year.

REMARKS.--Estimated daily discharges. Records poor. No velocity record: Jan. 11, May 10-11.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 5,170 ft³/s, Feb. 19, 1988, maximum elevation 12.11 ft, Oct. 27, 1983; maximum negative discharge, -280 ft³/s, June 16, 1985, no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,350 ft³/s, Feb. 23; minimum daily discharge, 8.4 ft³/s, Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	19	84	778	759	129	961	256	129	15	430
2	16	17	12	83	799	920	109	946	178	155	17	391
3	16	20	237	786	854	1020	106	959	125	163	17	147
4	17	22	639	845	891	948	100	931	108	138	16	79
5	20	23	410	694	938	823	91	907	103	149	16	398
6	17	22	127	234	1060	688	80	838	141	388	18	713
7	16	22	105	522	1020	422	80	772	262	236	18	821
8	16	20	108	714	986	229	84	811	227	387	23	867
9	20	23	52	566	905	177	81	1020	156	621	29	564
10	19	20	30	453	798	151	82	e950	125	576	46	365
11	15	20	21	e750	674	141	92	e750	141	427	247	275
12	11	18	26	1030	568	137	90	691	130	252	212	207
13	11	19	33	1140	478	135	91	682	129	183	105	173
14	8.4	17	26	963	415	129	168	628	109	146	38	142
15	12	13	27	998	430	127	1010	644	89	133	25	128
16	14	13	25	1170	192	122	1110	588	88	144	40	120
17	13	13	24	1130	90	278	1040	772	104	125	52	108
18	13	13	38	1050	95	406	1020	948	181	116	37	93
19	14	13	39	1040	224	328	1060	972	193	99	34	80
20	11	11	19	1000	1070	259	1010	991	180	93	26	64
21	9.1	12	14	846	1000	209	889	963	246	127	19	36
22	23	11	203	692	1250	181	634	872	294	84	16	29
23	25	11	588	591	1350	162	385	752	298	60	17	29
24	19	13	305	621	1290	153	308	667	323	45	15	146
25	20	12	56	820	1230	137	346	644	914	33	18	209
26	20	9.3	22	676	1190	127	396	595	764	26	15	182
27	22	12	18	475	1110	123	742	512	561	27	15	83
28	18	38	15	359	923	117	676	441	364	30	21	35
29	20	53	18	315	---	164	783	464	210	30	21	23
30	17	28	60	777	---	228	945	316	158	23	53	21
31	19	---	109	765	---	159	---	260	---	18	280	---
TOTAL	505.5	554.3	3425	22189	22608	9959	13737	23247	7157	5163	1521	6958
MEAN	16.3	18.5	110	716	807	321	458	750	239	167	49.1	232

e Estimated.

07381440 BAYOU GROSSE TETE AT ROSEDALE, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.05	1.40	1.37	1.70	9.28	8.64	2.45	9.11	5.65	2.65	.55	4.52
2	1.16	1.52	1.45	1.64	9.13	8.98	2.34	8.93	5.23	2.56	.51	3.78
3	1.16	1.60	3.20	5.85	8.84	8.87	2.26	9.73	4.88	2.64	.54	2.12
4	1.30	1.59	5.71	7.86	8.48	8.40	2.18	9.65	4.66	2.62	.62	1.63
5	1.32	1.63	4.18	7.66	8.94	7.77	2.10	9.34	4.44	2.89	.68	2.88
6	1.22	1.64	2.31	6.98	9.30	7.03	2.05	8.81	4.34	3.86	.84	5.05
7	1.24	1.55	2.13	6.96	8.80	5.86	2.02	8.19	4.55	4.51	.99	6.34
8	1.31	1.52	2.16	6.61	8.40	5.00	2.05	8.79	4.30	5.61	1.12	7.01
9	1.28	1.71	1.86	5.42	7.83	4.57	2.03	10.32	3.97	6.32	1.16	6.41
10	1.10	1.70	1.69	6.32	7.12	4.34	2.02	11.20	3.82	6.12	1.18	5.13
11	.77	1.70	1.61	9.71	6.40	4.15	2.07	11.10	3.77	5.01	2.11	3.74
12	.57	1.58	1.68	9.92	5.86	3.96	2.12	10.70	3.72	4.03	2.10	2.66
13	.61	1.49	1.72	9.77	5.50	3.79	2.16	10.29	3.63	3.54	1.35	2.14
14	.75	1.30	1.72	9.51	5.22	3.62	2.47	9.93	3.53	3.25	.94	1.87
15	.97	1.23	1.82	9.28	4.88	3.44	7.10	9.95	3.39	3.01	.82	1.69
16	1.01	1.17	1.85	9.03	3.87	3.37	8.34	9.95	3.27	2.86	.97	1.57
17	.95	1.15	1.91	8.77	3.51	3.99	8.10	9.66	3.18	2.63	1.11	1.43
18	.97	1.20	1.88	8.48	3.36	4.48	8.07	9.72	3.36	2.38	1.03	1.27
19	1.03	1.30	1.60	8.55	3.96	4.10	8.65	9.61	3.40	2.16	.96	1.25
20	1.09	1.39	1.37	8.30	9.13	3.79	8.69	9.42	3.37	1.98	.81	1.06
21	1.52	1.39	1.35	7.81	10.35	3.57	8.14	9.39	3.64	1.95	.63	.73
22	1.74	1.49	2.02	7.13	10.69	3.43	7.39	9.23	3.62	1.77	.55	.65
23	1.58	1.54	5.00	6.38	10.48	3.23	6.53	9.00	3.59	1.54	.53	.84
24	1.54	1.56	4.03	6.15	10.17	3.08	5.73	9.07	3.53	1.36	.55	1.46
25	1.56	1.58	2.26	7.43	9.86	2.95	5.56	8.58	6.38	1.24	.64	2.00
26	1.47	1.54	1.73	6.82	9.54	2.85	6.03	8.14	6.79	1.07	.65	1.83
27	1.32	1.62	1.69	5.86	9.20	2.77	6.62	7.53	5.72	1.02	.84	1.14
28	1.37	1.72	1.55	5.44	8.82	2.68	6.77	6.97	4.32	.93	.99	.78
29	1.37	1.69	1.59	5.21	---	2.78	7.47	6.89	3.24	.82	.99	.66
30	1.36	1.47	1.70	7.74	---	2.99	9.35	6.21	2.85	.70	1.16	.67
31	1.36	---	1.78	9.19	---	2.67	---	5.86	---	.53	2.79	---
MAX	1.74	1.72	5.71	9.92	10.69	8.98	9.35	11.20	6.79	6.32	2.79	7.01
MIN	.57	1.15	1.35	1.64	3.36	2.67	2.02	5.86	2.85	.53	.51	.65

RED RIVER BASIN

310355091411500 OLD RIVER OUTFLOW CHANNEL (KNOX LANDING) SOUTH OF BLACK HAWK, LA

LOCATION.--Lat 31°03'55", long 91°41'15", Concordia Parish, Hydrologic Unit 08040301, at Corps of Engineers discharge range, 1.8 mi above mouth, 5.5 mi west of Old River Control Structure, and 5.6 mi west of Knox Landing.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE.--June 1973 to current year.

REMARKS.--Records for the 1991 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

COOPERATION.--Samples for suspended-sediment analysis are collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 02600.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 646,000 tons Apr. 6, 1978; minimum daily 0.0 tons Nov. 18-30, 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1989					
02...	1300	136000	225	82600	86
18...	1200	111000	164	49000	59
NOV					
17...	0945	87800	149	35400	94
DEC					
13...	1000	97300	103	26900	72
20...	1100	90600	94	23100	87
JAN 1990					
11...	1300	103000	326	90800	92
31...	1000	60300	150	24400	100
FEB					
08...	1230	101000	244	66600	100
23...	1200	253000	197	134000	68
MAR					
13...	1430	213000	137	78600	90
27...	1130	190000	242	124000	95
APR					
12...	1200	111000	134	40000	90
25...	1200	121000	146	47500	98
MAY					
09...	1200	141000	215	81700	94
25...	1130	177000	250	120000	84
JUN					
12...	1130	278000	127	95100	94
22...	1130	226000	238	145000	99
JUL					
12...	1130	144000	354	138000	95
25...	1200	125000	218	73600	84
AUG					
10...	1200	117000	236	74500	82
28...	1235	102000	145	40000	67
SEP					
12...	0930	107000	204	59000	65
24...	0945	93200	151	38100	77

310355091411500 OLD RIVER OUTFLOW CHANNEL (KNOX LANDING) SOUTH OF BLACK HAWK, LA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84000	50000	54000	34000	28000	133000	121000	60000	143000	109000	83000	67000
2	83000	55000	49000	36000	33000	137000	118000	62000	145000	111000	85000	68000
3	80000	58000	47000	22000	42000	138000	108000	65000	139000	87000	86000	68000
4	76000	54000	43000	16000	44000	135000	98000	66000	135000	92000	88000	67000
5	78000	52000	39000	26000	47000	132000	91000	68000	131000	96000	86000	62000
6	72000	46000	37000	33000	53000	130000	84000	70000	129000	102000	82000	60000
7	71000	41000	35000	35000	57000	129000	73000	72000	124000	128000	80000	58000
8	68000	37000	34000	35000	66000	127000	70000	74000	117000	141000	76000	57000
9	66000	38000	34000	43000	70000	121000	67000	82000	112000	141000	76000	57000
10	64000	37000	30000	61000	86000	107000	55000	87000	106000	138000	74000	55000
11	64000	37000	30000	91000	84000	103000	46000	94000	101000	134000	75000	54000
12	64000	37000	28000	113000	90000	97000	40000	102000	95000	137000	70000	52000
13	64000	37000	27000	125000	103000	79000	38000	103000	103000	131000	71000	51000
14	64000	37000	26000	130000	110000	71000	31000	107000	111000	132000	71000	49000
15	63000	37000	24000	131000	111000	70000	31000	129000	116000	126000	71000	50000
16	60000	35000	23000	137000	110000	70000	31000	131000	120000	119000	72000	49000
17	55000	35000	22000	134000	133000	67000	27000	132000	129000	109000	73000	48000
18	49000	37000	22000	123000	135000	70000	26000	129000	133000	104000	72000	46000
19	45000	37000	23000	105000	136000	72000	27000	116000	129000	99000	70000	45000
20	44000	38000	23000	66000	137000	72000	27000	115000	127000	93000	70000	42000
21	43000	38000	23000	62000	142000	73000	30000	116000	133000	90000	65000	42000
22	40000	38000	24000	50000	138000	78000	31000	112000	145000	85000	60000	39000
23	36000	38000	26000	37000	134000	84000	32000	112000	122000	80000	59000	39000
24	34000	40000	27000	36000	136000	97000	41000	113000	124000	75000	57000	38000
25	33000	45000	27000	39000	134000	102000	48000	119000	130000	73000	55000	35000
26	34000	47000	27000	29000	132000	107000	49000	137000	122000	75000	56000	38000
27	30000	48000	26000	25000	136000	124000	51000	131000	118000	83000	55000	39000
28	38000	54000	26000	24000	134000	128000	55000	126000	106000	84000	59000	38000
29	42000	54000	27000	23000	---	133000	57000	128000	108000	85000	57000	37000
30	46000	53000	31000	25000	---	134000	58000	135000	107000	88000	60000	37000
31	50000	---	32000	24000	---	125000	---	143000	---	87000	63000	---
TOTAL	1740000	1290000	946000	1870000	2761000	3245000	1661000	3236000	3660000	3234000	2177000	1487000
MEAN	56100	43000	30500	60300	98600	105000	55400	104000	122000	104000	70200	49600
MAX	84000	58000	54000	137000	142000	138000	121000	143000	145000	141000	88000	68000
MIN	30000	35000	22000	16000	28000	67000	26000	60000	95000	73000	55000	35000
MED	60000	38000	27000	37000	110000	107000	48500	112000	123000	99000	71000	49000

WTR YR 1991 TOTAL 27307000 MEAN 74800 MAX 145000 MIN 16000 MED 68000

MISSISSIPPI RIVER DELTA

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA

WATER-QUALITY RECORDS

LOCATION.--Lat 30°58'57", long 91°47'54" in NE 1/4 SW 1/4 sec. 7, T. 1 S., R.7 E., Louisiana meridian, Avoyelles Parish, Hydrologic Unit 08080101, near right bank on downstream side of Kansas City Southern Railway Company bridge, 0.4 mi east of town of Simmesport, 0.5 mi upstream from State Highway 1, and 4.9 mi downstream from confluence of Red River and Old River (head of Atchafalaya River).

DRAINAGE AREA.--Approximately 87,570 mi².

PERIOD OF RECORD.--Water years 1952-53, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1975, October 1978 to September 1979.

WATER TEMPERATURES: December 1975 to September 1976, October 1977 to September 1984, May 1990 to September 1991.

CHLORIDE: October 1974 to September 1984, May 1990 to September 1991.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to current year.

REMARKS.--Records for the 1991 water year are not available in time for inclusion in this report. They will be published in a subsequent report. Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey. Daily suspended-sediment discharge records are computed by the Geological Survey and reviewed by the Corps of Engineers. Corps of Engineers station 03045.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 627 micromhos Nov. 17, 1978; minimum daily, 179 micromhos Feb. 21, 1979.

WATER TEMPERATURES: Maximum daily, 32.0 °C July 23, 1981; minimum daily, 2.0 °C Jan. 18-20, Feb. 3, 6, 7, 1978, Jan. 15, 1979, Jan. 14, 1982.

CHLORIDE: Maximum daily, 150 mg/L June 9, 13, 14, 1977; minimum daily, 9.1 mg/L May 14, 1991.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,240,000 tons Dec. 15, 1982; minimum daily, 2,000 tons Oct. 3-5, 1976.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.0	15.5	---	---	4.0	9.0	13.0	18.0	---	29.5	29.5	---
2	24.0	16.0	---	7.0	---	---	14.0	18.5	---	29.0	30.0	---
3	24.0	---	12.0	6.5	---	---	14.0	18.5	24.5	29.0	---	28.0
4	24.5	---	11.0	6.5	4.0	8.0	15.0	---	25.5	---	---	28.0
5	24.0	15.0	11.0	---	5.0	9.5	15.0	---	25.0	28.5	29.5	28.0
6	---	14.5	9.0	---	5.0	10.0	---	18.0	25.0	---	30.0	27.5
7	---	14.0	---	6.5	6.0	10.0	---	18.0	25.0	---	30.0	---
8	---	12.0	---	6.0	6.0	10.0	15.0	19.0	---	28.5	30.0	---
9	26.0	---	---	5.5	---	---	15.0	19.0	---	29.0	30.0	28.0
10	25.0	---	8.0	5.0	---	---	15.0	18.5	25.0	28.5	---	28.0
11	26.0	---	8.0	5.0	7.0	11.0	15.0	---	25.0	29.0	---	28.5
12	---	---	8.0	---	7.0	11.0	15.0	---	24.5	29.0	29.5	28.5
13	---	12.0	8.0	---	7.0	11.0	---	20.5	25.0	---	29.5	27.5
14	---	11.0	---	4.0	7.0	11.0	---	20.5	24.0	---	29.0	---
15	25.0	11.0	---	4.0	7.0	11.0	15.5	20.5	---	30.0	28.5	---
16	25.0	---	---	5.0	---	---	17.0	20.5	---	30.0	28.0	28.5
17	23.0	---	8.0	5.0	---	---	17.0	---	25.5	30.0	---	29.0
18	23.0	---	8.0	4.0	---	11.0	17.0	---	25.5	30.0	---	28.5
19	23.0	12.0	8.0	---	8.0	12.0	17.5	---	25.0	29.0	29.0	28.0
20	---	12.0	8.0	---	8.0	12.0	---	21.5	25.0	---	29.0	26.5
21	---	12.0	---	---	8.0	12.0	---	22.5	27.5	---	29.0	---
22	18.0	---	---	4.0	8.0	12.0	17.0	21.5	---	29.5	29.0	---
23	18.0	---	---	4.0	---	---	16.5	22.0	---	29.5	28.0	26.5
24	17.5	---	---	4.0	---	---	---	22.0	28.0	30.0	---	26.0
25	17.5	---	---	4.0	9.0	13.0	17.0	---	27.5	29.5	---	25.0
26	---	12.0	---	---	9.0	12.5	17.5	---	28.0	29.5	28.0	24.0
27	---	12.0	---	---	9.0	13.0	---	---	28.0	---	28.0	23.5
28	---	12.0	6.5	4.0	9.0	13.0	---	23.5	28.0	---	28.0	---
29	15.5	11.0	---	5.0	---	13.0	17.0	24.0	---	29.5	28.0	---
30	16.0	---	---	5.0	---	---	17.5	24.0	---	29.5	27.5	23.0
31	16.0	---	7.0	6.0	---	---	---	23.5	---	29.5	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	20	---	---	13	16	17	12	---	41	30	---
2	38	27	---	11	---	---	19	11	---	40	30	---
3	36	---	32	11	---	---	14	11	15	39	---	37
4	36	---	32	11	14	12	15	---	15	---	---	41
5	36	35	27	---	14	12	14	---	13	28	30	44
6	---	26	28	---	13	11	---	9.9	13	---	33	42
7	---	26	---	11	14	11	---	9.8	12	---	37	---
8	---	32	---	11	14	12	15	10	---	30	38	---
9	28	---	---	12	---	---	15	9.8	---	29	44	36
10	26	---	22	11	---	---	16	11	12	29	---	33
11	29	---	24	11	16	11	16	---	15	29	---	34
12	---	---	23	---	16	11	16	---	16	29	48	36
13	---	32	23	---	15	12	---	9.4	19	---	43	38
14	---	36	---	10	16	12	---	9.1	34	---	38	---
15	29	36	---	10	16	12	17	---	---	31	32	---
16	28	---	---	10	---	---	19	9.8	---	30	35	37
17	32	---	18	10	---	---	16	---	22	28	---	40
18	30	---	18	10	---	13	16	---	30	25	---	40
19	30	28	19	---	16	13	17	---	25	23	40	38
20	---	28	19	---	16	13	---	12	26	---	38	40
21	---	27	17	---	16	14	---	12	29	---	34	---
22	25	---	---	11	16	17	13	12	---	27	36	---
23	24	---	---	12	---	---	13	13	---	24	39	53
24	22	---	17	12	---	---	12	13	34	25	---	56
25	20	---	---	12	15	16	11	---	38	26	---	62
26	---	28	16	---	16	15	13	---	38	26	37	66
27	---	26	16	---	16	15	---	---	35	---	34	72
28	---	31	19	13	16	15	---	12	38	---	39	---
29	22	28	---	13	---	16	12	11	---	27	35	---
30	22	---	---	15	---	---	11	13	---	27	36	66
31	25	---	15	14	---	---	---	13	---	26	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

MISSISSIPPI RIVER DELTA

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
17...	1115	132000	87	31200	97
31...	1115	136000	123	45300	99
NOV					
14...	1115	99000	110	29500	97
28...	1115	140000	129	48900	98
DEC					
12...	1115	108000	81	23600	100
27...	1115	76000	108	22100	91
JAN					
10...	1115	128000	242	83500	94
23...	1115	217000	641	76000	79
FEB					
09...	1115	304000	630	17000	88
23...	1115	423000	289	30000	73
MAR					
06...	1115	459000	132	64000	84
20...	1115	364000	494	86000	84
APR					
03...	1115	416000	469	26000	81
17...	1115	339000	537	92000	79
MAY					
01...	1115	322000	435	78000	74
15...	1315	402000	860	33000	78
18...	1115	407000	657	22000	84
22...	1115	401000	586	34000	79
25...	1115	412000	493	49000	90
JUN					
01...	1115	476000	425	46000	67
05...	1115	515000	370	14000	70
12...	1115	521000	292	10000	76
26...	1115	398000	448	81000	75
JUL					
10...	1115	271000	429	14000	81
24...	1115	203000	244	34000	80
AUG					
07...	1115	163000	203	89500	91
21...	1100	152000	175	71900	84
SEP					
05...	1100	153000	123	50700	89
18...	1200	137000	195	72100	50

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50000	47000	50000	36000	495000	226000	536000	378000	546000	408000	121000	58000
2	48000	44000	46000	42000	490000	218000	536000	398000	554000	402000	115000	60000
3	48000	47000	43000	34000	495000	206000	526000	415000	537000	357000	111000	59000
4	45000	45000	38000	27000	500000	191000	529000	435000	524000	330000	114000	61000
5	46000	44000	34000	37000	507000	177000	533000	450000	514000	330000	107000	51000
6	44000	38000	31000	48000	534000	163000	530000	464000	511000	305000	99000	55000
7	42000	35000	31000	56000	538000	183000	510000	483000	494000	334000	89000	54000
8	39000	30000	31000	59000	555000	203000	520000	500000	475000	342000	81000	55000
9	38000	30000	29000	68000	578000	215000	535000	537000	457000	333000	79000	57000
10	37000	28000	28000	84000	581000	223000	518000	582000	442000	314000	73000	59000
11	36000	29000	27000	108000	560000	250000	508000	623000	428000	280000	78000	56000
12	36000	29000	24000	144000	529000	285000	496000	678000	410000	261000	77000	56000
13	35000	29000	22000	166000	539000	292000	504000	732000	431000	232000	75000	59000
14	35000	29000	23000	183000	526000	301000	493000	803000	452000	225000	75000	57000
15	34000	29000	22000	190000	499000	323000	495000	932000	471000	213000	76000	71000
16	32000	27000	21000	220000	472000	349000	504000	866000	479000	201000	73000	72000
17	31000	24000	20000	237000	460000	371000	491000	811000	499000	178000	75000	72000
18	28000	26000	20000	241000	435000	409000	456000	721000	512000	171000	75000	72000
19	25000	26000	21000	315000	406000	454000	448000	680000	506000	159000	74000	74000
20	24000	28000	24000	302000	382000	485000	435000	673000	497000	150000	75000	67000
21	24000	29000	23000	389000	371000	480000	424000	659000	501000	149000	72000	67000
22	24000	28000	23000	400000	349000	473000	411000	634000	515000	148000	64000	64000
23	21000	28000	21000	375000	330000	477000	391000	598000	479000	147000	58000	59000
24	21000	30000	21000	373000	309000	489000	404000	570000	487000	134000	55000	58000
25	20000	35000	22000	466000	289000	484000	417000	548000	502000	145000	53000	54000
26	20000	40000	23000	494000	268000	482000	406000	567000	481000	138000	50000	56000
27	27000	42000	22000	493000	260000	502000	399000	553000	478000	144000	47000	58000
28	30000	49000	21000	485000	243000	512000	404000	535000	433000	142000	49000	60000
29	33000	50000	19000	474000	---	530000	396000	531000	425000	138000	48000	56000
30	38000	49000	25000	497000	---	542000	389000	541000	415000	134000	49000	58000
31	45000	---	30000	493000	---	534000	---	551000	---	126000	55000	---
TOTAL	1056000	1044000	835000	7536000	12500000	11029000	14144000	18448000	14455000	7070000	2342000	1815000
MEAN	34100	34800	26900	243000	446000	356000	471000	595000	482000	228000	75500	60500
MAX	50000	50000	50000	497000	581000	542000	536000	932000	554000	408000	121000	74000
MIN	20000	24000	19000	27000	243000	163000	389000	378000	410000	126000	47000	51000
MED	35000	30000	23000	220000	492000	349000	494000	567000	484000	201000	75000	58500
WTR YR 1990	TOTAL 92274000		MEAN 253000		MAX 932000		MIN 19000		MED 178000			

MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°41'26", long 91°44'10", in SW 1/4 NW 1/4 sec. 26, T. 4 S., R. 7 E., St. Helena Meridian, St. Landry-Pointe Coupee Parish line, Hydrologic Unit 08080101, at bridge on Texas and Pacific Railroad in Melville.

DRAINAGE AREA.--93.316 mi².

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1979 to September 1981.

WATER TEMPERATURES: May 1979 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 632 micromhos Oct. 8, 1981; minimum daily, 207 micromhos May 21, 1980.

WATER TEMPERATURES: Maximum daily, 32.0 °C July 23, 24, 1981; minimum daily, 5.5 °C Feb. 7, 1980, Jan. 22, 1981.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A temperature of 5.0 °C was observed on Jan. 30, 1985. A specific conductance of 177 microsiemens was observed on Feb. 1, 1990.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990												
18...	1000	122000	436	7.95	22.5	30	90	<1	7.5	1.5	29	160
NOV												
20...	1030	--	421	7.98	15.0	5	24	<1	10.2	2.1	18	520
JAN 1991												
14...	1200	478000	207	7.37	6.0	50	100	<1	10.6	1.7	26	700
FEB												
01...	1200	--	230	7.27	7.0	50	50	<1	10.2	1.5	26	K900
MAR												
04...	1350	353000	196	7.40	10.0	30	70	<1	9.1	0.9	24	500
21...	1030	--	215	7.48	12.0	40	55	<1	9.0	1.0	27	540
MAY												
02...	1115	431000	204	7.12	20.5	50	98	<1	6.4	1.2	34	260
JUN												
06...	1030	--	207	7.41	28.5	30	70	<1	4.9	1.0	--	250
28...	1100	231000	380	7.58	28.0	30	95	<1	4.9	1.3	37	K350
JUL												
17...	1030	--	403	8.05	30.5	10	33	<1	6.0	0.7	23	K100
AUG												
08...	1130	87600	489	7.91	30.5	20	14	<1	8.1	1.1	16	K40
SEP												
19...	1020	--	432	8.12	29.0	15	11	<1	7.1	1.2	22	K40

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SI02)
OCT 1990												
18...	44	92	140	38	11	32	3.2	104	54	42	<0.1	6.1
NOV												
20...	80	K8	160	41	14	24	3.4	125	50	24	--	--
JAN 1991												
14...	520	860	78	22	5.6	8.2	2.5	61	20	11	<0.1	5.6
FEB												
01...	K50	120	84	23	6.5	9.0	2.4	62	27	12	--	--
MAR												
04...	92	210	75	21	5.5	10	2.5	55	22	12	<0.1	6.2
21...	K30	K10	80	22	6.1	9.3	1.9	62	--	12	--	--
MAY												
02...	110	220	76	21	5.6	8.6	2.4	58	19	11	0.1	6.9
JUN												
06...	K64	52	80	22	6.1	9.0	2.3	62	15	11	--	--
28...	K40	K70	120	32	9.1	28	3.0	80	39	41	<0.1	7.0
JUL												
17...	K30	K10	150	39	13	20	3.4	124	28	26	--	--
AUG												
08...	K6	K24	190	49	16	31	3.4	142	57	40	0.3	3.4
SEP												
19...	K12	K36	140	33	13	31	3.4	111	42	36	--	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)
OCT 1990												
18...	240	253	192	0.09	0.03	0.70	0.70	0.10	0.01	0.6	0.6	0.15
NOV												
20...	--	231	51	0.01	--	0.99	--	--	--	--	0.28	0.13
JAN 1991												
14...	119	114	252	0.03	<0.01	0.77	0.74	0.09	0.06	0.7	0.2	0.12
FEB												
01...	--	117	91	0.03	--	0.89	--	--	--	--	0.83	0.17
MAR												
04...	121	115	82	0.04	0.02	0.71	0.70	0.06	0.04	0.8	0.5	0.08
21...	--	--	104	0.02	--	0.88	--	--	--	--	0.57	0.18
MAY												
02...	121	114	253	0.06	0.02	0.90	0.91	0.09	0.03	1.0	0.6	0.18
JUN												
06...	--	103	214	0.02	--	1.0	--	--	--	--	0.64	0.28
28...	212	210	211	0.02	0.01	1.2	1.2	0.03	0.05	0.6	--	0.08
JUL												
17...	--	204	69	0.01	--	2.0	--	--	--	--	0.89	0.17
AUG												
08...	302	290	29	0.01	<0.01	1.1	1.1	0.02	<0.01	0.7	0.5	0.13
SEP												
19...	--	225	25	0.01	--	0.52	--	--	--	--	0.32	0.09

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (MG/L AS AL)	ARSENIC TOTAL (MG/L AS AS)	ARSENIC DIS- SOLVED (MG/L AS AS)	BARIUM, DIS- SOLVED (MG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (MG/L AS BE)	BERYL- LIUM, DIS- SOLVED (MG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (MG/L AS CD)	CADMIUM DIS- SOLVED (MG/L AS CD)	CHRO- MIUM, DIS- SOLVED (MG/L AS CR)	CHRO- MIUM, TOTAL RECOV- ERABLE (MG/L AS CR)
OCT 1990												
18...	0.03	0.03	--	2	<1	83	<10	<0.5	<1	<1	<1	6
NOV												
20...	--	--	--	2	<1	--	<10	<10	<1	<1	--	3
JAN 1991												
14...	<0.01	0.02	--	2	1	--	<10	<0.5	<1	<1	--	9
FEB												
01...	--	--	--	<1	<1	--	<10	<10	<1	<1	--	1
MAR												
04...	0.03	0.03	70	1	<1	41	<10	<0.5	<1	1	<1	7
21...	--	--	--	<1	<1	--	<10	<10	<1	<1	--	6
MAY												
02...	0.05	0.04	50	3	<1	53	<10	<0.5	<1	<1	<1	9
JUN												
06...	--	--	--	4	2	--	<10	<10	<1	<1	--	9
28...	--	0.05	--	3	2	--	<10	<0.5	<1	1	--	--
JUL												
17...	--	--	--	3	2	--	<10	<10	<1	<1	--	3
AUG												
08...	0.05	0.05	<10	2	2	87	<10	<0.5	<1	<1	2	7
SEP												
19...	--	--	--	2	2	--	<10	<10	<1	<1	--	3
DATE	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (MG/L AS CR)	COBALT, DIS- SOLVED (MG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (MG/L AS CU)	COPPER, DIS- SOLVED (MG/L AS CU)	IRON, DIS- SOLVED (MG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (MG/L AS PB)	LEAD, DIS- SOLVED (MG/L AS PB)	LITHIUM DIS- SOLVED (MG/L AS LI)	MANGA- NESE, DIS- SOLVED (MG/L AS MN)	MERCURY DIS- SOLVED (MG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (MG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (MG/L AS MO)
OCT 1990												
18...	<1	<3	--	5	18	5	<1	8	1	<0.1	--	<10
NOV												
20...	<1	--	3	3	30	2	<1	--	--	<0.1	0.1	--
JAN 1991												
14...	<1	--	6	4	84	11	<1	--	--	<0.1	<0.1	--
FEB												
01...	<1	--	6	7	100	<1	<1	--	--	<0.1	<0.1	--
MAR												
04...	<1	<3	12	4	130	9	1	4	10	0.1	<0.1	<10
21...	<1	--	11	4	100	5	<1	--	--	<0.1	<0.1	--
MAY												
02...	<1	<3	8	5	120	8	2	6	13	<0.1	<0.1	<10
JUN												
06...	<1	--	13	4	180	8	1	--	--	<0.1	<0.1	--
28...	<1	--	7	--	56	<1	<1	--	--	<0.1	<0.1	--
JUL												
17...	<1	--	7	3	30	5	<1	--	--	<0.1	<0.1	--
AUG												
08...	<1	<3	--	6	19	--	<1	8	4	<0.1	<0.1	<10
SEP												
19...	<1	--	4	4	20	<1	<1	--	--	<0.1	<0.1	--

< Actual value is known to be less than the value shown.

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)
OCT 1990												
18...	9	2	<1	<1	<1	240	<6	20	<3	6.8	--	12
NOV												
20...	2	1	<1	<1	--	--	1	10	<10	6.3	<0.01	2
JAN 1991												
14...	12	3	<1	<1	--	--	2	40	7	6.9	<0.01	5
FEB												
01...	2	2	<1	<1	--	--	<1	10	<10	5.5	<0.01	3
MAR												
04...	7	2	<1	<1	<1	100	<6	20	8	7.2	<0.01	<1
21...	5	2	<1	<1	--	--	<1	20	<10	6.6	<0.01	1
MAY												
02...	11	9	<1	<1	<1	100	<6	40	4	8.5	<0.01	6
JUN												
06...	9	3	<1	<1	--	--	2	40	<10	--	--	--
28...	4	--	<1	<1	--	--	5	<10	5	8.3	<0.01	3
JUL												
17...	3	<1	<1	<1	--	--	2	20	<10	6.6	<0.01	1
AUG												
08...	5	--	<1	<1	<1	260	<6	10	4	5.5	<0.01	3
SEP												
19...	3	2	1	<1	--	--	2	10	10	5.1	<0.01	2

DATE	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)
OCT 1990												
18...	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV												
20...	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 1991												
14...	11	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB												
01...	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR												
04...	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21...	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY												
02...	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN												
06...	--	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
28...	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL												
17...	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG												
08...	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP												
19...	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381495 ATCHAFALAYA RIVER AT MELVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)
OCT 1990											
18...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV											
20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 1991											
14...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB											
01...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR											
04...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY											
02...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN											
06...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
28...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL											
17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG											
08...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP											
19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990											
18...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.4	0.1	222	733000	99
NOV											
20...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.3	<0.1	--	--	--
JAN 1991											
14...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	484	625000	55
FEB											
01...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	--	--	--
MAR											
04...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.9	<0.2	235	224000	63
21...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.0	<0.1	--	--	--
MAY											
02...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	395	459000	66
JUN											
06...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	--	--	--	--	--
28...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.7	0.3	323	202000	87
JUL											
17...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	5.9	0.2	--	--	--
AUG											
08...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	21	0.8	58	13700	91
SEP											
19...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	6.1	<0.1	--	--	--

< Actual value is known to be less than the value shown.

07381590 WAX LAKE OUTLET AT CALUMET, LA

LOCATION.--Lat 29°41'52", long 91°22'22", in sec.56, T.15 S., R.11 E., St. Mary Parish, Hydrologic Unit 08080101 at Southern Railways System Bridge, 160 ft downstream from State Highway 90, 0.4 mi downstream from Bayou Teche, 0.5 mi west of Calumet, and 9.8 mi west of Morgan City.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1973 to June 1975 (discharge measurements only), October 1976 to May 1986 (elevations and discharge measurements only), June 1986 to current year. Gage heights, May 1942 to September 1976 and discharge, 1942-46, 1949-55, and intermittently, 1957 to current year (collected in same vicinity) are in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929. Reverse flow at times during the year.

REMARKS.--No estimated daily discharges. Records poor. No velocity record: Mar. 13, May 28 to July 30. Relief outlet for Atchafalaya basin; discharge and elevations are affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.80 ft, June 6, 1983, minimum, -1.15 ft, Dec. 23, 1989.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since 1942, 11.02 ft, present datum, May 27, 1973, minimum, -2.82 ft, present datum, Oct. 18, 1948 (from records of Corps of Engineers, New Orleans District).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 159,000 ft³/s, Jan. 21; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30400	38300	31500	97300	144000	103000	97700	145000	---	---	24800	27500
2	30900	38200	30900	93900	138000	106000	95200	148000	---	---	29700	22400
3	22400	38700	42200	106000	132000	117000	95600	146000	---	---	35900	22300
4	18100	40000	42100	109000	129000	113000	97500	147000	---	---	29100	20500
5	27100	46500	35700	116000	123000	106000	99000	149000	---	---	33300	18800
6	39600	40300	38800	119000	126000	107000	100000	154000	---	---	29900	20700
7	40000	41700	41400	129000	126000	110000	98600	146000	---	---	29700	26300
8	27200	37400	39300	127000	119000	119000	99700	149000	---	---	28900	23300
9	31900	35700	40800	126000	109000	120000	101000	153000	---	---	28700	27600
10	44200	40700	42000	131000	103000	115000	108000	148000	---	---	28500	20500
11	27800	35100	40400	138000	98600	109000	109000	146000	---	---	30300	19900
12	27300	36600	42500	134000	90400	110000	108000	145000	---	---	31200	21300
13	32400	33200	47800	139000	89200	---	108000	147000	---	---	28300	19700
14	31400	32400	50300	139000	95900	126000	110000	145000	---	---	24000	20100
15	34200	31100	52600	139000	95800	123000	122000	144000	---	---	20900	18800
16	35200	30100	55500	146000	85500	124000	118000	140000	---	---	24800	18800
17	34100	30900	54400	146000	82900	130000	118000	141000	---	---	27600	24900
18	39600	28100	55100	151000	82200	125000	116000	141000	---	---	27700	42800
19	34600	31400	51000	151000	82500	119000	122000	141000	---	---	27900	45700
20	37600	30100	48100	151000	96100	115000	134000	141000	---	---	26800	42800
21	40400	30500	48900	159000	92100	107000	132000	142000	---	---	28700	46300
22	45400	31100	51800	154000	97900	103000	130000	147000	---	---	32100	43100
23	40700	33100	61300	156000	104000	102000	133000	141000	---	---	44700	39400
24	43300	31700	62100	157000	96500	99600	129000	141000	---	---	42300	39100
25	42900	32700	64400	150000	104000	95900	131000	142000	---	---	27700	48400
26	38200	32100	68500	153000	110000	93900	135000	142000	---	---	27600	48500
27	43400	30300	72700	151000	101000	92300	132000	153000	---	---	24500	53400
28	42100	37300	83000	151000	102000	92200	130000	---	---	---	22700	50200
29	39500	38100	92000	131000	---	93100	140000	---	---	---	22900	49800
30	39200	27500	98900	151000	---	99700	144000	---	---	---	22000	48100
31	38800	---	98300	157000	---	99500	---	---	---	28900	18200	---
TOTAL	1099900	1040900	1684300	4258200	2955600	---	3493300	---	---	---	881400	971000
MEAN	35480	34700	54330	137400	105600	---	116400	---	---	---	28430	32370

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.16	2.38	2.13	2.96	5.66	4.37	3.42	5.56	5.06	2.99	1.59	2.05
2	2.23	2.44	2.29	3.15	5.52	4.48	3.56	5.55	4.91	2.90	1.82	2.16
3	2.67	2.58	2.76	3.20	5.35	4.33	3.79	5.60	4.76	2.79	1.78	2.24
4	2.31	2.82	1.27	3.26	5.20	4.14	3.82	5.67	4.62	2.75	1.79	2.31
5	1.81	2.26	1.83	3.72	5.28	4.32	3.81	5.73	4.44	2.78	1.78	2.50
6	2.13	2.29	1.90	3.93	5.04	4.40	3.87	5.54	4.38	3.34	1.75	2.40
7	2.23	2.18	1.56	3.92	4.72	4.42	4.05	5.46	4.56	2.98	1.89	2.28
8	2.17	2.09	1.37	3.97	4.40	4.45	4.15	5.89	4.71	2.84	1.95	2.08
9	2.28	3.02	1.39	4.24	4.06	4.41	4.08	6.18	4.79	2.74	2.01	2.08
10	.62	1.17	1.35	4.68	3.84	4.41	4.04	6.05	4.94	2.61	1.71	2.24
11	1.32	1.63	1.56	4.95	3.66	4.53	4.18	5.85	5.00	2.50	1.43	2.20
12	1.45	1.57	2.08	4.79	3.58	4.51	4.39	5.73	4.92	2.40	1.28	2.25
13	1.46	1.60	1.82	4.85	3.69	4.55	4.56	5.70	4.77	2.20	1.20	2.18
14	1.93	1.87	1.89	5.04	3.53	4.34	4.75	5.72	4.65	2.04	1.44	2.16
15	1.93	1.97	1.91	5.34	3.10	4.33	4.80	5.89	4.51	2.00	1.74	2.17
16	1.98	2.00	2.01	5.24	3.19	4.50	4.82	5.85	4.33	1.71	1.59	2.08
17	2.13	1.86	2.17	5.23	3.54	4.68	4.73	5.74	4.12	1.68	1.78	1.87
18	1.68	2.14	2.27	5.38	3.49	4.43	4.93	5.68	3.92	1.85	1.71	1.99
19	1.75	2.18	2.09	5.46	3.73	4.29	4.90	5.69	3.75	1.92	1.39	1.59
20	2.34	2.13	2.22	5.46	3.46	4.32	4.75	5.59	3.67	1.94	1.42	1.19
21	2.34	2.32	2.33	5.40	3.59	4.24	4.72	5.42	3.64	2.08	1.48	1.76
22	1.98	2.38	2.36	5.46	3.81	4.31	4.94	5.37	3.57	2.15	1.46	2.02
23	1.99	2.10	1.79	5.64	3.60	4.02	4.92	5.53	3.50	2.08	1.63	2.09
24	1.82	2.21	1.29	5.75	3.75	3.73	4.84	5.64	3.35	1.97	1.56	2.12
25	1.16	2.16	1.85	5.83	3.86	3.68	5.08	5.50	3.23	1.86	1.61	1.39
26	1.62	2.26	2.08	5.90	3.74	3.72	5.28	5.41	3.17	1.79	1.62	1.49
27	1.74	2.64	2.36	6.00	3.93	3.96	5.57	5.32	3.29	1.73	1.75	1.31
28	1.75	2.06	2.57	6.11	4.11	3.88	5.74	5.24	3.33	1.58	1.78	1.53
29	2.01	1.19	2.81	6.19	---	4.22	5.71	5.16	3.24	1.50	1.72	1.71
30	1.92	1.64	2.87	6.21	---	3.54	5.55	5.19	3.11	1.40	1.70	1.89
31	2.00	---	2.74	5.87	---	3.39	---	5.23	---	1.46	1.98	---
MAX	2.67	3.02	2.87	6.21	5.66	4.68	5.74	6.18	5.06	3.34	2.01	2.50
MIN	.62	1.17	1.27	2.96	3.10	3.39	3.42	5.16	3.11	1.40	1.20	1.19

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1959-60, 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to September 1984, May 1990 to September 1990.

CHLORIDE-SURFACE: October 1974 to September 1984, May 1990 to September 1990.

CHLORIDE-25 FT DEPTH: December 1980 to September 1984, May 1990 to September 1990.

CHLORIDE-45 FT DEPTH: December 1980 to September 1984, May 1990 to September 1990.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 33.0 °C July 20, 1978; minimum daily, 2.0 °C Jan. 4, 5, 1984.

CHLORIDE-SURFACE: Maximum daily, 150 mg/L June 13, 14, 1977; minimum daily, 9.1 mg/L Apr. 15, 1976.

CHLORIDE-25 FT DEPTH: Maximum daily, 110 mg/L Nov. 5, 7, 8, 10, 11, 1981; minimum daily, 12 mg/L May 27, 1984.

CHLORIDE-45 FT DEPTH: Maximum daily, 110 mg/L Mar. 8, Nov. 5, 7, 8, 10, 11, 1981; minimum daily, 12 mg/L May 27, 28, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)
OCT 1990											
15...	1200	23600	461	7.89	31.5	5	10	<1	7.7	0.9	16
NOV											
26...	1230	33800	413	7.86	18.0	5	18	<1	9.4	1.3	19
DEC											
26...	1315	58200	329	7.80	12.5	40	110	<1	9.8	1.8	22
JAN 1991											
22...	1230	160000	216	7.65	6.0	80	95	<1	10.5	2.1	25
FEB											
13...	1200	97300	229	7.47	9.0	40	55	<1	10.0	1.9	25
MAR											
19...	1200	118000	226	7.45	14.0	50	50	<1	9.2	1.4	24
APR											
16...	1545	132000	268	7.40	17.5	40	60	<1	7.6	1.3	26
MAY											
21...	1630	139000	188	7.24	24.5	40	85	<1	5.0	1.3	28
JUN											
13...	0945	120000	218	7.46	27.5	30	55	<1	4.8	1.4	21
JUL											
31...	1215	29100	412	8.05	31.0	20	28	<1	6.0	1.0	11
AUG											
21...	1130	25000	490	8.18	30.5	15	11	<1	7.0	1.1	34
SEP											
17...	1130	25100	448	8.10	30.5	20	11	<1	6.9	0.9	19

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS S04)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 1990											
15...	K80	K40	160	41	14	26	3.5	130	56	27	17
NOV 26...	K150	K24	150	39	13	23	3.3	120	50	24	37
DEC 26...	380	--	110	29	8.7	17	3.4	84	30	24	223
JAN 1991											
22...	1300	K50	83	23	6.1	7.6	2.6	59	22	10	268
FEB 13...	700	80	84	23	6.4	11	2.5	62	29	14	120
MAR 19...	K220	K28	80	22	6.1	9.1	2.1	63	21	11	102
APR 16...	--	--	95	26	7.3	11	2.5	75	23	16	133
MAY 21...	240	K22	66	19	4.6	9.1	2.5	51	--	13	234
JUN 13...	250	42	83	23	6.2	9.2	2.4	65	--	12	149
JUL 31...	110	K20	170	43	14	22	3.7	121	--	27	61
AUG 21...	K180	K20	170	43	15	34	3.3	128	57	40	14
SEP 17...	K70	<2	150	37	14	30	3.2	122	46	34	11

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS-SOLVED (µG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (µG/L AS BE)	BERYL-LIUM, DIS-SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (µG/L AS CD)	CADMIUM DIS-SOLVED (µG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (µG/L AS CR)
OCT 1990											
15...	0.01	0.76	0.29	<0.10	1	1	<10	<10	<1	<1	11
NOV 26...	0.02	0.97	0.37	0.10	1	<1	<10	<10	<1	<1	2
DEC 26...	0.05	1.1	0.45	0.29	4	<1	<10	<10	<1	<1	10
JAN 1991											
22...	0.04	0.85	0.51	0.26	3	<1	<10	<10	<1	<1	7
FEB 13...	E0.03	E0.65	E0.65	0.17	2	<1	<10	<10	<1	<1	6
MAR 19...	0.03	0.79	0.65	0.16	2	<1	<10	<10	<1	<1	4
APR 16...	0.05	1.4	0.50	0.13	2	<1	<10	<10	<1	<1	5
MAY 21...	0.03	0.59	0.55	0.03	5	1	<10	<10	2	<1	14
JUN 13...	0.02	0.92	0.61	0.21	4	2	<10	<10	<1	<1	4
JUL 31...	<0.01	1.5	0.85	0.13	3	2	<10	<10	<1	<1	7
AUG 21...	0.01	0.72	0.41	0.08	2	1	<10	<10	<1	<1	2
SEP 17...	0.01	0.49	0.58	0.08	2	2	<10	<10	<1	<1	2

< Actual value is known to be less than the value shown.

E Estimated.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	CHROMIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOVERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOVERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOVERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOVERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELENIUM, TOTAL (µG/L AS SE)
OCT 1990											
15...	<1	4	3	<25	2	<1	0.1	<0.1	8	4	<1
NOV											
26...	<1	4	2	<25	2	<1	<0.1	<0.1	2	1	<1
DEC											
26...	<1	10	4	80	11	<1	<0.1	<0.1	9	2	<1
JAN 1991											
22...	<1	11	4	40	10	<1	<0.1	<0.1	8	1	<1
FEB											
13...	<1	6	4	90	4	<1	<0.1	<0.1	5	3	<1
MAR											
19...	<1	4	3	50	3	<1	<0.1	<0.1	4	<1	<1
APR											
16...	<1	15	6	80	5	<1	<0.1	<0.1	5	2	<1
MAY											
21...	<1	11	8	300	9	<1	<0.1	<0.1	12	--	<1
JUN											
13...	<1	6	4	40	4	<1	<0.1	<0.1	6	4	<1
JUL											
31...	<1	15	6	30	7	<1	<0.1	--	4	--	<1
AUG											
21...	<1	10	5	<10	4	<1	<0.1	<0.1	2	2	<1
SEP											
17...	<1	7	5	<10	3	<1	<0.1	<0.1	3	4	1

DATE	SELENIUM, DIS- SOLVED (µG/L AS SE)	VANADIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOVERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOVERABLE GRAVIMETRIC (MG/L)	PCB, TOTAL (µG/L)	NAPHTHA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)
OCT 1990											
15...	<1	2	<10	<10	4.2	<0.01	<1	<1	<0.1	<0.1	<0.01
NOV											
26...	<1	1	20	<10	4.7	<0.01	4	2	<0.1	<0.1	<0.01
DEC											
26...	<1	1	50	10	7.4	<0.01	3	2	<0.1	<0.1	<0.01
JAN 1991											
22...	<1	1	30	<10	6.6	<0.01	6	2	<0.1	<0.1	<0.01
FEB											
13...	<1	<1	20	10	6.8	<0.01	6	<1	<0.1	<0.1	<0.01
MAR											
19...	<1	<1	20	<10	6.6	<0.01	1	<1	<0.1	<0.1	<0.01
APR											
16...	<1	<1	30	10	5.9	<0.01	21	<1	<0.1	<0.1	<0.01
MAY											
21...	<1	<1	30	<10	8.5	<0.01	19	<1	<0.1	<0.1	<0.01
JUN											
13...	<1	<1	20	<10	7.3	<0.01	6	<1	<0.1	<0.1	<0.01
JUL											
31...	<1	3	50	20	5.2	<0.01	<1	<1	<0.1	<0.1	<0.01
AUG											
21...	<1	2	30	<10	4.0	<0.01	1	<1	<0.1	<0.1	<0.01
SEP											
17...	<1	2	20	10	4.7	<0.01	1	1	<0.1	<0.1	<0.01

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)
OCT 1990										
15...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV										
26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC										
26...	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 1991										
22...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB										
13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR										
19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR										
16...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY										
21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN										
13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL										
31...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG										
21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP										
17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)
OCT 1990										
15...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
NOV										
26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
DEC										
26...	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.5
JAN 1991										
22...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
FEB										
13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
MAR										
19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
APR										
16...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
MAY										
21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
JUN										
13...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
JUL										
31...	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.5
AUG										
21...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5
SEP										
17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.5

< Actual value is known to be less than the value shown.

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990										
15...	<0.01	<0.1	<0.1	<0.1	<0.1	1.5	0.1	57	3660	99
NOV										
26...	<0.01	<0.1	<0.1	<0.1	<0.1	2.1	0.1	--	--	--
DEC										
26...	<0.01	<0.1	<0.1	<0.1	<0.1	1.8	0.1	--	--	--
JAN 1991										
22...	<0.01	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	355	154000	62
FEB										
13...	<0.01	<0.1	<0.1	<0.1	<0.1	1.0	<0.1	186	48700	88
MAR										
19...	<0.01	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	163	51900	79
APR										
16...	<0.01	<0.1	<0.1	<0.1	<0.1	1.3	<0.1	238	84700	44
MAY										
21...	<0.01	<0.1	<0.1	<0.1	<0.1	1.0	<0.2	312	117000	81
JUN										
13...	<0.01	<0.1	<0.1	<0.1	<0.1	2.6	<0.2	195	63000	87
JUL										
31...	<0.01	<0.1	1.0	0.4	<0.1	1.2	<0.2	--	--	--
AUG										
21...	<0.01	<0.1	<0.1	<0.1	<0.1	4.8	<0.1	--	--	--
SEP										
17...	<0.01	<0.1	<0.1	<0.1	<0.1	4.4	<0.1	52	3510	99

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	12.0	6.0	5.0	7.0	14.0	19.0	24.0	27.0	29.0	27.0
2	---	---	13.0	6.0	5.0	9.0	14.0	19.0	---	27.0	29.0	---
3	---	---	13.0	5.0	6.0	8.0	14.0	19.0	25.0	27.0	29.0	26.0
4	---	---	11.0	5.0	6.0	9.0	15.0	20.0	25.0	28.0	27.0	26.0
5	---	---	12.0	5.0	6.0	10.0	15.0	20.0	25.0	28.0	27.0	26.0
6	---	---	12.0	6.0	6.0	---	14.0	---	25.0	25.0	28.0	26.0
7	---	---	10.0	5.0	7.0	10.0	15.0	20.0	25.0	---	27.0	26.0
8	---	---	10.0	5.0	7.0	10.0	15.0	19.0	25.0	25.0	27.0	26.0
9	---	---	10.0	5.0	7.0	10.0	16.0	18.0	25.0	26.0	28.0	---
10	---	---	10.0	5.0	8.0	11.0	16.0	19.0	25.0	27.0	27.0	26.0
11	---	---	10.0	5.0	8.0	11.0	15.0	20.0	25.0	27.0	27.0	26.0
12	---	---	11.0	5.0	9.0	11.0	15.0	20.0	25.0	28.0	27.0	26.0
13	---	---	11.0	5.0	9.0	11.0	15.0	21.0	25.0	28.0	28.0	27.0
14	---	---	11.0	5.0	9.0	11.0	16.0	22.0	25.0	28.0	27.0	27.0
15	---	---	10.0	5.0	8.0	10.0	16.0	21.0	25.0	28.0	27.0	27.0
16	---	---	10.0	5.0	7.0	10.0	16.0	22.0	25.0	29.0	27.0	28.0
17	---	---	11.0	5.0	8.0	10.0	17.0	22.0	25.0	29.0	27.0	28.0
18	---	---	10.0	5.0	8.0	11.0	17.0	22.0	25.0	28.0	27.0	27.0
19	---	---	11.0	5.0	8.0	11.0	18.0	22.0	25.0	27.0	27.0	27.0
20	---	---	11.0	5.0	8.0	12.0	18.0	22.0	25.0	27.0	27.0	25.0
21	---	---	12.0	4.0	8.0	12.0	18.0	23.0	25.0	28.0	27.0	---
22	---	---	13.0	4.0	8.0	13.0	19.0	23.0	---	28.0	27.0	27.0
23	---	---	10.0	5.0	8.0	13.0	18.0	22.0	27.0	29.0	27.0	27.0
24	---	---	8.0	5.0	8.0	13.0	19.0	22.0	26.0	28.0	29.0	27.0
25	---	---	7.0	5.0	8.0	14.0	19.0	22.0	25.0	28.0	28.0	25.0
26	---	---	8.0	5.0	8.0	14.0	18.0	22.0	26.0	28.0	28.0	25.0
27	---	---	9.0	5.0	7.0	14.0	19.0	23.0	27.0	29.0	27.0	24.0
28	---	---	9.0	5.0	8.0	14.0	18.0	23.0	25.0	28.0	27.0	24.0
29	---	13.0	9.0	5.0	---	15.0	18.0	23.0	27.0	28.0	27.0	25.0
30	---	12.0	9.0	5.0	---	15.0	18.0	24.0	28.0	28.0	27.0	24.0
31	---	---	6.0	5.0	---	13.0	---	24.0	---	28.0	27.0	---
MAX	---	---	13.0	6.0	9.0	15.0	19.0	24.0	28.0	29.0	29.0	28.0
MIN	---	---	6.0	4.0	5.0	7.0	14.0	18.0	24.0	25.0	27.0	24.0

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	46	15	14	15	16	12	12	42	25	38
2	---	---	31	16	12	15	15	13	---	40	28	---
3	---	---	26	14	13	14	18	12	12	42	27	35
4	---	---	30	15	30	14	17	12	19	41	26	34
5	---	---	28	14	29	13	16	12	12	40	29	34
6	---	---	31	13	13	12	15	14	14	36	28	33
7	---	---	31	13	14	12	14	11	12	30	29	35
8	---	---	32	15	15	14	14	9.3	12	23	31	34
9	---	---	31	16	15	12	15	11	11	29	31	---
10	---	---	29	18	14	18	16	11	11	32	33	37
11	---	---	29	18	14	12	16	10	11	34	36	38
12	---	---	33	32	13	13	16	11	12	32	38	38
13	---	---	28	22	14	14	16	12	13	30	44	38
14	---	---	28	18	15	14	15	11	16	34	47	38
15	---	---	27	23	16	13	16	9.7	19	31	49	36
16	---	---	26	22	17	14	18	9.8	26	30	48	34
17	---	---	24	14	16	12	24	9.9	32	28	48	36
18	---	---	22	26	16	12	20	24	34	28	44	36
19	---	---	26	12	16	12	17	18	32	29	37	34
20	---	---	23	12	16	12	18	14	28	27	39	34
21	---	---	23	13	16	12	17	14	28	25	45	---
22	---	---	22	13	16	13	18	12	---	30	42	36
23	---	---	25	13	14	13	14	12	27	24	40	38
24	---	---	24	12	15	12	20	12	30	27	42	39
25	---	---	28	13	15	14	14	13	33	26	39	37
26	---	---	26	13	14	13	13	14	34	26	38	38
27	---	---	24	13	15	14	14	12	34	26	38	37
28	---	---	23	13	15	15	13	12	37	26	38	41
29	---	26	19	14	---	15	13	11	37	25	38	54
30	---	42	18	14	---	20	12	13	40	25	37	59
31	---	---	16	---	---	16	---	11	---	26	37	---
MAX	---	---	46	32	30	20	24	24	40	42	49	59
MIN	---	---	16	12	12	12	12	9.3	11	23	25	33

MISSISSIPPI RIVER DELTA

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07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 25.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	12.0	6.0	5.0	7.0	14.0	19.0	24.0	27.0	29.0	27.0
2	---	---	13.0	6.0	5.0	9.0	14.0	19.0	24.0	27.0	29.0	---
3	---	---	13.0	5.0	6.0	8.0	14.0	19.0	25.0	27.0	29.0	26.0
4	---	---	11.0	5.0	6.0	9.0	15.0	20.0	25.0	28.0	27.0	26.0
5	---	---	12.0	5.0	6.0	10.0	15.0	20.0	25.0	28.0	27.0	26.0
6	---	---	12.0	6.0	6.0	---	14.0	---	25.0	25.0	28.0	26.0
7	---	---	10.0	5.0	7.0	10.0	15.0	20.0	25.0	---	27.0	26.0
8	---	---	10.0	5.0	7.0	10.0	15.0	19.0	25.0	25.0	27.0	26.0
9	---	---	10.0	5.0	7.0	10.0	16.0	18.0	25.0	26.0	28.0	---
10	---	---	10.0	5.0	8.0	11.0	16.0	19.0	25.0	27.0	27.0	26.0
11	---	---	10.0	5.0	8.0	11.0	15.0	20.0	25.0	27.0	27.0	26.0
12	---	---	11.0	5.0	9.0	11.0	15.0	20.0	25.0	28.0	27.0	26.0
13	---	---	11.0	5.0	9.0	11.0	15.0	21.0	25.0	28.0	28.0	27.0
14	---	---	11.0	5.0	9.0	11.0	16.0	22.0	25.0	28.0	27.0	27.0
15	---	---	10.0	5.0	8.0	10.0	16.0	21.0	25.0	28.0	27.0	27.0
16	---	---	10.0	5.0	7.0	10.0	16.0	22.0	25.0	29.0	27.0	28.0
17	---	---	11.0	5.0	8.0	10.0	17.0	22.0	25.0	29.0	27.0	28.0
18	---	---	10.0	5.0	8.0	11.0	17.0	22.0	25.0	28.0	27.0	27.0
19	---	---	11.0	5.0	8.0	11.0	18.0	22.0	25.0	27.0	27.0	27.0
20	---	---	11.0	5.0	8.0	12.0	18.0	22.0	25.0	27.0	27.0	25.0
21	---	---	12.0	4.0	8.0	12.0	18.0	23.0	25.0	28.0	27.0	25.0
22	---	---	13.0	4.0	8.0	13.0	19.0	23.0	26.0	28.0	27.0	27.0
23	---	---	10.0	5.0	8.0	13.0	18.0	22.0	27.0	29.0	27.0	27.0
24	---	---	8.0	5.0	8.0	13.0	19.0	22.0	26.0	28.0	29.0	27.0
25	---	---	7.0	5.0	8.0	14.0	19.0	22.0	25.0	28.0	28.0	25.0
26	---	---	8.0	5.0	8.0	14.0	18.0	22.0	26.0	28.0	28.0	25.0
27	---	---	9.0	5.0	7.0	14.0	19.0	23.0	27.0	29.0	27.0	24.0
28	---	---	9.0	5.0	8.0	14.0	18.0	23.0	25.0	28.0	27.0	24.0
29	---	13.0	9.0	5.0	---	15.0	18.0	23.0	27.0	28.0	27.0	25.0
30	---	12.0	9.0	5.0	---	15.0	18.0	---	28.0	28.0	27.0	24.0
31	---	---	6.0	5.0	---	13.0	---	24.0	---	28.0	27.0	---
MAX	---	---	13.0	6.0	9.0	15.0	19.0	24.0	28.0	29.0	29.0	28.0
MIN	---	---	6.0	4.0	5.0	7.0	14.0	18.0	24.0	25.0	27.0	24.0

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 25.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	43	16	13	14	16	12	14	42	25	36
2	---	---	43	15	13	14	15	12	12	41	26	---
3	---	---	50	14	14	14	18	14	11	40	26	38
4	---	---	48	13	14	14	17	12	12	41	26	34
5	---	---	29	14	27	13	15	13	12	40	27	34
6	---	---	31	13	16	13	14	11	13	36	31	34
7	---	---	34	13	14	14	13	10	12	28	30	34
8	---	---	32	16	16	12	15	9.8	12	27	30	34
9	---	---	31	20	14	12	16	10	11	30	31	---
10	---	---	29	22	13	12	15	9.8	11	32	34	38
11	---	---	30	21	15	12	16	11	10	32	38	40
12	---	---	32	26	15	14	16	10	12	32	38	38
13	---	---	30	16	17	13	16	9.8	14	32	42	38
14	---	---	27	20	16	12	16	11	15	31	47	38
15	---	---	28	12	16	11	18	12	19	32	47	36
16	---	---	24	13	16	12	19	11	25	30	54	34
17	---	---	25	17	17	12	25	9.5	33	30	47	36
18	---	---	22	13	16	12	18	13	35	32	43	31
19	---	---	22	12	16	12	17	24	33	29	36	35
20	---	---	22	12	16	12	16	17	28	28	39	34
21	---	---	23	12	16	13	19	18	25	26	45	33
22	---	---	20	12	17	12	14	13	25	25	43	36
23	---	---	26	12	15	12	24	13	26	25	42	38
24	---	---	28	14	13	12	14	12	31	27	42	38
25	---	---	27	12	14	14	14	14	33	27	40	36
26	---	---	26	13	14	14	14	13	35	25	38	35
27	---	---	23	13	15	14	14	14	36	26	37	37
28	---	---	22	13	16	14	13	12	36	24	41	42
29	---	27	19	17	---	15	13	12	36	24	38	53
30	---	44	18	13	---	15	14	---	39	25	40	58
31	---	---	17	---	---	16	---	15	---	28	36	---
MAX	---	---	50	26	27	16	25	24	39	42	54	58
MIN	---	---	17	12	13	11	13	9.5	10	24	25	31

MISSISSIPPI RIVER DELTA

07381590 WAX LAKE OUTLET AT CALUMET, LA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 45.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	12.0	6.0	5.0	7.0	14.0	19.0	24.0	27.0	29.0	27.0
2	---	---	13.0	6.0	5.0	9.0	14.0	19.0	---	27.0	29.0	---
3	---	---	13.0	5.0	6.0	8.0	14.0	19.0	25.0	27.0	29.0	26.0
4	---	---	11.0	5.0	6.0	9.0	15.0	20.0	25.0	28.0	27.0	26.0
5	---	---	12.0	5.0	---	10.0	15.0	20.0	25.0	28.0	27.0	26.0
6	---	---	12.0	6.0	6.0	10.0	14.0	---	25.0	25.0	28.0	26.0
7	---	---	10.0	5.0	7.0	10.0	15.0	20.0	25.0	25.0	27.0	26.0
8	---	---	10.0	5.0	7.0	10.0	15.0	19.0	25.0	25.0	27.0	26.0
9	---	---	10.0	5.0	7.0	10.0	16.0	18.0	25.0	26.0	28.0	---
10	---	---	10.0	5.0	8.0	11.0	16.0	19.0	25.0	27.0	27.0	26.0
11	---	---	10.0	5.0	8.0	11.0	15.0	20.0	25.0	27.0	27.0	26.0
12	---	---	11.0	5.0	9.0	11.0	15.0	20.0	25.0	28.0	27.0	26.0
13	---	---	11.0	5.0	9.0	11.0	15.0	21.0	25.0	28.0	28.0	27.0
14	---	---	11.0	5.0	9.0	11.0	16.0	22.0	25.0	28.0	27.0	27.0
15	---	---	10.0	5.0	8.0	10.0	16.0	21.0	25.0	28.0	27.0	27.0
16	---	---	10.0	5.0	7.0	10.0	16.0	---	25.0	29.0	27.0	28.0
17	---	---	11.0	5.0	8.0	10.0	17.0	22.0	25.0	---	27.0	28.0
18	---	---	10.0	5.0	8.0	11.0	17.0	22.0	25.0	28.0	27.0	27.0
19	---	---	11.0	5.0	8.0	11.0	18.0	22.0	25.0	27.0	27.0	27.0
20	---	---	11.0	5.0	8.0	12.0	18.0	22.0	25.0	27.0	27.0	25.0
21	---	---	12.0	4.0	8.0	12.0	18.0	23.0	25.0	28.0	27.0	25.0
22	---	---	13.0	4.0	8.0	13.0	19.0	23.0	26.0	28.0	27.0	27.0
23	---	---	10.0	5.0	8.0	13.0	18.0	22.0	27.0	29.0	27.0	27.0
24	---	---	8.0	5.0	8.0	13.0	19.0	---	26.0	28.0	29.0	27.0
25	---	---	7.0	5.0	8.0	14.0	19.0	22.0	25.0	28.0	28.0	25.0
26	---	---	8.0	5.0	8.0	14.0	18.0	22.0	26.0	28.0	28.0	25.0
27	---	---	9.0	5.0	7.0	---	19.0	23.0	27.0	29.0	27.0	24.0
28	---	---	9.0	5.0	8.0	14.0	18.0	23.0	25.0	28.0	27.0	24.0
29	---	13.0	9.0	5.0	---	15.0	18.0	23.0	27.0	28.0	27.0	25.0
30	---	12.0	9.0	5.0	---	15.0	18.0	24.0	28.0	28.0	27.0	24.0
31	---	---	6.0	---	---	13.0	---	24.0	---	28.0	27.0	---
MAX	---	---	13.0	6.0	9.0	15.0	19.0	24.0	28.0	29.0	29.0	28.0
MIN	---	---	6.0	4.0	5.0	7.0	14.0	18.0	24.0	25.0	27.0	24.0

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 45.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	27	15	13	15	16	12	12	42	28	32
2	---	---	41	14	14	14	15	12	---	42	27	---
3	---	---	28	14	13	15	18	12	12	41	28	35
4	---	---	27	13	13	14	16	12	12	40	27	33
5	---	---	30	14	29	12	16	12	12	40	28	33
6	---	---	30	31	14	12	16	11	12	37	30	34
7	---	---	33	14	14	13	15	9.8	12	29	31	34
8	---	---	34	26	14	12	15	10	12	27	30	33
9	---	---	32	28	15	13	16	11	13	31	32	---
10	---	---	30	16	14	11	14	9.2	13	32	34	41
11	---	---	31	19	13	12	16	10	10	28	38	38
12	---	---	32	34	14	11	16	11	14	34	40	38
13	---	---	30	22	15	12	16	10	16	32	44	37
14	---	---	27	13	15	12	16	11	14	31	47	38
15	---	---	28	12	16	12	18	10	19	32	46	36
16	---	---	26	13	17	12	21	9.6	25	30	47	35
17	---	---	23	19	16	13	23	11	33	29	47	36
18	---	---	23	27	16	12	19	16	34	29	44	36
19	---	---	21	11	16	12	18	30	32	28	36	35
20	---	---	21	13	16	12	17	13	28	28	40	34
21	---	---	21	12	15	13	16	18	25	26	44	34
22	---	---	22	13	15	12	16	13	26	25	43	36
23	---	---	26	12	15	12	15	11	26	25	40	38
24	---	---	22	12	14	12	15	12	32	26	42	39
25	---	---	26	12	14	12	13	13	32	26	40	36
26	---	---	26	13	14	14	14	13	36	25	37	36
27	---	---	23	13	15	14	14	13	37	26	36	36
28	---	---	22	14	16	15	13	12	36	27	36	42
29	---	46	20	12	---	15	12	11	36	25	38	53
30	---	28	18	---	---	15	12	12	39	26	39	61
31	---	---	16	---	---	16	---	11	---	27	35	---
MAX	---	---	41	34	29	16	23	30	39	42	47	61
MIN	---	---	16	11	13	11	12	9.2	10	25	27	32

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA
(National stream-quality accounting network station)

LOCATION.--Lat 29°42'09", long 91°12'07", on line between secs.1 and 6, St. Mary Parish, Hydrologic Unit 08080101 near center of span on downstream side of Southern Railway System bridge at Morgan City, 0.3 mi downstream from U.S. Highway 90, 0.3 mi upstream from Bayou Boeuf, and 1.0 mi southwest of Morgan City High School.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1973 to September 1975 (discharge measurements only), October 1976 to current year (elevations and discharge measurements only). Gage heights, 1905 to December 1975 and discharge, intermittently, 1927 to December 1975 (collected in same vicinity) are in reports of Corps of Engineers, New Orleans District, and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is NGVD (National Geodetic Vertical Datum of 1929). Prior to October 1984 at datum 0.34 ft higher and prior to July 1983 at 0.17 ft higher. Prior to October 1981 at NGVD.

REMARKS.--Discharge and elevation affected by tide at all stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.36 ft, May 9, 1991; minimum, -0.94 ft, Nov. 29, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached an elevation of 10.53 ft, from incomplete record, discharge not determined. Maximum discharge observed during flood of June 8, 1927, 741,000 ft³/s. Minimum elevation, -5.44 ft, Aug. 25, 1926 (affected by storm). All data from records of Corps of Engineers, New Orleans District.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 7.36 ft, May 9; minimum, 0.90 ft, Sept. 20.

DISCHARGE MEASUREMENTS MADE DURING YEAR

Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)	Date	Discharge (ft ³ /s)
Oct. 16, 1990.....	98,000	Feb. 14.....	221,000	June 12.....	244,000
Nov. 26.....	89,000	Mar. 20.....	237,000	Aug. 1.....	69,300
Dec. 27.....	164,000	Apr. 17.....	244,000	Aug. 22.....	7,600
Jan. 22, 1991.....	364,000	May 22.....	294,000	Sept. 18.....	61,700

ELEVATION (FEET NGVD). WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.34	2.63	2.34	4.15	6.71	5.58	5.01	6.67	6.38	4.21	1.89	2.23
2	2.35	2.70	2.53	4.33	6.63	5.68	5.04	6.68	6.28	4.10	2.05	2.33
3	2.68	2.83	3.16	4.49	6.50	5.65	5.11	6.72	6.17	3.99	2.03	2.39
4	2.52	3.06	2.23	4.63	6.40	5.55	5.15	6.75	6.08	3.92	2.07	2.43
5	2.15	2.89	2.27	4.94	6.44	5.61	5.17	6.79	5.97	3.90	2.10	2.56
6	2.32	2.73	2.31	5.16	6.28	5.67	5.20	6.68	5.90	4.06	2.02	2.52
7	2.41	2.67	2.24	5.25	6.07	5.68	5.29	6.65	5.93	3.98	2.16	2.46
8	2.35	2.51	2.02	5.31	5.85	5.73	5.38	7.03	5.99	3.90	2.18	2.31
9	2.50	3.41	2.03	5.47	5.61	5.74	5.37	7.20	6.01	3.76	2.23	2.26
10	1.59	2.18	2.02	5.78	5.42	5.72	5.36	7.13	6.08	3.61	2.02	2.34
11	1.62	2.13	2.08	6.02	5.27	5.77	5.44	6.99	6.14	3.48	1.82	2.29
12	1.83	2.11	2.45	5.95	5.18	5.80	5.57	6.90	6.12	3.34	1.70	2.35
13	1.73	2.03	2.41	5.98	5.19	5.81	5.69	6.84	6.01	3.15	1.56	2.29
14	2.09	2.19	2.48	6.08	5.11	5.73	5.81	6.84	5.93	2.98	1.64	2.28
15	2.19	2.25	2.54	6.32	4.91	5.67	5.90	6.96	5.83	2.90	1.86	2.29
16	2.25	2.28	2.65	6.26	4.83	5.72	5.93	6.92	5.70	2.69	1.79	2.21
17	2.37	2.23	2.73	6.27	4.96	5.88	5.92	6.85	5.56	2.55	1.98	2.02
18	2.22	2.35	2.89	6.36	4.91	5.75	6.05	6.82	5.44	2.58	2.00	2.10
19	2.16	2.44	2.74	6.44	5.00	5.64	6.05	6.81	5.30	2.65	1.76	1.87
20	2.57	2.39	2.76	6.47	4.93	5.63	6.01	6.72	5.18	2.62	1.69	1.39
21	2.65	2.54	2.82	6.44	5.00	5.58	6.00	6.62	5.08	2.70	1.71	1.81
22	2.65	2.61	2.92	6.46	5.20	5.63	6.11	6.59	4.97	2.73	1.68	2.04
23	2.47	2.47	2.90	6.55	5.11	5.46	6.11	6.71	4.86	2.67	1.76	2.14
24	2.43	2.48	2.60	6.68	5.17	5.31	6.07	6.80	4.73	2.57	1.73	2.18
25	2.07	2.45	2.80	6.72	5.26	5.23	6.23	6.72	4.62	2.45	1.74	1.74
26	2.11	2.51	2.91	6.76	5.23	5.20	6.37	6.66	4.53	2.35	1.78	1.67
27	2.28	2.74	3.14	6.83	5.30	5.28	6.59	6.59	4.49	2.27	1.91	1.56
28	2.28	2.48	3.45	6.91	5.39	5.21	6.72	6.52	4.49	2.16	1.95	1.66
29	2.40	1.89	3.71	6.96	---	5.39	6.71	6.46	4.40	2.05	1.90	1.82
30	2.35	1.98	3.89	7.03	---	5.07	6.64	6.46	4.31	1.93	1.89	1.97
31	2.39	---	3.97	6.84	---	5.02	---	6.47	---	1.90	2.09	---
MAX	2.68	3.41	3.97	7.03	6.71	5.88	6.72	7.20	6.38	4.21	2.23	2.56
MIN	1.59	1.89	2.02	4.15	4.83	5.02	5.01	6.46	4.31	1.90	1.56	1.39

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to September 1981.
 WATER TEMPERATURES-5 FT DEPTH: October 1976 to September 1984, May 1990 to September 1991.
 WATER TEMPERATURES-25 FT DEPTH: December 1990 to February 1991.
 WATER TEMPERATURES-45 FT DEPTH: December 1990 to February 1991.
 CHLORIDE-5 FT DEPTH: October 1974 to September 1984, May 1990 to September 1991.
 CHLORIDE-25 FT DEPTH: October 1980 to September 1984, December 1990 to February 1991.
 CHLORIDE-45 FT DEPTH: October 1980 to September 1984, December 1990 to February 1991.

REMARKS.--Extremes for current year for water temperatures and chlorides at 25 foot and 45 foot depths are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 622 micromhos Jan. 21, 1981; minimum daily, 179 micromhos Feb. 23, 1979.
 WATER TEMPERATURES-5 FT DEPTH: Maximum daily, 32.0 °C July 28, 1977; minimum daily, 4.0 °C Feb. 9-11, 1978.
 CHLORIDE-5 FT DEPTH: Maximum daily, 160 mg/L June 14-16, 1977; minimum daily, 9.7 mg/L May 15, 1991.
 CHLORIDE-25 FT DEPTH: Maximum daily, 120 mg/L Nov. 5, 1981; minimum daily, 16 mg/L Dec. 26, 29, 1982, many days during Jan., Feb. 14, 1983.
 CHLORIDE-45 FT DEPTH: Maximum daily, 130 mg/L Dec. 9, 1981; minimum daily, 14 mg/L Jan. 26, Mar. 1, May 27, 1983.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES-5 FT DEPTH: Maximum daily, 28.0 °C July 14-18, 20-30, Aug. 1-4, 25-30; minimum daily, 5.0 °C Jan. 13.
 CHLORIDE-5 FT DEPTH: Maximum daily, 65 mg/L Sept. 28; minimum daily, 9.7 mg/L May 15.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 644 microsiemens was observed June 17, 1987.
 A water temperature of 32.0 °C was observed Aug. 6, 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	SETTLE-ABLE MATTER (ML/L/HR)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)
OCT 1990												
16...	0945	98000	438	8.05	23.5	5	12	<1	7.9	1.4	17	K120
NOV 26...	1515	89000	419	7.93	17.0	5	17	<1	9.4	1.3	18	K100
DEC 27...	0900	164000	305	7.80	11.5	50	170	<1	10.2	2.6	25	1300
JAN 1991												
23...	0915	364000	216	7.67	7.0	60	90	<1	10.8	2.3	23	1200
FEB 14...	0830	221000	234	7.50	10.0	30	47	<1	9.8	2.1	25	1200
MAR 20...	0845	237000	222	7.48	14.5	50	45	<1	9.2	1.9	20	280
APR 17...	0845	244000	305	7.43	19.0	40	85	<1	6.8	0.6	27	1600
MAY 22...	0845	294000	188	7.48	24.0	30	85	<1	4.7	1.1	35	250
JUN 12...	1100	244000	209	7.34	27.0	30	65	<1	5.1	1.5	22	210
AUG 01...	0930	69300	417	7.98	30.5	20	32	<1	7.3	1.9	11	620
22...	0830	76000	487	8.07	29.5	0	11	<1	6.0	0.5	16	K80
SEP 18...	0815	61700	442	7.74	29.5	20	10	<1	6.5	1.0	20	K120

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CAC03	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)
OCT 1990												
16...	K24	K20	160	42	13	25	3.4	127	52	28	<0.1	4.7
NOV 26...	K8	K6	150	39	13	23	3.5	121	52	23	--	--
DEC 27...	260	K1100	100	28	8.2	18	3.1	78	26	24	0.3	6.4
JAN 1991												
23...	280	150	78	22	5.7	7.6	2.7	61	23	10	--	--
FEB 14...	K52	K56	87	24	6.6	12	2.4	62	27	13	0.1	6.7
MAR 20...	K44	K30	81	22	6.4	9.5	2.1	63	22	11	--	--
APR 17...	K110	240	110	30	8.3	16	2.5	76	31	23	0.2	6.5
MAY 22...	K30	310	66	19	4.6	9.1	2.4	52	10	12	--	--
JUN 12...	K22	130	76	21	5.7	9.9	2.2	59	17	13	0.1	5.5
AUG 01...	K12	<2	160	42	14	22	3.4	120	45	27	--	--
22...	K20	K12	170	45	15	34	3.4	128	63	43	0.3	2.2
SEP 18...	K10	K10	150	36	14	31	3.1	121	45	36	--	--
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 1990												
16...	250	248	25	0.01	<0.01	0.80	0.80	<0.01	<0.01	0.4	0.5	0.08
NOV 26...	--	226	32	0.02	--	0.96	--	--	--	--	0.36	0.10
DEC 27...	171	163	278	0.06	0.03	1.0	1.0	0.08	0.08	0.8	0.6	0.10
JAN 1991												
23...	--	108	200	0.04	--	0.86	--	--	--	--	0.66	0.22
FEB 14...	144	132	112	0.10	<0.01	--	0.73	0.05	0.03	0.9	0.6	0.14
MAR 20...	--	111	81	0.03	--	0.77	--	--	--	--	0.43	0.16
APR 17...	173	169	--	0.06	0.01	1.2	1.2	0.08	0.01	0.8	0.6	0.14
MAY 22...	--	88	251	0.01	--	0.54	--	--	--	--	0.43	0.20
JUN 12...	130	114	125	0.05	<0.01	0.94	0.88	0.06	<0.01	1.0	0.7	0.17
AUG 01...	--	225	72	<0.01	--	1.5	--	--	--	--	0.63	0.14
22...	275	286	25	0.02	0.01	0.76	0.77	0.02	<0.01	0.4	0.4	0.08
SEP 18...	--	238	14	0.02	--	0.52	--	--	--	--	0.52	0.09

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

MISSISSIPPI RIVER DELTA

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (µG/L AS AL)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)
OCT 1990												
16...	0.05	0.06	0.05	10	1	1	73	<10	<0.5	<1	<1	<1
NOV												
26...	--	--	--	--	<1	<1	--	<10	<10	<1	<1	--
DEC												
27...	0.02	0.08	0.03	--	3	<1	--	<10	<0.5	<1	10	--
JAN 1991												
23...	--	--	--	--	1	<1	--	<10	<10	<1	<1	--
FEB												
14...	0.02	0.04	0.01	40	1	<1	51	<10	<0.5	<1	<1	<1
MAR												
20...	--	--	--	--	2	<1	--	<10	<10	<1	<1	--
APR												
17...	0.03	0.10	0.03	50	--	<1	58	--	0.7	--	<1	<1
MAY												
22...	--	--	--	--	4	1	--	<10	<10	1	<1	--
JUN												
12...	0.04	0.11	0.05	--	2	2	--	<10	<0.5	<1	<1	--
AUG												
01...	--	--	--	--	3	2	--	<10	<10	<1	<1	--
22...	0.04	0.03	0.03	<10	2	1	90	<10	<0.5	11	<1	<1
SEP												
18...	--	--	--	--	2	2	--	<10	<10	<1	<1	--

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)
OCT 1990												
16...	2	<1	<3	5	3	6	2	<1	9	1	<0.1	<0.1
NOV												
26...	3	<1	--	3	2	<25	2	<1	--	--	<0.1	<0.1
DEC												
27...	11	<1	--	5	5	61	10	<1	--	--	<0.1	<0.1
JAN 1991												
23...	4	<1	--	13	4	80	8	2	--	--	<0.1	<0.1
FEB												
14...	3	<1	<3	7	3	72	4	1	<4	15	<0.1	<0.1
MAR												
20...	5	<1	--	5	2	60	3	<1	--	--	<0.1	<0.1
APR												
17...	--	--	3	--	3	86	--	<1	<4	10	<0.1	--
MAY												
22...	9	<1	--	8	4	130	6	<1	--	--	<0.1	<0.1
JUN												
12...	23	<1	--	4	5	320	6	1	--	--	<0.1	0.1
AUG												
01...	8	<1	--	9	6	<25	10	<1	--	--	<0.1	<0.1
22...	1	<1	<3	75	12	4	18	1	11	2	<0.1	<0.1
SEP												
18...	2	<1	--	5	4	20	1	<1	--	--	<0.1	<0.1

< Actual value is known to be less than the value shown.

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)
OCT 1990												
16...	<10	5	<1	<1	<1	<1	210	<6	<10	3	4.6	<0.01
NOV												
26...	--	2	1	<1	<1	--	--	1	10	<10	5.1	<0.01
DEC												
27...	--	12	1	<1	<1	--	--	2	50	44	9.0	<0.01
JAN 1991												
23...	--	7	1	<1	<1	--	--	1	30	10	6.3	<0.01
FEB												
14...	<10	5	2	<1	<1	<1	110	<6	<10	5	6.8	<0.01
MAR												
20...	--	4	<1	<1	<1	--	--	<1	20	<10	6.3	<0.01
APR												
17...	<10	--	1	--	<1	<1	150	<6	--	3	6.8	<0.01
MAY												
22...	--	23	23	<1	<1	--	--	1	30	10	8.4	<0.01
JUN												
12...	--	21	11	<1	<1	--	--	4	20	--	8.0	<0.01
AUG												
01...	--	4	4	<1	<1	--	--	3	30	10	5.3	<0.01
22...	<10	3	1	<1	<1	<1	250	<6	40	13	4.6	<0.01
SEP												
18...	--	2	1	1	<1	--	--	2	20	10	4.9	<0.01
DATE	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)
OCT 1990												
16...	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV												
26...	2	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC												
27...	<1	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
JAN 1991												
23...	10	3	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
FEB												
14...	4	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR												
20...	3	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR												
17...	6	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY												
22...	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN												
12...	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG												
01...	8	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
22...	5	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP												
18...	1	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)
OCT 1990												
16...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV												
26...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC												
27...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01
JAN 1991												
23...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB												
14...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR												
20...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR												
17...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY												
22...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN												
12...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG												
01...	<0.01	<0.01	<.010	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
22...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP												
18...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01

DATE	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990											
16...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.9	0.2	92	24400	100
NOV											
26...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.8	0.1	--	--	--
DEC											
27...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.8	0.2	389	172000	92
JAN 1991											
23...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	--	--	--
FEB											
14...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.9	<0.1	214	128000	63
MAR											
20...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	331	237000	74
APR											
17...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.2	0.1	336	221000	67
MAY											
22...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.2	<0.2	362	287000	68
JUN											
12...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.4	<0.2	268	176000	72
AUG											
01...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.9	<0.2	--	--	--
22...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	3.7	<0.1	--	--	--
SEP											
18...	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	5.6	<0.1	57	9500	99

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

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07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	18.0	7.5	7.0	9.0	---	20.0	24.5	26.0	28.0	27.0
2	---	---	15.0	7.5	7.0	---	14.5	20.0	24.5	26.0	28.0	27.0
3	---	---	15.0	6.5	7.0	---	15.0	20.0	24.5	26.0	28.0	26.5
4	---	---	13.0	6.0	8.0	10.0	15.0	20.0	24.5	26.0	28.0	26.5
5	---	---	13.0	7.0	8.0	10.0	15.0	20.0	25.0	26.0	27.5	26.5
6	---	---	13.0	7.0	8.0	10.5	15.0	20.5	25.0	26.0	27.5	26.5
7	---	---	12.5	6.5	8.5	11.5	15.0	20.5	25.0	26.0	27.5	26.5
8	---	---	12.0	6.0	8.0	11.5	15.5	21.0	25.0	26.0	27.5	26.5
9	---	---	12.0	6.0	8.5	11.5	16.0	21.0	25.0	26.0	27.0	26.5
10	---	---	11.5	5.5	8.5	11.5	16.0	21.0	25.0	26.0	27.5	26.5
11	---	---	11.0	6.0	9.0	11.5	16.0	21.0	25.0	26.0	27.5	26.0
12	---	---	11.0	5.5	9.5	11.5	16.5	21.5	25.0	27.0	---	---
13	---	---	11.0	5.0	9.5	11.5	17.0	21.5	25.0	27.0	27.0	26.0
14	---	---	10.5	6.0	10.0	11.0	17.5	21.5	25.5	28.0	27.5	26.5
15	---	---	10.5	6.0	10.0	10.5	17.5	21.5	25.5	28.0	27.5	26.5
16	---	---	10.5	6.0	10.0	10.0	17.5	21.5	25.5	28.0	27.5	27.0
17	---	---	10.0	6.5	10.0	10.5	18.0	21.5	25.5	28.0	27.5	27.0
18	---	---	10.0	6.0	9.5	11.5	18.0	22.5	25.5	28.0	27.5	27.0
19	---	---	8.5	---	10.0	11.5	19.0	22.5	26.0	---	27.5	27.0
20	---	---	11.0	6.5	10.0	12.0	19.0	22.0	26.0	28.0	27.5	27.0
21	---	---	12.0	6.5	10.0	12.5	19.0	22.0	26.0	28.0	27.5	27.0
22	---	---	11.5	6.0	10.0	11.5	19.0	22.0	26.0	28.0	27.5	27.0
23	---	---	11.0	6.0	10.0	11.5	19.0	22.5	26.0	28.0	27.5	27.0
24	---	---	9.5	6.0	9.5	11.5	19.0	22.5	---	28.0	---	25.0
25	---	---	9.5	6.0	9.5	12.0	---	23.0	---	28.0	28.0	24.0
26	---	---	9.5	6.0	9.5	14.0	19.0	23.0	26.0	28.0	28.0	24.0
27	---	---	9.5	6.0	9.5	14.5	19.0	23.0	26.0	28.0	28.0	24.0
28	---	---	9.5	6.5	8.5	14.5	19.0	23.5	26.0	28.0	28.0	24.0
29	---	---	10.0	8.0	---	14.0	20.0	23.5	26.0	28.0	28.0	24.0
30	---	---	9.5	8.0	---	14.0	19.0	24.0	26.0	28.0	28.0	24.0
31	---	---	8.0	6.0	---	13.5	---	24.5	---	---	27.0	---
MAX	---	---	18.0	8.0	10.0	14.5	20.0	24.5	26.0	28.0	28.0	27.0
MIN	---	---	8.0	5.0	7.0	9.0	14.5	20.0	24.5	26.0	27.0	24.0

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 5.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	33	16	12	14	17	13	12	40	30	34
2	---	---	32	15	14	---	16	13	12	39	29	34
3	---	---	27	14	13	---	17	12	12	38	32	33
4	---	---	31	14	13	13	14	12	12	39	29	34
5	---	---	26	15	14	14	13	12	12	40	30	35
6	---	---	32	35	14	12	13	11	12	39	31	35
7	---	---	33	21	14	13	14	10	13	30	29	39
8	---	---	32	14	14	13	14	11	11	31	31	40
9	---	---	33	28	14	10	15	10	12	30	41	40
10	---	---	31	14	15	13	18	10	11	34	40	40
11	---	---	30	18	15	14	16	11	11	34	40	38
12	---	---	31	15	15	12	17	11	12	31	42	---
13	---	---	29	14	14	14	18	10	31	30	42	34
14	---	---	26	14	14	13	17	9.9	32	31	49	34
15	---	---	26	12	16	13	17	9.7	32	31	49	35
16	---	---	21	13	16	14	20	10	34	30	49	37
17	---	---	21	14	16	13	20	14	34	30	44	37
18	---	---	21	12	16	14	20	14	35	28	45	38
19	---	---	22	---	16	14	16	14	32	29	46	42
20	---	---	25	13	16	12	15	13	31	29	44	41
21	---	---	22	12	14	13	15	14	30	26	45	38
22	---	---	22	13	15	13	15	12	32	26	45	41
23	---	---	24	12	14	15	14	11	33	26	41	40
24	---	---	23	28	14	14	14	12	---	26	40	39
25	---	---	27	12	14	14	13	13	---	27	36	37
26	---	---	26	13	15	14	13	13	37	27	35	38
27	---	---	25	15	15	15	20	12	36	26	37	39
28	---	---	24	13	16	13	13	12	37	26	38	65
29	---	---	20	32	---	16	13	12	40	30	34	64
30	---	---	16	14	---	17	13	12	40	29	36	64
31	---	---	17	14	---	16	---	11	---	---	36	---
MAX	---	---	33	35	16	17	20	14	40	40	49	65
MIN	---	---	16	12	12	10	13	9.7	11	26	29	33

MISSISSIPPI RIVER DELTA

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 25.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	7.5	---	---	---	---	---	---	---	---
2	---	---	---	7.5	---	---	---	---	---	---	---	---
3	---	---	---	6.5	---	---	---	---	---	---	---	---
4	---	---	---	6.0	---	---	---	---	---	---	---	---
5	---	---	---	7.0	---	---	---	---	---	---	---	---
6	---	---	13.0	7.0	---	---	---	---	---	---	---	---
7	---	---	13.0	6.5	---	---	---	---	---	---	---	---
8	---	---	12.5	6.0	---	---	---	---	---	---	---	---
9	---	---	12.0	6.0	---	---	---	---	---	---	---	---
10	---	---	11.5	5.5	---	---	---	---	---	---	---	---
11	---	---	11.0	6.0	---	---	---	---	---	---	---	---
12	---	---	11.0	5.5	---	---	---	---	---	---	---	---
13	---	---	11.0	5.0	---	---	---	---	---	---	---	---
14	---	---	10.5	---	---	---	---	---	---	---	---	---
15	---	---	10.5	---	---	---	---	---	---	---	---	---
16	---	---	10.5	---	---	---	---	---	---	---	---	---
17	---	---	10.0	6.5	---	---	---	---	---	---	---	---
18	---	---	10.0	6.0	---	---	---	---	---	---	---	---
19	---	---	8.5	---	---	---	---	---	---	---	---	---
20	---	---	11.0	6.5	---	---	---	---	---	---	---	---
21	---	---	12.0	---	---	---	---	---	---	---	---	---
22	---	---	12.0	---	---	---	---	---	---	---	---	---
23	---	---	11.0	---	---	---	---	---	---	---	---	---
24	---	---	---	6.0	---	---	---	---	---	---	---	---
25	---	---	---	6.0	---	---	---	---	---	---	---	---
26	---	---	---	6.0	---	---	---	---	---	---	---	---
27	---	---	9.5	6.0	---	---	---	---	---	---	---	---
28	---	---	9.5	---	---	---	---	---	---	---	---	---
29	---	---	10.0	---	---	---	---	---	---	---	---	---
30	---	---	9.5	---	---	---	---	---	---	---	---	---
31	---	---	8.0	6.0	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 25.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	32	18	---	---	---	---	---	---	---	---
2	---	---	43	17	---	---	---	---	---	---	---	---
3	---	---	26	14	---	---	---	---	---	---	---	---
4	---	---	31	13	13	---	---	---	---	---	---	---
5	---	---	27	20	14	---	---	---	---	---	---	---
6	---	---	40	14	13	---	---	---	---	---	---	---
7	---	---	31	14	---	---	---	---	---	---	---	---
8	---	---	32	20	---	---	---	---	---	---	---	---
9	---	---	32	23	---	---	---	---	---	---	---	---
10	---	---	30	15	---	---	---	---	---	---	---	---
11	---	---	31	15	---	---	---	---	---	---	---	---
12	---	---	32	17	---	---	---	---	---	---	---	---
13	---	---	28	14	---	---	---	---	---	---	---	---
14	---	---	28	13	---	---	---	---	---	---	---	---
15	---	---	25	12	---	---	---	---	---	---	---	---
16	---	---	34	12	---	---	---	---	---	---	---	---
17	---	---	21	13	---	---	---	---	---	---	---	---
18	---	---	22	12	---	---	---	---	---	---	---	---
19	---	---	21	---	---	---	---	---	---	---	---	---
20	---	---	23	12	---	---	---	---	---	---	---	---
21	---	---	28	13	---	---	---	---	---	---	---	---
22	---	---	22	13	---	---	---	---	---	---	---	---
23	---	---	24	12	---	---	---	---	---	---	---	---
24	---	---	24	12	---	---	---	---	---	---	---	---
25	---	---	28	12	---	---	---	---	---	---	---	---
26	---	---	30	26	---	---	---	---	---	---	---	---
27	---	---	23	27	---	---	---	---	---	---	---	---
28	---	---	23	44	---	---	---	---	---	---	---	---
29	---	---	16	42	---	---	---	---	---	---	---	---
30	---	---	17	13	---	---	---	---	---	---	---	---
31	---	---	17	14	---	---	---	---	---	---	---	---
MAX	---	---	43	44	---	---	---	---	---	---	---	---
MIN	---	---	16	12	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 45.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	8.0	---	---	---	---	---	---	---	---
2	---	---	---	8.0	---	---	---	---	---	---	---	---
3	---	---	---	7.0	---	---	---	---	---	---	---	---
4	---	---	---	6.5	8.0	---	---	---	---	---	---	---
5	---	---	---	7.5	---	---	---	---	---	---	---	---
6	---	---	13.0	7.5	---	---	---	---	---	---	---	---
7	---	---	13.0	7.0	---	---	---	---	---	---	---	---
8	---	---	12.5	6.5	---	---	---	---	---	---	---	---
9	---	---	12.5	6.5	---	---	---	---	---	---	---	---
10	---	---	12.0	6.0	---	---	---	---	---	---	---	---
11	---	---	11.5	6.5	---	---	---	---	---	---	---	---
12	---	---	11.5	6.0	---	---	---	---	---	---	---	---
13	---	---	11.5	5.5	---	---	---	---	---	---	---	---
14	---	---	11.0	6.0	---	---	---	---	---	---	---	---
15	---	---	11.0	---	---	---	---	---	---	---	---	---
16	---	---	10.5	---	---	---	---	---	---	---	---	---
17	---	---	10.5	7.0	---	---	---	---	---	---	---	---
18	---	---	10.5	6.5	---	---	---	---	---	---	---	---
19	---	---	9.0	---	---	---	---	---	---	---	---	---
20	---	---	11.5	---	---	---	---	---	---	---	---	---
21	---	---	12.5	---	---	---	---	---	---	---	---	---
22	---	---	12.5	---	---	---	---	---	---	---	---	---
23	---	---	11.5	---	---	---	---	---	---	---	---	---
24	---	---	---	6.5	---	---	---	---	---	---	---	---
25	---	---	---	6.5	---	---	---	---	---	---	---	---
26	---	---	---	6.5	---	---	---	---	---	---	---	---
27	---	---	10.0	6.5	---	---	---	---	---	---	---	---
28	---	---	10.0	6.5	---	---	---	---	---	---	---	---
29	---	---	10.5	---	---	---	---	---	---	---	---	---
30	---	---	10.0	---	---	---	---	---	---	---	---	---
31	---	---	8.5	6.5	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
SAMPLING DEPTH 45.00 (FT), ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	32	17	---	---	---	---	---	---	---	---
2	---	---	32	14	---	---	---	---	---	---	---	---
3	---	---	36	14	---	---	---	---	---	---	---	---
4	---	---	44	13	14	---	---	---	---	---	---	---
5	---	---	27	14	13	---	---	---	---	---	---	---
6	---	---	29	16	14	---	---	---	---	---	---	---
7	---	---	36	21	---	---	---	---	---	---	---	---
8	---	---	33	19	---	---	---	---	---	---	---	---
9	---	---	33	14	---	---	---	---	---	---	---	---
10	---	---	31	18	---	---	---	---	---	---	---	---
11	---	---	31	20	---	---	---	---	---	---	---	---
12	---	---	31	13	---	---	---	---	---	---	---	---
13	---	---	28	14	---	---	---	---	---	---	---	---
14	---	---	28	16	---	---	---	---	---	---	---	---
15	---	---	25	12	---	---	---	---	---	---	---	---
16	---	---	22	13	---	---	---	---	---	---	---	---
17	---	---	23	13	---	---	---	---	---	---	---	---
18	---	---	21	12	---	---	---	---	---	---	---	---
19	---	---	22	---	---	---	---	---	---	---	---	---
20	---	---	22	12	---	---	---	---	---	---	---	---
21	---	---	22	13	---	---	---	---	---	---	---	---
22	---	---	23	12	---	---	---	---	---	---	---	---
23	---	---	40	12	---	---	---	---	---	---	---	---
24	---	---	24	29	---	---	---	---	---	---	---	---
25	---	---	27	12	---	---	---	---	---	---	---	---
26	---	---	26	19	---	---	---	---	---	---	---	---
27	---	---	23	12	---	---	---	---	---	---	---	---
28	---	---	23	14	---	---	---	---	---	---	---	---
29	---	---	17	16	---	---	---	---	---	---	---	---
30	---	---	17	13	---	---	---	---	---	---	---	---
31	---	---	17	14	---	---	---	---	---	---	---	---
MAX	---	---	44	21	---	---	---	---	---	---	---	---
MIN	---	---	17	12	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR.

07381650 LOWER ATCHAFALAYA RIVER BELOW SWEETBAY LAKE, NEAR MORGAN CITY, LA

LOCATION.--Lat 29°33'06", long 91°14'41", in sec.21, T.17 S., R.12 E., St. Mary Parish, gage attached to wharf of Texas Oil Company at Mile 129.5 from head of Atchafalaya River via Atchafalaya Basin main channel, and 10.3 mi south of Morgan City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1986 to current year (gage heights only). October 1985 to September 1986 (elevations only). Elevations, February 1956 to September 1985 are in reports of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 0.78 ft below National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1986 datum of gage was National Geodetic Vertical Datum of 1929.

REMARKS.--Gage heights affected by wind and tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.44 ft, Apr. 28, 1991; minimum gage height, -0.12 ft, Oct. 21, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation, 8.05 ft, June 27, 1957; minimum elevation, -1.55 ft, Nov. 6, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.44 ft, April 28; minimum gage height, 0.98 ft, Sept. 20.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.54	2.66	2.48	2.89	4.43	3.84	3.42	4.77	4.40	3.18	1.97	2.36
2	2.55	2.74	2.65	3.00	4.40	3.89	3.48	4.71	4.25	3.13	2.15	2.48
3	2.95	2.87	3.12	3.01	4.30	3.71	3.65	4.90	4.12	3.04	2.12	2.52
4	2.70	3.10	2.06	3.02	4.26	3.60	3.64	4.98	3.99	3.02	2.17	2.59
5	2.31	2.74	2.31	3.27	4.38	3.72	3.63	4.77	3.87	3.06	2.17	2.75
6	2.51	2.69	2.32	3.37	4.23	3.73	3.65	4.48	3.85	3.41	2.10	2.69
7	2.59	2.60	2.14	3.35	4.08	3.77	3.82	4.49	4.01	3.18	2.22	2.60
8	2.54	2.48	1.98	3.38	3.92	---	3.88	4.99	4.09	3.15	2.29	2.44
9	2.68	3.41	1.93	3.54	3.77	---	3.80	5.10	4.16	3.09	2.35	2.42
10	1.58	1.98	1.85	3.84	3.66	---	3.76	5.00	4.29	3.00	2.12	2.53
11	1.82	2.14	1.98	4.04	3.54	---	3.90	4.84	4.38	2.91	1.89	2.49
12	1.95	2.10	2.39	3.84	3.50	---	4.07	4.74	4.32	2.83	1.76	2.55
13	1.88	2.08	2.21	3.88	3.56	---	4.22	4.73	4.22	2.68	1.66	2.50
14	2.22	2.27	2.26	3.96	3.45	---	4.35	4.72	4.17	2.55	1.78	2.48
15	2.26	2.36	2.28	4.28	3.15	---	4.26	4.80	4.08	2.49	2.02	2.49
16	2.35	2.40	2.34	4.07	3.17	---	4.28	4.80	3.98	2.28	1.93	2.41
17	2.49	2.31	2.49	4.05	3.38	---	4.22	4.76	3.86	2.21	2.12	2.25
18	2.19	2.50	2.60	4.15	3.37	---	4.42	4.78	3.75	2.29	2.12	2.34
19	2.23	2.57	2.47	4.22	3.59	---	4.33	4.86	3.64	2.33	1.84	2.04
20	2.65	2.52	2.55	4.20	3.32	---	4.19	4.72	3.58	2.30	1.81	1.61
21	2.68	2.71	2.65	4.06	3.39	4.00	4.18	4.61	3.56	2.39	1.85	2.08
22	2.53	2.75	2.71	4.11	3.47	4.11	4.37	4.64	3.52	2.46	1.81	2.31
23	2.45	2.55	2.36	4.19	3.31	3.84	4.28	4.88	3.49	2.44	1.93	2.40
24	2.32	2.61	1.92	4.29	3.39	3.68	4.24	4.94	3.40	2.35	1.88	2.44
25	1.86	2.54	2.19	4.37	3.43	3.68	4.47	4.79	3.32	2.28	1.92	1.89
26	2.05	2.64	2.30	4.41	3.34	3.71	4.64	4.78	3.29	2.21	1.97	1.89
27	2.16	2.97	2.50	4.50	3.46	3.91	4.91	4.71	3.37	2.14	2.08	1.73
28	2.18	2.52	2.65	4.61	3.58	3.86	5.18	4.66	3.38	2.04	2.12	1.84
29	2.36	1.83	2.82	4.68	---	4.10	4.95	4.57	3.32	1.98	2.07	1.99
30	2.31	2.12	2.85	4.75	---	3.54	4.80	4.56	3.25	1.88	2.04	2.17
31	2.37	---	2.78	4.49	---	3.44	---	4.58	---	1.90	2.27	---
MAX	2.95	3.41	3.12	4.75	4.43	---	5.18	5.10	4.40	3.41	2.35	2.75
MIN	1.58	1.83	1.85	2.89	3.15	---	3.42	4.48	3.25	1.88	1.66	1.61

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA

LOCATION.--Lat 31°00'00", long 92°22'46", in NW 1/4 SW 1/4 sec.4, T.1 S., R.1 E., Louisiana Meridian, Evangeline Parish, Hydrologic Unit 08080102, near right bank on downstream side of bridge on U.S. Highway 167, 1,000 ft downstream from Cocodrie Lake dam, 1.0 mi downstream from Chicago, Rock Island and Pacific Railroad Company bridge, 1.5 mi east of Clearwater, 4.0 mi south of Meeker, and 5.0 mi downstream from Hurricane Creek.

DRAINAGE AREA.--240 mi².

PERIOD OF RECORD.--May 1922 to January 1925 (published as "near Meeker"), October 1937 to current year. Monthly discharge only for October 1937 published in WSP 1311.

REVISED RECORDS.--WSP 1211: 1938, drainage area. WDR LA-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above mean Gulf level (levels by Corps of Engineers) and 39.57 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). See WSP 1731 for history of changes prior to Mar. 28, 1940. January to September 1985, auxiliary nonrecording gage 6.6 mi downstream from base gage at datum 35.10 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Slight regulation at low flow by Cocodrie Lake. Several measurements of water temperature were made during the year. Reverse flow: Nov. 13-15, 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	77	115	495	1000	776	395	1120	1080	957	208	231
2	85	77	115	512	980	829	409	1130	1060	933	190	400
3	81	78	135	756	954	875	385	1110	1040	916	175	508
4	80	78	133	873	930	878	356	1100	1010	915	163	517
5	80	80	151	901	935	862	328	1170	985	938	154	502
6	80	79	160	894	931	840	304	1330	1000	956	147	472
7	79	79	169	886	923	813	285	1400	1010	974	140	477
8	79	79	145	896	906	785	276	1430	1000	972	137	509
9	78	82	163	895	884	753	262	1550	976	974	139	480
10	77	82	172	965	861	712	251	1640	960	966	139	449
11	76	81	172	1150	835	654	294	1640	999	950	171	408
12	76	83	167	1250	810	571	504	1580	1050	927	315	364
13	76	84	162	1270	784	508	753	1530	1070	902	393	322
14	76	84	153	1250	752	455	848	1470	1080	876	406	286
15	75	84	147	1230	696	410	990	1460	1070	850	403	258
16	74	84	141	1220	619	384	1100	1470	1050	824	422	236
17	74	85	138	1200	555	395	1120	1450	1020	797	442	217
18	73	87	140	1190	500	383	1110	1430	993	767	431	201
19	73	88	137	1210	471	367	1090	1400	970	727	424	184
20	72	88	135	1240	476	350	1070	1370	948	658	418	170
21	74	88	136	1240	593	331	1050	1340	941	581	381	158
22	75	87	165	1210	782	313	1020	1310	949	513	338	149
23	75	87	527	1180	856	295	992	1280	930	453	301	140
24	77	86	734	1170	873	274	967	1250	934	398	269	140
25	78	90	777	1160	860	256	953	1220	973	350	242	146
26	78	96	764	1150	841	241	931	1200	974	317	219	146
27	78	99	743	1130	820	227	918	1170	994	311	206	143
28	78	102	716	1110	796	215	908	1140	999	287	199	139
29	78	108	662	1080	---	223	972	1120	996	266	186	135
30	78	114	608	1060	---	234	1070	1100	981	250	186	134
31	78	---	550	1030	---	303	---	1080	---	229	195	---
TOTAL	2396	2596	9332	32803	22223	15512	21911	40990	30042	21734	8139	8621
MEAN	77.3	86.5	301	1058	794	500	730	1322	1001	701	263	287
MAX	85	114	777	1270	1000	878	1120	1640	1080	974	442	517
MIN	72	77	115	495	471	215	251	1080	930	229	137	134
AC-FT	4750	5150	18510	65060	44080	30770	43460	81300	59590	43110	16140	17100
CFSM	.32	.36	1.25	4.41	3.31	2.08	3.04	5.51	4.17	2.92	1.09	1.20
IN.	.37	.40	1.45	5.08	3.44	2.40	3.40	6.35	4.66	3.37	1.26	1.34

07382000 BAYOU COCODRIE NEAR CLEARWATER, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1991, BY WATER YEAR (WY)

MEAN	190	299	510	638	668	626	611	575	346	278	237	195
MAX	1174	1979	1738	1780	1379	1146	1603	4052	1175	1921	943	698
(WY)	1985	1986	1983	1983	1974	1987	1949	1953	1989	1989	1975	1979
MIN	53.6	56.0	66.4	103	128	165	118	81.4	57.4	63.1	65.4	58.1
(WY)	1953	1925	1925	1981	1981	1954	1963	1965	1960	1960	1948	1952

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1923 - 1991	
ANNUAL TOTAL	127121		216299			
ANNUAL MEAN	348		593		431	
HIGHEST ANNUAL MEAN					720	
LOWEST ANNUAL MEAN					178	
HIGHEST DAILY MEAN	1480	Jan 27	1640	May 10	25000	May 19 1953
LOWEST DAILY MEAN	72	Oct 20	72	Oct 20	.00	Nov 13 1922
ANNUAL SEVEN-DAY MINIMUM	74	Oct 15	74	Oct 15	31	Jan 10 1959
INSTANTANEOUS PEAK FLOW			1710	May 10	28200	May 18 1953
INSTANTANEOUS PEAK STAGE			19.02	May 10	26.72	May 18 1953
INSTANTANEOUS LOW FLOW			72	Oct 19,20,21	5.3	Nov 8.9 1982 (regulated)
INSTANTANEOUS LOW STAGE			5.13	Oct 19,20,21		
ANNUAL RUNOFF (AC-FT)	252100		429000		312200	
ANNUAL RUNOFF (CFSM)	1.45		2.47		1.80	
ANNUAL RUNOFF (INCHES)	19.70		33.53		24.40	
10 PERCENT EXCEEDS	1030		1160		971	
50 PERCENT EXCEEDS	155		502		274	
90 PERCENT EXCEEDS	80		81		85	

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.31	5.23	5.86	10.40	15.08	13.09	9.27	16.01	15.68	14.68	7.33	7.62
2	5.37	5.23	5.86	10.57	14.87	13.58	9.43	16.06	15.56	14.48	7.07	9.45
3	5.31	5.23	6.23	12.91	14.65	13.98	9.15	15.92	15.35	14.33	6.85	10.53
4	5.29	5.24	6.18	13.96	14.45	14.01	8.83	15.88	15.12	14.32	6.68	10.62
5	5.28	5.28	6.48	14.21	14.50	13.87	8.50	16.42	14.91	14.52	6.54	10.47
6	5.28	5.27	6.62	14.14	14.46	13.67	8.23	17.51	15.05	14.67	6.42	10.17
7	5.27	5.26	6.75	14.08	14.39	13.43	7.98	17.92	15.13	14.82	6.31	10.22
8	5.26	5.26	6.38	14.16	14.25	13.18	7.87	18.10	15.04	14.81	6.25	10.54
9	5.24	5.33	6.67	14.16	14.06	12.88	7.69	18.65	14.84	14.82	6.29	10.25
10	5.22	5.32	6.81	14.74	13.86	12.51	7.55	18.98	14.71	14.75	6.28	9.94
11	5.20	5.31	6.80	16.25	13.63	11.98	8.08	18.96	15.03	14.62	6.77	9.54
12	5.20	5.34	6.74	17.02	13.41	11.17	10.46	18.78	15.41	14.43	8.59	9.09
13	5.20	5.37	6.65	17.13	13.17	10.53	12.88	18.55	15.64	14.21	9.38	8.67
14	5.20	5.35	6.52	16.97	12.87	9.95	13.74	18.32	15.72	13.99	9.52	8.29
15	5.18	5.36	6.42	16.86	12.37	9.44	14.95	18.27	15.60	13.76	9.48	7.96
16	5.16	5.37	6.31	16.77	11.64	9.14	15.83	18.30	15.42	13.53	9.67	7.70
17	5.15	5.37	6.28	16.65	11.00	9.27	16.03	18.22	15.20	13.29	9.87	7.45
18	5.15	5.42	6.31	16.54	10.45	9.13	15.93	18.09	14.98	13.01	9.76	7.22
19	5.14	5.43	6.26	16.75	10.13	8.95	15.80	17.93	14.78	12.64	9.69	6.98
20	5.13	5.43	6.23	16.94	10.19	8.76	15.62	17.75	14.60	12.02	9.64	6.77
21	5.16	5.43	6.25	16.91	11.37	8.53	15.41	17.58	14.54	11.27	9.26	6.60
22	5.17	5.43	6.66	16.73	13.15	8.33	15.19	17.40	14.61	10.59	8.83	6.45
23	5.19	5.41	10.73	16.52	13.82	8.11	14.98	17.19	14.45	9.98	8.45	6.30
24	5.22	5.40	12.71	16.40	13.96	7.85	14.76	17.01	14.48	9.44	8.09	6.31
25	5.23	5.46	13.11	16.34	13.85	7.62	14.64	16.81	14.82	8.95	7.76	6.40
26	5.24	5.57	12.99	16.26	13.69	7.42	14.46	16.62	14.83	8.62	7.47	6.40
27	5.24	5.62	12.79	16.09	13.49	7.25	14.35	16.40	14.99	8.55	7.29	6.35
28	5.24	5.67	12.54	15.90	13.28	7.09	14.27	16.19	15.03	8.29	7.19	6.29
29	5.24	5.75	12.06	15.69	---	7.19	14.80	16.00	15.01	8.06	7.02	6.23
30	5.24	5.85	11.53	15.50	---	7.34	15.58	15.83	14.88	7.87	7.02	6.20
31	5.24	---	10.95	15.28	---	8.21	---	15.72	---	7.60	7.15	---
MAX	5.37	5.85	13.11	17.13	15.08	14.01	16.03	18.98	15.72	14.82	9.87	10.62
MIN	5.13	5.23	5.86	10.40	10.13	7.09	7.55	15.72	14.45	7.60	6.25	6.20

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA

LOCATION.--Lat 30°37'05", long 92°03'20", in SW 1/4 NW 1/4 sec.81, T.5 S., R.4 E., Louisiana Meridian, St. Landry Parish. Hydrologic Unit 08080102, near center of span on downstream side of bridge on State Highway 10 at Washington, 0.2 mi upstream from Southern Pacific Transportation Company bridge, 1.2 mi upstream from Bayou Carron, 3.5 mi downstream from confluence of Bayou Cocodrie and Bayou Boeuf, and 6.0 mi north of Opelousas.

DRAINAGE AREA.--715 mi². See REMARKS.

PERIOD OF RECORD.--July 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1948, nonrecording gage at same site and datum. Water-stage recorder for Bayou Courtableau near Washington (station 07382495) used as auxiliary gage for this station since Feb. 28, 1949. Prior to Feb. 28, 1949, auxiliary nonrecording gage 3.5 mi upstream from base at same datum.

REMARKS.--Estimated daily discharges: Dec. 3, Apr. 10-11 (indefinite stage-discharge relationship), Nov. 16-27 (no gage-height record). Records fair, except those for period of indefinite stage-discharge relationship and no gage-height record, which are poor. Some flow diverted from Bayou Boeuf into Chatlin Lake Canal through Bayou Lamourie. Since April 1952, floodflow is diverted from 76.1 mi² in Bayou Rapides basin into Bayou Boeuf when stage of Red River makes it necessary to close gates at mouth of Bayou Rapides. In extreme floods, considerable flow bypasses the station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--45 years, 1,114 ft³/s, 807,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s, May 21, 1953; maximum elevation, 35.29 ft, May 22, 1953; minimum discharge, 70 ft³/s, Oct. 19, 1973; minimum elevation, 10.72 ft, Oct. 18, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,150 ft³/s, May 19, elevation, 28.41 ft; maximum elevation, 28.77 ft, May 11; minimum daily discharge, 62 ft³/s, Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	185	269	1010	2440	3030	1730	3820	3610	1760	276	538
2	114	183	196	1040	2060	2980	1570	4070	3390	1460	269	544
3	95	176	e350	2820	1690	3030	1360	4260	2990	1440	256	533
4	83	173	571	3370	1480	2950	1080	4270	2390	1290	238	648
5	83	183	417	3450	2850	2820	804	4200	1800	1480	248	815
6	77	182	439	3440	3180	2580	614	4250	1610	2100	366	886
7	78	175	512	3350	3070	2130	520	4340	1670	1980	241	945
8	75	173	740	3270	2820	1670	534	4410	1350	1870	220	1200
9	74	212	652	3120	2400	1410	730	4260	1160	2210	220	1110
10	72	210	586	3130	1870	1210	e900	4410	1080	2400	250	855
11	65	224	468	3340	1500	1050	e1200	4660	1240	2000	316	666
12	62	191	355	3610	1300	914	1880	4870	1500	1580	410	542
13	67	167	276	4000	1170	799	2620	5010	1390	1340	523	468
14	74	141	274	4270	1070	694	2800	5090	1270	1140	627	436
15	78	109	273	4430	984	611	3350	5070	1230	990	731	416
16	86	e90	270	4520	883	556	3610	5070	1210	872	886	381
17	92	e78	308	4510	795	759	3800	5110	1260	810	938	370
18	101	e74	313	4450	738	916	4010	5130	2000	732	820	334
19	110	e72	250	4390	830	876	4120	5130	1930	724	703	326
20	104	e68	224	4370	1680	743	4150	5120	1610	679	589	284
21	127	e66	364	4330	2960	668	4110	5080	1480	621	530	285
22	186	e65	688	4260	3620	598	3990	5030	1370	574	488	268
23	188	e64	2130	4160	3760	539	3810	4940	1320	500	441	248
24	227	e68	2830	3980	4010	484	3560	4800	1490	445	401	226
25	224	e72	2960	3860	4130	430	3250	4690	2690	403	371	239
26	206	e78	2790	3770	4060	415	2920	4600	2700	362	343	241
27	200	e100	2360	3630	3860	389	2700	4440	2620	342	321	249
28	196	160	2010	3410	3510	329	2570	4240	2790	330	298	218
29	191	267	1600	3010	---	779	3200	4040	2630	316	276	196
30	186	303	1370	2890	---	1580	3590	3910	2180	286	297	199
31	191	---	1190	2750	---	1810	---	3740	---	286	388	---
TOTAL	3846	4309	28035	109940	64720	39749	75082	142060	56960	33322	13281	14666
MEAN	124	144	904	3546	2311	1282	2503	4583	1899	1075	428	489
MAX	227	303	2960	4520	4130	3030	4150	5130	3610	2400	938	1200
MIN	62	64	196	1010	738	329	520	3740	1080	286	220	196
AC-FT	7630	8550	55610	218100	128400	78840	148900	281800	113000	66090	26340	29090

CAL YR 1990 TOTAL 351496 MEAN 963 MAX 5320 MIN 52 AC-FT 697200
WTR YR 1991 TOTAL 585970 MEAN 1605 MAX 5130 MIN 62 AC-FT 1162000

e Estimated.

MISSISSIPPI RIVER DELTA

07382500 BAYOU COURTABLEAU AT WASHINGTON, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.99	18.32	13.15	18.61	23.60	23.45	20.47	26.43	24.79	20.94	18.32	18.44
2	17.19	18.31	14.70	18.59	22.41	23.11	20.09	26.57	24.05	19.89	18.30	18.61
3	17.05	18.31	16.98	23.26	21.09	23.16	19.69	26.57	22.92	19.95	18.28	18.64
4	17.43	18.31	17.29	24.23	20.29	23.00	19.23	26.68	21.53	19.42	18.25	18.78
5	17.84	18.31	17.33	24.27	21.99	22.60	18.78	26.88	20.35	19.50	18.23	19.02
6	18.10	18.31	16.98	24.02	24.09	21.90	18.41	26.79	19.95	21.00	18.39	19.15
7	18.23	18.30	17.38	23.95	24.17	20.96	18.11	26.57	20.19	20.85	18.36	19.48
8	18.27	18.30	18.16	23.54	23.56	20.20	17.98	26.95	19.68	20.71	18.34	19.88
9	18.29	18.43	18.23	22.99	22.39	19.66	18.54	28.16	19.27	21.32	18.30	19.59
10	18.29	18.43	17.80	24.81	20.94	19.26	18.85	28.63	19.08	21.82	18.34	19.15
11	18.28	17.95	16.59	27.03	19.89	19.01	18.94	28.75	19.38	20.90	18.48	18.73
12	18.28	17.12	16.13	27.55	19.32	18.97	20.33	28.68	20.09	20.19	18.55	18.44
13	18.28	16.21	16.36	27.61	18.93	18.80	22.08	28.52	20.05	19.64	18.75	18.44
14	18.29	15.28	16.66	27.41	18.55	18.65	22.83	28.33	19.58	19.27	18.88	18.41
15	18.30	14.44	16.83	27.18	18.25	18.52	25.40	28.43	19.48	19.02	18.99	18.37
16	18.30	---	16.91	26.95	18.34	18.39	25.77	28.49	19.38	18.92	19.20	18.30
17	18.30	---	16.79	26.71	18.36	18.70	25.95	28.42	19.41	18.79	19.27	18.25
18	18.31	---	16.07	26.49	18.29	19.14	25.92	28.45	21.08	18.60	19.08	18.14
19	18.10	---	15.60	26.59	18.35	19.07	25.79	28.36	21.17	18.48	18.89	18.03
20	18.13	---	16.29	26.55	20.01	18.80	25.53	28.23	20.44	18.42	18.73	18.07
21	18.31	---	17.01	26.46	22.77	18.61	25.19	28.10	20.04	18.60	18.73	18.21
22	18.49	---	17.62	26.19	25.25	18.44	24.81	27.88	19.82	18.57	18.67	18.27
23	18.50	---	20.47	25.76	26.18	18.25	24.25	27.62	19.69	18.50	18.55	18.28
24	18.54	---	22.37	25.68	26.41	18.08	23.57	27.56	20.00	18.41	18.46	18.40
25	18.47	---	22.41	25.57	26.22	18.30	22.97	27.31	22.46	18.33	18.38	18.34
26	18.40	---	21.77	25.24	25.78	18.39	22.62	27.02	22.39	18.26	18.30	18.22
27	18.37	---	20.48	24.78	25.17	18.39	22.45	26.66	23.00	18.24	18.22	18.16
28	18.36	11.82	19.62	24.04	24.41	18.31	22.22	26.25	23.05	18.22	18.12	18.02
29	18.33	12.22	19.79	23.33	---	18.80	24.47	25.93	22.99	18.18	18.20	17.86
30	18.32	12.63	19.57	24.39	---	20.17	25.95	25.79	22.10	18.28	18.39	17.59
31	18.32	---	19.20	24.23	---	20.65	---	25.38	---	18.31	18.43	---
MAX	18.54	---	22.41	27.61	26.41	23.45	25.95	28.75	24.79	21.82	19.27	19.88
MIN	17.05	---	13.15	18.59	18.25	18.08	17.98	25.38	19.08	18.18	18.12	17.59

07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA

LOCATION.--Lat 31°01'59", long 91°58'57", in NE 1/4 sec.29, T.1 N., R.5 E., Avoyelles Parish, Hydrologic Unit 08080102, near left bank on downstream side of bridge on State Highway 114 at Moreauville, and 150 ft downstream from point of diversion from Bayou des Glaisses.

DRAINAGE AREA.--270 mi². See REMARKS.

PERIOD OF RECORD.--July 1943 to current year.

REVISED RECORDS.--WDR LA-77-1: 1973-76.

GAGE.--Water-stage recorder. Datum of gage is 23.46 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Prior to Oct. 13, 1950, nonrecording gage at same site. Prior to Sept. 30, 1961, at datum 4.84 ft higher. Water-stage recorder for Bayou des Glaisses diversion channel near Moreauville (station 07383510) used as auxiliary gage for this station since Apr. 17, 1972.

REMARKS.--Estimated daily discharges. No gage-height record: May 23 to June 11, July 23 to Aug. 8. No auxiliary gage-height record: Jan. 10-29, Feb. 21-27, Apr. 14-30. Records fair, except for periods of estimated discharge, which are poor. Diversion channel carries natural flow of Bayou des Glaisses except when operation of floodgates, 12 mi downstream from point of diversion, regulates flow into or out of bayou depending on stage in Red River and Old River overflow area. Flow includes diversion from Bayou Boeuf into Chatlin Lake Canal and is occasionally affected by diversion into or out of Red River and Old River overflow area. Channel discharges into West Protection Levee borrow pit channel, 6.0 mi downstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 436 ft³/s, 315,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,340 ft³/s, May 18, 1953, gage height, 22.68 ft, present datum; minimum, 2.7 ft³/s, Oct. 13, 14, 15, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,280 ft³/s, May 10; minimum daily discharge, 9.6 ft³/s, Dec. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	16	120	676	708	845	640	1760	e1230	609	e88	152
2	23	14	76	735	642	798	505	1690	e1170	511	e83	184
3	24	13	108	1310	527	888	328	1680	e1110	545	e78	144
4	23	14	472	969	344	937	217	1680	e1040	397	e73	116
5	22	16	454	878	641	965	164	1810	e950	489	e68	103
6	20	17	306	907	766	966	145	1970	e860	609	e63	163
7	18	21	224	913	759	929	136	1880	e840	559	e50	257
8	21	24	282	921	739	858	139	1970	e800	488	e43	226
9	24	23	269	915	692	788	288	2240	e740	478	47	168
10	24	29	178	e1660	621	700	347	2280	e670	528	65	146
11	22	54	112	e2200	476	526	449	2170	e610	431	199	130
12	21	56	74	e1470	302	370	1180	2110	550	327	489	110
13	20	35	54	e1260	186	345	985	2080	506	239	531	111
14	19	22	43	e1220	123	332	e1170	2040	443	191	500	130
15	19	16	23	e1230	90	290	e2190	2050	385	165	501	119
16	18	14	11	e1250	68	233	e1550	2090	300	171	590	102
17	18	14	9.9	e1200	59	245	e1260	2030	249	178	604	93
18	18	15	9.9	e1210	61	329	e1220	2030	296	168	561	88
19	16	14	9.8	e1480	301	320	e1220	2010	559	163	461	90
20	16	16	9.7	e1280	1110	252	e1210	1950	628	144	382	93
21	21	20	9.6	e1200	e2100	205	e1170	1970	637	140	272	94
22	41	22	160	e1130	e2200	173	e1130	1880	558	139	197	86
23	112	19	1000	e1050	e1900	162	e1140	e1770	454	e134	153	80
24	139	18	927	e1120	e1550	147	e1070	e1620	469	e129	148	76
25	80	21	852	e1070	e1090	128	e1170	e1510	645	e124	130	78
26	41	28	872	e1020	e1000	117	e1100	e1480	698	e119	107	89
27	25	29	874	e1000	e950	107	e1000	e1350	766	e114	88	99
28	17	40	874	e900	921	100	e1150	e1280	1050	e109	78	101
29	16	121	836	e860	---	231	e2150	e1230	810	e104	69	92
30	16	156	798	846	---	592	e2200	e1220	705	e99	87	91
31	16	---	747	779	---	673	---	e1230	---	e94	102	---
TOTAL	934	917	10794.9	34659	20926	14551	28623	56060	20728	8695	6907	3611
MEAN	30.1	30.6	348	1118	747	469	954	1808	691	280	223	120
MAX	139	156	1000	2200	2200	966	2200	2280	1230	609	604	257
MIN	16	13	9.6	676	59	100	136	1220	249	94	43	76
AC-FT	1850	1820	21410	68750	41510	28860	56770	111200	41110	17250	13700	7160
CAL YR 1990	TOTAL 125451.2		MEAN 344		MAX 2400		MIN 6.1		AC-FT 248800			
WTR YR 1991	TOTAL 207505.9		MEAN 568		MAX 2280		MIN 9.6		AC-FT 411400			

e Estimated.

MISSISSIPPI RIVER DELTA

07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE, LA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.12	1.92	3.12	7.30	8.06	8.32	7.06	14.21	---	6.86	3.24	3.38
2	2.10	1.86	2.74	7.88	7.64	8.05	6.11	12.96	---	6.15	3.23	3.65
3	2.10	1.84	3.00	11.39	6.84	8.57	4.76	12.69	---	6.40	3.23	3.32
4	2.10	1.88	5.87	9.56	5.45	8.85	3.91	12.77	---	5.29	3.22	3.09
5	2.06	1.92	5.73	9.19	7.58	9.01	3.49	13.52	---	5.99	3.22	2.98
6	2.03	1.96	4.59	9.26	8.42	9.01	3.33	14.47	---	6.86	3.21	3.47
7	1.98	2.04	3.96	9.27	8.38	8.81	3.25	13.33	---	6.51	3.21	4.22
8	2.05	2.11	4.41	9.28	8.25	8.40	3.28	14.53	---	5.98	2.83	3.97
9	2.11	2.09	4.31	9.25	7.96	7.99	4.45	16.75	---	5.91	2.45	3.52
10	2.10	2.21	3.60	13.12	7.50	7.45	4.91	16.11	---	6.28	2.64	3.34
11	2.07	2.54	3.05	15.07	6.46	6.26	5.66	14.99	10.45	5.56	3.75	3.20
12	2.04	2.58	2.72	12.60	5.12	5.08	10.85	14.39	6.44	4.75	5.99	3.01
13	2.02	2.36	2.53	11.68	4.22	4.89	9.36	14.03	6.12	4.08	6.30	3.02
14	2.01	2.18	2.41	11.46	3.71	4.79	10.03	13.78	5.65	3.70	6.07	3.20
15	2.00	2.05	2.08	11.55	3.42	4.47	15.23	13.93	5.20	3.50	6.08	3.10
16	1.99	2.01	1.76	11.62	3.23	4.04	12.94	14.15	4.55	3.55	6.73	2.93
17	1.98	2.01	1.73	11.38	3.14	4.13	11.61	13.77	4.16	3.60	6.82	2.84
18	1.97	2.03	1.73	11.41	3.17	4.77	11.43	13.83	4.52	3.53	6.52	2.79
19	1.94	2.01	1.73	12.64	5.09	4.70	11.43	13.66	6.50	3.48	5.78	2.81
20	1.94	2.06	1.72	11.78	9.72	4.18	11.32	13.47	6.98	3.32	5.18	2.84
21	2.04	2.15	1.72	11.39	13.85	3.81	11.15	13.87	7.04	3.29	4.33	2.85
22	2.37	2.18	3.12	11.10	14.33	3.56	10.90	13.34	6.50	3.28	3.75	2.77
23	3.05	2.13	9.18	10.73	13.68	3.47	10.96	---	5.73	3.27	3.40	2.71
24	3.28	2.10	8.80	11.06	10.83	3.35	10.53	---	5.84	3.25	3.36	2.68
25	2.78	2.17	8.37	10.82	9.94	3.18	11.11	---	7.10	3.24	3.20	2.69
26	2.38	2.27	8.48	10.29	9.55	3.09	10.68	---	7.44	3.25	3.01	2.80
27	2.12	2.30	8.50	9.89	9.18	3.01	10.08	---	7.91	3.24	2.84	2.90
28	1.96	2.42	8.50	9.48	8.77	2.95	10.98	---	9.60	3.24	2.75	2.92
29	1.92	3.13	8.27	9.07	---	4.00	16.39	---	8.12	3.24	2.68	2.83
30	1.92	3.43	8.05	8.89	---	6.72	16.75	---	7.48	3.24	2.84	2.83
31	1.92	---	7.74	8.49	---	7.28	---	---	---	3.24	2.97	---
MAX	3.28	3.43	9.18	15.07	14.33	9.01	16.75	---	---	6.86	6.82	4.22
MIN	1.92	1.84	1.72	7.30	3.14	2.95	3.25	---	---	3.24	2.45	2.68

07384400 STATE CANAL NEAR KROTZ SPRINGS, LA

LOCATION.--Lat 30°33'57", long 91°49'53", in SW 1/4 NW 1/4 sec.2, T.6 S., R.6 E., St. Landry Parish, Hydrologic Unit 08080101, on downstream side of bridge on U.S. Highway 71, 1.7 mi upstream from Slow Bayou, 2.0 mi northwest of the junction of U.S. Highways 71 and 190, and 5.0 mi northwest of town of Krotz Springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Annual peaks, water years 1960-67, October 1967 to current year (gage heights above 9.9 ft only).

GAGE.--Water-stage recorder. Datum of gage is 2.55 ft above National Geodetic Vertical Datum of 1929. Crest-stage gage prior to 1967 at datum 2.55 ft lower.

REMARKS.--No gage heights recorded below 9.99 ft (Nov. 21 to Dec. 2).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.64 ft, May 27, 1973; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.82 ft, May 11; minimum undetermined.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.04	11.44		12.90	17.19	16.31	13.18	17.00	16.58	13.86	---	12.13
2	11.01	11.46		13.07	17.09	16.26	13.11	17.05	16.45	13.80	---	12.34
3	10.97	11.48	11.27	14.93	16.95	16.16	13.04	17.09	16.30	13.89	---	12.47
4	11.02	11.51	12.51	15.30	16.81	16.04	12.95	17.14	16.13	13.71	---	12.45
5	11.08	11.55	12.75	15.27	16.82	15.92	12.84	17.16	15.95	13.65	---	12.62
6	11.06	11.56	12.68	15.23	16.77	15.80	12.76	17.15	15.74	13.66	---	12.87
7	11.04	11.57	12.72	15.29	16.68	15.66	12.69	17.13	15.60	13.81	---	13.05
8	11.04	11.56	12.66	15.21	16.54	15.47	12.64	17.32	15.38	13.98	---	13.06
9	11.04	11.66	12.57	15.06	16.38	15.34	12.62	17.61	15.19	14.21	11.84	12.95
10	11.06	11.67	12.48	15.73	16.19	15.26	12.61	17.75	15.06	14.33	11.82	12.84
11	11.03	11.66	12.42	16.57	15.98	15.18	12.65	17.81	14.95	14.31	11.95	12.68
12	11.02	11.64	12.33	16.75	15.76	15.10	12.89	17.81	14.88	14.13	12.29	12.52
13	11.01	11.60	12.22	16.80	15.56	15.01	13.23	17.80	14.76	13.91	12.60	12.38
14	11.00	11.52	12.12	16.82	15.34	14.91	13.88	17.75	14.64	13.69	12.63	12.28
15	11.01	11.40	12.02	16.87	15.13	14.81	15.48	17.75	14.45	13.52	12.57	12.22
16	11.02	11.22	11.94	16.89	14.90	14.74	15.95	17.74	14.30	13.60	12.52	12.18
17	11.02	10.96	11.87	16.84	14.70	14.76	16.06	17.66	14.12	13.56	12.47	12.13
18	11.03	10.71	11.80	16.78	14.52	14.68	16.13	17.57	14.11	13.39	12.40	12.08
19	11.01	10.47	11.71	16.80	14.55	14.58	16.22	17.46	14.06	13.21	12.31	12.01
20	11.00	10.18	11.65	16.78	15.27	14.45	16.26	17.36	13.92	13.06	12.22	11.92
21	11.07		11.61	16.76	15.89	14.31	16.26	17.31	13.75	12.93	12.14	11.83
22	11.21		11.62	16.72	16.32	14.16	16.23	17.21	13.61	12.81	12.09	11.78
23	11.20		11.65	16.69	16.45	13.98	16.14	17.11	13.50	12.72	12.01	11.74
24	11.18		11.77	16.79	16.48	13.79	16.04	17.09	13.50	12.63	11.95	12.25
25	11.18		12.45	16.87	16.48	13.62	16.03	17.05	13.77	12.59	11.88	12.91
26	11.23		13.20	16.88	16.46	13.47	16.03	17.07	14.04	12.50	11.81	13.02
27	11.28		13.51	16.88	16.41	13.34	16.06	17.01	14.35	12.44	11.76	12.90
28	11.32		13.53	16.85	16.35	13.22	16.10	16.90	14.41	12.38	11.72	12.75
29	11.36		13.24	16.88	---	13.25	16.56	16.79	14.20	12.30	11.68	12.59
30	11.39		13.03	17.20	---	13.28	16.91	16.75	14.00	12.23	11.69	12.45
31	11.42	---	12.91	17.24	---	13.24	---	16.72	---	---	11.89	---
MAX	11.42	---	---	17.24	17.19	16.31	16.91	17.81	16.58	---	---	13.06
MIN	10.97	---	---	12.90	14.52	13.22	12.61	16.72	13.50	---	---	11.74

MISSISSIPPI RIVER DELTA

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA

LOCATION.--Lat 30°31'59", long 91°51'23", in sec. 16, T .6 S., R. E., St. Landry Parish, Hydrologic Unit 08080101, 6.0 mi west of Krotz Springs, and 0.8 mi southeast of Courtableau.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1977 to current year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 1990												
17...	0730	442	7.93	23.0	10	22	<1	7.8	6.3	26	400	160
NOV												
29...	0845	538	8.08	18.0	5	14	<1	8.2	5.1	30	640	120
DEC												
18...	0840	350	7.82	16.0	30	40	<1	8.7	6.1	27	1800	K50
JAN 1991												
31...	0815	85	7.49	11.0	160	90	<1	7.4	4.9	48	K6800	4800
FEB												
26...	0830	90	7.21	13.0	120	70	<1	7.5	--	49	--	280
MAR												
26...	0800	238	8.18	20.0	60	35	<1	7.9	6.3	44	K150	K60
APR												
30...	0650	113	7.23	21.0	120	220	<1	4.0	7.9	160	>10000	K3200
MAY												
22...	0835	122	7.18	24.0	60	55	<1	3.4	9.5	59	1800	200
JUN												
20...	0715	137	7.27	26.0	80	100	<1	2.8	6.4	41	3100	290
JUL												
25...	0710	365	7.83	29.0	10	21	<1	7.9	--	39	460	210
AUG												
15...	0815	553	7.71	28.0	15	21	<1	7.5	7.2	31	K300	K80
SEP												
19...	0710	398	7.87	29.0	15	16	<1	5.7	3.3	32	K130	K40

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT.1990												
17...	150	37	13	27	3.6	122	51	28	31	0.01	0.68	0.30
NOV												
29...	210	50	20	32	4.1	208	25	34	32	0.02	0.11	0.89
DEC												
18...	130	32	11	16	3.6	101	34	20	56	0.05	1.1	0.41
JAN 1991												
31...	28	7.1	2.6	--	2.0	32	5.0	3.2	94	0.06	0.15	1.1
FEB												
26...	34	8.2	3.4	3.7	2.0	35	3.8	2.8	68	0.04	0.10	0.58
MAR												
26...	96	24	8.8	9.5	2.8	94	8.8	9.4	31	0.03	0.17	0.59
APR												
30...	41	10	4.0	<5.0	3.2	43	2.2	4.4	1160	0.10	0.72	1.5
MAY												
22...	51	13	4.5	<5.0	3.2	51	0.8	3.3	56	0.02	0.24	0.72
JUN												
20...	51	13	4.6	5.1	2.5	50	--	4.3	101	0.06	0.53	0.74
JUL												
25...	130	34	12	15	3.4	114	20	19	30	0.02	1.1	0.48
AUG												
15...	190	50	17	34	3.7	181	35	41	28	0.04	0.50	0.55
SEP												
19...	130	32	13	26	3.1	115	36	27	17	0.02	0.35	0.37

< Actual value is known to be less than the value shown.

> Actual value is known to be greater than the the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS. (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)
OCT 1990												
17...	<0.10	2	1	<10	<10	<1	<1	2	<1	3	3	<25
NOV												
29...	0.11	2	1	<10	<10	<1	<1	2	<1	2	2	130
DEC												
18...	0.13	2	1	<10	<10	<1	<1	3	<1	3	2	30
JAN 1991												
31...	0.25	3	1	<10	<10	<1	<1	6	<1	6	4	190
FEB												
26...	0.20	2	1	<10	<10	<1	<1	4	<1	4	3	1100
MAR												
26...	0.26	2	1	<10	<10	<1	<1	2	<1	4	3	140
APR												
30...	0.45	6	2	<10	<10	<1	<1	12	<1	12	2	250
MAY												
22...	0.35	6	4	<10	<10	<1	<1	4	<1	4	3	200
JUN												
20...	0.33	4	2	<10	<10	<1	<1	4	<1	8	4	160
JUL												
25...	0.08	5	4	<10	<10	<1	<1	4	<1	3	2	<25
AUG												
15...	0.12	3	2	<10	<10	<1	<1	4	<1	6	5	20
SEP												
19...	0.15	4	3	<10	<10	<1	<1	2	<1	4	4	10
DATE	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990												
17...	1	<1	<0.1	<0.1	2	1	<1	<1	2	20	10	6.2
NOV												
29...	1	<1	<0.1	<0.1	2	1	<1	<1	2	20	10	8.3
DEC												
18...	2	<1	<0.1	<0.1	3	1	<1	<1	2	30	10	7.5
JAN 1991												
31...	4	<1	<0.1	<0.1	5	1	<1	<1	1	30	<10	12
FEB												
26...	2	<1	<0.1	<0.1	4	2	<1	<1	2	20	20	13
MAR												
26...	2	<1	<0.1	<0.1	2	1	<1	<1	1	20	10	12
APR												
30...	8	<1	<0.1	<0.1	12	1	<1	<1	3	50	10	40
MAY												
22...	3	2	<0.1	<0.1	<1	<1	<1	<1	2	20	20	14
JUN												
20...	4	<1	<0.1	<0.1	6	2	<1	<1	3	30	10	12
JUL												
25...	1	<1	<0.1	<0.1	2	<1	<1	<1	3	20	<10	11
AUG												
15...	1	<1	<0.1	<0.1	2	2	<1	<1	3	20	10	6.2
SEP												
19...	<1	<1	<0.1	<0.1	<1	<1	1	<1	3	20	10	7.1

< Actual value is known to be less than the value shown.

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)
OCT 1990											
17...	<0.01	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV											
29...	<0.01	4	3	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.04
DEC											
18...	1.2	3	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
JAN 1991											
31...	1.2	3	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
FEB											
26...	<0.01	4	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR											
26...	<0.01	<1	5	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR											
30...	<0.01	5	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY											
22...	<0.01	25	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN											
20...	<0.01	2	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL											
25...	<0.01	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG											
15...	<0.01	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.18
SEP											
19...	<0.01	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DATE	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 1990											
17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV											
29...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC											
18...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 1991											
31...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB											
26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR											
26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR											
30...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
MAY											
22...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUN											
20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02
JUL											
25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
AUG											
15...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP											
19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

< Actual value is known to be less than the value shown.

303159091512300 BAYOU COURTABLEAU EAST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)
OCT 1990											
17...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.8	0.1
NOV											
29...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	29	5.0
DEC											
18...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.5	0.1
JAN 1991											
31...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	0.4	0.2	<0.1	0.7	<0.1
FEB											
26...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.3	<0.1
MAR											
26...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	--	<0.1	<0.1	17	1.6
APR											
30...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	2.0	0.4
MAY											
22...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.6	<0.2
JUN											
20...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.9	<0.2
JUL											
25...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	0.3	<0.1	<0.1	11	1.0
AUG											
15...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	6.4	0.7
SEP											
19...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	8.0	<0.1

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA

LOCATION.--Lat 30°31'59", long 91°51'27", in sec. 16, T. 6 S., R. 6 E., St. Landry Parish, Hydrologic Unit 08080101, 6.0 mi west of Krotz Springs, and 0.8 mi southeast of Courtableau.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1977 to current year.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	SETTLE- ABLE MATTER (ML/L/ HR)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 1990												
17...	0800	440	7.96	23.0	10	24	<1	7.6	4.4	24	1000	120
NOV												
29...	0915	548	8.08	18.0	5	17	<1	8.3	4.7	28	1200	100
DEC												
18...	0855	365	7.90	16.0	15	33	<1	9.2	4.2	19	3600	K180
JAN 1991												
31...	0830	83	7.00	11.0	120	90	<1	7.5	3.2	48	5700	4500
FEB												
26...	0850	90	7.19	13.0	120	70	<1	7.4	--	43	2200	260
MAR												
26...	0820	261	7.71	20.0	50	45	<1	8.2	3.9	32	K400	K60
APR												
30...	0710	113	7.23	21.0	120	210	<1	4.0	6.5	64	>10000	2400
MAY												
22...	0850	122	7.16	24.0	60	50	<1	3.5	4.0	41	1600	120
JUN												
20...	0735	137	7.36	26.0	80	100	<1	3.0	4.9	39	4200	290
JUL												
25...	0730	414	8.15	29.0	5	16	<1	8.5	5.3	27	220	K28
AUG												
15...	0830	551	7.69	28.0	15	20	<1	7.4	7.1	25	420	K60
SEP												
19...	0730	407	8.15	29.0	15	13	<1	7.6	3.1	22	210	52

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)
OCT 1990												
17...	140	37	12	28	3.6	118	49	30	31	0.02	0.67	0.30
NOV												
29...	210	50	20	32	4.1	218	23	35	37	0.02	0.13	0.89
DEC												
18...	140	35	12	16	3.4	102	39	20	52	0.04	1.2	0.41
JAN 1991												
31...	30	7.1	2.9	3.0	2.2	32	4.6	3.0	97	0.06	0.15	0.97
FEB												
26...	35	8.4	3.4	4.0	2.0	35	3.8	3.4	61	0.04	0.10	0.69
MAR												
26...	99	26	8.2	11	2.4	81	--	12	53	0.04	0.74	0.49
APR												
30...	41	10	4.0	<5.0	3.2	42	4.2	3.0	319	0.10	0.70	1.0
MAY												
22...	49	12	4.6	<5.0	3.0	50	<0.2	3.0	59	0.02	0.27	1.6
JUN												
20...	51	13	4.6	5.0	2.3	50	4.0	5.2	96	0.06	0.53	0.72
JUL												
25...	160	39	14	19	3.4	124	39	24	22	0.02	1.3	0.40
AUG												
15...	190	50	17	34	3.7	180	35	40	18	0.03	0.49	0.58
SEP												
19...	140	33	13	26	3.1	114	39	28	11	0.02	0.35	0.34

< Actual value is known to be less than the value shown.

> Actual value is known to be greater than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	PHOS- PHORUS TOTAL (MG/L AS P)	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS- SOLVED (µG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (µG/L AS BE)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOV- ERABLE (µG/L AS CD)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR)	CHRO- MIUM, HEXA- VALENT, DIS- (µG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)
OCT 1990												
17...	<0.10	2	1	<10	<10	<1	<1	2	<1	3	2	<25
NOV												
29...	0.13	2	1	<10	<10	<1	<1	2	<1	2	2	<25
DEC												
18...	0.08	2	<1	<10	<10	<1	<1	3	<1	4	2	40
JAN 1991												
31...	0.25	3	1	<10	<10	<1	<1	5	<1	9	3	140
FEB												
26...	0.19	2	<1	<10	<10	<1	<1	4	<1	5	3	270
MAR												
26...	0.16	2	<1	<10	<10	<1	<1	2	<1	4	--	140
APR												
30...	0.15	6	2	<10	<10	<1	<1	12	<1	11	3	230
MAY												
22...	0.31	5	4	<10	<10	<1	<1	3	<1	4	4	230
JUN												
20...	0.30	5	2	<10	<10	<1	<1	9	<1	8	5	140
JUL												
25...	0.06	3	2	<10	<10	<1	<1	<1	<1	3	2	<25
AUG												
15...	0.12	3	2	<10	<10	<1	<1	3	<1	4	4	20
SEP												
19...	0.10	3	2	<10	<10	<1	<1	3	<1	3	2	10

DATE	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)	MERCURY DIS- SOLVED (µG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990												
17...	1	<1	<0.1	<0.1	3	2	<1	<1	3	10	<10	6.3
NOV												
29...	2	<1	<0.1	<0.1	2	1	<1	<1	2	20	10	8.1
DEC												
18...	2	<1	<0.1	<0.1	3	2	<1	<1	2	10	10	6.1
JAN 1991												
31...	4	<1	<0.1	<0.1	5	1	<1	<1	<1	20	<10	12
FEB												
26...	2	<1	<0.1	<0.1	4	2	<1	<1	1	20	10	12
MAR												
26...	2	1	<0.1	<0.1	3	1	<1	<1	<1	20	10	8.4
APR												
30...	8	<1	<0.1	<0.1	13	2	<1	<1	3	50	10	18
MAY												
22...	3	3	<0.1	<0.1	<1	<1	<1	<1	2	20	20	13
JUN												
20...	5	2	<0.1	<0.1	5	2	<1	<1	2	20	10	12
JUL												
25...	1	<1	<0.1	<0.1	2	2	<1	<1	2	10	<10	7.3
AUG												
15...	1	<1	<0.1	<0.1	2	2	<1	<1	3	20	10	6.4
SEP												
19...	<1	<1	<0.1	<0.1	2	<1	1	<1	3	20	<10	6.3

< Actual value is known to be less than the value shown.

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	CYANIDE TOTAL (MG/L AS CN)	PHENOLS TOTAL (µG/L)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L)	PCB, TOTAL (µG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	ALDRIN, TOTAL (µG/L)	CHLOR- DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)	DDT, TOTAL (µG/L)	DI- AZINON, TOTAL (µG/L)
OCT 1990											
17...	<0.01	3	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV											
29...	<0.01	3	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
DEC											
18...	1.0	3	1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
JAN 1991											
31...	1.2	6	1	<0.1	<0.1	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
FEB											
26...	<0.01	2	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR											
26...	<0.01	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR											
30...	<0.01	4	2	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAY											
22...	<0.01	10	<1	<0.1	<0.1	<0.01	0.85	<0.01	0.07	0.09	<0.01
JUN											
20...	<0.01	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JUL											
25...	<0.01	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
AUG											
15...	<0.01	<1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP											
19...	<0.01	1	<1	<0.1	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DATE	DI- ELDRIN TOTAL (µG/L)	ENDO- SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR EPOXIDE TOTAL (µG/L)	LINDANE TOTAL (µG/L)	MALA- THION, TOTAL (µG/L)	METH- OXY- CHLOR, TOTAL (µG/L)	METHYL PARA- THION, TOTAL (µG/L)	METHYL TRI- THION, TOTAL (µG/L)
OCT 1990											
17...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
NOV											
29...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DEC											
18...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
JAN 1991											
31...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
FEB											
26...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MAR											
26...	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
APR											
30...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
MAY											
22...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.02	<0.01
JUN											
20...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
JUL											
25...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
AUG											
15...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SEP											
19...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01

< Actual value is known to be less than the value shown.

303159091512700 BAYOU COURTABLEAU WEST OF DRAINAGE STRUCTURE, AT COURTABLEAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	MIREX, TOTAL (µG/L)	PARA- THION, TOTAL (µG/L)	PER- THANE TOTAL (µG/L)	TOX- APHENE, TOTAL (µG/L)	TOTAL TRI- THION (µG/L)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (µG/L)
OCT 1990											
17...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	3.3	0.2
NOV											
29...	<0.01	<0.01	<0.01	<0.5	<0.01	0.4	<0.1	<0.1	<0.1	37	5.7
DEC											
18...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	3.1	0.2
JAN 1991											
31...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	0.9	<0.1
FEB											
26...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.3	<0.1
MAR											
26...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	0.8	<0.1	<0.1	2.8	0.1
APR											
30...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	0.2	<0.1	<0.1	1.4	0.2
MAY											
22...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.6	<0.2
JUN											
20...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	1.2	0.2
JUL											
25...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	11	0.8
AUG											
15...	<0.01	<0.01	<0.01	<0.5	<0.01	<0.1	<0.1	<0.1	<0.1	9.5	0.9
SEP											
19...	<0.01	<0.01	<0.01	<0.5	0.01	<0.1	<0.1	<0.1	<0.1	12	<0.1

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

07385500 BAYOU TECHE AT ARNAUDVILLE, LA

LOCATION.--Lat 30°23'50", long 91°55'50", at NW corner sec.63, T.7 S., R.5 E., Louisiana Meridian, St. Landry Parish, Hydrologic Unit 08080102, near center of span on downstream side of bridge on State Highway 31, at Arnaudville, and 270 ft upstream from Bayou Fusilier.

DRAINAGE AREA.--Approximately 1,530 mi². See REMARKS.

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 11, 1949, nonrecording gage. May 12, 1949 to May 11, 1960, water-stage recorder, May 26, 1960 to Aug. 15, 1961, nonrecording gage. All gages at same site and datum. Water-stage recorder for Bayou Teche at Robin (station 07385470) used as auxiliary gage for this station. Prior to Feb. 4, 1953, auxiliary nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. No gage height record at base gage: Dec. 3-4. Indefinite stage-discharge relationship: Jan. 19, May 20. Records fair. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages, considerable flow bypasses station by way of Bayou Courtableau at Weirs near Krotz Springs. There is controlled diversion to or from Red River and Old River overflow area through Bayou des Glaisses floodgates and to or from West Atchafalaya Floodway through Big Darbonne Bayou culvert and since April 1956 through Bayou Courtableau drainage structure. Since April 1952, floodflow is diverted from Bayou Rapides, drainage area, 76.1 mi², into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Teche-Vermilion freshwater diversion canal operational during the year anytime the flow in Bayou Courtableau does not bypass by away of the Courtableau Weirs near Krotz Springs. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--42 years, 868 ft³/s, 628,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s, May 24, 1953; maximum elevation, 24.27 ft, May 23, 1953; minimum discharge, 53 ft³/s, Aug. 12, 1965, minimum elevation, 6.78 ft, Oct. 28, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,220 ft³/s, Jan. 10, elevation, 19.43 ft; maximum elevation, 20.64 ft, May 11; minimum discharge, 117 ft³/s, Nov. 27, 28; elevation, 9.49 ft, Nov. 26, 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	1060	165	867	1370	1280	1130	1630	1560	1130	943	949
2	951	1060	292	895	1250	1280	1100	1530	1370	1060	941	959
3	887	1060	e910	1760	1160	1240	1070	1460	1250	1240	937	969
4	922	1060	e850	1720	1100	1210	1040	1470	1150	1090	934	973
5	985	1060	756	1520	1380	1180	1020	1460	1070	1030	928	991
6	1030	1060	717	1350	1530	1150	984	1440	1060	1130	943	1010
7	1060	1060	880	1350	1390	1110	946	1410	1130	1200	953	1070
8	1080	1060	875	1200	1270	1090	913	1790	1050	1200	945	1140
9	1080	1090	848	1070	1170	1070	950	1840	990	1160	939	1090
10	1080	1080	824	1750	1080	1050	995	1530	969	1140	938	1020
11	1070	1040	669	1620	995	1030	1020	1190	1060	1070	952	969
12	1080	914	565	1340	938	1050	1040	1200	1120	1060	962	936
13	1070	773	557	1420	895	1040	1150	1290	1110	1030	973	936
14	1070	625	604	1460	849	1030	1290	1400	1060	1010	981	940
15	1070	521	637	e1650	805	1020	1810	1700	1030	990	1020	936
16	1080	428	657	1750	823	1020	1740	1350	1030	984	1020	932
17	1070	348	659	1580	855	1050	1600	1440	1040	967	1000	923
18	1070	291	584	1470	861	1070	1580	1490	1300	951	992	912
19	1050	248	485	1590	966	1070	1490	1440	1250	934	979	894
20	1040	213	515	1510	1590	1060	1360	e1650	1140	920	965	885
21	1080	189	625	1410	1900	1040	1290	1850	1170	961	965	904
22	1120	175	728	1360	1850	1020	1260	1740	1120	968	967	922
23	1100	160	813	1330	1840	1000	1220	1640	1100	960	954	931
24	1100	145	1000	1440	1690	970	1180	1830	1150	954	943	944
25	1090	135	957	1480	1550	993	1140	1730	1410	942	933	947
26	1080	127	884	1370	1420	1020	1180	1590	1250	933	924	920
27	1080	120	811	1310	1350	1030	1210	1490	1310	929	918	904
28	1070	125	741	1270	1290	1030	1200	1460	1310	925	913	890
29	1070	120	854	1250	---	1040	1510	1500	1270	918	916	867
30	1070	130	928	1580	---	1090	1710	1510	1210	930	962	841
31	1060	---	919	1540	---	1130	---	1690	---	941	1030	---
TOTAL	32735	17477	22309	44212	35167	33463	37128	47740	35039	31657	29670	28504
MEAN	1056	583	720	1426	1256	1079	1238	1540	1168	1021	957	950
MAX	1120	1090	1000	1760	1900	1280	1810	1850	1560	1240	1030	1140
MIN	887	120	165	867	805	970	913	1190	969	918	913	841
AC-FT	64930	34670	44250	87690	69750	66370	73640	94690	69500	62790	58850	56540
CAL YR 1990	TOTAL 393697		MEAN 1079		MAX 2700		MIN 120		AC-FT 780900			
WTR YR 1991	TOTAL 395101		MEAN 1082		MAX 1900		MIN 120		AC-FT 783700			

e Estimated.

MISSISSIPPI RIVER DELTA

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07385500 BAYOU TECHE AT ARNAUDVILLE, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.76	13.88	9.98	13.79	15.75	15.10	14.46	16.52	16.29	14.64	13.91	13.97
2	13.25	13.88	10.82	13.88	15.27	15.10	14.33	16.13	15.56	14.37	13.91	14.01
3	12.98	13.88	---	17.15	14.93	14.94	14.21	15.85	15.08	15.05	13.90	14.05
4	13.13	13.87	---	17.01	14.71	14.81	14.10	15.87	14.68	14.48	13.88	14.07
5	13.41	13.90	13.24	16.27	15.75	14.69	13.98	15.84	14.35	14.24	13.86	14.15
6	13.62	13.90	13.10	15.65	16.30	14.54	13.85	15.74	14.31	14.65	13.92	14.24
7	13.75	13.90	13.85	15.66	15.81	14.36	13.69	15.64	14.59	14.90	13.97	14.49
8	13.80	13.90	13.83	15.08	15.34	14.31	13.54	17.23	14.27	14.93	13.94	14.73
9	13.85	14.02	13.71	14.61	14.99	14.22	13.70	18.97	14.02	14.75	13.92	14.54
10	13.84	14.00	13.60	17.14	14.64	14.12	13.90	20.09	13.94	14.69	13.91	14.25
11	13.81	13.81	12.93	19.75	14.32	14.05	14.00	20.54	14.33	14.41	13.97	14.05
12	13.83	13.30	12.45	19.70	14.10	14.12	14.10	20.10	14.56	14.36	14.02	13.91
13	13.83	12.68	12.41	19.17	13.92	14.10	14.55	19.46	14.52	14.27	14.06	13.91
14	13.83	12.04	12.63	18.41	13.71	14.05	15.12	18.75	14.31	14.15	14.10	13.93
15	13.84	11.55	12.78	17.71	13.52	14.00	17.26	18.96	14.22	14.08	14.25	13.92
16	13.85	11.09	12.87	17.09	13.60	13.98	16.98	19.34	14.18	14.06	14.27	13.89
17	13.85	10.67	12.88	16.51	13.74	14.13	16.39	18.96	14.22	13.99	14.19	13.86
18	13.85	10.35	12.54	16.10	13.77	14.21	16.34	18.85	15.30	13.93	14.15	13.81
19	13.77	10.09	12.06	16.54	14.18	14.23	15.97	18.27	15.07	13.86	14.10	13.73
20	13.72	9.89	12.21	16.24	16.55	14.17	15.44	17.76	14.66	13.79	14.04	13.69
21	13.91	9.76	12.73	15.86	17.63	14.08	15.15	17.44	14.77	13.97	14.04	13.77
22	14.07	9.71	13.19	15.69	17.89	14.02	14.98	16.99	14.56	14.00	14.05	13.85
23	13.98	9.64	13.56	15.57	17.36	13.92	14.85	16.60	14.49	13.98	13.99	13.89
24	13.99	9.56	14.36	15.99	16.77	13.79	14.66	17.36	14.68	13.95	13.94	13.95
25	13.97	9.53	14.18	16.12	16.19	13.89	14.53	16.97	15.72	13.90	13.90	13.96
26	13.93	9.50	13.87	15.74	15.68	14.01	14.66	16.41	15.12	13.86	13.86	13.84
27	13.91	9.49	13.54	15.50	15.36	14.04	14.81	16.04	15.32	13.84	13.84	13.77
28	13.90	9.57	13.24	15.34	15.14	14.02	14.76	15.93	15.32	13.83	13.81	13.71
29	13.89	9.56	13.74	15.27	---	14.09	16.01	16.05	15.16	13.80	13.83	13.61
30	13.88	9.69	14.06	16.51	---	14.31	16.84	16.10	14.95	13.86	14.02	13.50
31	13.88	---	14.02	16.34	---	14.46	---	16.82	---	13.90	14.30	---
MAX	14.07	14.02	---	19.75	17.89	15.10	17.26	20.54	16.29	15.05	14.30	14.73
MIN	12.98	9.49	---	13.79	13.52	13.79	13.54	15.64	13.94	13.79	13.81	13.50

MISSISSIPPI RIVER DELTA

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°04'15", long 91°49'45", on line between secs.8 and 17, T.11 S., R.6 E., St. Martin Parish, Hydrologic Unit 08080102, on right bank of concrete lock and dam, 3.5 mi south of St. Martinville, and 11 mi upstream from Loreauville Canal.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1959 to current year. Daily gage heights since July 1913 in reports of Corps of Engineers.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is mean low Gulf level or 0.78 ft below National Geodetic Vertical Datum of 1929. Water-stage recorder for Bayou Teche at Keystone Lock lower gage (station 07385702) used as auxiliary gage for this station.

REMARKS.--Records good. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages, considerable flow bypasses station by way of Bayou Courtableau at weirs near Krotz Springs. There is controlled diversion to or from Red River and Old River overflow area through Bayou des Glaisses floodgates and to or from West Atchafalaya Floodway through Big D'Arbonne Bayou Culvert and since April 1956 through Bayou Courtableau Drainage Structure. Since April 1952, floodflow is diverted from Bayou Rapides (drainage area, 76.1 mi²) into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Teche-Vermilion freshwater diversion operational during the year anytime the flow in Bayou Courtableau does not bypass by way of Courtableau weirs near Krotz Springs. Dependent upon its gradient, Bayou Fusilier interchanges flow between Bayou Teche and Vermilion River. Water from irrigation is diverted through Ruth Canal (Station 07386700) into Vermilion River. Crest of dam raised from 8.0 ft to 9.47 ft in June 1957.

AVERAGE DISCHARGE.--32 years, 494 ft³/s, 357,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s, Sept. 5, 1973, maximum gage height, 16.15 ft, Oct. 23, 1984; minimum discharge, no flow at times in 1962-64, 1972, and 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since July 1913, 24.30 ft, May 27, 1927; minimum, 0.75 ft, July 18, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,370 ft³/s, Jan. 11, gage height, 11.92 ft; minimum discharge, 33 ft³/s, Nov. 25, 27, gage height, 9.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	350	110	510	863	839	552	824	829	517	272	290
2	271	356	181	492	783	916	359	768	746	457	271	282
3	223	358	796	830	715	815	333	708	655	493	276	292
4	237	361	646	984	671	703	305	677	587	490	277	298
5	250	367	479	932	1250	661	288	763	523	472	275	334
6	274	349	435	852	981	652	266	673	479	729	282	382
7	298	356	777	841	881	624	244	636	486	878	296	407
8	329	349	573	758	797	601	232	1200	470	762	296	447
9	340	409	506	677	731	584	240	1440	425	596	283	417
10	330	375	481	1550	677	563	272	1570	412	570	277	377
11	313	347	418	1930	618	547	291	1540	495	514	292	341
12	319	298	338	1560	581	555	303	1470	532	462	321	320
13	304	226	308	1460	554	564	356	1380	515	440	311	298
14	289	184	321	1350	528	548	532	1270	490	407	306	292
15	292	332	342	1300	490	533	1070	1450	433	380	308	299
16	296	301	359	1130	471	552	884	1380	412	372	331	287
17	303	248	353	1010	485	688	805	1360	454	350	315	278
18	308	198	343	1010	501	599	1050	1400	840	326	310	266
19	300	162	280	1050	788	575	819	1230	707	310	299	264
20	307	138	254	955	1180	568	703	1160	575	302	288	247
21	394	113	304	888	1400	556	623	1120	683	310	285	249
22	441	103	478	830	1340	547	573	993	607	331	289	266
23	372	103	458	822	1170	550	544	973	560	333	284	275
24	356	73	513	956	1060	520	504	1260	591	319	277	280
25	346	60	541	919	962	517	469	1020	676	289	271	287
26	327	52	515	853	864	529	603	912	637	283	267	266
27	328	48	487	856	794	545	583	870	674	276	263	256
28	336	97	442	841	753	548	539	829	706	272	251	253
29	341	86	449	750	---	567	835	772	603	267	243	249
30	341	76	524	852	---	566	862	758	569	265	249	241
31	345	---	529	923	---	585	---	811	---	274	304	---
TOTAL	9825	6875	13540	30671	22888	18717	16039	33217	17371	13046	8869	9040
MEAN	317	229	437	989	817	604	535	1072	579	421	286	301
MAX	441	409	796	1930	1400	916	1070	1570	840	878	331	447
MIN	223	48	110	492	471	517	232	636	412	265	243	241
AC-FT	19490	13640	26860	60840	45400	37130	31810	65890	34460	25880	17590	17930
CAL YR 1990	TOTAL 191934		MEAN 526		MAX 1990		MIN 48		AC-FT 380700			
WTR YR 1991	TOTAL 200098		MEAN 548		MAX 1930		MIN 48		AC-FT 396900			

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.11	10.16	9.79	10.36	10.74	10.72	10.41	10.71	10.71	10.39	10.11	10.14
2	10.05	10.16	9.92	10.34	10.66	10.79	10.18	10.65	10.63	10.32	10.11	10.13
3	9.98	10.17	10.66	10.71	10.59	10.70	10.15	10.59	10.53	10.36	10.11	10.15
4	10.00	10.17	10.52	10.86	10.55	10.58	10.12	10.55	10.45	10.37	10.11	10.16
5	10.02	10.18	10.33	10.81	11.09	10.54	10.09	10.64	10.38	10.35	10.11	10.20
6	10.05	10.16	10.28	10.73	10.86	10.53	10.06	10.55	10.33	10.63	10.12	10.27
7	10.09	10.16	10.66	10.72	10.76	10.50	10.02	10.51	10.34	10.78	10.14	10.30
8	10.13	10.16	10.44	10.64	10.68	10.47	10.01	11.05	10.32	10.67	10.15	10.35
9	10.14	10.23	10.36	10.55	10.61	10.45	10.02	11.26	10.26	10.49	10.13	10.31
10	10.13	10.19	10.33	11.31	10.55	10.43	10.07	11.35	10.25	10.46	10.13	10.26
11	10.11	10.16	10.25	11.62	10.49	10.41	10.10	11.34	10.35	10.40	10.15	10.21
12	10.11	10.10	10.15	11.35	10.45	10.42	10.11	11.28	10.40	10.34	10.19	10.19
13	10.09	9.99	10.12	11.27	10.42	10.43	10.17	11.21	10.38	10.31	10.17	10.16
14	10.07	9.92	10.13	11.18	10.39	10.41	10.37	11.12	10.35	10.27	10.17	10.15
15	10.08	10.14	10.16	11.14	10.34	10.39	10.94	11.26	10.28	10.24	10.17	10.16
16	10.08	10.10	10.18	11.00	10.32	10.41	10.77	11.21	10.26	10.24	10.20	10.14
17	10.09	10.02	10.17	10.89	10.33	10.56	10.69	11.19	10.30	10.21	10.18	10.13
18	10.10	9.95	10.16	10.89	10.35	10.47	10.92	11.22	10.73	10.17	10.17	10.11
19	10.09	9.89	10.08	10.92	10.64	10.44	10.70	11.08	10.59	10.15	10.16	10.11
20	10.11	9.85	10.04	10.83	11.04	10.43	10.58	11.02	10.45	10.14	10.14	10.08
21	10.21	9.80	10.11	10.77	11.22	10.42	10.49	10.98	10.57	10.15	10.14	10.08
22	10.27	9.78	10.32	10.71	11.17	10.41	10.44	10.87	10.49	10.18	10.14	10.11
23	10.19	9.78	10.30	10.70	11.03	10.41	10.40	10.85	10.44	10.18	10.14	10.12
24	10.17	9.71	10.37	10.84	10.93	10.38	10.36	11.10	10.48	10.17	10.12	10.13
25	10.15	9.68	10.40	10.80	10.84	10.37	10.32	10.90	10.57	10.12	10.12	10.14
26	10.13	9.65	10.37	10.73	10.75	10.39	10.47	10.79	10.53	10.11	10.11	10.11
27	10.13	9.64	10.34	10.74	10.68	10.41	10.45	10.75	10.56	10.11	10.10	10.09
28	10.14	9.76	10.28	10.72	10.63	10.41	10.40	10.71	10.60	10.11	10.09	10.09
29	10.15	9.74	10.29	10.63	---	10.43	10.71	10.65	10.49	10.10	10.07	10.08
30	10.15	9.72	10.38	10.73	---	10.43	10.74	10.64	10.45	10.10	10.08	10.07
31	10.15	---	10.39	10.80	---	10.45	---	10.69	---	10.11	10.16	---
MAX	10.27	10.23	10.66	11.62	11.22	10.79	10.94	11.35	10.73	10.78	10.20	10.35
MIN	9.98	9.64	9.79	10.34	10.32	10.37	10.01	10.51	10.25	10.10	10.07	10.07

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-67, 1975 to current year.

REMARKS.--Location of sampling site was relocated approximately 2.2 miles upstream of lock and dam. The new location enables collection of more representative water sample.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: October 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 522 micromhos July 22, 1980; minimum daily, 39 micromhos May 19, 1980.

WATER TEMPERATURES: Maximum daily, 36.0 °C July 8, 1980; minimum daily, 3.5 °C Jan. 19, 1977.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990 17...	1200	303	450	7.58	22.5	10	14	6.8	0.3	92	110
JAN 1991 25...	1000	919	102	7.18	9.5	100	71	8.4	--	K2000	K3600
APR 24...	1030	504	126	6.85	23.0	100	60	3.2	2.5	240	330
JUL 11...	1530	514	128	6.97	29.0	80	61	4.1	2.7	280	330

DATE	HARD-NESS TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CAC03)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1990 17...	150	39	13	33	3.4	121	47	38	<0.1	7.4	253
JAN 1991 25...	33	8.0	3.1	7.1	2.5	34	4.5	8.1	<0.1	8.3	72
APR 24...	44	11	4.0	7.0	2.7	43	2.8	10	0.1	10	85
JUL 11...	39	9.6	3.7	8.4	2.0	41	3.5	8.8	0.1	10	86

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 1990 17...	257	<0.01	0.60	0.06	0.05	0.6	0.12	0.13	0.11	20	2
JAN 1991 25...	62	<0.01	0.10	0.09	0.10	0.8	0.23	0.14	0.14	310	1
APR 24...	76	0.02	0.22	0.17	0.08	1.0	0.36	0.17	0.14	150	4
JUL 11...	65	0.02	0.27	0.09	0.06	0.9	0.23	0.11	0.11	90	2

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

07385700 BAYOU TECHE AT KEYSTONE LOCK AND DAM, NEAR ST. MARTINVILLE, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990											
17...	80	<0.5	<1	<1	<3	3	6	<1	6	17	<0.1
JAN 1991											
25...	32	<0.5	<1	<1	<3	3	270	1	<4	33	<0.1
APR											
24...	41	<0.5	<1	<1	<3	<1	400	2	<4	100	<0.1
JUL											
11...	43	<0.5	<1	1	<3	4	290	<1	<4	83	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990										
17...	<10	2	<1	<1	200	<6	7	21	17	100
JAN 1991										
25...	<10	3	<1	<1	40	<6	5	72	179	100
APR										
24...	<10	7	<1	<1	55	<6	17	77	105	100
JUL										
11...	<10	4	<1	<1	48	<6	6	48	67	100

< Actual value is known to be less than the value shown.

MISSISSIPPI RIVER DELTA

295325091313000 BAYOU TECHE AT CHARENTON, LA

LOCATION.--Lat 29°53'25", long 91°31'30", T. 13 S., R. 9 E., St. Mary Parish, Hydrologic Unit 08080102, 0.5 mi north of Charenton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1975 to September 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, October 1980 to September 1984, June 1990 to September 1991.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 37.0 °C Aug. 3, 4, 7, 1983; minimum daily, 0.0 °C Jan. 20, 1983.

CHLORIDE: Maximum daily, 1,800 mg/L Sept. 23, 1984; minimum daily, 4.9 mg/L May 21, 25, 1991.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	14.0	14.0	---	17.5	24.5	27.0	29.0	32.0	28.5
2	---	---	---	13.0	13.5	---	18.0	26.0	28.0	29.0	32.0	29.0
3	---	---	---	13.0	17.0	---	22.0	26.0	28.0	29.5	27.5	28.0
4	---	---	---	12.0	16.0	---	21.0	26.5	28.0	31.0	29.0	28.5
5	---	---	---	16.0	17.0	---	22.0	25.0	29.0	29.0	30.0	27.0
6	---	---	---	15.0	16.5	---	22.0	25.0	---	28.0	29.5	27.0
7	---	---	---	13.0	17.0	---	23.0	23.0	28.0	26.0	29.5	26.5
8	---	---	---	12.0	16.5	---	22.0	23.5	27.0	26.0	28.0	27.0
9	---	---	---	13.0	15.0	---	22.0	22.0	27.0	25.0	28.0	28.0
10	---	---	---	15.0	16.5	---	25.0	24.0	29.0	25.0	29.0	28.0
11	---	---	---	14.0	17.0	---	25.0	23.0	27.0	27.0	27.0	27.0
12	---	---	---	15.0	17.5	---	26.0	25.0	28.0	28.0	27.0	28.0
13	---	---	---	13.0	17.0	---	22.5	27.0	27.0	28.5	28.0	28.0
14	---	---	---	14.0	12.5	---	23.0	24.5	26.0	30.0	27.5	29.0
15	---	---	---	15.0	15.0	---	25.0	26.0	26.5	27.0	27.0	30.0
16	---	---	---	15.0	14.0	---	---	24.5	29.0	28.0	28.5	29.0
17	---	---	---	14.0	13.5	---	23.0	25.5	29.0	30.0	27.5	30.0
18	---	---	---	14.0	15.0	---	23.0	26.0	28.0	28.0	29.0	28.0
19	---	---	---	15.0	---	---	23.0	25.0	28.0	30.0	29.0	29.0
20	---	---	---	12.0	---	---	23.0	26.0	28.0	30.0	29.0	24.5
21	---	---	---	11.0	---	---	23.0	25.0	28.0	29.0	30.0	23.5
22	---	---	---	12.0	---	---	23.0	25.0	29.0	27.0	30.0	27.0
23	---	---	---	11.0	---	---	22.0	25.5	29.0	29.0	29.0	27.0
24	---	---	---	11.0	---	---	21.0	26.0	30.0	30.0	29.0	26.0
25	---	---	---	10.0	---	---	23.0	25.0	27.0	30.0	28.5	26.0
26	---	---	---	11.0	---	---	24.0	27.0	26.5	29.0	29.0	24.0
27	---	---	---	9.0	---	---	24.0	28.0	28.0	31.0	28.0	23.0
28	---	---	---	11.5	---	21.0	24.0	26.0	27.0	31.0	27.0	24.0
29	---	---	---	13.5	---	20.0	24.0	27.0	29.0	30.5	28.0	25.0
30	---	---	---	12.0	---	20.0	21.0	28.0	28.0	30.0	28.0	25.0
31	---	---	---	12.5	---	17.0	---	27.0	---	30.0	28.5	---
MAX	---	---	---	16.0	---	---	26.0	28.0	29.0	31.0	32.0	30.0
MIN	---	---	---	9.0	---	---	17.5	22.0	26.0	25.0	27.0	23.0

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

295325091313000 BAYOU TECHE AT CHARENTON, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	24	5.8	---	10	9.2	5.1	8.8	22	32
2	---	---	---	24	8.3	---	12	9.8	5.6	9.2	23	32
3	---	---	---	20	9.1	---	12	8.3	5.2	9.9	24	31
4	---	---	---	20	9.2	---	12	8.9	5.7	9.8	25	26
5	---	---	---	13	9.5	---	12	9.0	6.4	9.1	24	26
6	---	---	---	14	8.5	---	13	9.0	5.9	11	21	28
7	---	---	---	31	10	---	12	9.0	5.8	8.0	21	25
8	---	---	---	20	6.6	---	15	7.5	6.4	7.8	20	24
9	---	---	---	48	7.3	---	16	6.5	6.1	7.1	22	20
10	---	---	---	17	7.2	---	13	7.0	7.2	7.2	21	18
11	---	---	---	16	8.8	---	14	6.5	6.8	6.6	14	21
12	---	---	---	17	8.2	---	13	6.7	7.6	6.3	15	24
13	---	---	---	14	10	---	19	5.3	6.8	6.9	14	24
14	---	---	---	12	9.4	---	14	6.2	7.9	7.1	18	24
15	---	---	---	33	10	---	14	5.3	6.2	7.4	21	24
16	---	---	---	40	16	---	---	5.8	7.9	7.5	27	21
17	---	---	---	7.2	17	---	17	5.1	8.0	7.1	26	20
18	---	---	---	8.2	16	---	14	6.3	9.4	7.6	24	22
19	---	---	---	8.0	---	---	15	5.1	7.9	10	19	21
20	---	---	---	7.3	---	---	13	5.1	10	14	16	22
21	---	---	---	7.4	---	---	13	4.9	8.7	14	18	31
22	---	---	---	8.6	---	---	11	5.0	7.5	17	18	30
23	---	---	---	6.3	---	---	11	7.9	7.9	15	15	22
24	---	---	---	8.6	---	---	12	6.3	10	15	28	22
25	---	---	---	9.1	---	---	12	4.9	10	11	25	32
26	---	---	---	7.9	---	---	8.9	5.6	9.8	12	26	24
27	---	---	---	7.5	---	---	10	5.7	10	14	30	28
28	---	---	---	7.0	---	30	11	5.6	11	14	30	27
29	---	---	---	7.6	---	15	10	6.3	9.9	12	30	30
30	---	---	---	7.2	---	11	11	5.9	11	14	32	36
31	---	---	---	8.4	---	12	---	5.9	---	14	32	---
MAX	---	---	---	48	---	---	19	9.8	11	17	32	36
MIN	---	---	---	6.3	---	---	8.9	4.9	5.1	6.3	14	18

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

07385790 CHARENTON DRAINAGE CANAL AT BALDWIN, LA

LOCATION.--Lat 29°49'23", long 91°32'30", T. 14 S., R. 9 E., St. Mary Parish, Hydrologic Unit 08080102, about 35 ft southwest of Southern Pacific Railroad bridge and 0.7 mi south of Baldwin.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1958-59, 1975 to September 1984, June 1990 to September 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1976 to November 1978, March 1980 to September 1984, June 1990 to September 1991.

CHLORIDE: October 1974 to November 1978, November 1979 to September 1984, June 1990 to September 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 36.0 °C July 11, 1980; minimum daily, 4.0 °C Jan. 19, 1977, Jan. 14, 1982 Dec. 30, 1983.

CHLORIDE: Maximum daily, 1,300 mg/L Dec. 9, 1980; minimum daily, 5.0 mg/L Apr. 27, 1980, May 20, 1991.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 32.0 °C Aug. 25-30; minimum daily, 9.0 °C Jan. 26, 27.

CHLORIDE: Maximum daily, 84 mg/L Dec. 17, 18; minimum daily, 5.0 mg/L May 20.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	24.0	12.0	11.0	15.0	18.0	21.0	26.0	29.0	30.0	30.0
2	---	---	20.0	12.0	11.0	15.0	18.0	22.0	24.0	29.0	30.0	30.0
3	---	---	17.0	15.0	11.0	15.0	20.0	23.0	24.0	28.0	30.0	30.0
4	---	---	13.0	12.0	13.0	15.0	20.0	24.0	26.0	28.0	31.0	30.0
5	---	---	12.0	11.0	14.0	15.0	20.0	24.0	26.0	28.0	31.0	29.0
6	---	---	13.0	12.0	15.0	15.0	20.0	24.0	26.0	25.0	31.0	29.0
7	---	---	13.0	13.0	15.0	17.0	20.0	23.0	26.0	27.0	30.0	28.0
8	---	---	11.0	14.0	15.0	18.0	20.0	23.0	24.0	25.0	30.0	28.0
9	---	---	11.0	13.0	15.0	17.0	20.0	22.0	26.0	27.0	30.0	29.0
10	---	---	11.0	12.0	15.0	17.0	21.0	21.0	26.0	27.0	31.0	29.0
11	---	---	11.0	13.0	15.0	16.0	24.0	22.0	28.0	26.0	31.0	29.0
12	---	---	13.0	13.0	15.0	15.0	20.0	23.0	27.0	27.0	29.0	29.0
13	---	---	14.0	13.0	15.0	15.0	20.0	24.0	26.0	27.0	29.0	30.0
14	---	---	14.0	12.0	15.0	17.0	20.0	24.0	26.0	28.0	29.0	30.0
15	---	---	15.0	11.0	15.0	16.0	20.0	23.0	26.0	29.0	---	30.0
16	---	---	15.0	12.0	12.0	17.0	23.0	23.0	26.0	28.0	30.0	30.0
17	---	---	17.0	12.0	13.0	17.0	23.0	24.0	28.0	29.0	30.0	30.0
18	---	---	18.0	13.0	14.0	17.0	23.0	---	27.0	31.0	30.0	30.0
19	---	---	15.0	11.0	15.0	16.0	23.0	24.0	26.0	30.0	30.0	30.0
20	---	---	15.0	11.0	15.0	16.0	23.0	24.0	28.0	30.0	30.0	25.0
21	---	---	16.0	11.0	15.0	18.0	23.0	24.0	28.0	30.0	30.0	25.0
22	---	---	18.0	10.0	15.0	18.0	23.0	24.0	29.0	31.0	30.0	26.0
23	---	---	16.0	10.0	15.0	19.0	22.0	24.0	29.0	31.0	30.0	27.0
24	---	---	11.0	10.0	15.0	19.0	21.0	24.0	28.0	30.0	30.0	28.0
25	---	---	10.0	10.0	15.0	19.0	23.0	25.0	28.0	30.0	32.0	26.0
26	---	---	10.0	9.0	14.0	22.0	24.0	25.0	28.0	30.0	32.0	25.0
27	---	---	10.0	9.0	14.0	18.0	24.0	25.0	28.0	30.0	32.0	24.0
28	---	---	12.0	11.0	14.0	20.0	24.0	25.0	28.0	30.5	32.0	25.0
29	---	---	13.0	11.0	---	21.0	24.0	25.0	27.0	30.0	32.0	25.0
30	---	---	13.0	12.0	---	19.0	21.0	26.0	27.0	30.0	32.0	25.0
31	---	---	13.0	12.0	---	19.0	---	26.0	---	30.0	30.0	---
MAX	---	---	24.0	15.0	15.0	22.0	24.0	26.0	29.0	31.0	32.0	30.0
MIN	---	---	10.0	9.0	11.0	15.0	18.0	21.0	24.0	25.0	29.0	24.0

07385790 CHARENTON DRAINAGE CANAL AT BALDWIN, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	40	25	15	8.6	16	9.6	13	8.0	17	32
2	---	---	41	22	7.4	9.4	12	9.6	5.9	24	26	32
3	---	---	42	20	7.9	9.5	12	18	16	10	26	34
4	---	---	43	21	8.0	10	14	10	13	10	26	32
5	---	---	40	23	9.2	7.7	12	9.7	6.9	7.7	26	29
6	---	---	33	22	13	12	12	9.4	6.3	7.9	26	30
7	---	---	39	22	10	7.8	12	8.9	8.2	8.3	27	30
8	---	---	33	22	8.3	9.1	12	6.8	6.6	7.9	23	19
9	---	---	40	20	6.1	9.7	14	6.5	7.1	6.8	25	18
10	---	---	29	17	7.9	11	15	7.0	7.2	6.9	28	19
11	---	---	29	12	6.9	12	12	6.8	9.0	6.9	28	18
12	---	---	36	18	9.4	12	17	6.0	10	6.8	17	21
13	---	---	41	18	20	14	18	6.3	6.9	6.3	19	22
14	---	---	32	13	14	9.9	17	7.6	7.4	6.5	21	29
15	---	---	38	11	11	13	17	6.0	7.5	7.0	29	23
16	---	---	38	8.8	11	12	14	8.2	7.3	7.8	28	23
17	---	---	84	80	10	8.9	14	5.8	8.1	7.0	18	23
18	---	---	84	7.1	11	10	14	5.2	9.6	9.1	20	22
19	---	---	28	7.9	17	18	14	5.3	9.0	15	19	22
20	---	---	56	7.5	15	32	15	5.0	8.0	17	19	21
21	---	---	29	7.4	11	12	13	5.4	8.3	19	20	42
22	---	---	40	7.3	9.4	19	17	5.5	9.1	18	30	42
23	---	---	25	6.6	10	14	11	5.3	9.4	19	28	42
24	---	---	26	52	10	14	11	6.0	9.8	18	29	46
25	---	---	25	7.8	9.6	13	12	5.2	9.9	16	30	28
26	---	---	33	10	8.6	12	12	6.1	10	17	30	23
27	---	---	28	8.7	8.5	24	13	7.4	9.4	17	31	24
28	---	---	26	8.0	12	25	16	5.6	9.4	11	34	76
29	---	---	26	8.0	---	15	13	5.9	9.1	11	34	76
30	---	---	28	8.5	---	12	11	5.8	9.4	14	32	78
31	---	---	27	8.4	---	23	---	5.8	---	12	34	---
MAX	---	---	84	80	20	32	18	18	16	24	34	78
MIN	---	---	25	6.6	6.1	7.7	11	5.0	5.9	6.3	17	18

07385800 BAYOU TECHE AT FRANKLIN, LA

LOCATION.--Lat 29°47'30", long 91°29'56", in sec.68, T.14 S., R.9 E., St. Helena Meridian, St. Mary Parish, Hydrologic Unit 08080102, on downstream side of bridge, 0.1 mi east of Willow Street and State Highway 182 intersection, at Franklin.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. No velocity record: Jan. 14 to Feb. 8. Discharge affected by tide and wind and with possible flow interchange between Charenton Canal and Wax Lake Outlet.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 2,180 ft³/s, June 28, 1989; maximum elevation, 4.19 ft, Oct. 29, 1985; maximum negative discharge, -1,750 ft³/s, Jan. 10, 1991; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge, 1,390 ft³/s, Apr. 26; maximum elevation, 3.83 ft, May 9, 15; maximum negative discharge recorded, -1,750 ft³/s, Jan. 10; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-149	-50	42	-425	---	-158	-299	-254	60	-120	-33	-147
2	-166	-79	-200	-304	---	-220	-300	-302	53	-142	-54	-134
3	-191	-166	-527	-305	---	-338	-209	-225	13	-159	-41	-125
4	-151	-216	-288	-414	---	-348	-178	-156	-113	-107	-13	-95
5	.95	-155	-252	-556	---	-277	-154	-71	-264	-167	-16	-120
6	-58	-126	-639	-518	---	-420	-199	-158	-195	24	-9.1	-113
7	-104	-114	-665	-502	---	-393	-104	-174	-5.4	-167	-6.5	-96
8	-105	-46	-273	-527	-281	-384	-142	-48	-62	-140	-42	-124
9	-70	-338	-108	-797	-261	-460	-201	-186	-21	-91	-23	-95
10	92	-114	-123	-1020	-299	-461	-232	-269	-8.3	-24	-5.5	-100
11	18	26	-63	-1000	-303	-468	-84	-249	-63	-59	18	-114
12	-11	-23	-129	-952	-366	-293	-65	-118	-157	-106	-67	-129
13	1.7	26	-125	-1090	-217	-352	-5.4	1.0	-253	-132	-77	-145
14	-46	-15	-221	---	-320	-440	34	98	-237	-109	-93	-136
15	-42	-21	-272	---	-380	-343	-23	175	-252	-122	-119	-132
16	-33	1.6	-508	---	-298	-72	-57	154	-259	-102	-106	-108
17	-179	20	-422	---	-274	-290	-64	109	-230	-104	-85	-94
18	-88	46	-430	---	-230	-375	11	115	-251	-141	-78	-144
19	11	-2.9	-331	---	-3.7	-254	-136	209	-276	-190	-56	-118
20	-108	5.5	-448	---	-259	-341	-280	126	-204	-163	-68	-81
21	-266	-30	-398	---	-104	-144	-196	49	-143	-174	-73	-161
22	-404	-67	-349	---	-380	-94	-72	95	-113	-180	-69	-161
23	-363	-141	-310	---	-432	-316	-167	333	-159	-159	-79	-159
24	-283	-17	-113	---	-202	-293	-244	379	-198	-105	-58	-146
25	-79	-69	-245	---	-179	-212	-40	157	-126	-109	-63	-126
26	-46	-192	-302	---	-282	-198	-134	152	-108	-77	-65	-107
27	-123	-191	-362	---	-176	-32	-129	104	-22	-47	-79	-128
28	-76	-196	-256	---	-266	-79	-147	144	-109	-55	-117	-182
29	-54	104	-240	---	---	-50	-105	127	-92	-59	-85	-189
30	-70	123	-256	---	---	-280	-415	175	-97	-40	-112	-193
31	-34	---	-322	---	---	-258	---	126	---	-47	-121	---
TOTAL	-3175.35	-2016.8	-9135	---	---	-8643	-4336.4	618.0	-3891.7	-3373	-1895.1	-3902
MEAN	-102	-67.2	-295	---	---	-279	-145	19.9	-130	-109	-61.1	-130

MISSISSIPPI RIVER DELTA

281

07385800 BAYOU TECHE AT FRANKLIN, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.78	1.88	1.68	1.39	2.19	2.07	1.36	3.16	3.19	1.91	1.12	1.84
2	1.86	2.02	1.80	1.50	2.26	2.17	1.50	3.06	2.99	1.82	1.47	1.92
3	2.35	2.16	2.62	1.46	2.12	1.95	1.74	3.05	2.77	1.72	1.51	2.02
4	2.16	2.39	1.70	1.29	2.08	1.52	1.81	3.04	2.54	1.76	1.55	2.12
5	1.56	1.99	1.49	1.65	2.39	1.71	1.74	3.02	2.26	1.92	1.55	2.29
6	1.84	1.83	1.65	1.64	2.29	1.82	1.72	2.67	2.11	2.51	1.44	2.28
7	1.97	1.84	1.57	1.47	2.09	1.66	1.83	2.53	2.28	2.62	1.62	2.22
8	1.94	1.65	1.04	1.30	1.85	1.58	2.01	3.12	2.45	2.55	1.62	2.02
9	2.06	2.54	1.12	1.47	1.72	1.44	1.93	3.63	2.53	2.46	1.70	1.91
10	.65	1.07	1.05	2.11	1.66	1.36	1.71	3.60	2.67	2.37	1.47	2.03
11	.72	1.18	1.02	2.57	1.51	1.65	1.84	3.46	2.80	2.22	1.18	2.00
12	1.03	1.35	1.59	2.25	1.52	1.69	2.11	3.37	2.84	2.11	1.01	2.09
13	1.03	1.10	1.38	2.12	1.79	1.68	2.37	3.35	2.80	1.92	.87	2.04
14	1.45	1.41	1.38	2.31	1.62	1.36	2.61	3.35	2.73	1.67	1.13	2.00
15	1.53	1.59	1.39	2.66	1.05	1.36	2.67	3.55	2.61	1.62	1.44	2.03
16	1.58	1.64	1.50	2.41	.96	1.74	2.66	3.62	2.44	1.36	1.41	1.92
17	1.79	1.54	1.61	2.27	1.67	2.27	2.60	3.56	2.29	1.24	1.59	1.72
18	1.43	1.69	1.78	2.32	1.65	2.01	2.79	3.58	2.25	1.42	1.52	1.80
19	1.13	1.90	1.55	2.39	1.93	1.96	2.72	3.62	2.15	1.57	1.23	1.55
20	1.88	1.80	1.78	2.26	1.89	2.14	2.45	3.60	2.00	1.56	1.13	.93
21	2.03	2.00	1.96	2.01	2.08	2.05	2.25	3.48	1.95	1.67	1.21	1.42
22	1.75	2.11	1.94	1.89	2.37	2.21	2.43	3.44	1.94	1.70	1.20	1.71
23	1.53	1.88	1.51	2.05	1.97	2.02	2.31	3.54	1.93	1.71	1.30	1.82
24	1.54	1.84	.51	2.28	1.98	1.68	2.14	3.70	1.90	1.60	1.32	1.89
25	.85	1.88	1.02	2.24	2.02	1.63	2.36	3.68	1.84	1.52	1.35	1.31
26	1.01	1.98	1.38	2.28	1.59	1.77	2.76	3.60	1.88	1.43	1.33	1.14
27	1.30	2.30	1.57	2.37	1.72	2.12	3.11	3.52	1.99	1.40	1.49	1.02
28	1.29	2.04	1.46	2.53	1.84	2.08	3.28	3.43	2.18	1.31	1.51	1.24
29	1.51	1.14	1.64	2.73	---	2.41	3.36	3.37	2.11	1.15	1.48	1.48
30	1.56	1.04	1.68	2.80	---	1.67	3.17	3.35	2.01	1.03	1.46	1.61
31	1.55	---	1.26	2.42	---	1.36	---	3.36	---	1.08	1.72	---
MAX	2.35	2.54	2.62	2.80	2.39	2.41	3.36	3.70	3.19	2.62	1.72	2.29
MIN	.65	1.04	.51	1.29	.96	1.36	1.36	2.53	1.84	1.03	.87	.93

MISSISSIPPI RIVER DELTA

07386200 BAYOU FUSILIER AT WEIR, AT ARNAUDVILLE, LA

LOCATION.--Lat 30°23'55", long 91°56'41", in center of N 1/2 sec.45, T.7 S., R.5 E., Louisiana Meridian, St. Landry Parish, Hydrologic Unit 08080103, on right bank 95 ft upstream from weir, 0.6 mi west of Arnaudville, and 0.9 mi downstream from point of diversion from Bayou Teche.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1980 to September 1982 (elevation only). October 1982 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 21-25. No gage-height record: Jan. 3-7, 10-19, Feb. 5-6, 20-25, Apr. 15-19, Apr. 30 - May 1, May 9-26, 31 (indefinite stage-discharge relationship). Records fair, except those above 660 ft³/s and indefinite stage-discharge relationship, which are poor. Bayou Fusilier is a distributary of Bayou Teche into the Vermilion River basin. For other diversions that occur in the Bayou Teche basin above this distributary, see Bayou Teche at Arnaudville (station 07385500). In extreme floods, reverse flow observed. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 21.97 ft, Oct. 31, 1985; minimum, 9.03 ft, Nov. 26, 27, 28, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 729 ft³/s, May 8; maximum daily reverse flow, -150 ft³/s, May 12; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310	276	11	263	484	405	331	e500	594	351	273	301
2	260	276	54	283	424	412	317	530	470	324	273	280
3	234	275	307	e100	385	391	305	481	408	402	272	288
4	247	275	295	e-50	359	375	295	481	361	342	271	290
5	262	277	222	e-100	e370	360	283	478	323	313	269	291
6	269	278	205	e100	e460	342	269	460	322	355	280	300
7	274	278	286	e250	510	322	255	448	362	386	282	329
8	276	277	273	416	435	316	241	729	318	402	278	369
9	277	289	257	355	394	307	254	e500	289	375	275	342
10	273	287	245	e400	353	297	273	e100	281	360	274	309
11	270	269	186	e50	318	289	284	e-100	329	327	280	289
12	270	222	150	e-50	294	295	293	e-150	352	321	286	276
13	271	171	148	e-70	275	294	339	e-70	345	311	291	278
14	272	124	165	e-100	256	290	399	e.00	320	299	293	278
15	272	94	176	e-50	238	285	e450	e50	309	292	308	276
16	273	67	183	e.00	246	283	e370	e.00	305	290	310	272
17	274	46	183	e250	259	299	e400	e.00	311	283	302	269
18	274	28	156	e350	260	306	e450	e-30	422	276	297	263
19	266	14	122	e500	322	308	e500	e-100	397	269	292	255
20	260	8.6	134	572	e-50	302	455	e-50	355	264	287	257
21	280	e6.0	171	499	e-90	293	412	e.00	374	284	286	265
22	297	e5.0	209	466	e-3.0	287	390	e100	346	285	287	271
23	287	e4.0	243	449	e.00	277	376	e200	337	281	283	273
24	287	e3.0	323	509	e50	264	354	e250	357	278	277	280
25	285	e2.0	303	539	e250	273	338	e300	497	273	274	279
26	281	1.8	271	474	478	285	353	e400	431	269	270	268
27	279	1.8	240	442	435	288	380	514	436	267	267	262
28	278	2.8	214	425	409	287	369	509	438	266	265	257
29	277	2.7	260	417	---	292	551	521	412	263	266	249
30	276	4.2	290	601	---	316	e450	553	386	268	271	241
31	276	---	286	585	---	330	---	e570	---	273	311	---
TOTAL	8487	3864.9	6568	8875.00	8121.00	9670	10736	8174.00	11187	9549	8750	8457
MEAN	274	129	212	286	290	312	358	264	373	308	282	282
CAL YR 1990	TOTAL 104223.90 MEAN 286											
WTR YR 1991	TOTAL 102438.90 MEAN 281											

e Estimated.

07386200 BAYOU FUSILIER AT WEIR, AT ARNAUDVILLE, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.02	13.12	9.51	13.00	14.82	14.23	13.62	15.71	15.58	13.79	13.09	13.35
2	12.56	13.12	10.29	13.14	14.38	14.28	13.50	15.15	14.72	13.56	13.09	13.16
3	12.30	13.12	13.28	16.61	14.08	14.12	13.39	14.81	14.26	14.20	13.09	13.23
4	12.44	13.11	13.29	16.50	13.85	13.99	13.30	14.81	13.88	13.71	13.07	13.25
5	12.70	13.13	12.58	15.70	15.04	13.87	13.18	14.78	13.55	13.46	13.05	13.27
6	12.89	13.14	12.40	14.99	15.69	13.72	13.06	14.65	13.54	13.83	13.16	13.34
7	13.01	13.14	13.20	15.01	15.01	13.54	12.91	14.56	13.88	14.07	13.18	13.60
8	13.06	13.14	13.10	14.31	14.46	13.49	12.77	16.37	13.51	14.20	13.14	13.94
9	13.10	13.25	12.93	13.82	14.14	13.41	12.90	18.41	13.24	13.99	13.11	13.72
10	13.09	13.22	12.82	16.56	13.81	13.31	13.10	19.63	13.17	13.87	13.10	13.42
11	13.06	13.05	12.18	19.30	13.50	13.24	13.20	20.14	13.60	13.58	13.16	13.24
12	13.07	12.57	11.75	19.27	13.29	13.30	13.28	19.68	13.80	13.54	13.21	13.12
13	13.08	12.01	11.72	18.72	13.11	13.29	13.69	19.01	13.74	13.45	13.26	13.14
14	13.08	11.40	11.93	17.93	12.93	13.25	14.15	18.28	13.52	13.33	13.28	13.14
15	13.09	10.95	12.06	17.19	12.75	13.21	16.66	18.47	13.43	13.27	13.42	13.12
16	13.09	10.51	12.14	16.51	12.83	13.19	16.45	18.89	13.39	13.25	13.44	13.09
17	13.10	10.17	12.15	15.81	12.96	13.33	15.75	18.49	13.44	13.18	13.36	13.05
18	13.10	9.87	11.82	15.27	12.96	13.40	15.68	18.36	14.36	13.12	13.32	13.00
19	13.02	9.61	11.38	15.83	13.50	13.42	15.28	17.76	14.17	13.06	13.27	12.92
20	12.97	9.45	11.53	15.43	16.14	13.37	14.61	17.19	13.82	13.00	13.22	12.93
21	13.15	---	12.01	14.93	17.21	13.28	14.28	16.80	13.98	13.19	13.21	13.01
22	13.31	---	12.44	14.69	17.42	13.22	14.11	16.25	13.75	13.20	13.23	13.07
23	13.22	---	12.80	14.57	16.83	13.13	14.00	15.74	13.67	13.17	13.19	13.10
24	13.23	---	13.55	15.00	16.12	13.01	13.81	16.63	13.82	13.14	13.13	13.16
25	13.21	---	13.37	15.21	15.39	13.09	13.68	16.18	14.92	13.09	13.10	13.15
26	13.17	9.03	13.07	14.75	14.78	13.20	13.81	15.49	14.43	13.05	13.06	13.04
27	13.15	9.03	12.77	14.52	14.47	13.23	14.03	15.04	14.47	13.03	13.04	12.99
28	13.14	9.13	12.50	14.38	14.26	13.22	13.94	15.00	14.48	13.03	13.02	12.94
29	13.13	9.12	12.96	14.32	---	13.27	15.26	15.09	14.29	13.00	13.02	12.86
30	13.12	9.23	13.25	15.62	---	13.48	16.16	15.29	14.08	13.04	13.07	12.77
31	13.12	---	13.22	15.52	---	13.61	---	16.29	---	13.09	13.44	---
MAX	13.31	---	13.55	19.30	17.42	14.28	16.66	20.14	15.58	14.20	13.44	13.94
MIN	12.30	---	9.51	13.00	12.75	13.01	12.77	14.56	13.17	13.00	13.02	12.77

07386700 RUTH CANAL NEAR RUTH. LA

LOCATION.--Lat 30°14'35", long 91°53'05", in NE 1/4 NW 1/4 sec.95, T.9 S., R.6 E., St. Martin Parish, Hydrologic Unit 08080103, near center of span on downstream side of bridge on State Highway 31, 1,200 ft above control structure, 1,500 ft downstream from point of diversion from Bayou Teche, 0.4 mi northwest of Ruth, and 2.2 mi south of town of Breaux Bridge.

PERIOD OF RECORD.--August 1959 to current year. Elevations only May 1945 to June 1946 (fragmentary), January 1947 to September 1960 in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Auxiliary water-stage recorder 150 ft below control structure at same datum. Since July 12, 1973, water-stage recorder for Ruth Canal at Ruth (station 07386705) used as auxiliary gage for this station. Nov. 4, 1965 to July 11, 1973, auxiliary nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Total flow through control structure diverted from Bayou Teche for irrigation. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 802 ft³/s, Apr. 21, 1966; maximum daily reverse flow, -38 ft³/s, July 28, 1989 (backwater from Vermilion River); minimum daily (unaffected by backwater), 0.03 ft³/s, June 1, 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	372	369	173	179	137	132	171	298	216	301	363	356
2	370	365	175	177	136	131	257	290	208	306	362	356
3	355	361	160	158	139	129	365	289	206	313	363	353
4	354	358	144	156	147	131	361	294	213	312	363	349
5	363	359	151	153	146	139	360	304	224	299	362	324
6	365	364	160	150	132	147	359	307	243	319	352	317
7	366	363	152	143	127	153	359	319	260	316	348	325
8	366	363	148	144	126	160	354	314	267	274	349	314
9	365	357	157	147	130	166	354	310	279	251	355	317
10	366	358	167	144	135	172	359	308	283	251	359	317
11	372	361	170	147	142	174	360	287	273	262	360	328
12	371	353	169	135	149	175	358	263	281	275	346	335
13	371	347	170	124	156	177	359	243	287	289	343	343
14	370	277	173	116	160	182	355	224	288	304	349	349
15	367	180	174	111	166	183	318	232	302	317	357	353
16	367	179	174	103	173	178	325	225	319	317	350	354
17	366	179	173	98	171	165	316	215	336	329	361	355
18	365	178	169	99	172	165	313	220	333	340	362	356
19	368	173	171	103	168	171	282	190	314	344	364	355
20	365	173	169	101	140	172	265	175	306	347	365	357
21	367	171	169	101	145	173	265	172	306	342	365	359
22	351	169	170	105	140	172	274	162	289	342	365	358
23	358	170	171	111	130	174	287	169	284	348	365	358
24	366	173	180	120	124	178	301	213	287	354	364	358
25	369	172	183	122	120	180	312	180	295	359	363	358
26	372	169	177	122	118	179	308	164	279	358	363	360
27	371	163	174	126	120	176	289	166	284	358	363	360
28	369	162	174	128	125	177	287	172	294	358	361	360
29	371	171	175	132	---	174	298	186	284	359	360	356
30	369	176	176	136	---	181	304	196	291	361	361	354
31	369	---	180	138	---	184	---	214	---	362	362	---
TOTAL	11356	7713	5228	4029	3974	5150	9475	7301	8331	9967	11125	10394
MEAN	366	257	169	130	142	166	316	236	278	322	359	346
MAX	372	369	183	179	173	184	365	319	336	362	365	360
MIN	351	162	144	98	118	129	171	162	206	251	343	314
AC-FT	22520	15300	10370	7990	7880	10220	18790	14480	16520	19770	22070	20620
CAL YR 1990	TOTAL 99188		MEAN 272	MAX 415	MIN 87	AC-FT 196700						

MISSISSIPPI RIVER DELTA

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07386700 RUTH CANAL NEAR RUTH, LA--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.31	9.19	9.10	10.05	11.11	10.96	10.06	10.89	11.09	9.96	9.10	9.23
2	9.18	9.19	9.30	10.01	10.87	10.97	9.40	10.72	10.80	9.80	9.12	9.19
3	9.08	9.19	10.73	11.09	10.68	10.84	9.36	10.57	10.53	9.95	9.14	9.22
4	9.07	9.20	10.37	11.45	10.55	10.66	9.34	10.47	10.31	9.90	9.14	9.25
5	9.10	9.19	10.00	11.26	11.73	10.61	9.26	10.53	10.10	9.85	9.13	9.39
6	9.16	9.15	9.89	11.04	11.40	10.53	9.20	10.41	9.97	10.31	9.20	9.47
7	9.22	9.14	10.62	10.99	11.15	10.42	9.16	10.31	10.01	10.63	9.29	9.68
8	9.26	9.12	10.25	10.75	10.91	10.34	9.12	11.50	9.92	10.57	9.27	9.80
9	9.27	9.29	10.09	10.53	10.73	10.30	9.08	12.47	9.76	10.25	9.22	9.71
10	9.20	9.17	10.02	12.13	10.58	10.27	9.13	13.03	9.73	10.18	9.18	9.56
11	9.16	9.06	9.84	13.45	10.42	10.26	9.19	13.20	9.95	10.04	9.23	9.42
12	9.17	8.88	9.65	13.04	10.31	10.27	9.27	13.02	10.04	9.90	9.35	9.34
13	9.17	8.62	9.57	12.82	10.24	10.25	9.43	12.77	10.01	9.81	9.34	9.27
14	9.16	8.98	9.61	12.51	10.13	10.22	9.60	12.44	9.91	9.70	9.31	9.25
15	9.15	9.62	9.66	12.28	10.02	10.19	11.32	12.63	9.77	9.61	9.30	9.24
16	9.16	9.51	9.69	11.89	10.02	10.22	11.10	12.75	9.68	9.59	9.37	9.20
17	9.18	9.38	9.73	11.56	10.11	10.47	10.88	12.63	9.92	9.49	9.34	9.17
18	9.15	9.29	9.65	11.42	10.14	10.32	11.29	12.73	10.75	9.41	9.31	9.12
19	9.13	9.21	9.48	11.59	10.60	10.30	10.93	12.32	10.44	9.34	9.26	9.10
20	9.17	9.14	9.47	11.39	11.56	10.29	10.59	12.07	10.21	9.29	9.21	9.06
21	9.42	9.09	9.66	11.17	12.31	10.27	10.37	11.91	10.45	9.32	9.20	9.07
22	9.49	9.07	10.04	11.04	12.35	10.27	10.22	11.63	10.22	9.37	9.19	9.11
23	9.32	9.04	9.93	10.98	11.97	10.19	10.08	11.54	10.22	9.35	9.17	9.13
24	9.25	8.99	10.11	11.22	11.67	10.13	9.93	12.16	10.20	9.28	9.15	9.15
25	9.18	8.97	10.18	11.27	11.39	10.13	9.79	11.67	10.52	9.21	9.12	9.16
26	9.13	8.98	10.09	11.09	11.11	10.19	10.03	11.35	10.36	9.17	9.10	9.08
27	9.15	8.99	10.00	11.01	10.93	10.25	10.17	11.14	10.34	9.16	9.10	9.04
28	9.17	9.04	9.88	10.98	10.81	10.24	10.06	11.04	10.45	9.13	9.08	9.03
29	9.17	8.97	9.96	10.79	---	10.26	10.51	10.97	10.25	9.08	9.06	9.01
30	9.18	9.00	10.13	11.16	---	10.27	10.97	10.93	10.14	9.08	9.08	8.98
31	9.18	---	10.10	11.29	---	10.32	---	11.13	---	9.09	9.26	---
MAX	9.49	9.62	10.73	13.45	12.35	10.97	11.32	13.20	11.09	10.63	9.37	9.80
MIN	9.07	8.62	9.10	10.01	10.02	10.13	9.08	10.31	9.68	9.08	9.06	8.98

MISSISSIPPI RIVER DELTA

07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA

LOCATION.--Lat 30°13'02", long 91°59'34", on line between secs.76 and 142, T.9 S., R.5 E., Lafayette Parish, Hydrologic Unit 08080103, at bridge on Surrey Street at Lafayette, 0.6 mi north of Lafayette Airport, and 1.4 mi upstream from Coulee des Poches.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1967 to current year.

GAGE.--Water-stage recorders and electromagnetic flowmeter. Datum of gage is 2.07 ft below mean low Gulf level or 2.85 ft below National Geodetic Vertical Datum of 1929. Prior to 1982, datum of gage was 1.53 ft below mean low Gulf or 2.31 ft below National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1985, water-stage recorder for Vermilion River at State Highway 3073, near Lafayette (station 07386935) used as auxiliary gage for this station.

REMARKS.--Records poor. No gage-height record: Mar. 29 to Apr. 1, Apr. 25 to May 3, July 5-8, Aug. 29 to Sept. 18. No velocity record: Nov. 22, Mar. 29 to Apr. 1, Apr. 25 to May 3, June 23 to Aug. 12, Aug. 29 to Sept. 18. Discharges are affected by tide at all stages; diversions above and below station for irrigation. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,280 ft³/s, July 17, 1989; maximum gage height 15.02 ft, May 17, 1980; maximum negative discharge, -5.480 ft³/s, July 14, 1989; minimum gage height 0.79 ft, Nov. 20, 1969; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum positive daily discharge, 2,750 ft³/s, May 14; maximum negative daily discharge, -1,560 ft³/s, Jan. 10; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	497	380	-143	191	1060	1680	---	---	1370	---	---	---
2	417	353	-95	160	1100	1620	604	---	1260	---	---	---
3	216	347	342	1070	1220	1520	621	---	1120	---	---	---
4	386	320	1210	1340	1320	1760	628	1270	1020	---	---	---
5	529	471	908	1210	-330	1730	643	1200	941	---	---	---
6	494	424	606	1060	1410	1550	553	1260	815	---	---	---
7	519	397	678	1160	1780	1410	480	1190	810	---	---	---
8	516	404	1390	1380	1820	1270	414	-1080	804	---	---	---
9	495	293	1150	1230	1640	1120	441	-1040	648	---	---	---
10	693	614	749	-1560	1540	1010	465	332	161	---	---	---
11	482	481	516	-1270	1370	861	397	1760	180	---	---	---
12	400	381	287	1770	1210	736	346	2410	429	---	---	---
13	482	353	244	2340	943	672	344	2220	438	---	1030	---
14	433	187	171	2500	854	658	-14	2750	516	---	1030	---
15	421	-35	173	2270	760	511	85	553	648	---	834	---
16	429	-45	139	2480	592	333	1610	1800	649	---	877	---
17	397	-29	135	2480	393	583	1680	2190	429	---	799	---
18	458	-116	147	1830	338	977	1070	2050	149	---	762	---
19	475	-108	183	1530	73	855	1700	2040	617	---	702	581
20	364	-91	52	2120	24	648	1770	1790	832	---	664	740
21	306	-173	94	2210	144	539	1730	1640	1420	---	650	655
22	688	---	236	2210	1350	452	1570	1540	1150	---	621	625
23	736	-107	419	1980	2000	572	1400	1280	---	---	611	557
24	575	-107	400	1590	2040	508	1330	1280	---	---	598	603
25	563	-130	326	1740	1960	346	---	1570	---	---	583	689
26	459	-189	283	1640	1960	354	---	2280	---	---	549	659
27	419	-221	213	1270	1910	333	---	2030	---	---	521	608
28	450	35	224	1430	1830	402	---	1750	---	---	485	595
29	393	159	169	1430	---	---	---	1740	---	---	---	546
30	411	-62	229	1280	---	---	---	1490	---	---	---	512
31	425	---	291	1460	---	---	---	1370	---	---	---	---
TOTAL	14528	---	11726	43531	32311	---	---	---	---	---	---	---
MEAN	469	---	378	1404	1154	---	---	---	---	---	---	---

07386880 VERMILION RIVER AT SURREY STREET, AT LAFAYETTE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.03	5.12	4.19	4.24	8.67	8.81	---	---	10.65	8.15	4.83	---
2	5.10	5.39	4.29	4.56	8.45	8.91	4.99	---	10.45	7.86	5.01	---
3	5.56	5.58	7.14	7.04	8.08	8.98	5.51	---	10.20	7.82	5.07	---
4	5.45	5.79	7.23	7.41	7.56	8.43	5.63	8.90	9.88	7.78	5.05	---
5	5.07	5.47	6.46	7.45	9.67	8.01	5.44	8.85	9.50	---	5.12	---
6	5.21	5.18	5.85	7.70	9.59	7.61	5.37	8.56	9.11	---	5.57	---
7	5.38	5.27	7.33	8.12	9.38	7.00	5.40	8.18	9.01	---	5.90	---
8	5.39	5.16	6.96	7.81	9.16	6.45	5.61	10.75	8.77	---	5.88	---
9	5.51	6.00	6.23	7.46	8.82	5.89	5.39	11.93	8.44	9.63	5.70	---
10	4.81	5.27	5.47	10.95	8.35	5.34	5.20	12.11	8.63	9.37	5.39	---
11	4.28	4.84	4.85	12.42	7.77	5.22	5.41	12.11	9.09	8.97	5.54	---
12	4.62	4.93	4.84	11.62	7.19	5.19	5.85	11.99	8.88	8.57	6.20	---
13	4.57	4.52	4.48	11.42	6.75	4.96	6.14	11.91	8.72	8.17	6.17	---
14	4.80	4.46	4.12	11.29	6.20	4.35	6.97	11.83	8.47	7.72	5.87	---
15	5.02	4.28	4.19	11.35	5.50	4.25	9.88	12.48	8.02	7.29	5.74	---
16	5.03	4.20	4.24	11.22	4.93	5.06	8.96	12.65	7.56	7.21	5.67	---
17	5.19	3.94	4.49	11.01	5.44	6.52	8.96	12.47	7.45	6.75	5.69	---
18	5.06	3.98	4.79	10.97	5.27	6.11	9.64	12.38	8.67	6.37	5.51	---
19	4.57	4.42	4.16	11.20	6.37	5.58	9.63	12.23	8.54	6.22	5.29	5.56
20	5.24	4.29	4.58	10.85	9.54	5.58	9.50	12.11	8.42	6.04	5.09	5.09
21	5.76	4.69	4.96	10.56	9.96	5.52	9.26	12.00	8.51	6.15	5.12	5.12
22	6.26	4.80	5.33	10.25	10.01	5.70	8.98	11.83	8.66	6.27	5.00	5.31
23	5.72	4.43	4.87	9.96	9.83	5.32	8.63	11.78	8.74	6.07	5.00	5.39
24	5.42	4.01	3.74	9.95	9.75	4.65	8.17	12.01	8.65	5.70	5.03	5.47
25	4.85	4.21	3.84	9.85	9.67	4.51	---	11.83	9.08	5.45	4.96	5.33
26	4.52	4.49	4.54	9.60	9.48	4.86	---	11.61	9.07	5.32	4.91	4.87
27	4.82	5.10	4.88	9.39	9.22	5.33	---	11.39	8.89	5.28	4.97	4.90
28	4.83	5.09	4.57	9.30	8.89	5.12	---	11.27	9.09	5.14	4.98	4.91
29	4.86	3.93	4.74	8.87	---	---	---	11.02	9.05	4.92	---	5.13
30	5.01	3.16	4.76	8.99	---	---	---	10.87	8.59	4.78	---	5.22
31	4.98	---	4.10	8.86	---	---	---	10.83	---	4.81	---	---
MAX	6.26	6.00	7.33	12.42	10.01	---	---	---	10.65	---	---	---
MIN	4.28	3.16	3.74	4.24	4.93	---	---	---	7.45	---	---	---

MISSISSIPPI RIVER DELTA

07386980 VERMILION RIVER AT PERRY, LA

LOCATION.--Lat 29°57'04", long 92°09'22", on line between secs.60 and 61, T.12 S., R.3 E., Vermilion Parish, Hydrologic Unit 08080103, at bridge on State Highway 82 at Perry, 2.0 mi south of Abbeville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1978 to September 1984 (gage heights only) October 1984 to current year. Unpublished gage-height records, August 1960 to September 1978, available in files of the Louisiana District Office, Baton Rouge, La.

REVISED RECORDS.--WDR LA 80-3: 1979.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 3.34 ft below National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Highways). Prior to 1982 datum of gage 2.95 ft below National Geodetic Vertical of 1929.

REMARKS.--No estimated daily discharges. Records poor. No velocity records: May 9-10, June 4-12, July 3 to Sept. 30. No gage-height records: June 4-12, July 3 to Aug. 11, Sept. 23-30. Discharge affected by tide at all stages. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 15,800 ft³/s, Oct. 28, 1985; maximum gage height recorded, 12.06 ft, May 31, 1979; maximum negative discharge recorded, -2,800 ft³/s, Aug. 15, 1985; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,690 ft³/s, Feb. 21; maximum negative daily discharge, -499 ft³/s, Nov. 30; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	-149	-370	-1.8	825	1200	-167	641	169	-7.0	---	---
2	-107	-93	-110	-8.3	709	1230	-262	547	121	-64	---	---
3	.58	-145	791	778	727	1890	-169	475	-15	---	---	---
4	395	-49	1450	620	873	994	85	248	---	---	---	---
5	275	570	243	598	910	638	28	520	---	---	---	---
6	249	-3.4	276	861	220	688	-105	745	---	---	---	---
7	91	194	804	428	1310	610	-240	502	---	---	---	---
8	75	-25	608	496	733	971	83	2670	---	---	---	---
9	248	547	314	669	1490	959	68	---	---	---	---	---
10	767	586	177	1360	1140	380	-36	---	---	---	---	---
11	-87	-.47	14	-44	968	327	-224	396	---	---	---	---
12	263	261	-19	193	787	200	-230	245	---	---	---	---
13	116	16	41	8.9	570	370	-328	303	1430	---	---	---
14	-78	-9.6	-103	-133	789	377	16	73	281	---	---	---
15	39	-104	-117	13	830	-237	1810	1140	120	---	---	---
16	-74	-78	-107	114	-243	-327	557	1110	32	---	---	---
17	-47	13	-133	1610	-8.7	540	419	959	259	---	---	---
18	317	-484	76	2560	87	526	652	774	989	---	---	---
19	-98	-165	-136	3110	1030	105	616	614	523	---	---	---
20	-110	-197	-179	2210	3520	-106	667	523	341	---	---	---
21	55	-335	-156	2120	3690	-143	596	824	193	---	---	---
22	768	-130	273	1100	3110	-67	398	780	250	---	---	---
23	166	176	464	692	2180	232	628	548	122	---	---	---
24	308	-309	---	186	1800	-76	284	520	296	---	---	---
25	435	-299	-299	176	1680	-205	110	381	809	---	---	---
26	-86	-447	-86	-53	1900	-207	1440	169	525	---	---	---
27	-17	-455	116	405	1410	-186	892	182	549	---	---	---
28	-79	284	18	994	1180	-330	371	302	881	---	---	---
29	-181	222	-22	883	---	149	1210	211	558	---	---	---
30	130	-499	294	1200	---	7.5	1090	258	110	---	---	---
31	56	---	204	907	---	12	---	254	---	---	---	---
TOTAL	3803.58	-1107.47	---	24051.8	34216.3	10521.5	10259	---	---	---	---	---
MEAN	123	-36.9	---	776	1222	339	342	---	---	---	---	---

07386980 VERMILION RIVER AT PERRY, LA--Continued

GAGE HEIGHT, FEET ABOVE DATUM, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.81	4.95	4.98	1.39	4.69	5.78	3.92	5.97	4.99	4.89	---	5.16
2	5.03	5.31	4.72	1.50	4.98	6.04	4.57	5.85	4.60	4.85	---	5.46
3	5.85	5.53	5.93	1.46	4.83	6.09	5.28	6.14	4.26	---	---	5.78
4	5.25	5.77	3.59	1.29	4.81	4.13	5.11	6.14	---	---	---	6.47
5	4.58	4.34	3.18	1.65	7.45	4.80	4.77	6.09	---	---	---	5.87
6	5.02	4.78	1.65	1.64	6.46	4.69	4.82	4.98	---	---	---	5.44
7	5.21	4.80	1.58	1.47	4.92	4.52	5.07	5.09	---	---	---	5.26
8	5.18	4.92	1.03	3.07	4.46	4.18	5.22	7.56	---	---	---	5.15
9	5.29	5.50	1.12	4.63	4.40	3.84	4.86	8.93	---	---	---	5.20
10	2.49	3.26	1.05	8.80	4.37	3.78	4.64	8.37	---	---	---	4.80
11	3.30	4.16	1.02	10.05	4.23	4.57	5.33	7.34	---	---	---	4.92
12	3.97	4.38	1.59	8.44	4.42	4.73	5.90	6.14	---	---	---	4.06
13	4.02	3.94	1.38	6.88	4.93	4.23	6.21	5.67	5.99	---	4.10	4.45
14	4.57	4.43	1.38	5.93	4.17	3.63	6.38	5.77	5.71	---	4.31	4.87
15	4.67	4.77	1.39	6.49	3.05	4.29	7.26	7.23	5.58	---	4.82	4.98
16	4.70	4.65	1.50	5.50	3.93	5.46	6.14	7.92	5.28	---	4.53	5.12
17	5.03	4.30	1.61	5.28	5.21	5.98	5.69	6.70	5.00	---	4.76	4.62
18	4.17	4.78	1.78	5.99	5.06	4.70	6.13	6.19	6.32	---	4.54	3.91
19	4.13	4.97	1.55	6.74	5.70	4.80	5.83	6.09	5.50	---	4.26	4.29
20	5.21	4.86	1.78	5.51	6.81	5.23	5.21	6.04	5.22	---	4.17	4.39
21	5.32	5.19	1.96	4.67	7.15	5.24	5.03	5.73	4.94	---	4.24	4.78
22	4.59	5.25	1.94	4.62	6.38	5.66	5.61	5.69	4.97	---	4.24	4.91
23	4.47	4.68	1.52	5.16	4.56	4.72	5.28	5.80	5.07	---	4.40	---
24	4.53	4.73	.51	5.58	4.73	4.19	5.16	6.13	4.97	---	4.46	---
25	3.50	4.93	1.02	5.36	4.84	4.47	5.58	5.89	5.42	---	4.43	---
26	3.92	5.26	1.37	5.15	4.15	5.01	7.43	5.44	5.26	---	4.38	---
27	4.41	5.82	1.57	5.35	4.63	5.50	7.93	4.88	5.15	---	4.56	---
28	4.25	5.21	1.46	5.77	5.09	5.31	7.02	4.78	6.14	---	4.50	---
29	4.58	3.66	1.64	5.48	---	5.24	7.10	5.08	6.25	---	4.55	---
30	4.66	3.99	1.68	5.56	---	3.80	6.37	5.16	5.26	---	4.48	---
31	4.57	---	1.26	4.36	---	3.69	---	5.41	---	---	4.96	---
MAX	5.85	5.82	5.93	10.05	7.45	6.09	7.93	8.93	---	---	---	---
MIN	2.49	3.26	.51	1.29	3.05	3.63	3.92	4.78	---	---	---	---

MISSISSIPPI RIVER DELTA

294110091533000 VERMILION BAY AT CYPRE MORT POINT, NEAR LOUISA, LA (CE 88850)

LOCATION.--Lat 29°41'10", long 91°53'30", R. 6 E., T. 15 S., Iberia Parish, Hydrologic Unit 80880103, at Cypress Point, 13 mi (21 km) south of Avery Island and 8 mi (13 km) southwest of Louisa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1974 to 1982, March 1991.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Water years 1978 to 1982, March 1991.

CHLORIDE: Water year 1975 to 1982, March 1991.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 30.0 °C July 17, 18, 21-23; minimum daily, 6.0 °C Jan. 13, 16, 17.

CHLORIDE: Maximum daily, 8,500 mg/L Nov. 3, 1980; minimum daily, 100 mg/L Feb. 28, 1979.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	15.0	---	---	---	---	---	---
2	---	---	---	---	---	16.0	---	---	---	---	---	---
3	---	---	---	---	---	16.0	---	---	---	---	---	---
4	---	---	---	---	---	13.0	---	---	---	---	---	---
5	---	---	---	---	---	14.5	---	---	---	---	---	---
6	---	---	---	---	---	17.0	---	---	---	---	---	---
7	---	---	---	---	---	17.0	---	---	---	---	---	---
8	---	---	---	---	---	17.0	---	---	---	---	---	---
9	---	---	---	---	---	17.0	---	---	---	---	---	---
10	---	---	---	---	---	16.0	---	---	---	---	---	---
11	---	---	---	---	---	16.0	---	---	---	---	---	---
12	---	---	---	---	---	16.0	---	---	---	---	---	---
13	---	---	---	---	---	17.0	---	---	---	---	---	---
14	---	---	---	---	---	17.0	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	16.0	---	---	---	---	---	---
17	---	---	---	---	---	15.0	---	---	---	---	---	---
18	---	---	---	---	---	15.0	---	---	---	---	---	---
19	---	---	---	---	---	16.0	---	---	---	---	---	---
20	---	---	---	---	---	17.0	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	17.0	---	---	---	---	---	---
23	---	---	---	---	---	19.0	---	---	---	---	---	---
24	---	---	---	---	---	20.0	---	---	---	---	---	---
25	---	---	---	---	---	20.0	---	---	---	---	---	---
26	---	---	---	---	---	21.0	---	---	---	---	---	---
27	---	---	---	---	---	22.0	---	---	---	---	---	---
28	---	---	---	---	---	23.0	---	---	---	---	---	---
29	---	---	---	---	---	23.0	---	---	---	---	---	---
30	---	---	---	---	---	19.0	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	23.0	---	---	---	---	---	---
MIN	---	---	---	---	---	13.0	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

294110091533000 VERMILION BAY AT CYPRE MORT POINT, NEAR LOUISA, LA (CE 88850)--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	400	---	---	---	---	---	---
2	---	---	---	---	---	410	---	---	---	---	---	---
3	---	---	---	---	---	420	---	---	---	---	---	---
4	---	---	---	---	---	420	---	---	---	---	---	---
5	---	---	---	---	---	400	---	---	---	---	---	---
6	---	---	---	---	---	400	---	---	---	---	---	---
7	---	---	---	---	---	400	---	---	---	---	---	---
8	---	---	---	---	---	400	---	---	---	---	---	---
9	---	---	---	---	---	400	---	---	---	---	---	---
10	---	---	---	---	---	400	---	---	---	---	---	---
11	---	---	---	---	---	380	---	---	---	---	---	---
12	---	---	---	---	---	330	---	---	---	---	---	---
13	---	---	---	---	---	320	---	---	---	---	---	---
14	---	---	---	---	---	390	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	270	---	---	---	---	---	---
17	---	---	---	---	---	340	---	---	---	---	---	---
18	---	---	---	---	---	390	---	---	---	---	---	---
19	---	---	---	---	---	340	---	---	---	---	---	---
20	---	---	---	---	---	280	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	270	---	---	---	---	---	---
23	---	---	---	---	---	240	---	---	---	---	---	---
24	---	---	---	---	---	280	---	---	---	---	---	---
25	---	---	---	---	---	280	---	---	---	---	---	---
26	---	---	---	---	---	340	---	---	---	---	---	---
27	---	---	---	---	---	380	---	---	---	---	---	---
28	---	---	---	---	---	340	---	---	---	---	---	---
29	---	---	---	---	---	310	---	---	---	---	---	---
30	---	---	---	---	---	300	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	420	---	---	---	---	---	---
MIN	---	---	---	---	---	240	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

294920092092500 MEAUX CANAL AT CONTROL STRUCTURE (OUTSIDE) NEAR ESTHER, LA

LOCATION.--Lat 29°49'20", long 92°09'25", T. 14 S., R. 3 E., Vermilion Parish, Hydrologic Unit 08080103, 1.9 mi southeast of Esther.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1990 to December 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1990 to December 1990.

CHLORIDE: June 1990 to December 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.5	---	---	---	---	---	---	---	---	---	---	---
2	27.0	---	---	---	---	---	---	---	---	---	---	---
3	28.5	---	---	---	---	---	---	---	---	---	---	---
4	29.0	---	---	---	---	---	---	---	---	---	---	---
5	28.0	---	---	---	---	---	---	---	---	---	---	---
6	28.5	---	---	---	---	---	---	---	---	---	---	---
7	29.0	---	---	---	---	---	---	---	---	---	---	---
8	29.5	---	---	---	---	---	---	---	---	---	---	---
9	29.5	---	---	---	---	---	---	---	---	---	---	---
10	24.5	---	---	---	---	---	---	---	---	---	---	---
11	21.0	---	---	---	---	---	---	---	---	---	---	---
12	20.0	---	---	---	---	---	---	---	---	---	---	---
13	20.0	---	---	---	---	---	---	---	---	---	---	---
14	20.0	---	---	---	---	---	---	---	---	---	---	---
15	21.0	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	21.0	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

294920092092500 MEAUX CANAL AT CONTROL STRUCTURE (OUTSIDE) NEAR ESTHER, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL). WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	---	---	---	---	---	---	---	---	---	---	---
2	70	---	---	---	---	---	---	---	---	---	---	---
3	82	---	---	---	---	---	---	---	---	---	---	---
4	110	---	---	---	---	---	---	---	---	---	---	---
5	230	---	---	---	---	---	---	---	---	---	---	---
6	120	---	---	---	---	---	---	---	---	---	---	---
7	140	---	---	---	---	---	---	---	---	---	---	---
8	210	---	---	---	---	---	---	---	---	---	---	---
9	230	---	---	---	---	---	---	---	---	---	---	---
10	180	---	---	---	---	---	---	---	---	---	---	---
11	300	---	---	---	---	---	---	---	---	---	---	---
12	230	---	---	---	---	---	---	---	---	---	---	---
13	290	---	---	---	---	---	---	---	---	---	---	---
14	360	---	---	---	---	---	---	---	---	---	---	---
15	380	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	460	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

MISSISSIPPI RIVER DELTA

294921092092600 MEAUX CANAL AT CONTROL STRUCTURE (INSIDE) NEAR ESTHER, LA

LOCATION.--Lat 29°49'21", long 92°09'26", T. 14 S., R. 3 E., Vermilion Parish, Hydrologic Unit 08080103, 1.9 mi southeast of Esther.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1990 to December 1990.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1990 to December 1990.

CHLORIDE: June 1990 to December 1990.

COOPERATION.--Samples collected by the Corps of Engineers and analyzed by the Geological Survey.

REMARKS.--Extremes for current year for water temperatures and chlorides are not published because the number of missing days of record exceeded 20 percent of the year.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.0	---	---	---	---	---	---	---	---	---	---	---
2	27.0	---	---	---	---	---	---	---	---	---	---	---
3	28.0	---	---	---	---	---	---	---	---	---	---	---
4	28.5	---	---	---	---	---	---	---	---	---	---	---
5	28.0	---	---	---	---	---	---	---	---	---	---	---
6	28.0	---	---	---	---	---	---	---	---	---	---	---
7	28.0	---	---	---	---	---	---	---	---	---	---	---
8	28.5	---	---	---	---	---	---	---	---	---	---	---
9	28.5	---	---	---	---	---	---	---	---	---	---	---
10	23.5	---	---	---	---	---	---	---	---	---	---	---
11	20.0	---	---	---	---	---	---	---	---	---	---	---
12	20.0	---	---	---	---	---	---	---	---	---	---	---
13	20.0	---	---	---	---	---	---	---	---	---	---	---
14	20.0	---	---	---	---	---	---	---	---	---	---	---
15	21.0	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	21.0	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

294921092092600 MEAUX CANAL AT CONTROL STRUCTURE (INSIDE) NEAR ESTHER, LA--Continued

CHLORIDE DISSOLVED (MG/L AS CL), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	---	---	---	---	---	---	---	---	---	---	---
2	90	---	---	---	---	---	---	---	---	---	---	---
3	84	---	---	---	---	---	---	---	---	---	---	---
4	80	---	---	---	---	---	---	---	---	---	---	---
5	96	---	---	---	---	---	---	---	---	---	---	---
6	100	---	---	---	---	---	---	---	---	---	---	---
7	110	---	---	---	---	---	---	---	---	---	---	---
8	120	---	---	---	---	---	---	---	---	---	---	---
9	130	---	---	---	---	---	---	---	---	---	---	---
10	130	---	---	---	---	---	---	---	---	---	---	---
11	120	---	---	---	---	---	---	---	---	---	---	---
12	160	---	---	---	---	---	---	---	---	---	---	---
13	220	---	---	---	---	---	---	---	---	---	---	---
14	160	---	---	---	---	---	---	---	---	---	---	---
15	250	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	350	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

08010000 BAYOU DES CANNES NEAR EUNICE, LA

LOCATION.--Lat 30°29'00", long 92°29'25", in SW 1/4 SE 1/4 sec.32, T.6 S., R.1 W., Louisiana Meridian, Evangeline Parish, Hydrologic Unit 08080201, on left downstream side of bridge of eastbound lane on U.S. Highway 190, 3.0 mi downstream from Missouri Pacific Railroad bridge, and 4.0 mi west of Eunice.

DRAINAGE AREA.--131 mi².

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1242: 1950(P).

GAGE.--Water stage recorder. Datum of gage is 14.84 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers levels). Prior to Mar. 23, 1989, nonrecording gage read twice daily. Prior to Dec. 12, 1987, water-stage recorder at same site and datum. Prior to Jan. 17, 1940, nonrecording gage at same site and datum. Water-stage recorder for Bayou des Cannes at State Highway 755, near Eunice (Station No. 08010010) used as auxiliary gage for this station from November 1950 to September 1984. See WSP 1732 for history of changes prior to Jan. 13, 1958.

REMARKS.--Records fair. Estimated daily discharges. Small diversion above station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--53 years, 274 ft³/s, 28.40 in/yr, 198,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s, May 20, 1953, gage height, 22.36 ft; no flow at times in 1939, 1948, 1955-56, 1964, 1971, 1975-77.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,790 ft³/s, Jan. 11, gage height, 18.55 ft; minimum daily discharge, 1.1 ft³/s, Nov. 1-4, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	e2.5	1.1	8.3	37	610	278	47	1930	376	53	42	15	
2	e1.9	1.1	5.8	260	127	587	58	702	130	50	36	87	
3	e1.9	1.1	96	2030	68	417	68	960	71	169	31	57	
4	e1.8	1.1	123	2150	109	178	89	1470	63	81	30	30	
5	e1.8	2.3	44	902	2040	91	93	1230	49	90	28	27	
6	e2.0	1.6	15	219	2390	65	79	548	537	173	79	33	
7	7.1	1.1	434	1100	1050	51	134	187	637	95	45	89	
8	6.7	1.2	497	952	289	41	127	1170	159	366	33	432	
9	e4.0	133	118	259	122	36	155	3860	70	876	34	122	
10	10	142	51	2150	82	36	120	4450	61	557	63	46	
11	8.7	40	25	4580	72	34	207	4170	244	258	143	31	
12	4.0	11	14	4710	62	33	241	2750	665	162	258	23	
13	2.5	4.7	11	4000	63	29	119	917	235	109	173	18	
14	2.1	2.0	10	1840	61	23	405	245	126	70	92	16	
15	2.5	2.0	12	845	52	21	3020	1830	89	69	81	16	
16	2.7	2.5	9.7	709	39	26	3510	3180	58	154	87	21	
17	2.3	2.3	8.9	264	39	260	2090	2240	48	135	56	69	
18	2.0	1.8	10	267	40	188	745	1540	130	96	48	34	
19	1.4	1.6	10	1690	62	60	348	777	272	75	51	17	
20	1.2	1.7	7.8	1290	541	40	185	237	93	65	31	15	
21	12	1.7	7.7	339	1730	40	122	248	52	77	32	15	
22	318	1.8	28	99	3370	41	80	184	76	58	37	e14	
23	128	3.3	668	68	3120	43	127	106	68	92	29	e13	
24	39	2.9	455	673	1690	50	81	221	54	63	26	e12	
25	13	6.6	100	986	483	44	144	315	131	40	19	e15	
26	6.6	4.5	49	292	173	73	256	369	123	41	18	20	
27	4.4	3.0	48	110	113	85	473	196	77	37	19	16	
28	2.6	110	261	82	71	104	237	154	246	44	18	e15	
29	1.6	109	170	214	---	351	1000	585	137	36	17	e14	
30	1.4	29	88	2200	---	295	2460	1030	70	43	16	e13	
31	1.2	---	56	1970	---	102	---	915	---	42	15	---	
TOTAL	596.9	627.0	3441.2	37287	18668	3722	16820	38716	5147	4276	1687	1345	
MEAN	19.3	20.9	111	1203	667	120	561	1249	172	138	54.4	44.8	
MAX	318	142	668	4710	3370	587	3510	4450	665	876	258	432	
MIN	1.2	1.1	5.8	37	39	21	47	106	48	36	15	12	
AC-FT	1180	1240	6830	73960	37030	7380	33360	76790	10210	8480	3350	2670	
CFSM	.15	.16	.85	9.18	5.09	.92	4.28	9.53	1.31	1.05	.42	.34	
IN.	.17	.18	.98	10.59	5.30	1.06	4.78	10.99	1.46	1.21	.48	.38	
CAL YR 1990	TOTAL 98162.8		MEAN 269		MAX 5080		MIN 1.1		AC-FT 194700		CFSM 2.05		IN. 27.88
WTR YR 1991	TOTAL 132333.1		MEAN 363		MAX 4710		MIN 1.1		AC-FT 262500		CFSM 2.77		IN. 37.58

e Estimated.

08010000 BAYOU DES CANNES NEAR EUNICE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1.45	1.94	2.63	10.58	6.33	2.82	15.50	7.92	2.95	2.83	2.03
2	---	1.45	1.83	5.42	5.37	10.05	3.08	10.86	4.67	2.88	2.69	3.65
3	---	1.45	3.93	15.72	4.11	8.49	3.35	12.53	3.43	5.36	2.54	3.15
4	---	1.45	4.54	15.96	4.47	5.50	3.86	14.47	3.21	3.67	2.51	2.52
5	---	1.58	2.84	12.00	15.61	3.90	3.95	13.65	2.86	3.78	2.44	2.41
6	---	1.52	2.18	6.06	16.31	3.26	3.62	9.67	8.95	5.45	3.66	2.57
7	1.85	1.45	8.01	12.91	12.79	2.90	4.77	5.63	10.43	3.98	2.90	3.91
8	1.83	1.46	9.13	12.36	6.95	2.67	4.64	12.25	5.15	6.88	2.60	8.59
9	---	4.47	4.42	6.58	4.54	2.52	5.16	17.79	3.40	12.29	2.61	4.51
10	2.00	4.84	2.95	14.47	3.71	2.54	4.50	18.29	3.16	9.78	3.32	2.91
11	1.95	2.74	2.33	18.39	3.45	2.47	5.98	18.06	5.82	6.69	4.92	2.52
12	1.71	2.04	2.01	18.49	3.19	2.45	6.48	16.64	10.71	5.28	6.71	2.30
13	1.60	1.76	1.90	17.92	3.23	2.33	4.46	12.06	6.29	4.32	5.43	2.12
14	1.57	1.56	1.89	15.19	3.18	2.15	6.56	6.47	4.61	3.51	3.99	2.06
15	1.60	1.55	1.94	12.49	2.93	2.10	17.00	13.94	3.86	3.41	3.74	2.06
16	1.62	1.60	1.86	11.57	2.60	2.23	17.51	17.21	3.09	5.13	3.88	2.20
17	1.59	1.58	1.82	7.43	2.61	6.49	15.68	16.08	2.83	4.81	3.16	3.44
18	1.56	1.54	1.88	6.95	2.65	5.59	11.25	14.70	4.60	4.07	2.95	2.61
19	1.50	1.52	1.87	15.06	3.18	3.15	7.73	11.42	6.86	3.61	3.04	2.11
20	1.47	1.53	1.77	13.89	9.29	2.65	5.63	6.37	3.91	3.39	2.54	2.04
21	1.86	1.53	1.77	8.19	14.90	2.66	4.54	6.58	2.93	3.65	2.57	2.03
22	7.29	1.54	2.34	4.84	17.39	2.66	3.64	5.61	3.54	3.20	2.70	---
23	4.59	1.66	10.63	4.11	17.14	2.71	4.64	4.22	3.34	4.00	2.48	---
24	2.74	1.63	8.67	10.57	14.90	2.88	3.67	6.16	2.99	3.33	2.39	---
25	2.11	1.87	4.08	12.88	8.93	2.74	4.89	7.40	4.61	2.79	2.16	---
26	1.86	1.75	2.92	7.71	5.46	3.45	6.59	7.96	4.53	2.82	2.13	2.21
27	1.74	1.64	2.88	5.07	4.35	3.76	9.03	5.82	3.55	2.70	2.17	2.07
28	1.61	4.16	6.69	4.46	3.42	4.19	6.35	5.05	6.54	2.89	2.12	---
29	1.52	4.23	5.38	5.73	---	7.49	11.46	9.95	4.82	2.67	2.09	---
30	1.49	2.52	3.85	15.99	---	6.97	16.44	13.19	3.40	2.86	2.07	---
31	1.46	---	3.09	15.56	---	4.09	---	12.51	---	2.85	2.04	---
MAX	---	4.84	10.63	18.49	17.39	10.05	17.51	18.29	10.71	12.29	6.71	---
MIN	---	1.45	1.77	2.63	2.60	2.10	2.82	4.22	2.83	2.67	2.04	---

08012000 BAYOU NEZPIQUE NEAR BASILE, LA

LOCATION.--Lat 30°28'50", long 92°37'55", in NE 1/4 NW 1/4 sec.1, T.7 S., R.3 W., Evangeline Parish, Hydrologic Unit 08080201, near left bank on U.S. Highway 190, 1,300 ft downstream from Missouri Pacific Railroad bridge, and 2.0 mi west of Basile.

DRAINAGE AREA.--527 mi².

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1512: 1945-55.

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft above National Geodetic Vertical Datum of 1929. Prior to July 1947, nonrecording gage at same site and datum. Water-stage recorder for Bayou Nezpique at Mamou pumping plant near Basile (station 08012020) used as auxiliary for this station since July 7, 1979 to Sept. 30, 1984. Mar. 27, 1945 to July 6, 1979, auxiliary nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair. Diversion for irrigation by Mamou pumping plant may affect stage-discharge relation. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--53 years, 835 ft³/s, 21.52 in/yr, 605,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s, May 20, 1953, gage height, 34.39 ft; minimum discharge, 0.1 ft³/s, June 7-31, 1943, June 22-29, 1948; minimum gage height, 1.00 ft, June 28, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,060 ft³/s, May 11, gage height, 24.50 ft; minimum discharge, 3.3 ft³/s, Nov. 6, 7, 27, 28, gage height, 1.42 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	9.9	37	284	1500	2290	300	3050	3130	810	128	327
2	26	7.1	26	262	1010	2220	230	3450	2930	445	122	347
3	27	4.9	25	1420	557	2070	186	3390	2460	225	105	394
4	27	4.1	42	2850	287	1590	151	3200	1680	34	77	472
5	27	4.0	105	3820	672	1040	139	3360	783	158	57	394
6	29	3.4	84	4020	1650	614	162	3440	445	309	67	869
7	31	5.0	77	4070	1990	366	211	3300	218	505	116	1580
8	28	7.1	271	4190	1910	234	245	3330	232	745	105	1830
9	25	8.8	340	4020	1640	170	204	3540	285	1380	116	1660
10	19	30	251	4480	1330	132	197	7850	239	2100	153	1200
11	14	86	168	6580	868	107	290	9060	211	2180	134	658
12	11	63	102	8160	421	91	681	8360	684	1870	311	306
13	9.4	39	65	7930	197	92	1220	6760	1170	1250	747	147
14	13	32	45	6680	118	87	1470	5500	1080	663	933	96
15	21	24	33	5650	88	77	2120	5250	853	380	823	69
16	26	18	26	5120	68	80	3650	5500	745	390	706	48
17	24	14	21	4750	51	359	4620	5900	569	540	546	50
18	19	12	18	4390	38	864	4700	5630	352	550	344	77
19	14	8.8	15	4330	31	821	4490	5050	445	328	264	63
20	10	6.7	14	4480	37	560	4150	4480	757	233	563	45
21	8.5	5.5	16	4300	512	341	3780	4040	783	166	392	35
22	83	4.9	25	3930	2010	225	3360	3490	684	128	200	28
23	342	4.9	181	3420	3320	176	2930	2930	548	122	105	23
24	290	4.2	1030	2970	3690	192	2470	2250	435	172	66	47
25	172	3.8	1440	2730	3640	198	1960	1730	435	179	57	178
26	85	3.6	1390	2520	3340	160	1290	1550	684	159	46	221
27	40	3.4	1110	2150	2940	173	852	1530	968	140	34	139
28	23	4.2	877	1680	2540	168	652	1270	1170	122	31	82
29	15	9.0	750	1220	---	190	699	1080	1380	116	61	63
30	11	39	590	1500	---	485	1880	1830	1340	128	66	53
31	10	---	426	1730	---	438	---	2740	---	116	174	---
TOTAL	1505.9	470.3	9600	115636	36455	16610	49289	123840	27695	16643	7649	11501
MEAN	48.6	15.7	310	3730	1302	536	1643	3995	923	537	247	383
MAX	342	86	1440	8160	3690	2290	4700	9060	3130	2180	933	1830
MIN	8.5	3.4	14	262	31	77	139	1080	211	34	31	23
AC-FT	2990	933	19040	229400	72310	32950	97760	245600	54930	33010	15170	22810
CFSM	.09	.03	.59	7.08	2.47	1.02	3.12	7.58	1.75	1.02	.47	.73
IN.	.11	.03	.68	8.16	2.57	1.17	3.48	8.74	1.95	1.17	.54	.81
CAL YR 1990	TOTAL 228431.4		MEAN 626		MAX 7280		MIN 3.4		AC-FT 453100		CFSM 1.19	
WTR YR 1991	TOTAL 416894.2		MEAN 1142		MAX 9060		MIN 3.4		AC-FT 826900		CFSM 2.17	
											IN. 16.12	
											IN. 29.43	

08012000 BAYOU NEZPIQUE NEAR BASILE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.34	1.81	2.78	6.81	15.61	18.07	6.84	19.38	19.50	14.00	4.40	7.17
2	2.33	1.68	2.43	6.43	13.29	17.93	5.95	19.95	19.20	10.80	4.30	7.42
3	2.34	1.56	2.42	14.97	10.22	17.50	5.31	19.87	18.40	8.20	4.00	7.92
4	2.35	1.50	2.87	19.01	7.67	15.95	4.77	19.60	16.80	4.80	3.50	8.76
5	2.34	1.49	4.21	20.43	10.81	13.18	4.58	19.82	13.80	7.20	3.10	7.94
6	2.42	1.43	3.83	20.67	16.15	10.05	4.95	19.93	10.80	9.30	3.30	11.96
7	2.47	1.55	3.70	20.73	17.27	7.61	5.68	19.74	8.10	11.40	4.20	15.91
8	2.38	1.68	6.57	20.88	17.03	6.00	6.16	19.78	8.30	13.50	4.00	16.79
9	2.27	1.76	7.46	20.67	16.18	5.07	5.59	20.70	9.00	16.00	4.20	16.25
10	2.07	2.47	6.41	21.18	14.87	4.46	5.48	23.80	8.40	17.60	4.80	14.13
11	1.88	3.86	5.25	22.96	12.46	4.03	6.71	24.50	8.00	17.80	4.50	10.40
12	1.73	3.43	4.16	23.98	9.03	3.76	10.59	24.10	13.00	16.90	7.00	6.89
13	1.65	2.84	3.46	23.84	6.49	3.76	14.24	23.10	15.40	14.40	11.20	4.70
14	1.83	2.63	3.01	23.04	5.25	3.69	15.49	22.20	15.10	10.50	12.60	3.84
15	2.14	2.35	2.66	22.31	4.71	3.50	17.52	22.00	14.20	7.80	11.79	3.33
16	2.30	2.14	2.42	21.87	4.34	3.55	20.18	22.20	13.50	7.90	10.86	2.88
17	2.23	2.02	2.28	21.49	3.96	7.26	21.36	22.50	12.00	9.40	9.45	2.92
18	2.05	1.90	2.17	21.10	3.61	12.09	21.44	22.30	9.80	9.50	7.36	3.50
19	1.85	1.76	2.04	21.03	3.43	11.77	21.21	21.80	10.80	7.20	6.35	3.21
20	1.69	1.66	2.01	21.21	3.59	9.57	20.82	21.20	13.60	6.00	9.62	2.81
21	1.62	1.60	2.09	21.00	9.08	7.33	20.38	20.60	13.80	5.00	7.90	2.52
22	3.29	1.56	2.41	20.56	17.16	5.87	19.82	20.00	13.00	4.40	5.51	2.28
23	7.43	1.56	4.93	19.90	19.77	5.15	19.19	19.20	11.80	4.30	4.00	2.12
24	6.88	1.51	13.09	19.26	20.26	5.40	18.42	18.00	10.70	5.10	3.28	2.78
25	5.30	1.47	15.35	18.87	20.20	5.50	17.18	16.50	10.70	5.20	3.09	5.14
26	3.85	1.45	15.07	18.51	19.80	4.91	14.59	15.90	13.00	4.90	2.81	5.82
27	2.86	1.43	13.69	17.71	19.22	5.10	11.99	15.80	14.70	4.60	2.49	4.56
28	2.33	1.50	12.19	16.30	18.55	5.04	10.41	14.50	15.40	4.30	2.40	3.59
29	2.03	1.74	11.22	14.38	---	5.33	10.66	13.50	16.00	4.20	3.18	3.21
30	1.84	2.83	9.87	15.64	---	8.87	16.80	16.80	15.90	4.40	3.26	2.99
31	1.83	---	8.35	16.50	---	8.40	---	18.90	---	4.20	5.12	---
MAX	7.43	3.86	15.35	23.98	20.26	18.07	21.44	24.50	19.50	17.80	12.60	16.79
MIN	1.62	1.43	2.01	6.43	3.43	3.50	4.58	13.50	8.00	4.20	2.40	2.12

MERMENTAU RIVER BASIN

08012150 MERMENTAU RIVER AT MERMENTAU, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°11'23", long 92°35'25", on line between secs.14 and 31, T.10 S., R.2 W., on parish line of Jefferson Davis and Acadia Parishes, Hydrologic Unit 08080202, on downstream side of U.S. Highway 90 bridge, 300 ft upstream from Southern Pacific Transportation Company railroad bridge, 0.25 mi west of Mermentau, and 2.0 mi downstream from confluence with Bayous Nezpique and Des Cannes.

DRAINAGE AREA.--1.381 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1984 to current year. Gage-height records only, August 1941 to September 1984 in files of Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 0.54 ft below National Geodetic Vertical Datum of 1929. Prior to October 1988, 1.12 ft below National Geodetic Vertical Datum of 1929, (when datum is applied to gage heights as published). Prior to October 1984, datum of gage is at mean low Gulf.

REMARKS.--No estimated daily discharges. Records poor. No gage-height record: Oct. 23-25. Discharge is affected by tide and wind at medium and low stages. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 38,200 ft³/s, July 5, 1989; maximum negative discharge, 11,500 ft³/s, Dec. 31, 1984; maximum gage height, 10.97 ft, Nov. 2, 1985; minimum gage height, -0.03 ft, Aug. 15, 1985; no flow at times each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 14.5 ft, August 1940; minimum gage height, -0.94 ft, July 13, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,800 ft³/s, Jan. 12; maximum gage height, 5.87 ft, May 13; maximum negative discharge, -3,750 ft³/s, Dec. 21; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-450	-346	11	959	7870	8510	3380	9740	8420	3340	-332	2380
2	-605	-362	-15	1450	6450	7810	3180	8770	9920	2910	-676	2140
3	-642	-159	2690	7160	5530	7130	2930	7050	8050	2330	-718	1860
4	1880	-351	3490	8740	4720	5500	2990	7690	9050	2010	-574	2840
5	2930	309	1550	8870	8140	4020	3520	8260	8880	1640	2140	1980
6	2340	13	496	9540	9410	4650	2370	10800	8640	1520	1800	2580
7	1590	193	1950	8870	9690	4230	2060	9840	6780	2060	1960	2640
8	2400	108	1470	7570	8880	3150	3010	10200	5600	2310	1610	2430
9	3280	531	990	7100	6560	2630	3080	13800	5590	2140	964	2520
10	3120	348	712	11100	5070	2990	4400	16400	6500	1690	540	2520
11	3130	-248	451	12000	4260	3020	4330	20300	10400	1100	1940	2560
12	3450	-232	105	16000	3310	3100	3350	18900	11700	579	3520	2590
13	3760	-531	-14	7720	1770	3830	4200	19500	10100	532	3100	1920
14	3870	-459	-83	8040	2470	3300	6640	17900	7340	630	2640	1930
15	3030	-558	-152	10800	1590	2880	11100	17400	7360	2110	2130	1690
16	2850	-446	-264	16200	218	2470	12000	15900	6320	1240	2110	1650
17	533	27	-678	12700	55	4000	13300	14900	6140	1000	1770	1410
18	231	-554	129	11100	586	4340	14600	10500	6330	1010	1500	1570
19	-130	-461	-191	11800	1540	3810	13400	6230	6680	213	1590	2620
20	-399	-520	-584	9750	2840	3670	10900	5800	3530	313	1510	1810
21	46	-465	-1210	8490	5050	2640	8350	5330	3360	47	1460	1480
22	307	-454	759	7390	8130	2030	8060	5900	5930	-79	1920	1320
23	---	-269	1140	6670	9000	3210	8350	3710	8100	-221	1420	1010
24	---	-406	715	6500	7960	3160	6460	4210	8210	-191	1450	868
25	---	-366	1050	7090	7620	2440	4880	3790	8610	-342	1760	2440
26	30	-895	1230	6420	7480	1680	5790	2630	6370	3.9	1680	1960
27	-74	-1200	1590	5790	6380	2080	7690	3240	4960	-182	1330	794
28	-201	771	2000	5700	5880	1780	6440	5050	4490	-136	1160	546
29	-103	372	1410	7050	---	4550	7360	6270	5110	101	1400	550
30	-346	38	1610	8590	---	4570	8680	7530	3700	-231	1910	547
31	-317	---	1530	8810	---	4130	---	8400	---	-28	2720	---
TOTAL	---	-6572	23887	265969	148459	117310	196800	305940	212170	29418.9	46734	55155
MEAN	---	-219	771	8580	5302	3784	6560	9869	7072	949	1508	1838

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.39	1.08	1.34	1.45	3.04	2.70	1.60	3.23	3.74	2.53	1.48	1.92
2	1.45	1.13	1.33	1.57	2.92	2.79	1.64	3.21	3.57	2.45	1.53	1.91
3	1.58	1.19	1.55	2.04	2.80	2.66	1.66	3.25	3.40	2.38	1.56	2.02
4	1.46	1.25	1.35	2.20	2.70	2.47	1.66	3.21	3.25	2.35	1.54	2.11
5	1.41	.96	1.56	2.37	3.17	2.56	1.57	3.27	3.09	2.29	1.55	2.18
6	1.46	1.05	1.59	2.48	3.42	2.61	1.64	3.01	3.01	2.39	1.60	2.31
7	1.48	1.00	1.54	2.53	3.42	2.29	1.74	2.86	2.95	2.61	1.61	2.44
8	1.47	.06	1.60	2.35	3.30	1.95	1.71	3.39	2.91	2.79	1.63	2.49
9	1.33	1.36	1.64	2.24	3.01	1.81	1.67	4.10	2.83	2.82	1.64	2.48
10	.83	1.30	1.63	3.17	2.79	1.85	1.54	4.67	3.04	2.83	1.61	2.46
11	1.08	1.37	1.63	4.69	2.60	1.91	1.78	5.27	3.27	2.76	1.69	2.43
12	1.14	1.36	1.66	5.26	2.49	1.94	2.08	5.72	3.37	2.68	1.78	2.42
13	1.20	1.33	1.62	5.61	2.53	1.81	2.22	5.82	3.31	2.59	1.79	2.39
14	1.27	1.33	1.57	5.77	2.24	1.55	2.33	5.48	3.22	2.45	1.82	2.37
15	1.27	1.34	1.57	5.69	1.90	1.49	3.03	5.44	3.17	2.29	1.92	2.34
16	1.26	1.32	1.54	5.24	1.92	1.63	3.22	5.56	3.04	2.17	1.97	2.29
17	1.31	1.21	1.67	4.62	2.16	1.88	3.29	5.50	2.92	2.08	1.96	2.22
18	1.06	1.29	1.53	4.13	2.17	1.84	3.45	5.31	2.85	2.05	1.88	2.18
19	1.16	1.33	1.47	4.31	2.12	1.87	3.45	5.02	2.82	2.02	1.83	1.97
20	1.26	1.34	1.58	4.25	1.95	1.94	3.27	4.75	2.74	2.00	1.83	1.81
21	1.30	1.37	1.73	3.85	2.36	2.00	3.01	4.49	2.72	1.93	1.80	1.88
22	1.17	1.34	1.50	3.56	2.96	2.14	2.92	4.19	2.67	1.92	1.73	1.94
23	---	1.27	1.16	3.38	2.98	1.91	2.75	3.94	2.63	1.91	1.68	1.95
24	---	1.35	.93	3.29	2.92	1.81	2.58	3.92	2.54	1.87	1.65	2.01
25	---	1.39	1.25	3.35	2.78	1.85	2.54	3.89	2.71	1.83	1.59	1.83
26	1.07	1.51	1.35	3.27	2.56	1.96	2.66	3.73	2.67	1.79	1.58	1.79
27	1.08	1.65	1.54	3.12	2.51	2.07	3.07	3.59	2.53	1.78	1.58	1.72
28	1.06	1.41	1.55	3.06	2.43	1.99	3.16	3.55	2.65	1.71	1.58	1.73
29	1.05	1.03	1.63	3.01	---	1.94	3.24	3.57	2.75	1.60	1.55	1.70
30	1.07	1.26	1.61	3.15	---	1.51	3.25	3.71	2.67	1.54	1.55	1.70
31	1.08	---	1.30	3.06	---	1.53	---	3.80	---	1.49	1.73	---
MAX	---	1.65	1.73	5.77	3.42	2.79	3.45	5.82	3.74	2.83	1.97	2.49
MIN	---	.06	.93	1.45	1.90	1.49	1.54	2.86	2.53	1.49	1.48	1.70

MERMENTAU RIVER BASIN

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1980 to September 1982.

WATER TEMPERATURES: April 1980 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 642 micromhos Oct. 2, 1981; minimum daily, 51 micromhos Feb. 20, 1982.

WATER TEMPERATURES: Maximum daily, 31.0 °C July 12, 14, 15, 17-20, 1980; minimum daily, 6.0 °C Jan. 17, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990 17...	0800	--	420	7.47	24.5	20	7.0	2.8	--	K2	120
JAN 1991 24...	1230	6100	53	6.47	8.0	100	75	7.5	1.7	200	620
APR 25...	1330	4500	83	6.45	25.0	120	100	3.5	1.9	K52	220
JUL 12...	1100	307	91	6.94	27.0	100	36	2.5	1.2	K56	230

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1990 17...	100	25	9.8	46	4.2	129	9.1	51	<0.1	15	236
JAN 1991 24...	13	3.4	1.2	4.0	1.9	16	2.8	4.2	<0.1	5.4	48
APR 25...	22	5.8	1.9	7.0	2.3	24	2.4	8.4	0.2	6.4	83
JUL 12...	25	6.6	2.1	6.9	1.8	32	2.2	6.2	0.2	9.4	64

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 1990 17...	240	0.02	0.30	0.11	0.07	0.8	0.11	0.11	0.11	20	4
JAN 1991 24...	32	0.01	0.10	0.08	0.07	0.8	0.14	0.06	0.06	390	<1
APR 25...	50	0.02	0.20	0.19	0.09	1.5	0.27	0.07	0.04	220	<1
JUL 12...	54	0.01	0.24	0.12	0.11	0.9	0.20	0.09	0.09	120	1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

08012150 MERMENTAU RIVER AT MERMENTAU, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990 17...	140	<0.5	<1	<1	<3	<1	--	<1	<4	15	<0.1
JAN 1991 24...	39	<0.5	<1	1	<3	2	320	<1	<4	22	<0.1
APR 25...	65	<0.5	<1	<1	<3	<1	330	<1	<4	100	<0.1
JUL 12...	54	<0.5	<1	<1	<3	5	250	1	<4	89	<0.1
DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
OCT 1990 17...	<10	2	<1	<1	170	<6	9	12	--	100	
JAN 1991 24...	<10	1	<1	<1	22	<6	12	44	725	100	
APR 25...	<10	<1	<1	<1	38	<6	10	73	887	98	
JUL 12...	<10	2	<1	<1	44	<6	34	30	25	100	

< Actual value is known to be less than the value shown.

MERMENTAU RIVER BASIN

08012300 BAYOU QUEUE DE TORTUE AT RICEVILLE, LA

LOCATION.--Lat 30°04'55", long 92°30'20", T.11 S., R.1 W., Louisiana Meridian, Acadia-Vermilion Parish line, Hydrologic Unit 08080202, at bridge on State Highway 91, 0.5 mi northeast of Riceville, and 3.3 mi north of Gueydan.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year. Unpublished records, December 1982 to September 1985, available in files of the Louisiana District Office, Baton Rouge, La.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 3.30 ft below National Geodetic Vertical Datum of 1929. Oct. 4, 1942 to Dec. 31, 1951, nonrecording gage at same site. Prior to Oct. 1, 1987, at datum 6.60 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharge. Discharge affected by wind and variable backwater from Mermentau River causing reverse flow at times during the year. Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum positive discharge, 6,980 ft³/s, Oct. 31, 1985; maximum gage height, 12.01 ft, Nov. 2, 1985; maximum negative discharge, -919 ft³/s, Feb. 14, 1986; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum positive discharge, 5,620 ft³/s, Jan. 12, gage height 9.45 ft; maximum negative discharge, -234 ft³/s, Apr. 13; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-46	-48	-48	-47	906	160	-79	1560	1030	567	-41	136
2	-77	-57	-48	-51	564	378	-80	1260	600	563	-59	232
3	-101	-59	33	221	299	832	-57	729	350	503	-65	364
4	-1.6	-63	589	634	175	792	-54	389	166	285	-22	526
5	-25	-9.0	456	463	1320	464	-13	209	64	194	-20	1010
6	-51	-54	172	190	3010	210	-48	265	331	446	-34	1390
7	-43	-29	233	543	3010	154	-92	190	844	953	-32	1560
8	-58	-54	543	778	2260	136	-46	546	925	1940	58	1500
9	-15	-2.5	373	536	1500	90	-.48	2440	635	2310	84	1410
10	8.9	92	184	980	950	4.1	8.3	3670	512	1850	-12	1140
11	-54	18	66	3780	599	-54	72	4190	708	1310	14	642
12	-44	-9.9	-4.4	4860	351	-55	-21	3840	1220	898	408	349
13	-53	-37	-34	4820	141	-15	-74	2620	1370	543	601	220
14	-52	-51	-37	3970	101	5.6	1.6	1510	1350	353	583	81
15	-52	-57	-45	2880	83	-57	1150	1280	889	195	353	15
16	-56	-47	-46	2360	39	-54	2100	2680	464	126	168	-37
17	-50	-33	-64	1890	-90	100	1660	2760	254	55	81	-43
18	-16	-70	-10	1510	-60	222	1560	2320	422	1.0	37	-58
19	-60	-58	-33	2130	-13	108	2230	1530	1140	-29	136	-24
20	-53	-60	-82	2240	984	-8.1	1850	1000	1610	-27	444	-32
21	-29	-60	-89	1770	3020	-70	1340	746	1300	-13	266	-85
22	168	-52	-16	1290	4330	-119	820	429	841	-50	120	-94
23	158	-43	-4.1	934	3990	.34	472	289	624	-53	79	-72
24	62	-71	-26	864	2840	-30	350	297	471	-39	3.9	-83
25	-1.8	-63	-46	1170	1880	-61	162	510	354	-19	-36	-17
26	-36	-82	-50	1040	1230	-89	309	499	425	-8.4	-56	-54
27	-31	-105	-67	782	730	-76	1250	322	501	23	-64	-43
28	-33	-31	-47	857	405	-51	1530	251	988	24	-69	-73
29	-44	.57	-57	903	---	-5.6	1360	220	1070	-8.1	-64	-55
30	-47	-48	-43	1050	---	121	1770	516	817	-12	-47	-67
31	-49	---	-9.4	1190	---	1.6	---	1110	---	-42	8.7	---
TOTAL	-781.5	-1242.83	1743.1	46537	34554	3033.94	19430.42	40177	22275	12838.5	2823.6	9738
MEAN	-25.2	-41.4	56.2	1501	1234	97.9	648	1296	742	414	91.1	325

08012300 BAYOU QUEUE DE TORTUE AT RICEVILLE, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.14	4.04	4.11	4.20	6.29	5.50	4.32	7.13	7.17	6.34	4.27	4.99
2	4.17	4.07	4.09	4.31	6.01	5.77	4.34	6.70	6.86	6.16	4.27	5.28
3	4.30	4.13	4.53	5.09	5.75	6.17	4.39	6.32	6.48	5.97	4.31	5.51
4	4.31	4.19	5.26	5.67	5.58	6.14	4.42	6.06	6.17	5.71	4.40	5.77
5	4.19	4.00	5.30	5.54	6.67	5.84	4.36	5.97	5.94	5.49	4.38	6.34
6	4.22	4.00	4.97	5.41	8.06	5.61	4.40	5.88	6.26	5.82	4.40	6.73
7	4.24	3.97	5.00	5.83	8.23	5.37	4.43	5.64	6.60	6.45	4.41	7.06
8	4.22	3.93	5.41	5.94	7.78	5.09	4.47	6.26	6.60	7.17	4.60	7.08
9	4.19	4.26	5.33	5.70	7.13	4.82	4.46	7.65	6.29	7.53	4.63	6.97
10	3.70	4.28	5.02	6.25	6.55	4.66	4.38	8.56	6.22	7.41	4.47	6.71
11	3.82	4.19	4.72	8.58	6.09	4.66	4.69	8.91	6.69	7.03	4.52	6.27
12	3.90	4.14	4.52	9.38	5.73	4.69	4.84	8.92	7.39	6.57	5.33	5.88
13	3.96	4.10	4.42	9.40	5.48	4.65	4.96	8.56	7.61	6.18	5.80	5.62
14	4.02	4.10	4.35	9.10	5.31	4.39	5.12	8.04	7.31	5.83	5.74	5.41
15	4.03	4.10	4.34	8.65	5.05	4.23	6.48	8.03	6.88	5.52	5.53	5.23
16	4.02	4.08	4.29	8.25	4.81	4.36	7.28	8.60	6.45	5.30	5.34	5.12
17	4.06	3.99	4.40	7.71	4.87	4.79	7.08	8.75	6.12	5.09	5.06	5.02
18	3.89	4.04	4.36	7.29	4.93	5.09	7.06	8.46	6.13	4.95	4.84	4.96
19	3.91	4.09	4.24	7.69	5.00	4.90	7.38	7.97	6.98	4.87	5.01	4.88
20	4.01	4.09	4.29	7.79	6.01	4.72	7.16	7.56	7.38	4.89	5.65	4.62
21	4.12	4.12	4.41	7.36	7.85	4.71	6.72	7.24	7.14	4.85	5.50	4.60
22	4.47	4.11	4.41	6.84	8.81	4.83	6.26	6.96	6.72	4.73	5.16	4.68
23	4.55	4.03	4.06	6.45	8.69	4.78	5.92	6.72	6.42	4.73	4.80	4.70
24	4.27	4.10	3.73	6.32	8.04	4.59	5.62	6.68	6.22	4.73	4.52	4.73
25	3.94	4.15	3.99	6.53	7.28	4.58	5.42	6.80	6.14	4.68	4.37	4.71
26	4.01	4.23	4.09	6.45	6.61	4.67	5.58	6.77	6.20	4.63	4.32	4.55
27	4.04	4.33	4.27	6.21	6.07	4.82	6.62	6.55	6.16	4.68	4.33	4.49
28	4.02	4.36	4.29	6.18	5.65	4.73	6.99	6.47	6.76	4.75	4.31	4.47
29	4.01	3.97	4.36	6.17	---	4.83	7.01	6.45	7.06	4.60	4.30	4.46
30	4.02	4.02	4.42	6.36	---	4.55	7.30	6.65	6.74	4.43	4.29	4.45
31	4.03	---	4.17	6.50	---	4.32	---	7.13	---	4.33	4.54	---
MAX	4.55	4.36	5.41	9.40	8.81	6.17	7.38	8.92	7.61	7.53	5.80	7.08
MIN	3.70	3.93	3.73	4.20	4.81	4.23	4.32	5.64	5.94	4.33	4.27	4.45

MERMENTAU RIVER BASIN

08012400 MERMENTAU RIVER AT LAKE ARTHUR, LA

LOCATION.--Lat 30°04'18", long 92°38'55", T.11 S., R.3 W., sec.13, Vermilion Parish, Hydrologic Unit 08080202, on southwest side of Citco Wharf, 1.1 mi upstream from State Highway 14 bridge, 3.1 mi downstream from Bayou Queue de Tortue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1984 to current year (gage height only). Records collected at same site intermittently, 1952-55. Daily stages Mar. 30, 1956 to Sept. 30, 1984 are in reports of the U.S. Army Corps of Engineers, New Orleans District.

GAGE.--Water-stage recorder. Datum of gage is 1.78 ft below National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1987, at datum 3.56 ft below National Geodetic Vertical Datum of 1929 (when datum is applied to gage heights as published).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.20 ft Nov. 3, 1985; minimum, 1.18 ft Aug. 15, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 7.50 ft mean low Gulf, May 20, 1980; minimum, -0.17 ft, mean low Gulf, June 17, 1963, from reports of the U.S. Army Corps of Engineers, New Orleans District.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.86 ft, May 17; minimum, 2.57 ft, Oct. 5, but may have been lower during periods of no gage-height record, Oct. 8 to Jan. 29, Aug. 18 to Sept. 30.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.63	---	---	---	4.08	3.81	2.84	4.26	4.83	3.71	2.75	---
2	2.68	---	---	---	4.03	3.81	2.88	4.28	4.69	3.65	2.79	---
3	2.81	---	---	---	3.94	3.68	2.91	4.38	4.55	3.59	2.83	---
4	2.70	---	---	---	3.87	3.60	2.90	4.32	4.42	3.56	2.81	---
5	2.64	---	---	---	4.18	3.72	2.83	4.34	4.25	3.51	2.82	---
6	2.70	---	---	---	4.31	3.76	2.89	4.05	4.16	3.62	2.86	---
7	2.71	---	---	---	4.30	3.48	2.98	3.97	4.15	3.78	2.88	---
8	---	---	---	---	4.23	3.19	2.95	4.38	4.14	3.95	2.87	---
9	---	---	---	---	4.07	3.06	2.91	4.82	4.08	4.00	2.87	---
10	---	---	---	---	3.91	3.09	2.79	5.13	4.25	4.01	2.89	---
11	---	---	---	---	3.76	3.15	3.04	5.40	4.42	3.95	2.90	---
12	---	---	---	---	3.69	3.18	3.31	5.61	4.49	3.87	2.88	---
13	---	---	---	---	3.73	3.05	3.44	5.70	4.47	3.79	2.93	---
14	---	---	---	---	3.45	2.80	3.47	5.61	4.43	3.66	3.03	---
15	---	---	---	---	3.13	2.75	3.81	5.71	4.38	3.52	3.04	---
16	---	---	---	---	3.18	2.90	4.00	5.81	4.26	3.43	3.08	---
17	---	---	---	---	3.39	3.12	4.11	5.82	4.15	3.33	3.17	---
18	---	---	---	---	3.40	3.08	4.26	5.73	4.08	3.29	---	---
19	---	---	---	---	3.34	3.11	4.27	5.62	4.04	3.27	---	---
20	---	---	---	---	3.16	3.18	4.15	5.50	3.97	3.26	---	---
21	---	---	---	---	3.48	3.24	4.02	5.35	3.95	3.20	---	---
22	---	---	---	---	3.90	3.36	4.01	5.18	3.89	3.19	---	---
23	---	---	---	---	3.85	3.16	3.84	5.04	3.84	3.18	---	---
24	---	---	---	---	3.87	3.06	3.75	5.03	3.75	3.13	---	---
25	---	---	---	---	3.77	3.09	3.73	5.00	3.82	3.10	---	---
26	---	---	---	---	3.58	3.21	3.86	4.89	3.79	3.05	---	---
27	---	---	---	---	3.59	3.29	4.17	4.79	3.72	3.04	---	---
28	---	---	---	---	3.55	3.25	4.31	4.76	3.82	2.98	---	---
29	---	---	---	---	---	3.14	4.34	4.76	3.87	2.86	---	---
30	---	---	---	4.17	---	2.77	4.28	4.83	3.83	2.82	---	---
31	---	---	---	4.04	---	2.79	---	4.89	---	2.76	---	---
MAX	---	---	---	---	4.31	3.81	4.34	5.82	4.83	4.01	---	---
MIN	---	---	---	---	3.13	2.75	2.79	3.97	3.72	2.76	---	---

08012470 BAYOU LACASSINE NEAR LAKE ARTHUR, LA

LOCATION.--Lat 30°04'12", long 92°52'43", in SE 1/4 SE 1/4 sec.21, T.11 S., R.5 W., Jefferson Davis Parish, Hydrologic Unit 08080202, at bridge on State Highway 14, 12.9 mi west of Lake Arthur, and 16.8 mi upstream from Intracoastal Waterway.

DRAINAGE AREA.--299 mi².

PERIOD OF RECORD.--Annual peaks, water years 1969-74, October 1974 to September 1985 (gage height only), October 1985 to current year.

GAGE.--Water-stage recorder and electromagnetic flowmeter. Datum of gage is 7.00 ft below National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development, Office of Highways); prior to Oct. 1, 1974, nonrecording gage at same site at datum 0.85 ft lower.

REMARKS.--Records poor. No gage-height or velocity records: Oct. 6 to Nov. 9, Mar. 21-22, 26-29, Apr. 10, Apr. 26 to Sept. 30. Discharge affected by wind and tide at all stages. Reverse flow at times during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.72 ft, May 19, 1980; minimum gage height, 7.25 ft, Mar. 18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum positive daily discharge, 5,520 ft³/s, Jan. 12; maximum negative daily discharge, -790 ft³/s, Mar. 16; no flow at times during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-22	---	358	618	1610	-61	-156	---	---	---	---	---
2	-102	---	350	769	1070	1380	-201	---	---	---	---	---
3	77	---	1430	2470	491	1850	-328	---	---	---	---	---
4	143	---	1490	3230	-276	960	-140	---	---	---	---	---
5	110	---	736	2670	331	-200	-324	---	---	---	---	---
6	---	---	479	1840	1050	47	-81	---	---	---	---	---
7	---	---	958	1810	814	24	-140	---	---	---	---	---
8	---	---	629	1210	197	154	63	---	---	---	---	---
9	---	---	566	449	-155	-150	93	---	---	---	---	---
10	---	442	569	1880	-160	-299	---	---	---	---	---	---
11	---	93	504	4610	-198	-462	-243	---	---	---	---	---
12	---	100	580	5520	-555	-438	-450	---	---	---	---	---
13	---	83	629	4560	-347	-217	-205	---	---	---	---	---
14	---	136	532	3580	235	-22	165	---	---	---	---	---
15	---	186	602	2870	471	-413	2400	---	---	---	---	---
16	---	218	509	2680	-544	-790	3070	---	---	---	---	---
17	---	135	541	2640	-406	-401	2590	---	---	---	---	---
18	---	197	716	2040	-433	144	1910	---	---	---	---	---
19	---	346	616	3670	87	-296	1160	---	---	---	---	---
20	---	267	576	3650	78	-373	1130	---	---	---	---	---
21	---	281	551	3330	102	---	524	---	---	---	---	---
22	---	373	977	2500	1290	---	20	---	---	---	---	---
23	---	175	935	1660	1300	24	259	---	---	---	---	---
24	---	303	593	1590	583	-25	-177	---	---	---	---	---
25	---	328	544	1830	156	-293	-323	---	---	---	---	---
26	---	304	503	1650	54	---	---	---	---	---	---	---
27	---	184	729	1000	-100	---	---	---	---	---	---	---
28	---	761	973	868	-280	---	---	---	---	---	---	---
29	---	281	785	-80	---	---	---	---	---	---	---	---
30	---	260	965	1200	---	205	---	---	---	---	---	---
31	---	---	727	2140	---	-15	---	---	---	---	---	---
TOTAL	---	---	21652	70454	6465	---	---	---	---	---	---	---
MEAN	---	---	698	2273	231	---	---	---	---	---	---	---

MERMENTAU RIVER BASIN

08012470 BAYOU LACASSINE NEAR LAKE ARTHUR, LA--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.23	---	8.20	8.28	9.66	9.34	8.39	9.68	10.38	9.16	8.35	8.82
2	8.31	---	8.18	8.41	9.59	9.41	8.48	9.75	10.22	9.11	8.36	8.88
3	8.43	---	8.26	8.71	9.50	9.28	8.53	9.88	10.06	9.07	8.42	8.98
4	8.31	---	8.13	9.01	9.46	9.17	8.52	9.82	9.91	9.04	---	9.04
5	8.28	---	8.38	9.15	9.66	9.26	8.44	9.81	9.74	9.14	---	9.07
6	---	---	8.47	9.15	9.72	9.20	8.50	9.60	9.65	9.30	---	9.19
7	---	---	8.37	9.01	9.65	9.04	8.58	9.58	9.73	9.49	---	9.31
8	---	---	8.39	8.90	9.56	8.81	8.52	9.90	9.70	9.57	---	9.33
9	---	---	8.44	8.88	9.48	8.66	8.47	10.22	9.76	9.58	8.42	9.28
10	---	8.11	8.45	9.50	9.37	8.68	8.41	10.37	10.04	9.49	8.38	9.27
11	---	8.20	8.47	10.15	9.28	8.75	8.69	10.48	10.19	9.38	8.45	9.23
12	---	8.19	8.50	10.42	9.24	8.77	8.95	10.47	10.24	9.25	8.58	9.23
13	---	8.16	8.44	10.45	9.22	8.58	9.09	10.40	10.20	9.11	8.60	9.22
14	---	8.18	8.41	10.53	9.00	8.38	9.09	10.35	10.12	9.00	8.66	9.20
15	---	8.22	8.41	10.59	8.72	8.40	9.33	10.62	9.97	8.94	8.71	9.18
16	---	8.16	8.40	10.42	8.83	8.56	9.62	10.98	9.79	8.85	8.75	9.12
17	---	8.07	8.52	10.30	9.00	8.75	9.71	11.12	9.68	8.82	8.75	9.05
18	---	8.16	8.37	10.28	9.05	8.67	9.68	11.15	9.63	8.82	8.69	8.99
19	---	8.18	8.33	10.44	9.00	8.70	9.61	11.04	9.60	8.78	8.64	8.85
20	---	8.22	8.43	10.44	8.78	8.78	9.49	10.97	9.51	8.77	8.64	8.68
21	---	8.25	8.60	10.17	9.00	8.84	9.42	10.86	9.44	8.73	8.60	8.70
22	---	8.19	8.38	10.04	9.20	8.94	9.45	10.73	9.42	8.66	8.56	8.75
23	---	8.12	7.98	9.96	9.15	8.74	9.30	10.63	9.40	8.62	8.52	8.76
24	---	8.18	7.63	9.86	9.20	8.64	9.27	10.55	9.33	8.61	8.48	8.80
25	---	8.25	7.72	9.88	9.12	8.68	9.28	10.51	9.28	8.57	8.42	8.64
26	---	8.37	8.15	9.84	8.98	8.81	9.41	10.47	9.22	8.45	8.40	8.59
27	---	8.53	8.41	9.78	9.04	8.86	9.66	10.36	9.30	8.37	8.41	8.57
28	---	8.32	8.40	9.73	9.09	8.82	9.77	10.31	9.36	8.34	8.40	8.57
29	---	7.95	8.48	9.72	---	8.71	9.79	10.33	9.33	8.30	8.38	8.56
30	---	8.13	8.42	9.73	---	8.43	9.71	10.40	9.23	8.31	8.39	8.57
31	---	---	8.15	9.65	---	8.34	---	10.46	---	8.36	8.63	---
MAX	---	---	8.60	10.59	9.72	9.41	9.79	11.15	10.38	9.58	---	9.33
MIN	---	---	7.63	8.28	8.72	8.34	8.39	9.58	9.22	8.30	---	8.56

08013000 CALCASIEU RIVER NEAR GLENMORA, LA

LOCATION.--Lat 30°59'45", long 92°40'25", in SE 1/4 SE 1/4 sec.4, T.1 S., R.3 W., Louisiana Meridian, Rapides Parish, Hydrologic Unit 08080203, on right bank on downstream side of bridge on State Highway 113, 1.0 mi upstream from Prairie Branch, and 4.6 mi northwest of Glenmora.

DRAINAGE AREA.--499 mi².

PERIOD OF RECORD.--August 1943 to current year.

REVISED RECORDS.--WSP 1118: 1944-47.

GAGE.--Water-stage recorder. Datum of gage is 110.77 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 19, 1949, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records fair. Several measurements of water temperature were made during the year. Gage-height telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	2300	6,800	14.79	Apr. 16	0122	8,200	15.15
Jan. 17	2118	4,170	14.04	May 1	2315	7,060	14.86
Feb. 25	0955	6,470	14.70	May 9	0442	*10,100	*15.58
Mar. 1	1308	4,240	14.06				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	35	288	775	1450	3730	2600	6590	1430	1830	140	124
2	29	33	217	1440	1080	3810	2240	6370	1290	1660	155	138
3	29	31	137	1610	698	3450	1860	4700	1300	1470	123	184
4	29	31	121	1590	499	3090	1470	3930	1370	1380	96	304
5	28	33	106	1750	432	2830	840	5080	1240	1430	83	448
6	28	33	88	2390	532	2940	405	5270	848	1630	75	590
7	28	32	95	3870	685	3260	282	7570	480	1930	71	888
8	31	32	177	3910	907	2850	356	8990	359	1920	78	1130
9	32	42	210	4020	1080	2200	848	9780	408	1980	111	1250
10	30	46	224	5750	1350	1550	1540	8900	431	2640	137	1210
11	28	49	184	6510	1890	963	3020	9250	390	2720	314	1090
12	28	59	147	5280	2530	524	4160	7800	306	2300	675	951
13	29	61	126	3980	2150	344	7090	5800	357	1890	1040	784
14	29	55	108	3560	1470	264	6680	4400	451	1520	1380	528
15	28	47	92	3800	829	223	7540	3640	587	936	1680	346
16	27	45	80	3750	449	205	8000	2980	667	448	1780	258
17	27	46	74	4000	313	227	7200	2360	579	248	1940	200
18	26	44	83	3910	272	287	6060	2060	388	180	2300	154
19	25	41	96	3340	473	340	4830	1910	255	147	2560	157
20	25	38	123	3150	950	413	4070	1690	228	140	2540	144
21	29	36	147	3070	1340	441	3810	1780	711	121	2730	120
22	63	35	921	2780	2040	423	3360	2000	1360	129	2570	104
23	87	36	1590	2350	2580	372	2780	1960	1730	132	2160	100
24	63	35	1200	1940	4570	303	2320	1760	1660	117	1570	111
25	61	35	1020	1690	6340	236	2010	1630	1260	102	1040	109
26	51	45	954	1660	5470	202	1650	1580	1410	93	636	126
27	45	50	838	1620	4260	183	1280	1550	2380	92	340	130
28	39	53	674	e1600	3360	164	832	1300	2640	86	199	195
29	39	64	627	e1550	---	836	1180	945	2510	92	155	209
30	40	169	676	e1500	---	2230	3890	820	2100	99	135	164
31	37	---	694	e1490	---	2720	---	1540	---	102	128	---
TOTAL	1120	1391	12117	89635	49999	41610	94203	125935	31125	29564	28941	12246
MEAN	36.1	46.4	391	2891	1786	1342	3140	4062	1037	954	934	408
MAX	87	169	1590	6510	6340	3810	8000	9780	2640	2720	2730	1250
MIN	25	31	74	775	272	164	282	820	228	86	71	100
AC-FT	2220	2760	24030	177800	99170	82530	186900	249800	61740	58640	57400	24290
CFSM	.07	.09	.78	5.79	3.58	2.69	6.29	8.14	2.08	1.91	1.87	.82
IN.	.08	.10	.90	6.68	3.73	3.10	7.02	9.39	2.32	2.20	2.16	.91

e Estimated.

08013000 CALCASIEU RIVER NEAR GLENMORA, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1991, BY WATER YEAR (WY)

MEAN	222	505	1079	1517	1610	1243	1071	1086	419	279	162	181
MAX	2460	3956	6770	4612	4901	3374	3165	10500	3865	4535	1978	1595
(WY)	1986	1958	1983	1947	1966	1973	1952	1953	1989	1989	1955	1958
MIN	16.5	25.2	29.4	58.3	149	103	91.9	45.3	41.1	24.8	20.0	17.0
(WY)	1957	1955	1955	1981	1954	1954	1981	1963	1948	1954	1956	1954

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1944 - 1991		
ANNUAL TOTAL	302096		517886				
ANNUAL MEAN	828		1419				
HIGHEST ANNUAL MEAN					1659 1989		
LOWEST ANNUAL MEAN					227 1970		
HIGHEST DAILY MEAN	18600	Jan 21	9780	May 9	55900	May 19	1953
LOWEST DAILY MEAN	25	Oct 19	25	Oct 19	15	Oct 7	1954
ANNUAL SEVEN-DAY MINIMUM	27	Oct 14	27	Oct 14	16	Oct 3	1954
INSTANTANEOUS PEAK FLOW			10100	May 9	59500	May 19	1953
INSTANTANEOUS PEAK STAGE			15.58	May 9	21.55	May 19	1953
INSTANTANEOUS LOW FLOW			24	Oct 20	15	Sep 27, 28, Oct 7-9	1954
					Oct 18 1956		
INSTANTANEOUS LOW STAGE			4.74	Oct 20	3.86	Oct 18	1956
ANNUAL RUNOFF (AC-FT)	599200		1027000		563300		
ANNUAL RUNOFF (CFSM)	1.66		2.84		1.56		
ANNUAL RUNOFF (INCHES)	22.52		38.61		21.17		
10 PERCENT EXCEEDS	2050		3880		2080		
50 PERCENT EXCEEDS	123		676		170		
90 PERCENT EXCEEDS	35		39		31		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.86	4.98	8.42	10.82	12.57	13.87	13.42	14.73	12.22	12.76	7.08	6.85
2	4.85	4.94	7.77	12.08	11.94	13.92	13.23	14.67	11.99	12.59	7.27	7.05
3	4.84	4.90	6.88	12.36	11.10	13.78	13.01	14.15	12.00	12.28	6.84	7.59
4	4.84	4.90	6.65	12.33	10.28	13.64	12.59	13.87	12.12	12.14	6.40	8.70
5	4.83	4.95	6.42	12.49	9.89	13.52	11.40	14.27	11.90	12.22	6.18	9.67
6	4.82	4.93	6.11	12.99	10.46	13.57	9.71	14.34	11.15	12.55	6.03	10.41
7	4.82	4.93	6.22	13.79	11.08	13.71	8.85	14.99	9.84	12.83	5.94	11.25
8	4.89	4.93	7.36	13.81	11.61	13.53	9.35	15.33	9.11	12.81	6.06	11.72
9	4.92	5.15	7.72	13.85	11.95	13.21	11.44	15.50	9.43	12.86	6.66	11.93
10	4.87	5.24	7.87	14.47	12.40	12.68	12.62	15.31	9.57	13.27	6.98	11.86
11	4.83	5.32	7.44	14.71	13.00	11.70	13.60	15.39	9.31	13.32	8.76	11.64
12	4.83	5.52	7.01	14.36	13.38	10.39	14.02	15.05	8.72	13.08	10.52	11.38
13	4.85	5.56	6.73	13.97	13.18	9.31	14.87	14.50	9.09	12.79	11.56	11.02
14	4.84	5.43	6.44	13.82	12.58	8.71	14.76	14.05	9.69	12.36	12.13	10.10
15	4.82	5.27	6.18	13.91	11.40	8.34	14.98	13.75	10.41	11.32	12.61	9.01
16	4.81	5.22	5.96	13.98	9.98	8.15	15.10	13.45	10.73	9.63	12.71	8.33
17	4.80	5.25	5.84	13.77	9.09	8.37	14.90	13.11	10.37	8.24	12.83	7.77
18	4.78	5.21	6.01	13.95	8.77	8.90	14.58	12.92	9.29	7.56	13.07	7.26
19	4.76	5.13	6.24	13.74	10.05	9.29	14.20	12.81	8.31	7.17	13.23	7.30
20	4.76	5.06	6.68	13.66	11.70	9.78	13.93	12.63	8.07	7.07	13.22	7.13
21	4.84	5.01	7.01	13.63	12.36	9.95	13.82	12.71	10.56	6.81	13.32	6.79
22	5.57	5.00	10.85	13.50	13.12	9.84	13.63	12.88	12.10	6.93	13.23	6.54
23	6.07	5.02	12.32	13.29	13.41	9.52	13.35	12.85	12.67	6.97	12.98	6.48
24	5.62	5.00	11.68	13.06	14.14	9.02	13.08	12.70	12.58	6.74	12.43	6.66
25	5.56	5.00	11.35	12.89	14.66	8.46	12.88	12.55	11.94	6.51	11.54	6.63
26	5.36	5.21	11.23	12.86	14.41	8.12	12.57	12.47	12.16	6.36	10.54	6.88
27	5.22	5.34	10.98	12.80	14.06	7.91	11.98	12.42	13.12	6.33	8.94	6.94
28	5.08	5.39	10.57	---	13.75	7.69	11.12	12.00	13.27	6.23	7.76	7.72
29	5.09	5.63	10.44	---	---	10.80	11.73	11.37	13.20	6.34	7.27	7.87
30	5.11	7.23	10.60	---	---	13.20	13.80	11.09	12.94	6.45	7.01	7.37
31	5.03	---	10.64	---	---	13.47	---	12.40	---	6.51	6.91	---
MAX	6.07	7.23	12.32	---	14.66	13.92	15.10	15.50	13.27	13.32	13.32	11.93
MIN	4.76	4.90	5.84	---	8.77	7.69	8.85	11.09	8.07	6.23	5.94	6.48

CALCASIEU RIVER BASIN

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08013500 CALCASIEU RIVER NEAR OBERLIN, LA

LOCATION.--Lat 30°38'25", long 92°48'50", in NW 1/4 NE 1/4 sec.7, T.5 S., R.4 W., Allen Parish, Hydrologic Unit 08080203, near right bank on downstream side of bridge on State Highway 26, 3.0 mi northwest of Oberlin, and 15 mi upstream from Whisky Chitto Creek.

DRAINAGE AREA.--753 mi².

PERIOD OF RECORD.--August 1922 to January 1925, September 1938 to current year.

REVISED RECORDS.--WSP 1512: 1923, 1939(M).

GAGE.--Water-stage recorder. Datum of gage is 39.43 ft above National Geodetic Vertical Datum of 1929. Prior to February 1925 at datum about 2.5 ft higher. September 1938 to Aug. 7, 1939, nonrecording gage at same site and present datum.

REMARKS.--Estimated daily discharges. Records good. Prior to November 1981 paper mill at Elizabeth pumps about 11 ft³/s of water from wells which was discharged into Mill Creek 20 mi upstream from station. Some small diversions from April to September for rice irrigation upstream from station.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 16	1630	10,900	17.80	May 9	2100	*17,400	*19.00

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	53	92	649	1900	4670	1340	2570	1900	2590	289	666
2	43	52	101	1110	1780	4040	1750	2300	1890	2270	287	477
3	42	50	161	3290	1660	4180	2010	3540	1800	1950	295	445
4	43	50	312	3910	1480	5420	2060	5400	1470	1770	309	443
5	46	53	390	3490	1350	4770	1940	5710	1250	2210	305	490
6	44	55	273	2900	1340	3690	1720	6130	1220	2240	283	797
7	40	52	229	2400	1270	3000	1420	6130	1520	2530	269	991
8	39	52	324	2360	e1680	2650	1050	7530	1660	2950	264	955
9	39	60	302	2490	e1860	2570	764	15100	1250	3000	263	830
10	39	70	256	3480	e2250	2630	686	16000	880	2580	330	854
11	40	71	244	5870	e2400	2470	960	13200	1270	2290	455	917
12	41	73	246	6800	e1800	2100	1940	10100	2080	2090	1030	948
13	41	68	234	6760	1230	1630	2490	8640	2790	2050	1240	924
14	40	66	208	5620	1520	1160	3470	7840	2510	2030	1190	860
15	39	69	185	4240	1800	842	7740	7090	1510	1860	1010	783
16	39	68	167	4350	1790	669	10600	6550	923	1720	1100	688
17	39	64	151	5640	1420	617	10200	5500	804	1340	1290	564
18	38	61	138	5750	975	634	8650	4440	805	930	1380	468
19	38	58	129	5820	773	641	7430	3990	889	634	1420	411
20	38	57	127	5440	1130	623	6420	3460	963	497	1470	374
21	47	56	150	4990	2120	605	5320	2880	828	443	1590	391
22	74	55	404	4410	3970	615	4290	2300	670	411	1710	366
23	90	55	1020	3830	4560	631	3600	1900	730	384	1780	329
24	79	54	1460	3580	4330	631	3190	1800	1180	367	1830	316
25	86	53	1480	3890	3650	606	2860	1870	1510	359	1800	452
26	82	51	1300	3810	3210	562	2470	2020	2030	348	1610	522
27	72	51	1040	3390	4070	504	2100	1830	2150	331	1290	347
28	68	68	937	3030	5010	456	1920	1670	2280	315	983	313
29	62	108	893	2720	---	461	2270	1560	2600	303	726	299
30	58	99	805	2420	---	796	2770	1500	2800	294	523	310
31	54	---	715	2120	---	1110	---	1760	---	289	552	---
TOTAL	1585	1852	14473	120559	62328	55983	105430	162310	46162	43375	28873	17530
MEAN	51.1	61.7	467	3889	2226	1806	3514	5236	1539	1399	931	584
MAX	90	108	1480	6800	5010	5420	10600	16000	2800	3000	1830	991
MIN	38	50	92	649	773	456	686	1500	670	289	263	299
AC-FT	3140	3670	28710	239100	123600	111000	209100	321900	91560	86030	57270	34770
CFSM	.07	.08	.62	5.16	2.96	2.40	4.67	6.95	2.04	1.86	1.24	.78
IN.	.08	.09	.72	5.96	3.08	2.77	5.21	8.02	2.28	2.14	1.43	.87

e Estimated

08013500 CALCASIEU RIVER NEAR OBERLIN, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1991, BY WATER YEAR (WY)

MEAN	338	704	1521	2069	2266	1911	1683	1677	691	549	360	318
MAX	4004	6825	10130	6112	6889	5213	7835	17090	4325	9050	4792	3251
(WY)	1985	1958	1983	1947	1966	1973	1923	1953	1950	1989	1940	1979
MIN	33.1	46.6	55.8	98.5	270	235	147	80.5	49.4	48.2	46.6	40.6
(WY)	1957	1925	1955	1981	1954	1986	1981	1963	1988	1956	1954	1954

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1923 - 1991	
ANNUAL TOTAL	350534		660460		1174	
ANNUAL MEAN	960		1809		2409	
HIGHEST ANNUAL MEAN					1983	
LOWEST ANNUAL MEAN					337	
HIGHEST DAILY MEAN	21200		16000		67600	
LOWEST DAILY MEAN	38		38		29	
ANNUAL SEVEN-DAY MINIMUM	39		39		31	
INSTANTANEOUS PEAK FLOW			17400		72800	
INSTANTANEOUS PEAK STAGE			17.80		26.53	
INSTANTANEOUS LOW FLOW			37		30	
INSTANTANEOUS LOW STAGE			1.72		1.18	
ANNUAL RUNOFF (AC-FT)	695300		1310000		850500	
ANNUAL RUNOFF (CFSM)	1.28		2.40		1.56	
ANNUAL RUNOFF (INCHES)	17.32		32.63		21.18	
10 PERCENT EXCEEDS	2270		4420		3040	
50 PERCENT EXCEEDS	202		1100		331	
90 PERCENT EXCEEDS	49		56		60	

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.83	1.91	2.28	5.29	9.41	14.31	7.79	10.92	9.40	10.96	3.55	5.36
2	1.81	1.90	2.35	6.86	9.07	13.47	9.01	10.36	9.36	10.28	3.54	4.52
3	1.80	1.87	2.79	12.24	8.76	13.65	9.67	12.64	9.13	9.52	3.59	4.37
4	1.81	1.87	3.68	13.28	8.27	15.09	9.80	15.07	8.23	9.06	3.66	4.36
5	1.85	1.91	4.09	12.61	7.88	14.41	9.50	15.34	7.55	10.16	3.64	4.57
6	1.81	1.93	3.45	11.55	7.82	12.93	8.93	15.67	7.44	10.22	3.52	5.89
7	1.78	1.90	3.20	10.58	7.61	11.75	8.07	15.67	8.36	10.84	3.44	6.63
8	1.76	1.88	3.74	10.49	7.60	11.09	6.67	16.48	8.77	11.66	3.41	6.50
9	1.76	1.99	3.62	10.76	---	10.93	5.48	18.60	7.53	11.76	3.40	6.03
10	1.76	2.11	3.36	12.52	---	11.03	5.12	18.76	6.22	10.95	3.78	6.12
11	1.77	2.12	3.29	15.43	---	10.71	6.29	18.25	7.56	10.35	4.37	6.36
12	1.78	2.14	3.30	16.12	---	9.90	9.48	17.56	9.84	9.87	6.76	6.48
13	1.77	2.08	3.23	16.09	7.46	8.67	10.75	17.05	11.34	9.79	7.52	6.39
14	1.76	2.05	3.07	15.23	8.38	7.12	12.48	16.67	10.77	9.73	7.34	6.14
15	1.75	2.09	2.92	13.77	9.14	5.83	16.53	16.28	8.32	9.28	6.70	5.84
16	1.75	2.08	2.79	13.90	9.12	5.04	17.69	15.96	6.38	8.93	7.01	5.45
17	1.75	2.04	2.68	15.27	8.08	4.80	17.59	15.17	5.92	7.83	7.68	4.92
18	1.74	1.99	2.59	15.38	6.56	4.88	17.04	14.03	5.93	6.40	7.96	4.48
19	1.74	1.96	2.52	15.43	5.80	4.91	16.46	13.40	6.25	5.22	8.08	4.20
20	1.73	1.95	2.51	15.11	7.11	4.82	15.86	12.56	6.54	4.62	8.22	4.01
21	1.85	1.93	2.67	14.65	9.76	4.74	14.97	11.52	6.02	4.36	8.57	4.10
22	2.17	1.91	4.12	14.00	13.37	4.79	13.82	10.36	5.38	4.20	8.90	3.97
23	2.35	1.91	6.72	13.16	14.18	4.87	12.79	9.39	5.62	4.06	9.08	3.77
24	2.23	1.90	8.19	12.76	13.91	4.86	12.10	9.14	7.28	3.98	9.22	3.70
25	2.30	1.89	8.25	13.25	12.87	4.74	11.49	9.33	8.34	3.93	9.13	4.39
26	2.25	1.87	7.72	13.11	12.13	4.53	10.72	9.70	9.72	3.87	8.63	4.72
27	2.15	1.86	6.81	12.43	13.50	4.27	9.89	9.22	10.02	3.78	7.68	3.87
28	2.09	2.06	6.43	11.80	14.67	4.04	9.46	8.79	10.32	3.69	6.60	3.69
29	2.03	2.48	6.27	11.22	---	4.06	10.25	8.50	10.98	3.63	5.61	3.61
30	1.97	2.39	5.93	10.61	---	5.62	11.32	8.31	11.37	3.58	4.73	3.67
31	1.92	---	5.57	9.95	---	6.93	---	9.02	---	3.55	4.86	---
MAX	2.35	2.48	8.25	16.12	---	15.09	17.69	18.76	11.37	11.76	9.22	6.63
MIN	1.73	1.86	2.28	5.29	---	4.04	5.12	8.31	5.38	3.55	3.40	3.61

08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA

LOCATION.--Lat 30°41'55", long 92°53'35", in NE 1/4 NE 1/4 sec.20, T.4 S., R.5 W., Allen Parish, Hydrologic Unit 08080204, near left bank on downstream side of bridge on State Highway 26, 1.0 mi downstream from Tenmile Creek, 8.0 mi upstream from Bundick Creek, and 10 mi northwest of Oberlin.

DRAINAGE AREA.--510 mi².

PERIOD OF RECORD.--January 1939 to current year.

REVISED RECORDS.--WDR LA-84-1: 1983(M).

GAGE.--Water-stage recorder. Datum of gage is 46.24 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 19, 1944, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: June 18-20, July 14 to Aug. 10, Aug. 20 to Sept. 6, Sept. 10-30. Records fair. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1886 reached a stage of 25.7 ft, from floodmarks preserved by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 3	1715	3,470	12.52	Apr. 1	1456	5,200	14.10
Jan. 13	2239	5,840	15.58	Apr. 16	1913	6,890	16.60
Jan. 19	2206	3,230	12.05	May 6	0930	3,390	12.32
Feb. 23	0635	4,220	13.46	May 10	2229	*11,000	*19.42
Mar. 5	0155	4,540	13.72				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	184	516	443	841	1280	5020	2640	2540	1480	e390	e450
2	181	183	353	967	691	2900	3720	2500	2380	1210	e400	e630
3	180	181	300	3200	601	3690	1570	2120	1900	886	e350	e660
4	180	183	297	3090	557	4350	835	1780	1090	1330	e320	e620
5	180	190	361	2420	769	4380	689	2910	805	1860	e330	e650
6	180	188	335	1850	1390	3110	660	3360	1360	2370	e390	948
7	184	194	346	1860	1500	1450	618	3170	1840	2520	e330	1060
8	192	218	573	1590	1420	1020	688	3610	1520	2250	e400	906
9	185	232	614	1190	1080	854	1210	6560	978	1760	e460	802
10	180	289	500	2190	738	741	1780	9790	998	1480	e370	e700
11	178	297	368	4720	616	660	1940	10000	2240	1190	1610	e650
12	178	326	312	5300	548	601	1890	7840	1960	850	2470	e620
13	179	257	283	5640	502	562	2190	5630	2160	692	1970	e600
14	179	223	267	5450	474	540	2600	3000	1270	e670	1620	e580
15	178	208	257	4230	455	527	5290	1710	826	e630	1460	e550
16	177	200	251	3200	438	501	6760	2390	691	e640	1580	e540
17	177	196	252	2570	418	504	6840	2380	647	e670	1620	e500
18	176	193	291	2390	410	600	6340	2760	e620	e650	1140	e450
19	175	191	399	2990	579	797	5170	2680	e600	e550	778	e420
20	175	190	454	3060	1470	689	3090	2470	e590	e480	e680	e400
21	183	188	532	2790	2220	550	1630	2070	654	e400	e600	e390
22	314	187	1230	2780	3750	491	1140	1720	644	e360	e560	e380
23	361	190	1370	2150	4110	462	953	1430	824	e350	e530	e350
24	436	191	1330	1360	3760	450	843	1220	1060	e340	e550	e320
25	308	218	1130	1570	3450	436	762	1050	1210	e330	e570	e400
26	234	243	814	1690	2540	413	707	1250	1640	e340	e600	e650
27	211	218	499	1480	1440	394	668	1570	1810	e350	e650	e640
28	199	211	454	1040	1190	392	1210	1300	2030	e340	e630	e500
29	192	305	504	857	---	1030	1320	1140	1920	e370	e600	e400
30	189	480	569	850	---	2810	2470	1670	1700	e360	e520	e350
31	186	---	489	924	---	3750	---	2440	---	e350	e400	---
TOTAL	6410	6754	16250	75841	37957	40934	70603	96160	40507	28058	24878	17116
MEAN	207	225	524	2446	1356	1320	2353	3102	1350	905	803	571
MAX	436	480	1370	5640	4110	4380	6840	10000	2540	2520	2470	1060
MIN	175	181	251	443	410	392	618	1050	590	330	320	320
AC-FT	12710	13400	32230	150400	75290	81190	140000	190700	80350	55650	49350	33950
CFSM	.41	.44	1.03	4.80	2.66	2.59	4.61	6.08	2.65	1.77	1.57	1.12
IN.	.47	.49	1.19	5.53	2.77	2.99	5.15	7.01	2.95	2.05	1.81	1.25

e Estimated.

CALCASIEU RIVER BASIN

08014500 WHISKY CHITTO CREEK NEAR OBERLIN, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1991, BY WATER YEAR (WY)

MEAN	394	678	1091	1217	1331	1147	1043	1179	674	518	436	376
MAX	2877	4075	6076	3781	3326	3272	3630	12090	4192	4063	4264	2314
(WY)	1985	1958	1983	1974	1984	1973	1949	1953	1989	1989	1940	1958
MIN	99.1	135	144	224	290	261	228	189	155	126	124	115
(WY)	1957	1955	1955	1981	1954	1954	1963	1963	1970	1970	1970	1954

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1940 - 1991

ANNUAL TOTAL	267909		461468									
ANNUAL MEAN	734		1264							838		
HIGHEST ANNUAL MEAN										1643		1953
LOWEST ANNUAL MEAN										286		1970
HIGHEST DAILY MEAN	10900	Jan 27	10000	May 11					108000	May 19	1953	
LOWEST DAILY MEAN	175	Oct 19	175	Oct 19					88	Oct 19	1956	
ANNUAL SEVEN-DAY MINIMUM	177	Oct 14	177	Oct 14					90	Oct 14	1956	
INSTANTANEOUS PEAK FLOW			11000	May 10					144000	May 18	1953	
INSTANTANEOUS PEAK STAGE			19.42	May 10					a32.80	May 18	1953	
INSTANTANEOUS LOW FLOW			175	Oct 18,19,20,21					88	Oct 19,20	1956	
INSTANTANEOUS LOW STAGE			2.55	Oct 18,19,20,21					2.41	Sep 9,10,11	1982	
ANNUAL RUNOFF (AC-FT)	531400		915300						607300			
ANNUAL RUNOFF (CFSM)	1.44		2.48						1.64			
ANNUAL RUNOFF (INCHES)	19.54		33.66						22.33			
10 PERCENT EXCEEDS	1650		2940						1860			
50 PERCENT EXCEEDS	350		660						376			
90 PERCENT EXCEEDS	190		193						163			

a From flood-mark rating curve extended above 37,000 ft³/s on basis of slope-area measurement of peak flow.GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.61	2.62	4.21	3.89	5.50	6.88	13.90	10.68	10.49	7.56	---	---
2	2.60	2.61	3.47	5.70	4.95	11.14	12.19	10.34	10.08	6.70	---	---
3	2.59	2.60	3.21	11.97	4.63	12.57	7.76	9.35	8.77	5.65	---	---
4	2.59	2.61	3.20	11.78	4.46	13.48	5.47	8.42	6.32	7.10	---	---
5	2.59	2.67	3.52	10.18	5.22	13.50	4.95	11.30	5.37	8.66	---	---
6	2.59	2.65	3.39	8.63	7.29	11.41	4.84	12.26	7.15	10.06	---	5.85
7	2.62	2.69	3.43	8.67	7.63	7.44	4.69	11.91	8.60	10.45	---	6.24
8	2.68	2.88	4.45	7.88	7.39	6.09	4.94	12.66	7.67	9.74	---	5.71
9	2.63	2.96	4.62	6.66	6.29	5.54	6.70	16.29	5.96	8.37	---	5.33
10	2.59	3.29	4.14	9.39	5.13	5.13	8.38	18.86	5.99	7.54	---	---
11	2.57	3.33	3.55	14.28	4.69	4.84	8.81	19.03	9.71	6.64	7.94	---
12	2.57	3.47	3.27	14.99	4.43	4.63	8.68	17.56	8.94	5.52	10.31	---
13	2.58	3.12	3.13	15.36	4.24	4.48	9.43	15.32	9.49	4.96	8.99	---
14	2.58	2.91	3.04	15.14	4.13	4.40	10.39	11.34	6.90	---	7.97	---
15	2.57	2.80	2.99	13.63	4.05	4.34	14.56	8.23	5.44	---	7.51	---
16	2.57	2.74	2.95	11.98	3.97	4.24	16.44	10.10	4.95	---	7.85	---
17	2.56	2.71	2.96	10.58	3.89	4.25	16.54	10.10	4.80	---	7.98	---
18	2.56	2.69	3.16	10.12	3.86	4.62	15.94	11.04	---	---	6.50	---
19	2.55	2.67	3.69	11.54	4.53	5.34	14.49	10.86	---	---	5.23	---
20	2.55	2.66	3.94	11.71	7.51	4.95	11.39	10.31	---	---	---	---
21	2.61	2.65	4.25	11.11	9.62	4.43	7.97	9.25	4.85	---	---	---
22	3.39	2.64	6.76	11.10	12.94	4.20	6.51	8.26	4.78	---	---	---
23	3.64	2.66	7.21	9.45	13.34	4.08	5.88	7.40	5.43	---	---	---
24	3.97	2.67	7.10	7.19	12.79	4.03	5.50	6.74	6.25	---	---	---
25	3.38	2.87	6.48	7.82	12.28	3.97	5.21	6.20	6.72	---	---	---
26	2.98	3.04	5.36	8.17	10.35	3.87	5.01	6.84	8.02	---	---	---
27	2.82	2.87	4.14	7.55	7.43	3.79	4.87	7.81	8.53	---	---	---
28	2.73	2.82	3.94	6.15	6.65	3.78	6.70	7.01	9.16	---	---	---
29	2.68	3.35	4.16	5.55	---	5.92	7.04	6.48	8.83	---	---	---
30	2.65	4.15	4.44	5.53	---	10.78	10.25	8.12	8.22	---	---	---
31	2.63	---	4.10	5.78	---	12.35	---	10.25	---	---	---	---
MAX	3.97	4.15	7.21	15.36	13.34	13.50	16.54	19.03	---	---	---	---
MIN	2.55	2.60	2.95	3.89	3.86	3.78	4.69	6.20	---	---	---	---

08015500 CALCASIEU RIVER NEAR KINDER, LA
(National stream-quality accounting network station)

LOCATION.--Lat 30°30'10", long 92°54'55", in NW 1/4 SE 1/4 sec.30, T.6 S., R.5 W., Allen Parish, Hydrologic Unit 08080203, near center of span on downstream side of bridge on U.S. Highway 190, 0.5 mi downstream from Whisky Chitto Creek, and 4.0 mi west of Kinder.

DRAINAGE AREA.--1,700 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1922 to January 1925, October 1938 to September 1957, October 1961 to current year. October 1957 to September 1961 (annual maximums) from National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 11.95 ft above National Geodetic Vertical Datum of 1929. August 1922 to January 1925, water-stage recorder 400 ft downstream at datum 1.77 ft higher. October 1938 to July 9, 1939, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges. Records fair. Prior to November, 1981, paper mill at Elizabeth pumped about 11 ft³/s from wells which was later discharged into Mill Creek 36 mi above station. Water is diverted during period April to September at points just above station and 5.0 mi above station for the irrigation of about 7,500 acres of rice, part of which is below station. The maximum rate of withdrawal is about 100 ft³/s and this diversion results in marked regulation of the low-water flow. Several measurements of water temperature were made during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	351	910	1590	5190	12300	5300	6770	8120	5410	910	1270
2	332	344	816	2210	4760	14800	6030	6120	7940	5200	908	1570
3	326	340	729	7700	4350	18000	5250	6240	6900	4700	833	1580
4	325	338	742	11600	4090	19900	3880	7710	4760	4070	788	1550
5	325	363	911	13300	4660	23300	3410	10200	4460	4810	807	1320
6	328	374	931	11200	5570	23400	3090	11500	3850	5390	878	e1730
7	328	362	839	9510	5930	20500	2790	13600	4180	6620	767	e2200
8	332	367	1020	8780	5700	11300	2350	23000	4570	7600	868	e2100
9	335	498	1280	6710	5440	8240	2180	33700	3680	8290	961	e2000
10	326	680	1200	8700	4850	6870	2550	36400	3530	7740	884	e1950
11	331	643	994	14000	3990	6550	3620	31900	5820	6050	1330	e2000
12	317	630	856	17500	3550	6300	4900	24700	6280	4690	3580	e1950
13	313	610	778	17300	3450	5550	5220	20600	5750	4040	4310	e1900
14	313	529	714	17000	3580	4340	7780	18900	5820	3540	4010	e1800
15	312	468	655	16900	3840	3470	14200	16300	4580	3300	3410	e1650
16	310	434	608	14000	4040	3190	19700	13300	3110	3260	3110	e1500
17	309	408	582	12700	3940	3150	21000	12600	2350	3560	3270	e1300
18	309	387	577	13000	3370	3100	20900	11200	2110	2840	3400	e1100
19	307	373	680	14500	2900	3240	17900	10900	2330	2030	3140	e950
20	309	366	805	15200	3710	3340	13900	9500	2210	1500	2790	861
21	357	361	828	13900	6810	3130	9250	8220	2130	1240	2600	856
22	541	358	1790	12300	14500	2950	7850	6900	1930	1110	2600	857
23	877	367	3640	11400	21400	e2700	6950	5520	1870	1030	2630	792
24	849	369	3590	9860	22200	e2200	5870	4660	2470	988	2640	877
25	778	369	3430	8160	20300	e1800	5050	3900	3460	952	2660	1060
26	628	428	3050	7960	19200	e1400	4330	3830	4000	938	2570	1400
27	521	448	2480	7980	16500	1120	3770	4300	4680	918	2340	1190
28	453	458	2160	7420	12700	1040	4370	4030	5110	856	1970	1010
29	411	556	2020	6430	---	1140	5930	3480	5290	884	1560	872
30	382	813	1930	5870	---	3010	6690	3970	5350	863	1270	772
31	363	---	1790	5590	---	4680	---	5560	---	842	1100	---
TOTAL	12580	13392	43335	330270	220520	226010	226010	379510	128640	105261	64894	41967
MEAN	406	446	1398	10650	7876	7291	7534	12240	4288	3396	2093	1399
MAX	877	813	3640	17500	22200	23400	21000	36400	8120	8290	4310	2200
MIN	307	338	577	1590	2900	1040	2180	3480	1870	842	767	772
AC-FT	24950	26560	85950	655100	437400	448300	448300	752800	255200	208800	128700	83240

e Estimated.

CALCASIEU RIVER BASIN

08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1991, BY WATER YEAR (WY)

MEAN	980	1636	3652	4321	4597	3928	3600	3869	1972	1539	1103	864
MAX	9258	9475	20030	12670	11760	10820	14730	36390	9601	20130	12370	7285
(WY)	1985	1986	1983	1974	1950	1973	1923	1953	1950	1989	1940	1979
MIN	235	298	308	300	819	720	472	378	289	265	214	241
(WY)	1957	1955	1955	1981	1954	1954	1981	1963	1948	1956	1956	1954

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1923 - 1991		
ANNUAL TOTAL	845097			1792389					
ANNUAL MEAN	2315			4911			2670		
HIGHEST ANNUAL MEAN							4979		
LOWEST ANNUAL MEAN							788		
HIGHEST DAILY MEAN	34100	Jan 26		36400	May 10		166000	May 20	1953
LOWEST DAILY MEAN	306	Aug 20		307	Oct 19		140	Aug 15	1956
ANNUAL SEVEN-DAY MINIMUM	310	Oct 14		310	Oct 14		164	Aug 12	1956
INSTANTANEOUS PEAK FLOW				38400	May 10		182000	May 19	1953
INSTANTANEOUS PEAK STAGE				20.48	May 10		32.00	May 19	1953
INSTANTANEOUS LOW FLOW				306	Oct 18,19,20,21		136	Aug 15	1956
INSTANTANEOUS LOW STAGE				1.83	Oct 18,19,20,21		1.42	Sep 30	1981
ANNUAL RUNOFF (AC-FT)	1676000			3555000			1934000		
10 PERCENT EXCEEDS	5640			13400			6190		
50 PERCENT EXCEEDS	839			3110			1030		
90 PERCENT EXCEEDS	336			374			326		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.96	1.96	3.72	5.68	12.35	16.22	12.52	13.89	14.70	12.64	4.13	5.12
2	1.95	1.93	3.42	7.14	11.89	16.84	13.26	13.33	14.60	12.40	4.13	5.89
3	1.93	1.92	3.14	13.53	11.35	17.51	12.88	13.43	14.00	11.80	3.89	5.92
4	1.92	1.91	3.18	16.00	10.98	17.87	11.09	14.46	12.89	10.96	3.75	5.83
5	1.92	2.00	3.71	16.49	11.46	18.44	9.91	15.53	11.44	11.64	3.81	5.25
6	1.93	2.04	3.78	15.86	12.80	18.47	9.27	15.98	10.62	12.62	4.03	---
7	1.92	1.99	3.49	15.31	13.16	17.96	8.67	16.57	11.10	13.37	3.67	---
8	1.93	2.00	4.04	15.02	12.94	16.17	7.77	18.02	11.64	14.41	3.99	---
9	1.94	2.44	4.81	14.09	12.67	14.74	7.41	19.88	10.75	14.79	4.27	---
10	1.91	3.02	4.59	14.51	12.00	13.96	8.20	20.23	10.07	14.49	4.04	---
11	1.93	2.90	3.97	16.48	10.83	13.71	9.88	19.68	12.49	13.59	5.30	---
12	1.88	2.86	3.54	17.42	10.16	13.49	11.74	18.66	13.47	12.21	10.20	---
13	1.86	2.79	3.30	17.39	10.01	12.78	12.43	18.00	13.00	10.90	11.29	---
14	1.85	2.52	3.09	17.32	10.21	11.66	13.85	17.70	13.06	10.15	10.87	---
15	1.85	2.33	2.90	17.30	10.61	10.40	16.40	17.18	12.01	9.70	9.90	---
16	1.84	2.22	2.75	16.67	10.91	9.48	17.83	16.50	9.76	9.61	9.32	---
17	1.84	2.13	2.66	16.34	10.76	9.40	18.08	16.30	7.77	10.17	9.65	---
18	1.84	2.06	2.64	16.42	9.83	9.30	18.05	15.90	7.23	8.78	9.91	---
19	1.83	2.01	2.98	16.78	8.89	9.59	17.51	15.80	7.72	7.02	9.39	---
20	1.83	1.98	3.39	16.94	10.32	9.78	16.64	15.30	7.46	5.75	8.67	4.15
21	1.99	1.96	3.46	16.65	13.14	9.37	15.38	14.75	7.27	5.09	8.28	3.90
22	2.60	1.95	6.21	16.22	16.36	9.01	14.55	14.00	6.82	4.73	8.28	3.91
23	3.68	1.98	9.96	15.96	18.13	---	14.00	12.75	6.66	4.50	8.34	3.70
24	3.59	1.99	10.26	15.43	18.27	---	13.10	11.50	8.00	4.38	8.36	3.97
25	3.37	1.99	9.99	14.72	17.95	---	12.24	10.70	9.99	4.27	8.39	4.54
26	2.88	2.18	9.26	14.61	17.75	---	11.32	10.60	10.84	4.23	8.23	5.44
27	2.53	2.24	8.04	14.62	17.23	4.87	10.50	11.28	11.78	4.17	7.73	4.88
28	2.31	2.28	7.25	14.30	16.32	4.67	11.02	10.72	12.31	3.97	6.88	4.38
29	2.17	2.59	6.88	13.60	---	4.93	12.78	10.05	12.51	4.05	5.88	3.94
30	2.07	3.42	6.64	13.11	---	9.08	13.82	10.80	12.58	3.98	5.12	3.63
31	2.01	---	6.24	12.83	---	11.44	---	12.80	---	3.92	4.66	---
MAX	3.68	3.42	10.26	17.42	18.27	---	18.08	20.23	14.70	14.79	11.29	---
MIN	1.83	1.91	2.64	5.68	8.89	---	7.41	10.05	6.66	3.92	3.67	---

08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1944, 1966-69, 1973-75, 1979 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1979 to September 1982.

WATER TEMPERATURES: June 1979 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 139 micromhos June 24, 1979; minimum daily, 13 micromhos Sept. 21, 1979.

WATER TEMPERATURES: Maximum daily, 34.0 °C Aug. 26, 1981; minimum daily, 6.0 °C Jan. 12, 1981.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 187 micromhos was observed July 16, 1969. A water temperature of 5.0 °C was observed Jan. 17, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (µS/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990 17...	1315	309	70	6.54	22.0	15	7.0	8.6	0.7	K110	100
JAN 1991 24...	1130	9860	29	5.95	9.0	60	22	9.3	1.4	K120	K76
APR 25...	1100	5050	33	6.29	25.0	80	18	7.4	2.2	210	230
JUL 11...	1100	6050	27	6.42	29.0	60	18	6.8	1.9	K90	960

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 1990 17...	12	3.3	1.0	8.3	1.6	21	1.9	6.2	0.3	28	59
JAN 1991 24...	7	1.8	0.61	2.2	1.0	5	3.6	2.6	<0.1	7.3	39
APR 25...	10	2.6	0.82	2.5	1.3	8	--	2.9	0.1	8.6	43
JUL 11...	9	2.3	0.79	1.9	0.90	7	--	2.0	<0.1	7.6	42

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (µG/L AS AL)	ARSENIC DIS-SOLVED (µG/L AS AS)
OCT 1990 17...	63	<0.01	<0.10	0.03	0.02	0.5	0.02	0.02	<0.01	60	<1
JAN 1991 24...	22	<0.01	<0.10	0.02	0.03	0.4	0.04	0.02	0.01	520	<1
APR 25...	--	<0.01	0.07	0.09	0.07	0.7	0.07	0.02	<0.01	270	<1
JUL 11...	--	0.01	0.14	0.06	0.05	0.7	0.05	0.03	0.02	160	<1

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

CALCASIEU RIVER BASIN

08015500 CALCASIEU RIVER NEAR KINDER, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COBALT, DIS- SOLVED (µG/L AS CO)	COPPER, DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	LEAD, DIS- SOLVED (µG/L AS PB)	LITHIUM DIS- SOLVED (µG/L AS LI)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (µG/L AS HG)
OCT 1990											
17...	26	<0.5	<1	<1	<3	<1	130	<1	<4	27	<0.1
JAN 1991											
24...	28	<0.5	<1	1	<3	2	330	1	<4	67	<0.1
APR											
25...	35	<0.5	<1	<1	<3	<1	430	<1	<4	87	<0.1
JUL											
11...	31	<0.5	<1	1	<3	3	390	<1	<4	72	<0.1

DATE	MOLYB- DENUM, DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	STRON- TIUM, DIS- SOLVED (µG/L AS SR)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, DIS- SOLVED (µG/L AS ZN)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1990										
17...	<10	<1	<1	<1	30	<6	16	9	7.5	96
JAN 1991										
24...	<10	2	<1	<1	11	<6	30	28	745	100
APR										
25...	<10	<1	<1	<1	16	<6	14	22	300	95
JUL										
11...	<10	12	<1	<1	16	<6	18	30	490	96

< Actual value is known to be less than the value shown.

08022040 SABINE RIVER NEAR BECKVILLE, TX

LOCATION.--Lat 32°19'38", long 94°21'12", Panola County, Hydrologic Unit 12010002, at downstream side of highway embankment near right end of downstream bridge on U.S. Highway 59, 0.9 mi upstream from Eightmile Creek, 6.0 mi upstream from Farm Road 1794, 8.4 mi northeast of Beckville, 12.4 mi downstream from State Highway 43, and at mile 327.0.

DRAINAGE AREA.--3,589 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1978, published as "near Tatum".

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 190.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, at site 12.4 mi upstream at datum 14.18 ft higher. Prior to Sept. 21, 1945, nonrecording gage.

REMARKS.--No estimated daily discharges. Records good. Eight major reservoirs, with a combined capacity of 1,701,000 acre-ft, largely regulated flow. Several diversions above station and below Lake Tawakoni for oil field operation, municipal, and industrial uses. Low flows are sustained by sewage effluents returned to the river above the station. For statement regarding regulation by Soil Conservation Service floodwater-retarding structures, see station 08018500.

AVERAGE DISCHARGE.--22 years (water years 1939-60) prior to regulation by Lake Tawakoni, 2.663 ft³/s (1,929,000 acre-ft/yr); 31 years (water years 1961-91) regulated, 2.365 ft³/s (1,713,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft³/s Apr. 4, 1945 (gage height, 33.80 ft), site and datum then in use, from graph based on gage readings, from rating curve extended above 66,000 ft³/s on basis of partly estimated measurement of 88,900 ft³/s; minimum observed, 2.4 ft³/s Aug. 11, 1964. Maximum stage since at least 1884, that of Apr. 4, 1945.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1884 reached a stage of about 2 ft lower than flood of Apr. 4, 1945.

These dates and gage heights are based on information for stations near Tatum (08022000) and at Logansport, La. (08022500).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,600 ft³/s May 4 at 1100 hours (gage height, 29.32 ft); minimum daily, 169 ft³/s July 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	331	4620	5350	5800	7200	6500	12400	1840	894	568	534
2	179	321	4370	4980	4440	8870	4470	11500	1580	760	457	385
3	173	310	4020	4860	3420	9540	3190	11600	1420	665	384	1480
4	274	306	3230	4730	2890	9380	2400	18700	1710	601	316	2080
5	875	311	2170	4050	2990	9000	2140	16700	1450	528	261	1730
6	1090	340	1500	3290	3660	8640	2280	14600	1290	473	245	1060
7	769	330	1180	3690	3850	8320	3300	13600	1090	430	218	1050
8	503	323	1020	4390	3780	8000	3630	13100	948	395	208	1170
9	464	2080	927	4320	3780	7620	3520	12600	889	368	229	1290
10	1030	7040	845	7300	3860	7120	3120	12100	1020	342	284	1320
11	1570	8390	805	10800	4030	6340	2680	11500	2300	316	289	1190
12	1520	7980	769	11200	4240	5030	5040	10500	5140	307	294	941
13	1280	6590	764	10800	4440	3570	11000	9530	5750	295	317	715
14	1030	4590	738	10200	4550	2690	14000	8800	4110	280	445	571
15	749	2650	728	10500	4400	2140	17800	8810	2420	264	1420	499
16	545	1620	742	11700	3730	1860	15500	9050	1820	242	1460	419
17	429	1190	796	11800	2750	1770	13500	8880	1600	213	978	346
18	382	957	1000	11300	3790	1800	12400	8370	1690	203	755	310
19	381	815	1380	11000	9290	1860	11400	7850	1770	206	623	267
20	368	732	1400	10800	10700	1830	10100	7250	1680	221	501	253
21	477	679	1390	10600	10200	1770	8540	6120	1620	198	411	243
22	1150	672	2640	10300	9480	1690	7320	4720	1400	169	350	225
23	1570	1640	3910	10000	9310	1620	6470	3590	1180	177	341	206
24	1250	3520	4000	9880	9010	1560	5980	2850	1080	179	332	229
25	1070	3970	3840	9730	8240	1480	5710	2900	1090	236	282	440
26	949	3910	3600	9500	7570	1410	5470	3240	1070	1400	254	513
27	749	3970	4350	9200	6960	1380	5950	3110	1090	2000	256	347
28	581	4730	5850	8840	6520	1500	8450	2590	1050	1620	258	281
29	487	5200	6630	8440	---	6050	12000	2380	1140	1370	242	265
30	416	5100	6220	7900	---	9380	13000	2280	1100	1040	227	252
31	365	---	5710	7010	---	8450	---	2100	---	761	496	---
TOTAL	22850	80597	81144	258460	157680	148870	226860	263320	53337	17153	13701	20611
MEAN	737	2687	2618	8337	5631	4802	7562	8494	1778	553	442	687
MAX	1570	8390	6630	11800	10700	9540	17800	18700	5750	2000	1460	2080
MIN	173	306	728	3290	2750	1380	2140	2100	889	169	208	206
AC-FT	45320	159900	160900	512700	312800	295300	450000	522300	105800	34020	27180	40880
CAL YR 1990	TOTAL	1547311	MEAN	4239	MAX	32400	MIN	100	AC-FT	3069000		
WTR YR 1991	TOTAL	1344583	MEAN	3684	MAX	18700	MIN	169	AC-FT	2667000		

SABINE RIVER BASIN

08023080 BAYOU GRAND CANE NEAR STANLEY, LA

LOCATION.--Lat 31°58'45", long 93°56'02", in SW 1/4 SE 1/4 sec.6, T.11 N., R.15 W., De Soto Parish, Hydrologic Unit 12010004, near center of span on downstream side of bridge on U.S. Highway 84, 2.8 mi upstream from Bayou Castor, 2.9 mi west of Stanley, and 3.2 mi east of Logansport.

DRAINAGE AREA.--72.5 mi².

PERIOD OF RECORD.--January 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 172.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges. Records fair, except those for periods of indefinite stage-discharge relationship (Nov. 16-20, Dec. 9-16, 19-20), which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 28	1900	1,220	10.95	Apr. 15	0230	*6,030	*14.09
Jan. 10	2230	4,930	13.63	Apr. 18	2000	1,280	11.01
Jan. 16	0830	1,760	11.57	May 25	1800	1,350	11.11
Feb. 19	2330	4,536	13.36				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	13	224	34	203	13	35	275	2.4	1.7	22
2	.00	.00	4.9	54	31	411	10	12	18	2.2	1.5	5.9
3	.00	.00	3.8	247	29	281	9.1	9.7	8.7	2.1	1.5	14
4	.00	.00	3.3	400	28	90	33	305	6.1	2.9	1.5	32
5	.00	.02	3.0	194	30	43	66	431	4.7	3.4	1.5	29
6	.00	.02	2.9	34	41	27	30	138	4.9	2.5	1.4	7.2
7	.00	.05	3.1	39	50	19	128	24	4.8	2.0	1.3	4.1
8	.00	.12	2.9	67	41	14	599	15	3.8	1.9	1.3	3.1
9	.00	2.6	e2.7	87	31	11	565	63	3.4	1.8	1.3	2.7
10	.00	9.2	e2.5	2510	27	9.7	114	217	4.7	1.7	1.6	3.5
11	.00	15	e2.4	2760	24	8.8	161	112	5.6	1.5	2.0	3.1
12	.00	1.8	e2.3	1100	23	8.6	536	22	5.2	1.3	2.2	2.6
13	.00	.99	e2.3	533	22	8.6	569	10	4.5	1.2	2.2	2.4
14	.00	.86	e2.2	168	24	9.1	2400	8.4	3.9	1.1	3.0	2.3
15	.00	.81	e2.1	695	21	8.8	3610	200	78	1.0	10	2.3
16	.00	e.76	e2.0	1510	20	8.7	1030	515	372	1.1	8.9	2.4
17	.00	e.72	5.6	782	22	10	450	368	629	1.0	3.9	2.2
18	.00	e.70	6.3	339	351	11	997	42	422	1.0	3.3	2.9
19	.00	e.68	e3.0	468	2500	11	1110	296	31	1.1	2.9	2.8
20	.00	e.66	e6.0	553	2480	11	563	690	9.3	1.2	2.5	2.6
21	.00	.88	8.0	327	1040	10	93	621	6.0	1.2	2.6	2.5
22	.00	1.5	81	116	1950	10	28	145	4.9	1.1	2.9	2.6
23	.00	3.1	185	66	1460	11	15	80	12	1.1	64	2.9
24	.00	6.5	54	77	692	11	12	62	24	1.2	155	3.7
25	.00	5.6	8.5	182	249	11	10	866	7.8	1.3	13	3.9
26	.00	3.7	6.9	157	201	10	8.7	875	4.9	1.8	4.6	4.3
27	.00	19	377	78	161	10	8.2	289	3.8	1.6	3.4	4.1
28	.00	429	1000	57	71	13	10	26	3.3	5.1	3.0	3.6
29	.00	553	849	48	---	47	150	12	2.8	3.0	2.9	3.3
30	.00	359	296	41	---	71	199	34	2.6	2.0	7.5	3.5
31	.00	---	220	37	---	26	---	504	---	1.7	45	---
TOTAL	0.00	1416.27	3161.7	13950	11653	1434.3	13527.0	7027.1	1966.7	55.5	359.4	183.5
MEAN	.000	47.2	102	450	416	46.3	451	227	65.6	1.79	11.6	6.12
MAX	.00	553	1000	2760	2500	411	3610	875	629	5.1	155	32
MIN	.00	.00	2.0	34	20	8.6	8.2	8.4	2.6	1.0	1.3	2.2
AC-FT	.00	2810	6270	27670	23110	2840	26830	13940	3900	110	713	364
CFSM	.00	.65	1.41	6.21	5.74	.64	6.22	3.13	.90	.02	.16	.08
IN.	.00	.73	1.62	7.16	5.98	.74	6.94	3.61	1.01	.03	.18	.09

e Estimated.

08023080 BAYOU GRAND CANE NEAR STANLEY, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1991, BY WATER YEAR (WY)

MEAN	19.4	43.9	113	119	231	89.2	98.6	121	107	28.2	1.86	1.15
MAX	128	220	376	450	514	192	451	388	433	290	11.6	6.12
(WY)	1985	1987	1983	1991	1987	1985	1991	1990	1989	1989	1991	1991
MIN	.000	.068	.036	.39	2.36	.97	.49	.54	.053	.000	.000	.000
(WY)	1991	1982	1982	1981	1981	1986	1981	1988	1984	1984	1985	1982

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR	FOR 1991 WATER YEAR	WATER YEARS 1981 - 1991
ANNUAL TOTAL	46072.45	54734.47	
ANNUAL MEAN	126	150	80.1
HIGHEST ANNUAL MEAN			156 1989
LOWEST ANNUAL MEAN			14.4 1981
HIGHEST DAILY MEAN	4670 Jun 1	3610 Apr 15	6230 May 18 1989
LOWEST DAILY MEAN	0 many days	0 many days	0 many days
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 13	.00 Oct 1	.00 Oct 1 1980
INSTANTANEOUS PEAK FLOW		6030 Apr 15	9450 May 18 1989
INSTANTANEOUS PEAK STAGE		14.05 Apr 15	15.37 May 18 1989
INSTANTANEOUS LOW FLOW		0 many days	0 many days
ANNUAL RUNOFF (AC-FT)	91380	108600	58000
ANNUAL RUNOFF (CFSM)	1.74	2.07	1.10
ANNUAL RUNOFF (INCHES)	23.64	28.08	15.00
10 PERCENT EXCEEDS	351	439	155
50 PERCENT EXCEEDS	6.3	8.7	3.4
90 PERCENT EXCEEDS	.00	.02	.00

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.88	3.48	4.91	7.92	4.70	7.33	4.54	5.38	7.64	3.87	3.75	5.07
2	2.87	3.47	4.44	6.10	4.62	8.95	4.41	4.63	4.89	3.84	3.71	4.35
3	2.87	3.47	4.33	8.05	4.56	8.05	4.35	4.50	4.46	3.83	3.71	4.67
4	3.13	3.50	4.27	9.00	4.53	6.22	4.93	8.13	4.27	3.93	3.71	5.46
5	3.28	3.58	4.23	7.57	4.60	5.39	5.81	9.00	4.15	4.01	3.71	5.35
6	3.26	3.59	4.22	5.69	4.86	5.00	5.08	6.80	4.17	3.89	3.69	4.49
7	3.24	3.60	4.24	5.81	5.06	4.75	6.07	5.13	4.16	3.81	3.66	4.23
8	3.23	3.65	4.22	6.36	4.87	4.57	9.80	4.81	4.06	3.79	3.66	4.13
9	3.28	4.52	4.21	6.37	4.64	4.46	9.65	5.86	4.01	3.77	3.66	4.08
10	3.36	5.09	4.23	11.90	4.51	4.38	6.37	7.64	4.14	3.75	3.73	4.18
11	3.35	5.39	4.25	12.34	4.43	4.33	6.61	6.54	4.23	3.70	3.81	4.15
12	3.34	4.44	4.27	10.75	4.40	4.32	9.57	5.06	4.19	3.67	3.84	4.10
13	3.33	4.25	4.30	9.40	4.37	4.32	9.70	4.57	4.13	3.64	3.84	4.07
14	3.32	4.17	4.37	6.78	4.43	4.35	11.59	4.43	4.06	3.63	3.95	4.06
15	3.31	4.14	4.41	9.59	4.34	4.33	12.79	7.34	5.42	3.60	4.50	4.07
16	3.30	4.17	4.42	11.30	4.30	4.33	10.60	9.36	8.67	3.60	4.45	4.09
17	3.30	4.18	4.50	10.20	4.37	4.40	8.97	8.46	9.78	3.59	4.07	4.06
18	3.30	4.19	4.57	8.23	7.76	4.45	10.48	5.58	8.82	3.59	3.99	4.16
19	3.29	4.20	4.63	9.18	12.02	4.46	10.74	7.97	5.26	3.61	3.94	4.15
20	3.28	4.19	4.64	9.64	12.10	4.43	9.40	9.93	4.49	3.64	3.89	4.12
21	3.41	4.19	4.68	8.10	10.69	4.39	6.38	9.72	4.27	3.65	3.90	4.11
22	3.55	4.30	6.40	6.09	11.74	4.39	5.24	6.93	4.17	3.62	3.94	4.12
23	3.56	4.42	7.67	5.36	11.21	4.43	4.82	6.28	4.54	3.63	5.77	4.16
24	3.56	4.58	5.90	5.52	10.00	4.44	4.67	5.84	5.11	3.64	7.08	4.26
25	3.54	4.50	4.72	6.86	7.83	4.42	4.56	10.12	4.39	3.66	4.67	4.28
26	3.53	4.32	4.60	6.59	7.52	4.40	4.47	10.33	4.17	3.77	4.16	4.33
27	3.53	4.64	8.62	5.56	7.10	4.41	4.43	7.84	4.05	3.73	4.04	4.31
28	3.52	9.15	10.61	5.19	5.91	4.54	4.51	5.18	3.99	4.15	4.00	4.25
29	3.50	9.63	10.34	5.02	---	5.42	7.04	4.63	3.93	3.96	4.00	4.22
30	3.49	8.42	8.32	4.87	---	5.91	7.49	5.11	3.90	3.81	4.36	4.24
31	3.48	---	7.93	4.78	---	4.95	---	9.17	---	3.76	5.72	---
MAX	3.56	9.63	10.61	12.34	12.10	8.95	12.79	10.33	9.78	4.15	7.08	5.46
MIN	2.87	3.47	4.21	4.78	4.30	4.32	4.35	4.43	3.90	3.59	3.66	4.06

08023400 BAYOU SAN PATRICIO NEAR BENSON, LA

LOCATION.--Lat 31°52'30", long 93°39'30", in sec.38, T.10 N., R.13 W., De Soto Parish, Hydrologic Unit 12010004, near right bank on downstream side of bridge on State Highway 512, 2.2 mi east of Benson, and 3.9 mi upstream from Bear Creek.

DRAINAGE AREA.--80.2 mi².

PERIOD OF RECORD.--Annual maximums, water years, 1954-68. Occasional low-flow measurements, water years 1954-63, October 1977 to current year.

REVISED RECORDS.--WDR LA-80-1: 1958(M).

GAGE.--Water-stage recorder. Datum of gage is 208.67 ft above National Geodetic Vertical Datum of 1929. Oct. 29, 1953 to Sept. 30, 1968, crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharges. Records fair, except those for periods of indefinite state-discharge relationship (Dec. 7-16 and July 29 to Aug. 7), which are poor. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	2130	4,080	17.45	Apr. 18	1430	*6,080	*18.36
Feb. 20	0100	2,700	16.58	Apr. 29	1300	2,230	16.23
Apr. 15	0230	4,520	17.68				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	4.4	37	47	207	18	366	199	3.3	e1.8	479
2	.00	.00	3.0	58	43	397	14	64	60	3.0	e1.8	83
3	.00	.00	2.6	355	40	252	13	47	18	2.5	e1.7	356
4	.00	.00	2.3	425	39	108	12	589	11	2.3	e1.7	845
5	.00	.00	4.0	160	40	68	27	641	8.6	3.9	e1.6	404
6	.00	.00	3.8	63	50	52	23	371	7.1	38	e1.5	84
7	.00	.00	e3.3	80	51	42	19	91	6.0	13	e3.0	33
8	.00	.00	e2.8	101	43	33	95	59	5.0	39	16	22
9	.00	.86	e2.4	83	38	28	90	362	4.3	9.3	15	17
10	.00	25	e2.0	2210	36	24	29	538	4.6	4.6	18	50
11	.00	11	e1.7	2390	34	22	74	370	5.4	3.2	18	29
12	.00	3.5	e1.7	921	33	21	431	79	6.8	2.5	9.6	16
13	.00	2.6	e1.6	471	32	20	259	33	5.0	2.4	14	12
14	.00	1.8	e1.6	156	32	19	2070	35	4.9	2.0	73	10
15	.00	1.8	e1.5	584	31	17	3020	316	5.8	1.8	285	8.9
16	.00	1.7	e1.7	1070	30	16	968	529	52	e1.7	129	8.2
17	.00	1.5	3.5	612	31	18	392	324	124	e1.6	21	7.4
18	.00	1.5	9.3	303	266	23	3340	497	32	e1.5	13	7.0
19	.00	1.4	12	569	1300	20	1560	730	10	e1.4	11	6.3
20	.00	1.4	4.9	588	1800	17	552	670	6.7	e1.3	9.3	6.0
21	.00	1.2	2.5	310	1040	15	158	288	17	1.5	8.2	5.8
22	.00	1.5	6.6	114	2200	15	51	144	17	1.4	131	5.5
23	.00	4.5	4.3	84	1280	15	34	92	175	e1.3	380	5.3
24	.00	8.9	2.5	107	618	14	26	39	29	e1.2	138	5.3
25	.00	4.2	1.6	220	287	13	19	31	10	1.1	20	9.1
26	.00	3.2	1.5	135	296	12	15	67	6.7	1.8	14	8.3
27	.00	3.6	219	90	204	12	13	28	9.6	4.7	11	8.1
28	.00	37	476	75	100	13	31	15	7.5	6.3	9.8	6.8
29	.00	118	399	66	---	53	1810	68	6.6	e5.0	8.7	6.0
30	.00	18	67	59	---	88	1170	249	4.1	e3.0	13	5.5
31	.00	---	35	52	---	28	---	461	---	e2.1	627	---
TOTAL	0.00	254.16	1285.1	12548	10041	1682	16333	8193	858.7	167.7	2005.7	2549.5
MEAN	.000	8.47	41.5	405	359	54.3	544	264	28.6	5.41	64.7	85.0
MAX	.00	118	476	2390	2200	397	3340	730	199	39	627	845
MIN	.00	.00	1.5	37	30	12	12	15	4.1	1.1	1.5	5.3
AC-FT	.00	504	2550	24890	19920	3340	32400	16250	1700	333	3980	5060
CFSM	.00	.11	.52	5.05	4.47	.68	6.79	3.30	.36	.07	.81	1.06
IN.	.00	.12	.60	5.82	4.66	.78	7.58	3.80	.40	.08	.93	1.18

e Estimated.

08023400 BAYOU SAN PATRICIO NEAR BENSON, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1991, BY WATER YEAR (WY)

MEAN	6.07	43.5	114	139	244	134	150	158	82.5	22.6	6.54	12.5
MAX	41.3	305	478	448	592	330	544	530	573	288	64.7	85.0
(WY)	1986	1987	1983	1979	1983	1989	1991	1983	1989	1989	1991	1991
MIN	.000	.000	.000	.18	1.76	12.5	1.50	2.11	.000	.000	.000	.000
(WY)	1981	1981	1981	1981	1981	1981	1981	1988	1988	1978	1980	1980

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR			FOR 1991 WATER YEAR			WATER YEARS 1978 - 1991		
ANNUAL TOTAL	40708.44			55917.86			91.8		
ANNUAL MEAN	112			153			190		
HIGHEST ANNUAL MEAN							10.6		
LOWEST ANNUAL MEAN							10700		
HIGHEST DAILY MEAN	4830	May 13		3340	Apr 18		10700	May 18	1989
LOWEST DAILY MEAN	.00	Jul 31		.00	Oct 1		.00	Oct 1	1977
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 2		.00	Oct 1		.00	Oct 1	1977
INSTANTANEOUS PEAK FLOW				6080	Apr 18		21300	Sep 20	1958
INSTANTANEOUS PEAK STAGE				18.36	Apr 18		21.19	May 18	1989
ANNUAL RUNOFF (AC-FT)	80750			110900			66530		
ANNUAL RUNOFF (CFSM)	1.39			1.91			1.15		
ANNUAL RUNOFF (INCHES)	18.88			25.94			15.56		
10 PERCENT EXCEEDS	247			427			196		
50 PERCENT EXCEEDS	6.4			15			5.7		
90 PERCENT EXCEEDS	.00			.00			.00		

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.92	6.41	8.29	9.27	8.57	12.07	8.04	13.80	12.27	7.16	7.75	14.49
2	6.89	6.39	8.15	9.57	8.42	14.00	7.85	9.94	9.77	7.11	7.77	10.29
3	6.86	6.37	8.10	13.70	8.32	12.77	7.73	9.37	8.36	7.03	7.83	13.54
4	6.89	6.37	8.06	14.16	8.27	10.74	7.69	14.95	7.93	7.00	7.85	15.46
5	6.88	6.39	8.25	11.45	8.32	9.74	8.53	15.16	7.73	7.18	7.86	14.13
6	6.85	6.37	8.23	9.51	8.67	9.26	8.32	14.04	7.59	9.16	7.85	10.38
7	6.82	6.34	8.24	9.99	8.72	8.91	8.12	10.51	7.48	8.04	7.86	9.01
8	6.79	6.36	8.24	10.55	8.44	8.58	10.51	9.85	7.37	9.15	8.22	8.53
9	6.79	7.59	8.24	9.90	8.23	8.36	10.50	13.46	7.29	7.77	8.16	8.31
10	6.79	9.65	8.25	16.23	8.13	8.20	8.63	14.92	7.33	7.33	8.32	9.54
11	6.76	8.75	8.25	16.41	8.07	8.10	9.55	13.96	7.42	7.14	8.32	8.84
12	6.73	8.20	8.23	15.51	8.01	8.07	14.24	10.28	7.57	7.04	7.81	8.21
13	6.70	8.09	8.19	14.32	7.97	8.07	12.90	9.03	7.38	7.02	8.10	7.97
14	6.66	7.99	8.16	11.42	7.97	8.00	16.10	8.94	7.37	6.95	9.74	7.85
15	6.63	8.02	8.16	14.48	7.94	7.92	16.78	13.56	7.46	6.90	13.42	7.76
16	6.60	8.03	8.18	15.65	7.88	7.88	15.53	14.89	9.17	6.90	10.97	7.69
17	6.57	8.04	8.20	14.95	7.93	8.07	13.92	13.66	11.25	6.79	8.48	7.62
18	6.53	8.08	8.66	13.10	11.87	8.37	16.84	14.75	8.92	6.77	8.07	7.59
19	6.50	8.10	8.93	14.85	15.67	8.17	15.92	15.36	7.86	6.80	7.90	7.52
20	6.46	8.12	8.33	14.94	16.06	7.98	14.85	15.23	7.56	6.74	7.79	7.49
21	6.54	8.14	8.08	13.05	15.62	7.90	11.63	13.25	8.16	6.83	7.70	7.46
22	6.66	8.20	8.47	10.47	16.26	7.87	9.61	11.58	8.21	6.82	10.51	7.44
23	6.65	8.51	8.28	9.70	15.77	7.85	9.06	10.62	12.01	6.75	14.26	7.42
24	6.63	8.67	8.09	10.24	15.00	7.81	8.73	9.25	8.77	6.67	11.07	7.42
25	6.60	8.27	7.97	12.32	13.14	7.75	8.42	8.95	7.84	6.74	8.47	7.76
26	6.58	8.17	7.95	10.91	13.27	7.71	8.17	10.05	7.56	6.90	8.09	7.71
27	6.55	8.21	12.39	9.87	12.25	7.67	8.05	8.79	7.77	7.34	7.92	7.69
28	6.52	9.76	14.58	9.47	10.53	7.75	8.43	8.19	7.63	7.52	7.82	7.56
29	6.50	11.92	14.15	9.19	---	9.47	16.01	9.69	7.53	7.57	7.74	7.49
30	6.47	9.13	10.53	8.98	---	10.51	15.68	13.00	7.27	7.67	8.00	7.44
31	6.44	---	9.44	8.76	---	8.56	---	14.61	---	7.73	14.76	---
MAX	6.92	11.92	14.58	16.41	16.26	14.00	16.84	15.36	12.27	9.16	14.76	15.46
MIN	6.44	6.34	7.95	8.76	7.88	7.67	7.69	8.19	7.27	6.67	7.70	7.42

SABINE RIVER MAIN STEM

08025350 TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TX

LOCATION.--Lat 31°10'25", long 93°33'57", Newton County, Hydrologic Unit 12010004, in powerhouse at right end of Toledo Bend Dam on Sabine River, 15 mi northeast of Burkeville, and at mile 156.5.

DRAINAGE AREA.--7,178 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Sabine River Authority). Prior to July 20, 1967, nonrecording gage at same site and datum. July 20, 1967, to June 30, 1973, recording gage at right end of spillway 1.6 mi north of present site and at same datum.

REMARKS.--The reservoir is formed by a rolled earthfill dam. Closure of embankment completed and deliberate impoundment was begun Oct. 3, 1966. The reservoir is operated for hydro-electric power generation and water conservation. Releases during high inflow periods are controlled by eleven 40- x 28-foot tainter gates. An 8.33- x 12-foot gated conduit through the dam is used for low-flow releases. Two additional 20-inch-diameter conduits, which bypass the larger conduit, may also be used for low-flow releases. Water for turbines is admitted through four 16.75- x 29-foot penstocks and controlled by vertically operated caterpillar-type gates. The capacity table is based on Geological Survey topographic maps. For statement regarding regulation by upstream reservoirs, see station 08020000. Figures given herein represent total contents. Data regarding the dam and reservoir are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam.....	185.0	-
Design flood.....	175.3	5,102,000
Top of gates.....	173.0	4,660,000
Top of power drawdown storage.....	172.0	4,476,000
Top of power head storage.....	162.2	2,922,000
Crest of spillway (controlled).....	145.0	1,162,000
Lowest gated outlet (invert).....	100.0	4,090

COOPERATION.--Capacity table furnished by the Sabine River Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,840,000 acre-ft May 18, 1989 (elevation, 173.95 ft); minimum since initial filling of reservoir in June 1968, 3,290,000 acre-ft Nov. 14, 15, 1987 (elevation, 164.78 ft).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,764,000 acre-ft Apr. 19 at 0900 hours (elevation, 173.55 ft); minimum, 3,571,000 acre-ft Oct. 21 (elevation, 166.63 ft).

Capacity table (elevation, in feet, and total contents, in acre-feet)

166.0	3,473,000	169.0	3,953,000	172.0	4,476,000
167.0	3,628,000	170.0	4,123,000	173.0	4,660,000
168.0	3,788,000	171.0	4,297,000	174.0	4,849,000

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3647000	3595000	3803000	3975000	4542000	4596000	4089000	4574000	4476000	4354000	4266000	4077000
2	3623000	3592000	3809000	4021000	4531000	4594000	4103000	4550000	4487000	4354000	4262000	4077000
3	3622000	3585000	3870000	4036000	4515000	4583000	4106000	4614000	4476000	4335000	4252000	4091000
4	3642000	3623000	3837000	4036000	4515000	4548000	4137000	4638000	4460000	4361000	4243000	4091000
5	3641000	3597000	3821000	4040000	4498000	4522000	4140000	4660000	4453000	4363000	4234000	4091000
6	3625000	3589000	3854000	4079000	4478000	4553000	4153000	4616000	4437000	4360000	4231000	4092000
7	3628000	3589000	3837000	4069000	4458000	4557000	4154000	4603000	4421000	4367000	4227000	4089000
8	3626000	3612000	3842000	4069000	4438000	4546000	4158000	4616000	4404000	4376000	4217000	4077000
9	3692000	3623000	3846000	4106000	4417000	4537000	4193000	4623000	4383000	4363000	4222000	4069000
10	3628000	3614000	3837000	4248000	4404000	4505000	4186000	4638000	4383000	4369000	4227000	4057000
11	3617000	3628000	3823000	4390000	4381000	4491000	4193000	4629000	4383000	4365000	4229000	4041000
12	3612000	3642000	3824000	4426000	4342000	4505000	4210000	4627000	4374000	4354000	4229000	4035000
13	3609000	3652000	3839000	4440000	4349000	4494000	4222000	4605000	4367000	4360000	4229000	4018000
14	3605000	3663000	3821000	4483000	4335000	4467000	4288000	4612000	4369000	4358000	4252000	4001000
15	3609000	3678000	3837000	4568000	4297000	4446000	4404000	4601000	4379000	4351000	4266000	3984000
16	3608000	3698000	3834000	4597000	4247000	4408000	4520000	4583000	4388000	4354000	4259000	3970000
17	3611000	3708000	3816000	4614000	4248000	4428000	4642000	4588000	4381000	4344000	4262000	3961000
18	3611000	3708000	3841000	4653000	4255000	4386000	4758000	4586000	4383000	4329000	4266000	3967000
19	3594000	3708000	3837000	4642000	4315000	4358000	4751000	4590000	4369000	4369000	4245000	3967000
20	3577000	3702000	3834000	4660000	4351000	4340000	4675000	4570000	4354000	4302000	4227000	3933000
21	3636000	3705000	3879000	4631000	4458000	4292000	4627000	4550000	4333000	4297000	4193000	3915000
22	3617000	3719000	3875000	4592000	4548000	4292000	4623000	4531000	4351000	4294000	4193000	3899000
23	3616000	3724000	3915000	4608000	4586000	4273000	4588000	4520000	4340000	4281000	4179000	3884000
24	3622000	3719000	3854000	4601000	4612000	4245000	4551000	4505000	4360000	4276000	4172000	3899000
25	3616000	3722000	3859000	4586000	4638000	4253000	4542000	4494000	4360000	4280000	4156000	3854000
26	3609000	3718000	3885000	4564000	4620000	4142000	4504000	4485000	4352000	4280000	4140000	3837000
27	3606000	3772000	3923000	4570000	4596000	4172000	4516000	4472000	4340000	4280000	4132000	3819000
28	3606000	3791000	3922000	4568000	4568000	4175000	4533000	4463000	4351000	4276000	4106000	3803000
29	3608000	3786000	3938000	4572000	---	4137000	4579000	4465000	4354000	4280000	4089000	3785000
30	3599000	3786000	3989000	4575000	---	4120000	4586000	4476000	4361000	4276000	4087000	3772000
31	3599000	---	3973000	4553000	---	4099000	---	4476000	---	4274000	4086000	---
MAX	3692000	3791000	3989000	4660000	4638000	4596000	4758000	4660000	4487000	4376000	4266000	4092000
MIN	3577000	3585000	3803000	3975000	4247000	4099000	4089000	4463000	4333000	4274000	4086000	3772000
+	166.81	167.99	169.12	172.42	172.50	169.86	172.60	172.00	171.36	170.87	169.78	167.90
*	-55000	+187000	+187000	+580000	+15000	-469000	+487000	-110000	-115000	-87000	-188000	-314000
CAL YR 1990	MAX 4677000	MIN 3577000	* +118000									
WTR YR 1991	MAX 4758000	MIN 3577000	* +259000									

+ Elevation, in feet, at end of month.
* Change in contents, in acre-feet.

08025360 SABINE RIVER AT TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TX

LOCATION.--Lat 31°10'25", long 93°33'57", Newton County, Hydrologic Unit 1010005, in powerhouse at right end of Toledo Bend Dam, 10 mi upstream from Sabine River near Burkeville gage, and at mile 156.5.

DRAINAGE AREA.--7.178 mi².

PERIOD OF RECORD.--October 1971 to current year.

Water-quality records.--Chemical and biochemical analyses: October 1967 to September 1986.

GAGE.--Water-stage recorders. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Sabine River Authority).

REMARKS.--No estimated daily discharges. Records poor. Daily discharges are a combination of releases from various outlets at the dam. Discharges for releases through the turbines are computed using scroll case differential pressure relationships and operation logs. Taintor gate releases, low-flow sluiceway releases, bypass gate releases, and turbine leakages are based on discharge measurements and operation logs.

AVERAGE DISCHARGE.--20 years, 5,807 ft³/s (4,207,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 114,000 ft³/s, May 19, 1989; minimum daily (estimated), 30 ft³/s, Oct. 1-4, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 84,400 ft³/s, April 19 minimum daily, 174 ft³/s, on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	1150	1720	7420	15400	27500	7350	20800	6960	3260	3270	7130
2	1460	1160	174	7350	14300	26200	2480	18700	7140	3250	3240	7180
3	1450	1730	1090	7390	14200	26200	2710	15500	7390	3350	204	7200
4	1490	174	2540	7350	15200	20000	2790	21800	7220	3170	204	7220
5	1410	1200	2550	7340	15500	14600	2660	34900	7690	3200	3080	7350
6	1990	1160	4230	7290	15400	15500	2550	38600	7550	204	3190	7310
7	174	1050	2530	5980	15300	15500	2510	31200	7370	204	3260	7260
8	1520	1060	174	10200	14600	15200	2670	27600	7410	3280	3130	7220
9	1550	1070	174	9670	14200	14300	2640	27600	7430	3340	3300	7240
10	1440	1710	2590	9280	14200	14300	4340	27300	7450	3120	204	6960
11	1510	174	1690	11700	15100	15100	4540	26900	7390	3180	204	7310
12	1530	1060	2500	14300	15200	15100	5860	26100	7540	3250	3250	7310
13	2080	1130	2740	14600	15600	15500	9480	26900	7280	204	3240	7300
14	174	1210	2410	14200	15400	15600	9140	27100	7250	204	3140	7050
15	1450	373	204	14100	14400	15500	12100	27200	7280	204	3130	7390
16	1530	185	204	20300	14600	14800	15400	27200	7220	3340	2770	7410
17	1120	174	2790	26600	14600	14400	18400	26400	7290	3130	6740	7400
18	1060	174	2690	27000	14500	14300	46000	26300	6860	2760	6730	7390
19	1090	1090	2810	33700	15300	14400	84400	26100	7170	3330	6930	7450
20	1680	1130	2880	37500	15400	14400	74200	27500	7240	204	6660	7510
21	174	1200	2710	31900	14400	14700	51500	27600	7250	204	6950	7470
22	174	1120	204	27100	15800	14500	44500	21300	6930	3200	7310	7380
23	1340	1080	204	26500	15800	14400	32800	15700	7080	3040	7260	7380
24	1080	1700	2940	26500	19800	14400	27900	14900	2970	3350	7270	7380
25	1090	174	2690	26500	25300	14600	23900	14300	3220	3190	7290	7380
26	1060	1150	2340	26300	27200	14400	17500	14200	3320	3380	6140	6770
27	1770	1140	2660	19900	27500	14300	14300	13900	3310	204	7110	7480
28	174	1090	4840	14700	27600	14800	14400	12300	3250	204	7150	7690
29	1210	1040	7450	14500	---	14300	18100	7070	204	3260	7150	7590
30	1030	1060	7470	14800	---	14800	20900	7120	204	3240	7150	7590
31	1070	---	7330	14700	---	14600	---	7140	---	3190	7220	---
TOTAL	37150	28918	79528	536670	471800	498200	578020	687230	183868	72646	143876	219700
MEAN	1198	964	2565	17310	16850	16070	19270	22170	6129	2343	4641	7323
MAX	2080	1730	7470	37500	27600	27500	84400	38600	7690	3380	7310	7690
MIN	174	174	174	5980	14200	14300	2480	7070	204	204	204	6770
AC-FT	73690	57360	157700	1064000	935800	988200	1147000	1363000	364700	144100	285400	435800
CAL YR 1990	TOTAL 2991771		MEAN 8197		MAX 44700		MIN 174		AC-FT 5934000			
WTR YR 1991	TOTAL 3537606		MEAN 9692		MAX 84400		MIN 174		AC-FT 7017000			

08025500 BAYOU TORO NEAR TORO, LA

LOCATION.--Lat 31°18'25", long 93°30'56, in SW 1/4 sec.20, T.4 N., R.11 W., Sabine Parish, Hydrologic Unit 12010005, near right bank on downstream side of bridge on state highway 473, 0.2 mi upstream from Hamby Creek, 2.5 mi northeast of Toro, and 7.8 mi west of Hornbeck.

DRAINAGE AREA.--148 mi².

PERIOD OF RECORD.--October 1955 to September 1986, October 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 138.00 ft above National Geodetic Vertical Datum of 1929 (levels by Louisiana Department of Transportation and Development). Nonrecording gage at same site and datum read once daily from Dec. 2, 1985 to May 15, 1986 and twice daily May 16, 1986 to Sept. 30, 1986. Prior to Dec. 2, 1985 at site 500 ft downstream at same datum.

REMARKS.--Estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	2330	2,900	16.05	Apr. 15	0500	1,880	12.89
Feb. 22	0600	2,100	13.62	May 5	0200	*8,160	*21.44
Apr. 11	2200	2,430	14.68	May 9	1130	3,200	16.90

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	6.0	22	96	113	598	52	453	125	e52	29	102
2	4.8	6.1	17	179	100	1030	46	189	98	86	25	60
3	4.6	6.2	15	922	93	742	43	481	83	340	23	41
4	7.2	7.4	14	721	90	426	41	3180	76	300	22	57
5	7.9	9.8	14	216	114	257	40	5520	68	381	20	168
6	6.1	13	13	128	158	197	98	1900	64	216	19	89
7	6.5	18	17	115	137	161	110	458	66	119	19	78
8	7.2	12	32	115	108	135	440	715	61	185	21	64
9	6.8	22	35	160	92	115	406	2710	59	205	33	45
10	7.1	46	24	2160	80	101	158	1990	449	151	89	75
11	6.2	42	19	2710	73	93	882	836	920	83	209	67
12	6.6	22	16	2400	69	90	1890	444	366	63	144	40
13	6.8	15	15	899	67	89	1450	288	174	e54	132	31
14	6.6	12	14	272	68	84	858	221	115	e46	388	27
15	6.3	10	14	1200	66	76	1750	588	89	e40	926	26
16	5.9	9.4	14	1360	58	74	1500	1060	79	e34	317	23
17	6.0	8.7	16	760	67	134	552	1170	75	e30	127	21
18	5.6	8.5	19	503	88	190	1060	1010	84	29	81	20
19	5.6	8.5	49	1240	670	127	1460	1530	90	27	123	32
20	5.5	9.9	59	895	1230	97	1120	1490	94	26	67	46
21	8.3	9.7	55	353	1420	85	264	549	68	25	47	25
22	14	9.0	241	225	1990	80	178	348	62	24	38	21
23	21	12	219	180	1660	76	150	273	e54	23	34	19
24	20	33	87	401	691	68	131	208	e50	23	32	18
25	13	28	50	608	321	61	112	180	e56	25	30	26
26	9.5	18	39	330	439	57	98	175	e52	35	27	30
27	8.0	15	201	217	369	55	344	150	e62	255	25	25
28	7.2	52	373	182	238	53	227	124	121	132	24	20
29	6.7	97	167	161	---	71	1060	109	86	80	24	18
30	6.5	35	97	145	---	89	1150	110	57	48	39	16
31	6.3	---	89	129	---	70	---	140	---	36	75	---
TOTAL	244.7	601.2	2056	19982	10669	5581	17670	28599	3903	3173	3209	1330
MEAN	7.89	20.0	66.3	645	381	180	589	923	130	102	104	44.3
MAX	21	97	373	2710	1990	1030	1890	5520	920	381	926	168
MIN	4.6	6.0	13	96	58	53	40	109	50	23	19	16
AC-FT	485	1190	4080	39630	21160	11070	35050	56730	7740	6290	6370	2640
CFSM	.05	.14	.45	4.36	2.57	1.22	3.98	6.23	.88	.69	.70	.30
IN.	.06	.15	.52	5.02	2.68	1.40	4.44	7.19	.98	.80	.81	.33

e Estimated.

08025500 BAYOU TORO NEAR TORO, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1991, BY WATER YEAR (WY)

MEAN	48.9	75.4	183	284	321	256	246	213	126	65.8	30.9	59.0
MAX	695	589	1166	1134	1117	789	1354	1223	1202	886	198	928
(WY)	1985	1958	1983	1990	1975	1961	1968	1975	1989	1989	1958	1961
MIN	1.70	5.12	7.96	14.6	23.9	42.4	13.1	9.33	4.14	2.62	.92	.76
(WY)	1964	1982	1982	1981	1981	1956	1981	1963	1971	1956	1956	1956

SUMMARY STATISTICS	FOR 1990 CALENDAR YEAR		FOR 1991 WATER YEAR		WATER YEARS 1956 - 1991	
ANNUAL TOTAL	78648.8		97017.9		158	
ANNUAL MEAN	215		266		409	
HIGHEST ANNUAL MEAN					30.8	
LOWEST ANNUAL MEAN					1975	
HIGHEST DAILY MEAN	5960	Jan 21	5520	May 5	21600	Apr 9 1968
LOWEST DAILY MEAN	4.6	Oct 3	4.6	Oct 3	.10	Sep 29 1956
ANNUAL SEVEN-DAY MINIMUM	5.2	Sep 27	5.9	Oct 14	.13	Sep 27 1956
INSTANTANEOUS PEAK FLOW			8160	May 5	31200	Apr 9 1968
INSTANTANEOUS PEAK STAGE			21.44	May 5	25.73	Apr 9 1968
INSTANTANEOUS LOW FLOW			4.5	Oct 3	.10	Sep 29,30, Oct 1-3 1956
INSTANTANEOUS LOW STAGE			2.81	Oct 3	2.40	Sep 30, Oct 1 1956
ANNUAL RUNOFF (AC-FT)	156000		192400		114600	
ANNUAL RUNOFF (CFSM)	1.46		1.80		1.07	
ANNUAL RUNOFF (INCHES)	19.77		24.39		14.52	
10 PERCENT EXCEEDS	514		868		296	
50 PERCENT EXCEEDS	42		76		33	
90 PERCENT EXCEEDS	6.6		9.6		5.5	

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.84	2.93	3.57	4.72	4.89	7.68	4.17	7.05	5.00	---	3.75	4.78
2	2.84	2.95	3.42	5.31	4.77	9.68	4.07	5.56	4.74	4.59	3.66	4.28
3	2.82	2.95	3.37	9.24	4.69	8.47	4.02	7.25	4.57	6.24	3.60	3.98
4	2.97	3.01	3.33	8.36	4.65	6.98	3.98	16.11	4.50	6.25	3.56	4.20
5	3.01	3.14	3.32	5.74	4.89	6.04	3.97	19.48	4.39	6.75	3.52	5.36
6	2.92	3.25	3.29	5.03	5.31	5.62	4.73	12.85	4.33	5.73	3.50	4.64
7	2.93	3.43	3.42	4.91	5.11	5.34	4.86	7.13	4.37	4.95	3.48	4.50
8	2.97	3.24	3.79	4.91	4.84	5.10	6.96	8.30	4.30	5.49	3.54	4.33
9	2.95	3.56	3.87	5.28	4.68	4.91	6.84	15.45	4.27	5.65	3.83	4.05
10	2.97	4.01	3.61	13.68	4.55	4.77	5.30	13.22	6.63	5.23	4.61	4.46
11	2.92	3.95	3.48	15.50	4.46	4.69	8.37	8.85	9.24	4.58	5.65	4.38
12	2.94	3.55	3.40	14.54	4.40	4.65	12.90	7.07	6.63	4.33	5.18	3.97
13	2.95	3.35	3.36	9.01	4.38	4.65	11.32	6.23	5.43	---	5.07	3.79
14	2.94	3.24	3.33	6.13	4.40	4.59	8.85	5.80	4.91	---	6.42	3.70
15	2.92	3.18	3.33	10.24	4.37	4.50	12.43	7.64	4.64	---	9.26	3.66
16	2.90	3.15	3.34	10.97	4.25	4.47	11.53	9.81	4.53	---	6.32	3.60
17	2.91	3.12	3.39	8.47	4.38	5.08	7.52	10.23	4.49	---	5.02	3.55
18	2.89	3.10	3.50	7.26	4.63	5.57	9.68	9.59	4.59	3.74	4.55	3.52
19	2.89	3.10	4.09	10.51	7.83	5.03	11.38	11.63	4.65	3.69	4.98	3.78
20	2.88	3.17	4.25	9.09	10.47	4.73	10.01	11.45	4.70	3.66	4.37	4.06
21	3.01	3.16	4.09	6.60	11.18	4.60	6.07	7.57	4.39	3.65	4.08	3.65
22	3.26	3.13	5.93	5.82	13.26	4.54	5.47	6.58	4.31	3.63	3.93	3.54
23	3.49	3.27	5.75	5.49	12.11	4.49	5.24	6.14	---	3.61	3.84	3.48
24	3.45	3.79	4.61	6.79	8.17	4.40	5.07	5.71	---	3.60	3.81	3.47
25	3.25	3.71	4.14	7.86	6.43	4.30	4.89	5.49	---	3.64	3.77	3.67
26	3.10	3.45	3.95	6.47	7.05	4.25	4.75	5.45	---	3.87	3.70	3.76
27	3.02	3.35	5.56	5.77	6.68	4.21	6.50	5.24	---	5.83	3.65	3.65
28	2.99	4.17	6.71	5.50	5.92	4.18	5.82	4.99	4.97	5.07	3.63	3.51
29	2.97	4.71	5.36	5.34	---	4.43	9.72	4.85	4.60	4.54	3.61	3.45
30	2.96	3.87	4.73	5.19	---	4.64	10.16	4.86	4.24	4.10	3.90	3.41
31	2.95	---	4.64	5.04	---	4.42	---	5.14	---	3.89	4.45	---
MAX	3.49	4.71	6.71	15.50	13.26	9.68	12.90	19.48	---	---	9.26	5.36
MIN	2.82	2.93	3.29	4.72	4.25	4.18	3.97	4.85	---	---	3.48	3.41

SABINE RIVER MAIN STEM

08026000 SABINE RIVER NEAR BURKEVILLE, TX

LOCATION.--Lat 31°03'50", long 93°31'10", Newton County, Texas-Vernon Parish, Louisiana State line, Hydrologic Unit 12010005, near left edge of low-water channel at downstream side of bridge on State Highway 63, about 200 ft downstream from Pearl Creek, 10 mi northeast of Burkeville, 16 mi downstream from Bayou Toro, and at mile 139.7.

DRAINAGE AREA.--7,482 mi².

PERIOD OF RECORD.--September 1955 to current year. Published as "below Toledo Bend near Burkeville" for period 1955-75.

Water-quality records.--Chemical and biochemical analyses: May 1968 to September 1986. Pesticide analyses: October 1972 to September 1981.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 60.59 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 23, 1958, nonrecording gage at current site. Prior to Jan. 1, 1989, at datum 10.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Toledo Bend Reservoir (station 08025350) 16.8 mi upstream, capacity, 4,660,000 acre-ft. National Weather Service rain gage and gage-height telemeters at gage.

AVERAGE DISCHARGE.--11 years (water years 1956-66) prior to completion of Toledo Bend Reservoir, 4,653 ft³/s (3,371,000 acre-ft/yr); 25 years (water years 1967-91) regulated, 9,929 ft³/s (4,070,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 116,000 ft³/s May 20, 1989 (gage height, 47.45 ft); minimum daily, 38 ft³/s Sept. 14, 15, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1860, that of May 20, 1989. Flood in May 1884 reached a stage of 45.9 ft, current datum from information by local resident. Flood of Apr. 15, 1945, reached a stage of 45.8 ft, current datum, and flood of May 23, 1953, reached a stage of 45.3 ft, current datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79,800 ft³/s Apr. 20 at about 2000 hours (gage height, 44.66 ft); minimum daily, 273 ft³/s Nov. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	647	1130	1430	6830	14700	27000	11800	22000	7810	1740	2740	7230
2	919	1120	1350	7300	14100	27200	2290	20700	7760	3430	2890	7080
3	1360	1360	532	8480	14000	26600	2840	17400	8070	3670	1740	6990
4	1550	1130	2030	8010	14600	24600	2850	20500	7750	5160	310	7130
5	1130	649	1840	7340	15200	20000	2760	30100	7670	3250	1410	7160
6	1460	1140	3600	6980	15200	16300	2680	35600	7620	2440	2760	7270
7	1160	1150	2280	5920	14500	15000	3210	35700	7690	653	2770	7200
8	720	1140	1110	7690	14300	e14600	3360	32300	7670	1930	2730	7180
9	1210	1290	344	11000	14000	e14500	3300	31700	7440	3730	2640	7150
10	1170	1300	1480	11800	14200	e14700	3660	31400	9480	3420	2200	7120
11	1450	1450	2310	15300	14700	e14800	5280	29600	10600	3170	566	7270
12	1310	616	1470	17100	14900	14700	9720	27900	8650	3180	1570	7390
13	1700	1160	2920	16500	15200	15000	11100	27200	7500	1970	3050	7440
14	972	1120	2320	14600	14600	15100	10500	27100	e7500	452	3250	7140
15	731	1050	1700	15800	14100	15200	13800	27500	e7500	394	4260	7200
16	1260	360	430	18500	14100	14800	16600	28100	e7600	1760	3210	7310
17	1200	299	1330	24600	14200	14600	17600	29200	e7600	3030	6550	7360
18	1010	273	2300	26100	e14200	14400	25600	28500	e7700	2430	6870	7300
19	1140	409	2680	29100	e14800	14300	44700	27900	e7400	2860	6930	7290
20	1220	1380	2770	33000	e15200	14200	72500	28400	e7500	1870	6760	7300
21	1190	904	3140	33200	16400	14400	69900	28400	e7700	386	6700	7220
22	367	1300	2730	28900	19400	14400	55000	26200	e7600	1420	7010	6930
23	790	1090	816	27500	22100	14200	44300	19200	e7500	2790	7060	6790
24	1250	1660	1050	26900	20100	14200	36300	16600	4000	2830	7120	6820
25	1140	778	2900	26300	21500	14500	31300	15500	2370	2810	7180	6870
26	1460	560	2590	25700	24100	14400	24500	15100	3530	2830	6280	6240
27	791	1220	2770	22900	25200	14300	19200	14700	3490	1800	6800	6770
28	1330	1490	4380	15700	26200	14400	16800	14400	3660	438	6920	6960
29	818	1360	7070	14400	---	14500	17900	8510	2320	1480	6910	6920
30	1180	1210	7050	14600	---	14600	21900	7920	621	3000	6900	6930
31	1100	---	7000	15000	---	14500	---	8230	---	2820	7350	---
TOTAL	34735	31098	77722	543050	465800	506000	603250	733560	201301	73143	141436	212960
MEAN	1120	1037	2507	17520	16640	16320	20110	23660	6710	2359	4562	7099
MAX	1700	1660	7070	33200	26200	27200	72500	35700	10600	5160	7350	7440
MIN	367	273	344	5920	14000	14200	2290	7920	621	386	310	6240
AC-FT	68900	61680	154200	1077000	923900	1004000	1197000	1455000	399300	145100	280500	422400

CAL YR 1990 TOTAL 3135196 MEAN 8590 MAX 38500 MIN 273 AC-FT 6219000
WTR YR 1991 TOTAL 3624055 MEAN 9929 MAX 72500 MIN 273 AC-FT 7188000

e Estimated.

08028000 BAYOU ANACOCO NEAR ROSEFINE, LA

LOCATION.--Lat 30°57'10", long 93°21'10", on line between secs.25 and 26, T.1 S., R.10 W., Vernon Parish, Hydrologic Unit 12010005, near center of span on downstream side of bridge on parish road from Rosepine to Evans, just downstream from Pocasin Creek, and 4.8 mi northwest of Rosepine.

DRAINAGE AREA.--365 mi².

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 2122: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 118.09 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 11, 1954, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges. Records good. Some effect from storage in Anacoco Lake (usable capacity, 41,300 acre-ft) except January 1956 to September 1958 and Vernon Lake (usable capacity, 58,000 acre-ft) since May 1963. Occasional regulation July to September in most years caused temporary lowering of the reservoirs upstream. Several measurements of water temperature were made during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	85	379	396	1800	191	2000	740	901	125	379
2	16	13	80	394	336	2750	161	1360	544	645	105	295
3	19	13	109	1380	294	2730	143	1840	405	697	84	230
4	24	15	195	1730	276	2060	e130	2470	323	1550	71	404
5	27	28	146	1330	1490	1240	e120	2670	282	2450	62	890
6	29	31	100	904	2340	890	e300	3110	262	2550	59	1330
7	27	26	136	694	1980	720	e400	3300	308	2290	52	1230
8	25	21	166	575	1080	586	e800	3140	232	1280	62	1220
9	22	67	135	479	627	458	e750	4100	184	1200	73	1220
10	21	94	107	1360	483	383	e300	6400	1290	1140	105	1110
11	20	50	90	2590	396	326	e1200	5490	2400	901	120	1040
12	19	36	78	2840	334	290	e3200	3520	2050	633	162	952
13	17	30	71	2950	292	277	e3000	2110	1320	463	245	816
14	16	26	68	2390	271	257	e2500	1190	948	360	426	726
15	16	23	66	1920	247	238	e3000	1830	647	292	753	686
16	15	22	63	2280	214	224	e2800	2640	498	261	1100	720
17	15	23	75	2040	223	362	e2000	2530	399	222	1010	685
18	15	21	114	1520	243	467	e1900	2040	329	180	763	569
19	14	21	134	2210	836	411	e2700	1820	347	146	586	366
20	13	20	121	2350	1610	344	e2300	2110	491	120	472	253
21	22	19	114	1880	1950	299	e1700	1900	418	107	330	184
22	51	22	257	1190	3240	273	e800	1260	546	100	284	156
23	52	50	530	846	3740	256	557	979	621	94	220	151
24	30	51	496	977	3630	235	455	778	566	91	171	252
25	23	37	393	1380	2430	218	395	641	556	87	140	532
26	20	31	314	1170	1470	197	341	613	964	82	120	660
27	17	26	334	865	1250	174	969	488	821	79	103	324
28	15	76	579	698	959	180	1650	414	906	77	94	212
29	15	134	623	581	---	388	2090	358	1490	89	85	144
30	14	98	520	500	---	345	2310	439	1550	160	79	110
31	14	---	475	457	---	243	---	1080	---	142	179	---
TOTAL	660	1137	6774	42859	32637	19621	39162	64620	22437	19389	8240	17846
MEAN	21.3	37.9	219	1383	1166	633	1305	2085	748	625	266	595
MAX	52	134	623	2950	3740	2750	3200	6400	2400	2550	1100	1330
MIN	13	13	63	379	214	174	120	358	184	77	52	110
AC-FT	1310	2260	13440	85010	64740	38920	77680	128200	44500	38460	16340	35400
CFSM	.06	.10	.60	3.79	3.19	1.73	3.58	5.71	2.05	1.71	.73	1.63
IN.	.07	.12	.69	4.37	3.33	2.00	3.99	6.59	2.29	1.98	.84	1.82

e Estimated.

08028000 BAYOU ANACOCO NEAR ROSEFINE, LA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1991, BY WATER YEAR (WY)

MEAN	133	311	653	712	933	701	706	701	304	263	176	171
MAX	1114	2418	6006	2741	4220	1901	2402	6181	2628	2665	2286	1698
(WY)	1985	1958	1983	1990	1966	1973	1952	1953	1989	1989	1955	1958
MIN	7.95	13.5	40.1	35.8	138	124	42.9	36.6	15.7	26.2	12.1	10.4
(WY)	1964	1968	1955	1981	1954	1954	1981	1978	1971	1954	1956	1967

SUMMARY STATISTICS

FOR 1990 CALENDAR YEAR

FOR 1991 WATER YEAR

WATER YEARS 1952 - 1991

ANNUAL TOTAL	189776					275382						
ANNUAL MEAN	520					754						
HIGHEST ANNUAL MEAN									478			
LOWEST ANNUAL MEAN									1265		1983	
HIGHEST DAILY MEAN	14200	Jan 21				6400	May 10		102		1981	
LOWEST DAILY MEAN	11	Aug 31				13	Oct 20		49900	Apr 30	1953	
ANNUAL SEVEN-DAY MINIMUM	14	Aug 26				14	Oct 28		5.6	Sep 27	1981	
INSTANTANEOUS PEAK FLOW						6840	May 10		5.8	Sep 24	1981	
INSTANTANEOUS PEAK STAGE						20.81	May 10		64300	May 19	1953	
INSTANTANEOUS LOW FLOW						13	Oct 19,20,		28.38	May 19	1953	
							21,30,31		4.0	Sep 28,29,30	1981	
							Nov 1-3,4					
INSTANTANEOUS LOW STAGE						2.97	Oct 19,20,21					
							Nov 1-3,4					
ANNUAL RUNOFF (AC-FT)	376400					546200			346300			
ANNUAL RUNOFF (CFSM)	1.42					2.07			1.31			
ANNUAL RUNOFF (INCHES)	19.34					28.07			17.79			
10 PERCENT EXCEEDS	1280					2240			1070			
50 PERCENT EXCEEDS	112					362			145			
90 PERCENT EXCEEDS	16					24			20			

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.02	2.98	3.65	5.63	5.72	12.19	4.38	13.09	7.52	8.29	3.91	5.61
2	3.01	2.98	3.61	5.69	5.35	16.05	4.17	10.40	6.53	7.04	3.75	5.08
3	3.05	2.98	3.84	10.44	5.08	16.00	4.04	12.39	5.77	7.31	3.60	4.65
4	3.11	3.00	4.48	12.00	4.95	13.32	---	14.97	5.27	11.08	3.49	5.72
5	3.13	3.15	4.13	10.25	10.88	9.87	---	15.74	4.99	14.89	3.43	8.23
6	3.17	3.18	3.77	8.31	14.45	8.24	---	17.29	4.86	15.31	3.40	10.27
7	3.14	3.13	4.05	7.29	13.01	7.42	---	17.86	5.17	14.24	3.34	9.80
8	3.12	3.07	4.27	6.69	9.09	6.74	---	17.42	4.66	10.04	3.42	9.77
9	3.08	3.50	4.04	6.19	6.95	6.08	---	19.21	4.33	9.66	3.51	9.79
10	3.06	3.73	3.83	10.27	6.22	5.64	---	20.65	9.66	9.39	3.76	9.27
11	3.05	3.35	3.69	15.42	5.72	5.28	---	20.27	14.71	8.29	3.87	8.94
12	3.04	3.23	3.60	16.40	5.34	5.05	---	18.21	13.30	6.98	4.17	8.53
13	3.03	3.17	3.53	16.81	5.06	4.96	---	13.52	10.19	6.10	4.75	7.89
14	3.01	3.13	3.51	14.64	4.92	4.83	---	9.64	8.51	5.50	5.87	7.45
15	3.01	3.10	3.49	12.78	4.76	4.70	---	12.33	7.05	5.06	7.58	7.25
16	3.00	3.08	3.47	14.24	4.54	4.60	---	15.63	6.30	4.85	9.23	7.42
17	3.00	3.08	3.57	13.25	4.60	5.50	---	15.23	5.74	4.59	8.79	7.24
18	3.00	3.07	3.88	11.12	4.73	6.13	---	13.27	5.31	4.30	7.63	6.66
19	2.98	3.06	4.03	13.95	7.85	5.81	---	12.38	5.42	4.06	6.75	5.53
20	2.97	3.05	3.94	14.51	11.51	5.40	---	13.53	6.24	3.87	6.15	4.80
21	3.08	3.04	3.88	12.61	12.88	5.11	---	12.70	5.85	3.77	5.31	4.33
22	3.37	3.07	4.84	9.64	17.64	4.94	---	9.96	6.54	3.72	5.01	4.13
23	3.38	3.36	6.46	8.04	18.78	4.83	6.60	8.66	6.92	3.67	4.58	4.10
24	3.17	3.36	6.28	8.64	18.56	4.68	6.06	7.70	6.65	3.65	4.24	4.78
25	3.09	3.24	5.72	10.48	14.77	4.56	5.71	7.02	6.59	3.62	4.02	6.46
26	3.05	3.18	5.24	9.52	10.90	4.42	5.38	6.88	8.58	3.58	3.87	7.12
27	3.02	3.13	5.36	8.12	9.88	4.26	8.54	6.24	7.91	3.56	3.74	5.26
28	3.01	3.58	6.71	7.31	8.57	4.30	11.66	5.83	8.32	3.54	3.67	4.53
29	3.00	4.03	6.93	6.72	---	5.67	13.48	5.48	10.94	3.63	3.60	4.05
30	2.99	3.76	6.41	6.31	---	5.40	14.36	5.91	11.23	4.15	3.56	3.79
31	2.98	---	6.18	6.07	---	4.74	---	9.12	---	4.03	4.28	---
MAX	3.38	4.03	6.93	16.81	18.78	16.05	---	20.65	14.71	15.31	9.23	10.27
MIN	2.97	2.98	3.47	5.63	4.54	4.26	---	5.48	4.33	3.54	3.34	3.79

08028200 BAYOU ANACOCO NEAR KNIGHT, LA

LOCATION.--Lat 30°52'14", long 93°30'38", in SE 1/4 sec.20, T.2 S., R.11 W., Beauregard-Vernon Parish line, near right bank of low-water channel at downstream side of bridge on State Highway 111, 4.9 mi southwest of Knight, and 5.2 mi upstream from mouth.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--Water years 1958, 1961, 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1969 to September 1972.

WATER TEMPERATURES: December 1969 to September 1971.

COLOR: December 1969 to July 1972.

REMARKS.--Some effect from storage in Anacoco Lake (usable capacity, 41,300 acre-ft) except January 1956 to September 1958 and Lake Vernon (usable capacity, 58,000 acre-ft) since May 1963. Water used by paper mill at De Ridder is pumped from wells and discharged later as waste into bayou above station. This discharge is not continuous but is stored in a reservoir and is released whenever flow of bayou is sufficient to dilute effluent from mill.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 910 micromhos Oct. 31, 1970; minimum daily, 40 micromhos Jan. 1, 1970, Jan. 7, 1972.

WATER TEMPERATURES: Maximum daily, 33.0 °C June 15, 1970; minimum daily, 7.0 °C Jan. 9, 10, 1970.

COLOR: Maximum daily, 600 units Mar. 16, 1971; minimum daily, 5 units June 20, 27-30, 1970.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A water temperature of 6.0 °C was observed Jan. 19, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPECIFIC CONDUCTANCE (µS/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 1990 17...	1030	816	7.52	23.0	150	4.0	8.2	1.7	88	96
JAN 1991 24...	0945	246	6.78	10.0	100	25	9.5	3.8	2400	200

DATE	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, TOT FET FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
OCT 1990 17...	52	18	1.8	140	7.5	70	150	91	0.5	21
JAN 1991 24...	22	7.3	1.0	36	2.5	26	41	26	--	10

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 1990 17...	517	472	7	0.01	0.70	0.05	0.8	1.5	0.18
JAN 1991 24...	155	140	41	--	0.12	--	1.0	1.1	0.18

DATE	ARSENIC TOTAL (µG/L AS AS)	ARSENIC DIS-SOLVED (µG/L AS AS)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	BERYLLIUM, TOTAL RECOVERABLE (µG/L AS BE)	BERYLLIUM, DIS-SOLVED (µG/L AS BE)	CADMIUM TOTAL RECOVERABLE (µG/L AS CD)	CADMIUM DIS-SOLVED (µG/L AS CD)	CADMIUM RECOVERABLE IN BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, TOTAL RECOVERABLE (µG/L AS CR)	CHROMIUM, RECOVERABLE IN BOTTOM MATERIAL (UG/G)	CHROMIUM, HEXAVALENT, DIS. (µG/L AS CR)
OCT 1990 17...	<1	<1	<1	<10	<10	<1	<1	<1	2	<10	<1

< Actual value is known to be less than the value shown.

SABINE RIVER BASIN

08028200 BAYOU ANACOCO NEAR KNIGHT, LA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU)	COPPER, DIS- SOLVED (µG/L AS CU)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, DIS- SOLVED (µG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB)	LEAD, DIS- SOLVED (µG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, DIS- SOLVED (µG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY TOTAL RECOV- ERABLE (µG/L AS HG)
OCT 1990 17...	1	1	<1	420	190	<1	<1	<10	270	24	<0.1
JAN 1991 24...	--	--	--	340	--	--	--	--	210	--	--

DATE	MERCURY DIS- SOLVED (µG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI)	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, TOTAL (µG/L AS SE)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	VANA- DIUM, DIS- SOLVED (µG/L AS V)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN)	ZINC, DIS- SOLVED (µG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 1990 17...	<0.1	<0.01	2	1	<1	<1	1	10	10	1	20

DATE	PCB, TOTAL (µG/L)	PCB, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (µG/L)	PCN, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	ALDRIN, TOTAL (µG/L)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	DDD, TOTAL (µG/L)	DDD, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	DDE, TOTAL (µG/L)
OCT 1990 17...	<0.1	<100	<0.1	<100	<0.01	<10	<0.01	<10	<0.01	<10	<0.01

DATE	DDE, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	DDT, TOTAL (µG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	DI- AZINON, TOTAL (µG/L)	DI- AZINON, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	DI- ELDRIN, TOTAL (µG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	ENDO- SULFAN, TOTAL (µG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	ENDO- SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)
OCT 1990 17...	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10

DATE	ETHION, TOTAL (µG/L)	ETHION, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	HEPTA- CHLOR, TOTAL (µG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (µG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (µG/KG)	LINDANE TOTAL (µG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	MALA- THION, TOTAL (µG/L)	MALA- THION, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)
OCT 1990 17...	<0.01	<10	<0.01	<10	<.010	<10	<0.01	<10	<0.01	<10

DATE	METH- OXY- CHLOR, TOTAL (µG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (µG/KG)	METHYL PARA- THION, TOTAL (µG/L)	METHYL PARA- THION, TOT. IN BOTTOM MATL. (µG/KG)	METHYL TRI- THION, TOTAL (µG/L)	METHYL TRI- THION, TOT. IN BOTTOM MATL. (µG/KG)	MIREX, TOTAL (µG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	PARA- THION, TOTAL (µG/L)	PARA- THION, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)
OCT 1990 17...	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10	<0.01	<10

DATE	PER- THANE TOTAL (µG/L)	PER- THANE TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	TOX- APHENE, TOTAL (µG/L)	TOX- APHENE, TOTAL IN BOT- TOM MA- TERIAL (µG/KG)	TOTAL TRI- THION (µG/L)	TOTAL TRI- THION IN BOT- TOM MA- TERIAL (µG/KG)	2,4-D, TOTAL (µG/L)	2, 4-DP TOTAL (µG/L)	2,4,5-T TOTAL (µG/L)	SILVEX, TOTAL (µG/L)
OCT 1990 17...	<0.01	<10	<0.5	<500	<0.01	<10	<0.1	<0.1	<0.1	<0.1

< Actual value is known to be less than the value shown.

08028500 SABINE RIVER NEAR BON WIER, TX

LOCATION.--Lat 30°44'49", long 93°36'30", Beauregard Parish, Louisiana-Newton County, Texas State line, Hydrologic Unit 12010005, near left bank at downstream side of bridge on U.S. Highway 190, 0.7 mi upstream from Quicksand Creek, 0.8 mi upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.0 mi east of Bon Wier, 2.4 mi upstream from Caney Creek, and at mile 97.7.

DRAINAGE AREA.--8,229 mi².

PERIOD OF RECORD.--October 1923 to current year. Monthly discharge only for some periods, published in WSP 1312. Gage-height records collected in this vicinity since 1913 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 1342: 1953. WSP 1442: 1924, 1926-27(M), 1929(M), 1939. WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 33.42 ft above National Geodetic Vertical Datum of 1929. Prior to July 8, 1931, nonrecording gage at site 0.8 mi downstream at datum 13.00 ft higher. July 8, 1931, to Oct. 15, 1958, nonrecording gage at present site at datum 13.00 ft higher. Oct. 16, 1958, to Sept. 30, 1975, water-stage recorder at present site at datum 13.00 ft higher. Oct. 1, 1975, to Dec. 31, 1988, at present site at datum 10.00 ft higher.

REMARKS.--Records poor. Flow regulated by Toledo Bend Reservoir (station 08025350) located 58.8 mi upstream. Gage-height telemeter at station.

AVERAGE DISCHARGE.--43 years (water years 1924-66) prior to completion of Toledo Bend Reservoir, 6,846 ft³/s (4,960,000 acre-ft/yr); 25 years (water years 1967-91) regulated, 6,727 ft³/s (4,874,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 115,000 ft³/s May 19, 1953 (gage height, 38.70 ft, current datum); minimum daily, 134 ft³/s Nov. 9, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1833, 43.5 ft Apr. 23 or 24, 1913, from information by Gulf, Colorado, and Santa Fe Railway Co. and local residents. Flood in May 1884 reached a stage of 39 ft. Floods occurring about 1844 and 1860 were higher than flood in May 1884, from information by local residents. All flood data referenced to current datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68,500 ft³/s Apr. 22, time unknown, (gage height, 36.20 ft, from local resident); minimum daily, 786 ft³/s Nov. 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1450	1470	1940	7940	16600	28800	15000	e25100	12000	e3250	4000	8700
2	1070	1540	2190	8090	16600	29700	9890	e24300	10500	4280	3940	8230
3	1460	1550	1920	10700	16000	e30000	4380	e25100	9850	5390	3950	7910
4	1750	1840	1330	11400	15500	e29400	4020	e27200	9560	5590	2400	7910
5	1930	1590	2730	10700	16200	e26400	4030	e29400	9220	7590	e1210	8210
6	1710	1210	2900	9400	16600	e21200	3920	e31700	9070	7280	2380	8720
7	1960	1660	4050	8750	16600	e18500	e4170	e34600	8960	5620	3650	9200
8	1520	1670	3470	8090	17100	e17500	7940	e37000	9030	4090	3750	9000
9	1120	1790	2110	10200	16600	e16700	8030	e38800	8820	4800	3900	8970
10	1590	2170	1180	13500	15700	e16300	6680	e39200	10300	5790	3920	8990
11	1610	2270	2290	18900	15500	e16400	6840	e38800	17600	5440	2840	8680
12	1730	2020	2990	20300	15700	e16300	11900	e37900	15600	5010	2310	8610
13	1670	1360	2480	21000	15900	16400	14900	e37000	12800	4750	3580	8510
14	2090	1790	3520	18800	16000	16500	16200	e34600	11300	2970	5500	8270
15	1380	1760	3200	18600	15900	16400	20100	e33100	10200	e1710	7010	7940
16	1080	1540	2210	20600	15300	16100	21700	e31700	9670	e1440	6830	8190
17	1580	949	1170	22100	15300	15900	21600	e30900	9400	2970	6240	8350
18	1550	826	2220	25300	15200	15700	22000	e30000	9130	4050	8250	8220
19	1400	786	3340	28000	15800	15500	26400	e29400	8990	3610	8260	8360
20	1470	913	3550	30200	18500	15600	33800	e28900	9010	3890	8140	8460
21	1760	1740	3610	32000	21200	15600	49800	e28100	9210	2500	7790	7910
22	1840	1590	3990	e33200	25700	15600	67800	e27800	9240	e1340	7670	7610
23	1090	1810	3730	e31500	26000	15500	66400	e27200	9330	2640	7850	7470
24	1220	1730	2380	e29700	24000	15800	60400	e26200	9410	3810	7780	7480
25	1610	2420	2790	28800	24200	15500	46300	e24000	6720	3890	7730	8460
26	1580	1470	3870	28400	25400	15200	e40600	e21400	5010	3870	7610	8520
27	1780	1130	3610	28100	26800	14900	e34600	e19000	5940	4020	6740	7560
28	1320	1920	4220	25100	27500	14800	e35200	e16600	5860	2550	7260	7670
29	1570	2410	6180	e20100	---	15200	e31700	e14300	6160	e1320	7410	7700
30	1100	2180	8020	e17900	---	15400	e29400	e11500	4690	3280	7410	7600
31	1490	---	7980	e17100	---	15400	---	e12000	---	4340	7820	---
TOTAL	47480	49104	101170	614470	523400	564200	725700	872800	282580	123080	175130	247410
MEAN	1532	1637	3264	19820	18690	18200	24190	28150	9419	3970	5649	8247
MAX	2090	2420	8020	33200	27500	30000	67800	39200	17600	7590	8260	9200
MIN	1070	786	1170	7940	15200	14800	3920	11500	4690	1320	1210	7470
AC-FT	94180	97400	200700	1219000	1038000	1119000	1439000	1731000	560500	244100	347400	490700

CAL YR 1990 TOTAL 3521803 MEAN 9649 MAX 38100 MIN 786 AC-FT 6985000
WTR YR 1991 TOTAL 4326524 MEAN 11850 MAX 67800 MIN 786 AC-FT 8582000

e Estimated.

LOCATION.--Lat 30°18'13", long 93°44'37", Calcasieu Parish, Louisiana-Newton County, Texas State line, Hydrologic Unit 12010005, at downstream side of bridge on State Highway 12, 2.4 mi north of Ruliff, 4.2 mi upstream from the Kansas City Southern Railway Co. bridge, 4.5 mi downstream from Cypress Creek, and at mile 40.2.

PERIOD OF RECORD.--October 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5.92 ft below National Geodetic Vertical Datum of 1929. Prior to Mar. 1, 1941, nonrecording gage at Kansas City Southern Railway Co. bridge, 4.2 mi downstream and at datum 7.98 ft higher than current datum. Mar. 1, 1941, to Dec. 8, 1948, nonrecording gage at present site and at datum 10.00 ft higher than current datum. Dec. 9, 1948, to Dec. 31, 1989, recording gage at present site and at datum 10.00 ft higher than current datum.

AVERAGE DISCHARGE.--42 years (water years 1925-66) prior to completion of Toledo Bend Reservoir, 8,422 ft³/s (6,102,000 acre-ft/yr); 25 years (water years 1967-91) regulated, 8,056 ft³/s (5,837,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft³/s May 22, 1953 (gage height, 29.98 ft, current datum); minimum, 270 ft³/s Sept. 27-30, Oct. 1-3, 17-20, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1835, 32.2 ft in May or June 1884 (adjusted to present site and datum on basis of slope of flood of June 8, 9, 1950); flood of Apr. 26-29, 1913, reached a stage of 29.5 ft, present site and datum, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59,600 ft³/s Apr. 25 at 1100 hours (gage height, 26.51 ft);
minimum daily, 1.020 ft³/s Nov. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1980	1550	2490	6840	19500	26700	13600	27200	16300	7970	4310	6860
2	2070	1640	2300	7540	17200	27600	13900	24600	16800	7280	4900	7010
3	1490	1660	2160	8550	16100	30400	13900	23600	16800	6260	4850	7380
4	1530	1690	2270	9760	15700	34100	13100	24000	16000	6330	4730	7670
5	1780	1750	1780	11200	16500	35400	11100	23800	14500	7310	4350	7760
6	2010	1930	1990	13000	16300	33700	9110	22200	13300	7520	2900	7800
7	2110	1530	2840	14300	16300	29800	8270	24100	12000	8250	2180	7880
8	2090	1550	3590	13800	16800	25100	7970	29300	11200	8990	3250	8050
9	2180	1810	3760	12600	17500	20700	8240	34600	10900	8670	3930	8340
10	1600	1950	3270	14700	17500	17900	8990	38200	12500	7510	4130	8480
11	1630	2100	1960	15400	16900	16600	9900	40600	15700	6950	4230	8490
12	1790	2370	1680	16100	16200	15900	10200	40100	18700	6920	4170	8530
13	1840	2500	2450	18300	15600	15100	10400	37200	20000	6780	3610	8520
14	1910	1890	2420	23300	14900	14500	12100	34600	20000	6430	4070	8360
15	2010	1700	2770	28300	14500	14400	16400	36600	18000	5780	5230	8280
16	2120	1800	3060	27900	14200	14800	20400	36000	16000	4020	6110	8160
17	1520	1780	2870	26200	14700	14900	24400	36300	14300	2810	6730	7900
18	1590	1470	1970	26100	14800	14900	26300	36700	12800	2710	7110	7720
19	1760	1180	1620	27700	14900	15100	25400	37800	11800	3860	7230	7690
20	1700	1060	2540	29500	14800	15100	23000	37400	11300	4410	7280	7690
21	1670	1020	3140	31800	16500	15100	23000	35400	10500	4470	7350	7770
22	1820	1300	3370	34100	18900	14900	28500	33000	10300	4350	7380	7890
23	2120	1640	3530	35700	23300	14500	39300	30700	10400	3050	7340	7880
24	1810	1690	3690	36700	29700	14200	52700	28900	10600	2370	7180	7740
25	1530	1750	3090	35300	33200	13900	58200	26600	10700	3470	7080	7770
26	1740	1940	2620	33000	31100	13900	56000	24000	10500	4200	7050	7660
27	1790	2060	3250	31400	28100	13700	48900	20800	10400	4470	7060	7750
28	1880	1700	3650	30100	26600	13700	40100	19200	10100	4570	7130	7990
29	1750	1880	3970	28800	---	14000	34500	17800	9230	4430	6900	8040
30	1790	2300	4880	26800	---	13600	31000	16900	8330	3330	6770	7880
31	1530	---	6020	23300	---	13500	---	16600	---	3140	6800	---
TOTAL	56140	52190	91000	698090	528300	587700	698880	914800	399960	168610	173340	236940
MEAN	1811	1740	2935	22520	18870	18960	23300	29510	13330	5439	5592	7898
MAX	2180	2500	6020	36700	33200	35400	58200	40600	20000	8990	7380	8530
MIN	1490	1020	1620	6840	14200	13500	7970	16600	8330	2370	2180	6860
AC-FT	111400	103500	180500	1385000	1048000	1166000	1386000	1815000	793300	334400	343800	470000
CAL YR 1990	TOTAL 3608870		MEAN 9887		MAX 34500		MIN 1020		AC-FT 7158000			
WTR YR 1991	TOTAL 4605950		MEAN 12620		MAX 58200		MIN 1020		AC-FT 9136000			

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than at stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of peak elevation at flood-profile stations. Discharge measurements made at miscellaneous sites for both low flow and high flow; and discharge measurements made for a seepage study are presented following the partial-record tables.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991

ANNUAL MAXIMUM DISCHARGE AT CREST STAGE PARTIAL RECORD STATIONS DURING WATER YEAR 1991					Annual maximum		
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (ft)	Dis-charge (ft ³ /s)
RED RIVER BASIN							
07348725	Indian Creek at Shongaloo, La.	Lat 32°55'55", long 93°17'30", Webster Parish, at bridge on State Highway 159, and 0.8 mi southeast of Shongaloo.	33.1	1966-91	4-28-91	46.86	15,200
07351670	Rambin Bayou near Frierson, La.	Lat 32°13'25", long 93°42'15", De Soto Parish, at bridge on State Highway 175, and 1.75 mi south of Frierson.	59.6	1966-91	a5-18-89 4-13-91	12.09 12.96	6,740 9,080
07352400	Kepler Creek at Sparta, La.	Lat 32°22'05", long 93°05'35", Bienville Parish, at bridge on State Highway 507, and 0.8 mi west of Sparta.	21.1	1954-68, 1974-91	4-29-91	46.23	4,570
07353990	Kisatchie Bayou at Kisatchie, La.	Lat 31°25'20", long 93°10'14", Natchitoches Parish, at bridge on State Highway 117 and 0.6 mi north of Kisatchie.	37.3	1966-91	5- 4-91	23.02	5,050
07364870	Sugar Creek near Arcadia, La.	Lat 32°41'20", long 92°51'30", Claiborne-Lincoln Parish line, at bridge on State Highway 146, and 10.3 mi northeast of Arcadia.	b47	1966-91	4-29-91	48.34	15,000
07366403	Bayou Choudrant tributary near Tremont, La.	Lat 32°31'55", long 92°27'55", Lincoln Parish, at culvert on Interstate Highway 20, and 1.1 mi northwest of Tremont.	0.54	1966-91	4-29-91	9.48	483
07366420	Bayou Choudrant near Calhoun, La.	Lat 32°32'35", long 92°22'50", Ouachita Parish, at bridge on State Highway 151, and 2.5 mi northwest of Calhoun.	113	1966-91	4-29-91	46.06	13,700
07367250	Guyton Creek near Eros, La.	Lat 32°25'25", long 92°21'30", Ouachita Parish, at culvert on State Highway 546, and 4.3 mi east of Eros.	8.76	1968-91	4-29-91	13.94	2,480
07369360	Bushley Creek at Manifest, La.	Lat 31°42'50", long 91°57'10", Catahoula Parish, at bridge on State Highway 8, and 0.5 mi east of Manifest.	64.7	1984-91	4-29-91	39.82	6,410

See footnotes at end of table.

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued					Annual maximum		
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (ft)	Dis-charge (ft ³ /s)
RED RIVER BASIN--Continued							
07370600	Beaucoup Creek near Cotton Plant, La.	Lat 32°06'40", long 92°19'20", Winn Parish, at bridge on State Highway 126, and 3.3 mi west of Cotton Plant.	127	1951-68, 1974-91	4-13-91	13.57	10,500
07372110	Brushy Creek near Joyce, La.	Lat 31°55'10", long 92°33'15", Winn Parish, at bridge on U.S. Highway 84, and 3.0 mi southeast of Joyce.	b24	1965-91	4-13-91	46.17	7,470
MISSISSIPPI RIVER DELTA							
07375222	Abita River north of Abita Springs, La.	Lat 30°28'55", long 90°02'20", St. Tammany Parish, at bridge on State Highway 36, and 0.2 mi north of village of Abita Springs.	46.1	1966-91	5-10-91	c22.25	3,060
07375307	Terrys Creek near Kentwood, La.	Lat 30°57'23", long 90°30'13", Tangipahoa Parish, at bridge on U.S. Highway 51, and 5.1 mi northeast of Kentwood.	52.0	1966-91	1-31-91 4-30-91	10.84 10.84	2,000 2,000
07377210	Sandy Creek near Pride, La.	Lat 30°40'14", long 90°57'36", East Baton Rouge Parish, at bridge on Carson Road, 0.8 mi east of intersection of Carson Road with State Highway 409, and 1.9 mi southeast of Pride.	69.9	1976-91	5-11-91	c88.65	3,090
MERMENTAU RIVER BASIN							
08011800	Castor Creek near Oberlin, La.	Lat 30°37'10", long 92°37'10", Allen Parish, at bridge on Parish road 0.1 mi upstream from Mulberry Creek, and 8.5 mi east of Oberlin.	43.9	1964-91	1-12-91 2-24-91	c45.86 c45.86	2,000 2,000
CALCASIEU RIVER BASIN							
08013610	Whisky Chitto Creek tributary near Leesville, La.	Lat 31°06'55", long 93°09'50", Vernon Parish, at culvert on Ninth Street in North Fort Polk, and 3.2 mi upstream from mouth.	0.32	1966-91	5- 4-91	9.59	430
08015200	Dry Creek at Dry Creek, La.	Lat 30°39'25", long 93°02'45", Beauregard Parish, at bridge on State Highway 113, and 1.0 mi south of Dry Creek.	42.7	1954-68, 1975-91	1-13-91	22.36	3,450
SABINE RIVER BASIN							
08024030	Bayou Scie at Zwolle, La.	Lat 31°37'45", long 93°37'40", Sabine Parish, at bridge on U.S. Highway 171, and 1.0 mi east of Zwolle.	45.9	1950-68, 1974-91	4-18-91	12.74	3,970
08025850	Pearl Creek at State Highway 111, at Burr Ferry, La.	Lat 31°04'32", long 93°29'22", Vernon Parish, at bridge on State Highway 111, and 0.8 mi northeast of Burr Ferry.	9.66	1967-91	8-15-91	8.31	1,170

a Revised date.

b Approximately.

c Elevation; National Geodetic Vertical Datum of 1929 (NGVD of 1929).

The following table contains annual maximum elevation for flood-profile stations. A flood-profile gage is a device which will register the peak elevation occurring between inspections. The date of the maximum elevation is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Where two or more sites on the same stream have annual peaks caused by different floods, all floods are listed for each site. The years given in the period of record represent water years for which the annual maximum has been determined.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARITAL-RECORD STATIONS DURING WATER YEAR 1991						
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
PEARL RIVER BASIN						
02491800	Bogue Chitto at Enon, La.	Lat 30°43'10", long 90°05'00", Washington Parish, at bridge on State Highway 437, and 0.5 mi south of Enon.	1,107	1950-63, 1973-91	5-10-91	100.48
RED RIVER BASIN						
07348010	Twelvemile Bayou below Dixie, La.	Lat 32°36'25", long 93°48'35", Caddo Parish, at bridge on U.S. Highway 71, and 6.0 mi southeast of Dixie.	(a)	1979-85b, 1986-91d	5- 9-91	c165.75
07349365	Macks Bayou at Bossier City, La.	Lat 32°31'59", long 93°40'24", Caddo Parish, at bridge on U.S. Highway 80, and 3.3 mi northeast of Bossier City Post Office.	(a)	1963-86, 1990-91	4-12-91	162.83
07350820	Sand Beach Bayou at Shreveport, La.	Lat 32°26'35", long 93°43'27", Caddo Parish, at bridge on East 70th Street, and 4.3 mi southeast of Shreveport city hall.	(a)	1963-91	4-12-91	159.06
07351200	Brush Bayou at Shreveport, La.	Lat 32°26'23", long 93°46'52", Caddo Parish, at Southern Pacific Transportation Railway Company railroad bridge, and 4.9 mi southwest of Shreveport city hall.	3.4	1960-91	4-12-91	183.43
07351300	Brush Bayou near Shreveport, La.	Lat 32°23'25", long 93°46'15, Caddo Parish, at bridge on State Highway 526, and 2.5 mi south of Shreveport.	27.1	1960-91	4-12-91	166.33
07351755	Bayou Pierre at Powhatan, La.	Lat 31°51'37", long 93°12'22", Natchitoches Parish, at bridge on State Highway 485, 1.0 mi southwest of Powhatan, and 11.8 mi upstream from mouth.	879	1981-85b, 1986-91d	4-19-91	114.92
07352410	Kepler Lake near Castor, La.	Lat 32°18'40", long 93°09'30", Bienville Parish, at dam on Kepler Lake, and 5.0 mi north of Castor.	46.2	1960-65e, 1966-91	4-29-91	178.97
07354740	Old River at Montrose, La.	Lat 31°34'25", long 92°59'40", Natchitoches Parish, at bridge on State Highway 1 at Montrose.	471	1960-86, 1990-91	4-19-91	96.79
07355475	Bayou Rapides near Alexandria, La.	Lat 31°18'43", long 92°33'38", Rapides Parish, at bridge on Parish Road 1202, 12.2 mi upstream from mouth, and 6.9 mi west of Alexandria city hall.	(f)	1963-86, 1990-91	4-29-91	81.05
07364203	Bayou Bartholomew northwest of Jones, La.	Lat 32°58'55", long 91°42'00", Morehouse Parish, on right bank, 3.2 mi northwest of Jones.	g1,190	1973-85b, 1986-91d	5- 5-91	h27.56

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

FLOOD PROFILES THROUGH RECORD STATIONS DURING WATER YEAR 1991--Continued					Flood peak	
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation in ft (NGVD)
RED RIVER BASIN--Continued						
07364535	Ouachita River at Sterlington, La.	Lat 32°41'46", long 92°05'12", Ouachita-Union Parish line, on bridge on State Highway 2 at Sterlington.	12,953	1979-91b	5-10-91	85.29
07366270	Bayou D'Arbonne Lake west of Farmerville, La.	Lat 32°47'07", long 92°27'25", Union Parish, on downstream side of bridge on State Highway 2, and 3.1 mi west of Farmerville.	(f)	1979-86, 1990-91	4-30-91	91.65
07366365	Bayou D'Arbonne below dam, near Downsville, La.	Lat 32°42'46", long 92°20'26", Union Parish, on downstream side of dam at left end, and 7.4 mi northeast of Downsville.	1,607	1978-91	4-30-91	86.33
07367030	Black Bayou at West Monroe, La.	Lat 32°29'55", long 92°08'30", Ouachita Parish, on downstream side of bridge at Interstate 20-State Highway 34 exit, at West Monroe.	(a)	1978-91	4-29-91	h43.10
07367500	Cheniere Brake near Bawcomville, La.	Lat 32°27'10", long 92°11'29", Ouachita Parish, on downstream side of bridge on State Highway 3033, and 1.5 mi southwest of Bawcomville.	147	1944-45b, 1978-86, 1990-91	5- 5-91	h46.22
07367502	Cheniere Creek south of Bawcomville, La.	Lat 32°26'22", long 92°10'20", Ouachita Parish, on downstream side of bridge on State Highway 34, and 1.5 mi south of Bawcomville.	(a)	1978-86, 1990-91	5- 5-91	h48.39
07368040	Boeuf River southwest of Rayville, La.	Lat 32°25'40", long 91°49'05", Richland Parish, on left bank 5.0 mi southwest of Rayville.	(a)	1974-85b, 1986-91d	5- 4-91	66.24
07368810	Bayou Galion west of Oak Ridge, La.	Lat 32°37'35", long 91°50'19", Morehouse Parish, on downstream side of bridge on State Highway 134, and 3.7 mi west of Oak Ridge.	(a)	1979-86, 1990-91	5- 5-91	h46.58
07369016	Youngs Bayou at Monroe, La.	Lat 32°29'37", long 92°04'56", Ouachita Parish, at bridge on service road of U.S. Highway 165, and 0.3 mi south of junction with Interstate 20 at Monroe.	(a)	1978-91	5- 5-91	67.91
07369024	Youngs Bayou near Monroe, La.	Lat 32°27'34", long 92°02'49", Ouachita Parish, at bridge on Moore Road, and 3.1 mi southeast of Monroe.	(a)	1978-91	5- 5-91	65.58
07369050	Bayou Lafourche near Alto, La.	Lat 32°23'50", long 91°59'40", Ouachita-Richland Parish line at bridge on State Highway 15, and 8.0 mi west of Alto.	(a)	1973-85b, 1986-91d	5- 9-91	65.30
07369455	Brushy Bayou at Tallulah, La.	Lat 32°23'52", long 91°11'57", Madison Parish, at bridge on U.S. Highway 65, at Tallulah.	(a)	1975-80b, 1981-91	4-29-91	c76.04
07369457	Lower Roundaway Bayou tributary near Tallulah, La.	Lat 32°22'33", long 91°11'57", Madison Parish, near center of bridge on U.S. Highway 65, and 1.5 mi south of Tallulah.	(a)	1975-80b, 1981-91	4-29-91	75.14

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued					Flood peak	
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation in ft (NGVD)
RED RIVER BASIN--Continued						
07369460	Roundaway Bayou near Tallulah, La.	Lat 32°23'09", long 91°12'30", Madison Parish, at bridge on State Highway 603, and 1.5 mi southwest of Tallulah.	28	1954-59e, 1978-91	4-29-91	75.08
07369468	Panola Bayou at Tallulah, La.	Lat 32°25'02", long 91°12'24", Madison Parish, at bridge on U.S. Highway 80, and 0.2 mi northwest of Tallulah.	(a)	1978-80b, 1981-91	4-29-91	75.30
07369515	Tensas River southeast of Tendal, La.	Lat 32°23'17", long 91°20'05", Madison Parish, on right bank 3.5 mi southeast of Tendal.	(a)	1975-85b, 1986-91d	5- 5-91	74.42
07372190	Little River at Rochelle, La.	Lat 31°47'35", long 92°21'42", Grant-La Salle Parish line, at bridge on U.S. Highway 165, at Rochelle.	1.892	1938-46j, 1948-57j, 1958-85j, 1986-91d	5- 2-91	h42.49
BAYOU BATON ROUGE BASIN						
07373965	South Canal near Baker, La.	Lat 30°37'00", long 91°08'56", East Baton Rouge Parish, at bridge on McHugh Rd., 1.4 mi upstream from Cypress Bayou, and 2.3 mi northeast of Baker.	(a)	1972-82b, 1983-87e, 1988-91	5- 3-91	75.71
07373980	Baker Canal near Baker, La.	Lat 30°34'49", long 91°12'43", East Baton Rouge Parish, at bridge on U.S. Highway 61, 2.7 mi southwest of Baker.	(a)	1963-70, 1971-91b	5- 3-91	60.43
MONTE SANO BAYOU BASIN						
07373993	Monte Sano Bayou at Ryan Airport, at Baton Rouge, La.	Lat 30°32'08", long 91°09'32", East Baton Rouge Parish, at bridge on service road at Ryan Airport, 6.1 mi north of Baton Rouge Post Office.	(a)	1975-91	8-30-91	57.55
07373996	Monte Sano Bayou at Baton Rouge, La.	Lat 30°30'10", long 91°10'12", East Baton Rouge Parish, at bridge on U.S. Highway 61 at Baton Rouge.	(a)	1975-91	8-30-91	40.92
MISSISSIPPI RIVER DELTA						
07377215	Little Sandy Creek near Milldale, La.	Lat 30°42'34", long 91°01'26", East Baton Rouge Parish, at bridge on Port Hudson-Pride Road, 2.9 mi north of Milldale.	(a)	1975-91	2-21-91	110.85
07377240	Little Sandy Creek near Greenwell Springs, La.	Lat 30°37'36", long 90°59'20", East Baton Rouge Parish, at bridge on State Highway 409, 3.4 mi north of the village of Greenwell Springs, La.	28.2	1974-85b, 1986-91	2-21-91	65.31
07377250	Sandy Creek near Greenwell Springs, La.	Lat 30°36'08", long 90°59'37", East Baton Rouge Parish, at bridge on State Highway 37, 1.5 mi north of village of Greenwell Springs, La.	(a)	1982-91b	2-21-91	55.52

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

Station number	Station name	Location	Drainage area (mi ²)	Period of record	Flood peak	
					Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07377755	White Bayou East Diversion Channel near Baton Rouge, La.	Lat 30°37'00", long 91°06'55", East Baton Rouge Parish at bridge on U.S. Highway 67 (Plank Road) 12.2 mi north of Baton Rouge, and 6.5 mi north-east of terminal building at Ryan Airport at Baton Rouge.	(a)	1972-84b, 1986-87e, 1988-91	2-20-91 5- 3-91	74.48 74.53
07377780	White Bayou at State Highway 64, near Zachary, La.	Lat 30°38'10", long 91°07'38", East Baton Rouge Parish, at bridge 1.1 mi east of Zachary.	(a)	1962-75, 1977-91	2-20-91 5- 3-91	88.26 86.03
07377840	White Bayou near Baton Rouge, La.	Lat 30°35'06", long 91°07'31", East Baton Rouge Parish, at bridge on Plank Road, 10.0 mi northeast of Baton Rouge Post Office.	(a)	1962-91	1991	k<68.4
07377842	White Bayou near Baker, La.	Lat 30°34'45", long 91°07'18", East Baton Rouge Parish at bridge on Pettit Road, and 2.9 mi east of City of Baker.	(a)	1972-84b, 1986-87e, 1988-91	2-20-91 5- 3-91	h12.23 h12.63
07377890	Cypress Bayou at Baker, La.	Lat 30°34'31", long 91°10'01", East Baton Rouge Parish, at bridge on Lavey Lane, 0.2 mi east of State Highway 19 at Baker.	(a)	1967-69, 1971-91	1991	<68.2
07377900	Cypress Bayou at Plank Road, near Baton Rouge, La.	Lat 30°32'32", long 91°08'18", East Baton Rouge Parish, at bridge 6.9 mi northeast of Baton Rouge Post Office.	(a)	1962-65, 1967-91	2-20-91 5- 3-91	48.10 49.13
07377920	Cypress Bayou at Hooper Road, near Baton Rouge, La.	Lat 30°31'42", long 91°06'35", East Baton Rouge Parish, at bridge 7.0 mi northeast of Baton Rouge Post Office.	(a)	1962-91	2-20-91 5- 3-91	45.26 44.54
07377933	Blackwater Bayou near Fred, La.	Lat 30°35'52", long 91°04'46", East Baton Rouge Parish, at bridge on Dyer Road, 3.8 mi northeast of Baton Rouge Post Office.	(a)	1975-91	2-20-91 5- 3-91	72.31 72.50
07377940	Blackwater Bayou near Baton Rouge, La.	Lat 30°32'06", long 91°04'53", East Baton Rouge Parish, at bridge on Hooper Road, 8.5 mi northeast of Baton Rouge Post Office.	14.1	1962-91	2-20-91 5- 3-91	47.36 46.29
07378008	Hurricane Creek at Baton Rouge, La.	Lat 30°28'55", long 91°07'41", East Baton Rouge Parish, at bridge on East Brookstown Drive, 3.9 mi northeast of Baton Rouge Post Office.	(a)	1967-91	2-21-91 8-30-91	<42.9 43.93
07378010	Hurricane Creek near Baton Rouge, La.	Lat 30°29'14", long 91°05'20", East Baton Rouge Parish, at bridge on Joor Road, 6.2 mi northeast of Baton Rouge Post Office.	(a)	1962-91	2-21-91 8-30-91	40.95 <40.6
07378015	Roberts Canal at Baton Rouge, La.	Lat 30°30'22", long 91°07'31", East Baton Rouge Parish, at bridge on Silverleaf Ave., 5.3 mi northeast of Baton Rouge Post Office.	(a)	1967-91	8-30-91	51.83

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL RECORD STATIONS DURING WATER YEAR 1991--Continued					Flood peak	
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07378020	Roberts Canal near Baton Rouge, La.	Lat 30°29'55", long 91°05'17", East Baton Rouge Parish, at bridge on Joor Road, 6.6 mi northeast of Baton Rouge Post Office.	(a)	1962-91	1991	<40.9
07378050	Comite River at Greenwell Springs Road, near Baton Rouge, La.	Lat 30°30'20", long 90°02'24", East Baton Rouge Parish, at bridge on Greenwell Springs Road, 9.4 mi northeast of Baton Rouge Post Office.	(a)	1981-88b, 1989-91	2-21-91	38.84
07378075	Beaver Bayou at Denham Road, near Baton Rouge, La.	Lat 30°35'15", long 91°01'29", East Baton Rouge Parish, at culvert 13.7 mi northeast of Baton Rouge Post Office.	(a)	1972-91	2-20-91 4-29-91	68.65 68.99
07378091	Beaver Bayou tributary at Hooper Road, near Baton Rouge, La.	Lat 30°33'24", long 91°01'52", East Baton Rouge Parish, at culvert, 12 mi northeast of Baton Rouge Post Office.	(a)	1983-91	2-20-91 4-29-91	59.10 57.85
07378100	Beaver Bayou at Wax Road, near Baton Rouge, La.	Lat 30°32'34", long 91°01'14", East Baton Rouge Parish, at culvert 11.8 mi northeast of Baton Rouge Post Office.	9.49	1972-91	2-20-91 4-29-91	53.97 54.25
07378595	Jones Creek at Airline Highway, at Baton Rouge, La.	Lat 30°27'52", long 91°05'15", East Baton Rouge Parish, at culvert 5.1 mi northeast of Baton Rouge Post Office.	(a)	1967-91	4-29-91 8-30-91	45.67 46.82
07378600	Jones Creek at Florida Boulevard, at Baton Rouge, La.	Lat 30°27'21", long 91°04'29", East Baton Rouge Parish, at bridge 6.5 mi east of Baton Rouge Post Office.	(a)	1962-91	4-29-91 8-30-91	41.15 <38.7
07378635	Lively Bayou northeast of Baton Rouge, La.	Lat 30°28'14", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Road, 9.0 mi east of Baton Rouge Post Office.	(a)	1967-91	8-30-91	39.50
07378640	Lively Bayou east of Baton Rouge, La.	Lat 30°27'40", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Road, 8.9 mi east of Baton Rouge Post Office.	(a)	1967-91	8-30-91	37.23
07378645	Lively Bayou southeast of Baton Rouge, La.	Lat 30°26'47", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Road, 8.8 mi southeast of Baton Rouge Post Office.	(a)	1967-91	1991	(m)
07378650	Jones Creek at Old Hammond Highway, near Baton Rouge, La.	Lat 30°26'26", long 91°02'40", East Baton Rouge Parish, at bridge 8.4 mi east of Baton Rouge Post Office.	(a)	1962-91	4-29-91 8-30-91	31.89 32.33
07378670	Weiner Creek near Baton Rouge, La.	Lat 30°25'08", long 91°03'55", East Baton Rouge Parish, at bridge, on Stanley Aubin Drive, 7.3 mi southeast of Baton Rouge Post Office.	(a)	1967-91	4-29-91	40.97
07378700	Jones Creek near Woodlawn School, near Baton Rouge, La.	Lat 30°24'50", long 91°00'50", East Baton Rouge Parish, at bridge on Jones Creek Road, 1.6 mi north of Woodlawn School, and 10.5 mi east of Baton Rouge Post Office.	19.5	1967-91	4-29-91 8-30-91	24.17 21.97

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

ANNUAL MAXIMUM ELEVATION AT FLOOD PROFILE MEASURE STATIONS DURING WATER YEAR 1992					Flood peak	
Station number	Station name	Location	Drainage area (mi²)	Period of record	Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07378720	Clay Cut Bayou at Siegen Lane, near Baton Rouge, La.	Lat 30°23'46", long 91°03'20", East Baton Rouge Parish, at bridge 7.9 mi southeast of Baton Rouge Post Office.	(a)	1967-91	2-20-91 8-30-91	23.14 25.36
07378725	Clay Cut Bayou near Hope Villa, La.	Lat 30°22'23", long 90°58'10", East Baton Rouge Parish, at bridge on Tiger Bend Road, 2.3 mi northeast of Hope Villa.	(a)	1967-91	2-20-97 8-30-91	18.09 <9.3
07378780	Bayou Fountain at Ben Hur Road, at Baton Rouge, La.	Lat 30°23'30", long 91°09'36", East Baton Rouge Parish, at bridge 4.2 mi southeast of Baton Rouge Post Office.	(a)	1962-91	4-29-91	18.16
07378800	Bayou Fountain at Gardere Lane, near Baton Rouge, La.	Lat 30°21'52", long 91°07'16", East Baton Rouge Parish, at bridge 6.9 mi southeast of Baton Rouge Post Office.	(a)	1962-66, 1969-91	4-29-91	16.20
07378805	Bayou Fountain tributary near Baton Rouge, La.	Lat 30°21'00", long 91°04'54", East Baton Rouge Parish, at culvert on Highland Road, 9.1 mi southeast of Baton Rouge Post Office.	(a)	1967-91	4-29-91	12.07
07379000	Ward Creek at Government Street, at Baton Rouge, La.	Lat 30°20'20", long 91°08'35", East Baton Rouge Parish, on downstream end of culvert on Government Street, and 2.4 mi east of Baton Rouge Post Office.	4.04	1954-67b, 1969-73d, 1975-91b	4-29-91 8-30-91	40.89 41.70
07379010	Ward Creek at College Drive, at Baton Rouge, La.	Lat 30°26'08", long 91°07'59", East Baton Rouge Parish, at bridge 3.5 mi southeast of Baton Rouge Post Office.	(a)	1970-91	4-29-91 8-30-91	37.92 38.62
07379050	Ward Creek at Essen Lane, near Baton Rouge, La.	Lat 30°24'17", long 91°06'12", East Baton Rouge Parish, at bridge 5.7 mi southeast of Baton Rouge Post Office.	(a)	1963-70, 1975-91	4-29-91 8-30-91	24.00 27.96
07379090	North Branch Ward Creek at Goodwood Boulevard, at Baton Rouge, La.	Lat 30°26'34", long 91°05'27", East Baton Rouge Parish, at bridge 5.5 mi southeast of Baton Rouge Post Office.	(a)	1968-91	4-29-91	37.43
07379100	North Branch Ward Creek at Baton Rouge, La.	Lat 30°25'04", long 91°05'29", East Baton Rouge Parish, at bridge on Jefferson Highway, 5.9 mi southeast of Baton Rouge Office.	(a)	1962-91	4-29-91	26.79
07379400	Dawson Creek at Perkins Road, at Baton Rouge, La.	Lat 30°24'37", long 91°07'53", East Baton Rouge Parish, 4.1 mi southeast of Baton Rouge Post Office.	(a)	1962-91	4-29-91	h15.47
07379502	Corporation Canal at Oklahoma Street, at Baton Rouge, La.	Lat 30°26'05", long 91°11'12", East Baton Rouge Parish, at bridge 1.0 mi south of Baton Rouge Post Office.	0.56	1971-91	7- 7-91	24.77
07379503	Corporation Canal at East Roosevelt Street, at Baton Rouge, La.	Lat 30°25'18", long 91°10'36", East Baton Rouge Parish, at bridge 2.0 mi southeast of Baton Rouge Post Office.	g1.31	1971-91b	7- 7-91	22.12

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PROFILE RECORD STATIONS DURING WATER YEAR 1991 - CONTINUED					Flood peak	
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07379508	Corporation Canal at Stanford Avenue at Baton Rouge, La.	Lat 30°24'24", long 91°09'52", East Baton Rouge Parish, at culvert 3.2 mi southeast of Baton Rouge Post Office.	2.43	1971-91	1991	(m)
07379550	Bayou Duplantier at Lee Drive, at Baton Rouge, La.	Lat 30°24'05", long 91°09'09", East Baton Rouge Parish, at bridge 3.8 mi south of Baton Rouge Post Office.	(a)	1962-70, 1971-91b	5-10-91	19.12
07379950	Dawson Creek at Staring Lane, near Baton Rouge, La.	Lat 30°23'19", long 91°06'42", East Baton Rouge Parish, at bridge 6.0 mi southeast of Baton Rouge Post Office.	(a)	1962-91	1991	<19.9
07380000	Ward Creek at Siegen Lane, near Baton Rouge, La.	Lat 30°22'30", long 91°04'10", East Baton Rouge Parish, at bridge 0.5 mi downstream from Dawson Creek, and 8.5 mi southeast of Baton Rouge Post Office.	40.0	1947-53b, 1955-68e, 1972-91b	4-29-91 8-30-91	16.73 14.71
07380223	New River at Gonzales, La.	Lat 30°14'12", long 90°54'43", Ascension Parish, at bridge on U.S. Highway 61, 0.5 mi northeast of Gonzales water tower.	(a)	1963-91	1991	<7.8
07380226	Bayou Francois near Gonzales, La.	Lat 30°13'57", long 90°56'49", Ascension Parish, at bridge on State Highway 429, 1.8 mi west of Gonzales water tower.	(a)	1963-91	1991	<8.3
07380227	Bayou Francois at Gonzales, La.	Lat 30°13'35", long 90°55'14", Ascension Parish, at bridge on State Highway 44, 0.4 mi southwest of Gonzales water tower.	(a)	1963-91	1991	<7.4
07380231	Soniat Canal at Harahan, La. (station discontinued).	Lat 29°56'25", long 90°11'54", Jefferson Parish, on Bellgrove Street at Soniat Canal.	(a)	1989-91b	6-10-91	h19.65
07380232	Napoleon Canal at Metairie, La. (station discontinued).	Lat 29°59'35", long 90°10'05", Jefferson Parish, on Turnbull Street, 0.25 mi south of I-10 service road on upstream side of bridge.	(a)	1991b	6-10-91	h16.60
073802361	Murphy Canal at Harvey, La. (station discontinued).	Lat 29°52'19", long 90°18'51", Jefferson Parish, 0.25 mi west of Harvey Canal bridge on Lapalco Boulevard on upstream side of bridge.	(a)	1989-91b	4-25-91	h16.63
073802369	Saul Canal at Waggaman, La. (station discontinued).	Lat 29°56'53", long 90°14'25", Jefferson Parish, at intersection of Azalea Street and Delores Street behind Live Oak fire station.	(a)	1989-91b	8-27-91 9- 5-91	h7.16 h7.16
073802373	West Tish Ditch at Avondale, La. (station discontinued).	Lat 29°47'39", long 90°12'27", Jefferson Parish, on corner of U.S. 90 and West Tish Street behind Avondale fire station.	(a)	1989-91b	6-11-91	h22.06

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

					Flood peak	
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07381002	Bayou Lafourche below weir at Thibodaux, La.	Lat 29°47'56", long 90°04'11", Lafourche Parish, on Canal Street, 1200 ft below State Highway 20 at Thibodaux and approximately 200 ft below weir.	(a)	1986-91b	5- 9-91	8.64
07382258	Bayou Rapides-Boeuf-Cocodrie diversion channel at U.S. Highway 165, near Alexandria, La.	Lat 31°13'39", long 92°29'49", Rapides Parish, at bridge 6.5 mi southwest of Alexandria city hall.	(f)	1963-86, 1990-91	4-29-91	69.01
07382495	Bayou Courtableau near Washington, La.	Lat 30°38'53", long 92°03'40", St. Landry Parish, 0.3 mi downstream from confluence of Bayou Cocodrie and Bayou Boeuf, 2.0 mi northwest of Washington, and 3.4 mi upstream from gaging station, Bayou Courtableau at Washington.	701	1946-75j, 1976-85b, 1986-91d	5-17-91	31.85
07382840	Hynson Bayou at Bringham Park, at Alexandria, La.	Lat 31°17'19", long 92°27'16", Rapides Parish, on right bank just below bridge on Masonic Drive, and 1.7 mi south of Alexandria city hall.	(a)	1963-86, 1990-91	1991	<75.3
07382850	Horseshoe Drainage Canal at Packing House Road, at Alexandria, La.	Lat 31°16'25", long 92°26'15", Rapides Parish, at bridge 2.6 mi south of Alexandria city hall.	(a)	1959-86, 1990-91	4-29-91	67.79
07382855	Hynson Bayou at Hudson St., at Alexandria, La.	Lat 31°16'15", long 92°25'22", Rapides Parish, at bridge 3.1 mi southeast of Alexandria city hall.	(a)	1963-86, 1990-91	4-29-91	69.74
07382865	Persimmon Bayou near Alexandria, La.	Lat 31°13'45", long 92°22'51", Rapides Parish, at Texas and Pacific Railway bridge, just downstream from State Highway 1, and 6.7 mi southeast of Alexandria city hall.	(a)	1963-86, 1990-91	4-29-91	67.40
07383510	Bayou des Glaisses diversion channel near Moreauville, La.	Lat 30°59'59", long 91°58'57", Avoyelles Parish, at bridge on unnumbered parish road, and 2.5 mi south of Moreauville.	284	1972-85b, 1986-91d	1990	(m)
07385470	Bayou Teche at Robin, La.	Lat 30°26'48", long 91°55'22", St. Landry Parish, near center of span on downstream side of bridge between State Highways 31 and 740 at Robin, and 3.7 mi upstream from gaging station, Bayou Teche at Arnaudville.	(a)	1947-85b, 1986-91d	5-10-91	h21.00
07385702	Bayou Teche below Keystone Lock and Dam near St. Martinville, La.	Lat 30°04'14", long 91°49'44", St. Martin Parish, on downstream side of Keystone Lock and Dam 3.5 mi south of St. Martinville and 11 mi upstream from Loreauville Canal.	(a)	1985-91d	5-15-91	h10.17

See footnotes at end of table.

ANNUAL MAXIMUM ELEVATION AT FLOOD-PROFILE PARTIAL-RECORD STATIONS DURING WATER YEAR 1991--Continued

					Flood peak	
Station number	Station name	Location	Drainage area (mi ²)	Period of record	Date	Elevation in ft (NGVD)
MISSISSIPPI RIVER DELTA--Continued						
07386201	Bayou Fusilier below weir near Arnaudville, La.	Lat 30°23'57", long 91°56'43", St. Landry Parish, on right bank 150 ft downstream of weir and 200 ft downstream of base gage (07386200), one mi west of Arnaudville and one mi downstream from point of diversion from Bayou Teche.	(a)	1986-91d	5-11-91	20.22
07386705	Ruth Canal at Ruth, La.	Lat 30°14'34", long 91°53'05", St. Martin Parish, on right bank, 150 ft downstream from control structure, 0.5 mi northwest of Ruth, 0.6 mi downstream from point of diversion from Bayou Teche, and 2.5 mi south of town of Breau Bridge.	(a)	1959-85b, 1986-91d	5-18-91	11.46

< Less than amount shown.

a Drainage area not determined.

b Operated as a continuous-record gaging station.

c From flood mark.

d Operated as a continuous-record gaging station, daily records unpublished.

e Operated as a crest-stage partial-record station.

f Drainage area indeterminate.

g Approximately.

h Gage datum, National Geodetic Vertical Datum of 1929 (NGVD of 1929) of gage not determined.

j Operated as a continuous-record gaging station by the Corps of Engineers.

k For period October 1 to April 10.

m Missing record.

PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1991

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1991						
Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
RED RIVER BASIN						
Pine Creek	Big Creek	Lat 32°15'30", long 91°44'57", Franklin Parish, at bridge on State Highway 15, at Baskin.	(c)	1984-91	10- 9-90 11-13-90 12-10-90 1- 7-91 3-12-91 5-14-91 7-16-91 9-10-91	1.7 11 3.8 539 31 55 6.4 9.1
Little River	Black River	Lat 31°34'50", long 92°18'35", Grant-LaSalle Parish line, at bridge on State Highway 8, 7.0 mi northeast of Pollock.	2,254	1952-54, 1961-62, 1964-67, 1969, 1971, 1977, 1982-91	10- 9-90 11-13-90 12-10-90 1- 7-91 2- 6-91 3-12-91 4-17-91 5-14-91 6-11-91 7-16-91 8-13-91 9-10-91	59 257 333 5,600 3,950 6,430 32,600 14,600 1,400 390 2,300 1,020
MISSISSIPPI RIVER DELTA						
Big Creek	Tangipahoa River	Lat 30°47'44", long 90°27'06", Tangipahoa Parish, at bridge 4.1 mi northeast of Roseland.	38.4	1964-68, 1988-91	10- 9-90 11-13-90 12-10-90 1-16-91 2-11-91 3-11-91 4- 9-91 5-17-91 6-10-91 7- 8-91 8-13-91 9-10-91	26.6 19.0 30.6 77.5 47.9 33.5 30.6 44.8 33.3 23.0 19.9 23.4
East Fork Big Creek	Tangipahoa River	Lat 30°47'27", long 90°26'37", Tangipahoa Parish, at bridge 4.4 mi northeast of Roseland.	31.2	1964-68, 1988-91	10- 9-90 11-13-90 12-10-90 1-16-91 2-11-91 3-11-91 4- 9-91 5-17-91 6-10-91 7- 8-91 8-13-91 9-10-91	13.7 13.5 16.3 61.0 38.5 24.7 19.4 31.9 21.2 74.1 15.6 16.1

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

310552091361200 MISSISSIPPI RIVER (COOCHIE) NEAR BLACK HAWK, LA (CE 01020)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 1989					
09...	1230	359000	101	97700	95
22...	1115	371000	118	118000	88
DEC					
08...	1100	456000	603	743000	97
18...	1300	322000	84	73000	90
JAN 1990					
05...	1300	293000	595	471000	98
19...	1230	644000	262	455000	83
FEB					
05...	1200	883000	307	732000	78
27...	1200	1270000	189	649000	68
MAR					
07...	1230	1280000	162	560000	65
21...	1200	1040000	230	646000	65
APR					
06...	1230	1100000	466	1380000	93
16...	1230	852000	144	131000	92
MAY					
03...	1200	886000	190	454000	57
31...	1200	1080000	198	578000	86
JUL					
10...	1200	809000	386	843000	93
AUG					
09...	1130	435000	192	226000	94
23...	1145	359000	138	134000	100
SEP					
04...	1230	400000	110	118000	100
19...	1230	298000	124	99600	93

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

RED RIVER BASIN

310408091424500 RED RIVER ABOVE OLD RIVER OUTFLOW CHANNEL, ABOVE SIMMESPORT, LA (CE 04800)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 1989					
03...	1245	25900	95	6640	98
20...	1200	18600	80	4040	100
NOV					
17...	1230	26200	73	5180	100
DEC					
13...	1300	26200	97	6830	99
JAN 1990					
31...	1400	239000	--	--	--
FEB					
08...	1430	231000	--	--	--
MAR					
15...	1130	219000	969	573000	64
APR					
06...	1130	247000	803	535000	50
MAY					
16...	1130	270000	1490	1090000	66
25...	1430	303000	909	744000	53
JUN					
12...	1430	259000	522	365000	62
22...	1430	245000	668	442000	51
JUL					
12...	1430	105000	206	58400	91
25...	1500	38300	161	16500	91
AUG					
13...	1055	43500	373	43900	91
29...	1015	28900	52	4020	100
SEP					
18...	1230	29100	37	2890	97

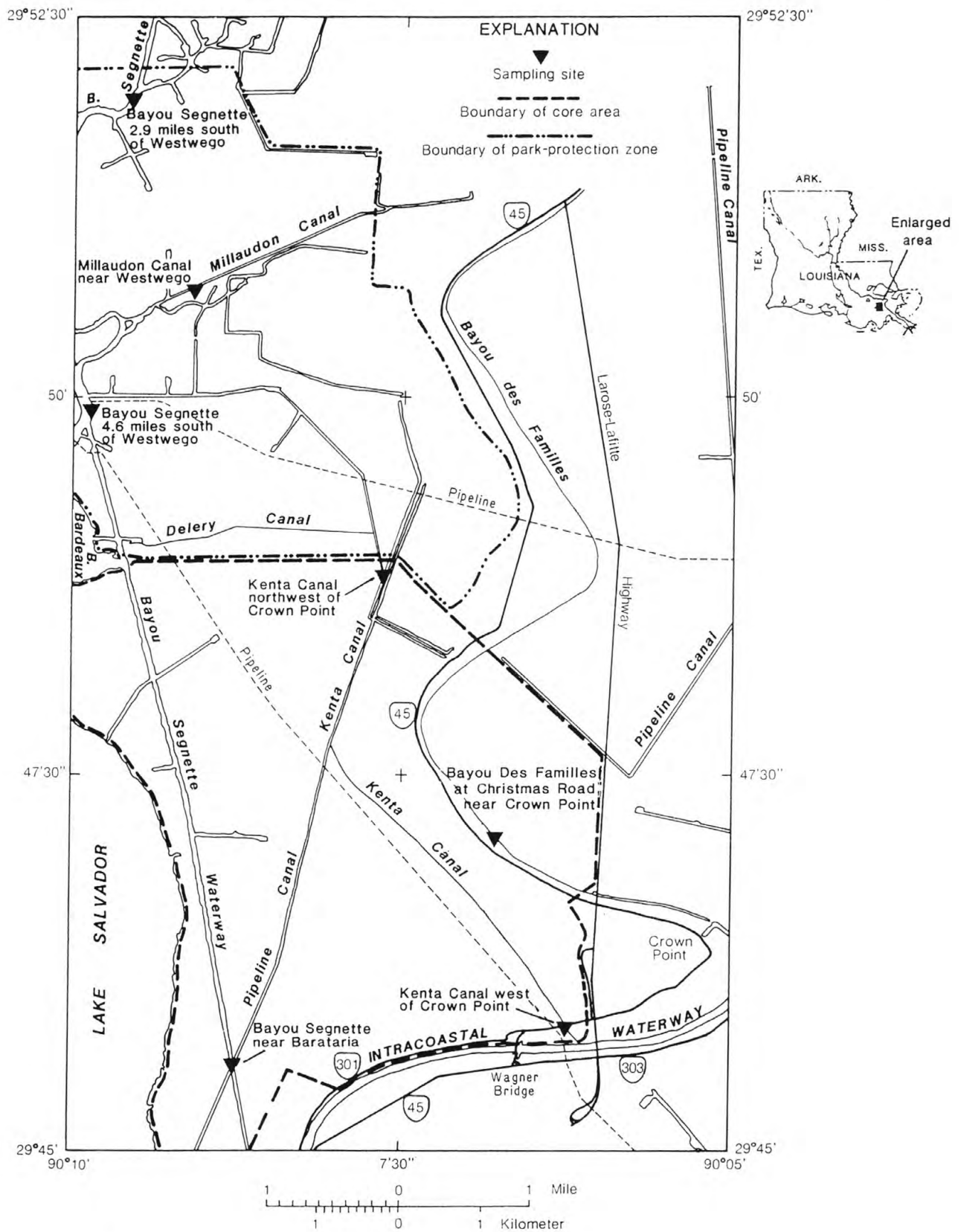


Figure 15.--Location of sampling sites in the Barataria unit, Jean Lafitte National Historical Park.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY

THE FOLLOWING WATER-QUALITY SITES WERE SAMPLED AS PART OF AN ONGOING BASIC-DATA STUDY ON THE BARATARIA UNIT OF THE JEAN LAFITTE NATIONAL HISTORIC PARK, IN COOPERATION WITH THE NATIONAL PARK SERVICE]

295202090093200 BAYOU SEGNETTE 2.9 MILES SOUTH OF WESTWEGO, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 1991 07...	0930	641	7.21	17.0	50	25	5.4	1.6	K2500	K2500
APR 29...	1030	526	7.02	24.5	70	4.8	4.5	1.5	K640	1200
JUL 24...	1140	501	7.53	32.5	70	13	5.1	>5.0	K50	K70

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 1991 07...	170	44	14	58	3.3	74	96	76	0.2
APR 29...	140	36	12	40	3.2	46	--	55	0.1
JUL 24...	140	38	11	44	3.7	104	47	60	0.2

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
FEB 1991 07...	10	382	351	1.1	0.13	0.63	0.76	1.9	0.20
APR 29...	11	293	--	0.91	0.18	3.4	3.6	4.5	0.15
JUL 24...	9.2	320	276	<0.02	0.02	1.1	1.1	--	0.10

> Actual value is known to be greater than the value shown.

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued

295040090091600 MILLAUDON CANAL NEAR WESTWEGO, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 1991 07...	0950	751	7.60	17.5	30	10	4.6	2.1	K2000	720
APR 29...	1050	299	6.76	25.0	30	13	1.9	1.8	410	1100

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 1991 07...	190	48	17	74	3.4	125	51	120	0.2
APR 29...	73	19	6.2	28	2.0	55	--	41	0.1

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
FEB 1991 07...	9.8	425	401	0.40	0.39	0.55	0.94	1.3	0.18
APR 29...	5.1	170	--	0.04	0.07	0.46	0.53	0.57	0.28

K Results based on colony count outside the acceptable range (non-ideal colony count).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued

294957090095300 BAYOU SEGNETTE 4.6 MILES SOUTH OF WESTWEGO, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 1991 07...	1030	626	7.38	17.0	60	6.9	5.9	1.6	580	100
APR 29...	1130	721	7.36	25.0	40	7.4	6.9	1.2	K350	600
JUL 24...	1325	403	7.25	33.5	60	9.1	6.8	6.2	K190	K30

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 1991 07...	110	24	12	81	3.5	60	41	130	0.2
APR 29...	110	22	14	96	5.0	47	--	150	0.1
JUL 24...	82	20	7.9	40	2.5	66	17	62	0.1

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
FEB 1991 07...	5.0	356	334	0.32	0.09	0.72	0.81	1.1	0.12
APR 29...	2.5	403	--	0.22	0.05	0.55	0.60	0.82	0.08
JUL 24...	6.3	243	196	0.02	0.01	0.97	0.98	1.0	0.08

K Results based on colony count outside the acceptable range (non-ideal colony count).

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued

294551090061500 KENTA CANAL WEST OF CROWN POINT, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 1991 07...	1225	591	6.93	17.5	70	3.3	3.9	1.5	520	84
APR 29...	1313	660	7.11	23.0	40	22	5.0	1.7	200	K7300
JUL 25...	0830	967	6.77	28.5	70	8.7	3.1	2.2	K16	400

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 1991 07...	97	19	12	80	3.4	62	7.6	140	0.2
APR 29...	110	22	14	78	5.5	47	29	140	0.1
JUL 25...	110	19	15	140	3.8	76	8.4	230	0.2

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
FEB 1991 07...	3.7	341	303	0.02	0.03	0.73	0.76	0.78	0.13
APR 29...	5.8	367	325	0.49	0.11	1.2	1.3	1.8	0.10
JUL 25...	11	555	474	0.03	0.05	1.2	1.2	1.2	0.06

K Results based on colony count outside the acceptable range (non-ideal colony count).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued
 294844090073900 KENTA CANAL NORTHWEST OF CROWN POINT, LA
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 1991										
07...	1010	583	6.79	17.0	80	3.0	3.6	3.4	1000	110
APR										
29...	1112	480	6.96	24.5	50	3.8	3.9	1.4	460	1400
JUL										
24...	1220	520	6.90	31.5	100	2.4	2.3	5.7	84	110

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LILITY WAT WH TOT FET FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 1991									
07...	67	11	9.6	88	3.0	41	--	140	0.2
APR									
29...	79	16	9.6	58	3.1	44	20	100	0.1
JUL									
24...	65	12	8.5	70	1.6	55	<0.2	120	0.1

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
FEB 1991									
07...	2.6	336	284	0.02	0.04	0.96	1.0	1.0	0.08
APR									
29...	2.5	271	236	0.09	0.03	0.57	0.60	0.69	0.10
JUL									
24...	8.6	297	--	<0.02	<0.01	0.99	1.0	--	0.04

< Actual value is known to be less than the value shown.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
 JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued
 294539090084500 BAYOU SEGNETTE NEAR BARATARIA, LA
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

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DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 1991 07...	1100	912	6.82	17.5	100	3.1	5.0	1.7	420	120
APR 29...	1150	714	7.18	25.0	40	7.9	6.3	0.9	K130	480
JUL 24...	1300	369	7.31	34.5	70	14	7.8	7.0	K56	K28

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 1991 07...	100	14	16	140	5.8	43	15	240	0.2
APR 29...	110	21	14	92	4.8	47	--	150	0.1
JUL 24...	68	15	7.4	40	2.6	53	21	60	0.1

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
FEB 1991 07...	1.7	515	460	0.03	0.04	0.92	0.96	0.99	0.05
APR 29...	2.9	413	--	0.24	0.04	1.9	1.9	2.1	0.09
JUL 24...	6.0	220	184	<0.02	0.01	0.86	0.87	--	0.06

< Actual value is known to be less than the value shown.
 K Results based on colony count outside the acceptable range (non-ideal colony count).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS

JEAN LAFITTE NATIONAL HISTORICAL PARK BASIC-DATA STUDY--Continued

294702090064300 BAYOU DES FAMILLES AT CHRISTMAS ROAD NEAR CROWN POINT, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/CM)	PH (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
FEB 1991 07...	1240	339	6.86	17.5	60	3.1	2.5	1.4	380	140
APR 29...	1330	162	6.64	23.0	50	2.9	0.9	2.0	K140	K29000
JUL 25...	0850	366	6.82	28.5	120	3.1	2.3	4.2	K20	92

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT WH TOT FET FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
FEB 1991 07...	77	19	7.1	37	2.1	59	6.4	63	0.2
APR 29...	35	8.9	3.1	15	2.1	29	--	24	0.1
JUL 25...	71	17	7.0	44	1.9	62	0.2	70	0.1

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN DIS- SOLVED (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
FEB 1991 07...	8.4	210	179	0.02	0.04	0.60	0.64	0.66	0.16
APR 29...	3.6	98	--	<0.02	0.08	0.49	0.57	--	0.27
JUL 25...	8.1	224	186	<0.02	<0.01	0.75	0.76	--	0.18

< Actual value is known to be less than the value shown.

K Results based on colony count outside the acceptable range (non-ideal colony count).

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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07381468 BAYOU BOEUF AT US HIGHWAY 190 AT AMELIA, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
FEB 1991				JUL 1991			
01...	0700	8.0	21	01...	0700	28.0	12
08...	0700	9.0	21	08...	0700	28.0	9.7
15...	0700	10.0	22	15...	0800	28.0	9.2
21...	0700	10.5	21	AUG			
27...	0700	10.5	23	01...	0700	28.5	27
MAR				08...	0700	28.5	29
01...	0700	18.0	23	15...	0700	28.5	28
08...	0700	18.0	21	22...	0700	28.0	26
16...	0700	18.0	22	29...	0800	28.5	27
23...	0700	21.0	21	SEP			
APR				01...	0700	28.0	29
01...	0700	18.0	21	08...	0700	27.0	43
08...	0700	17.0	22	15...	0700	27.0	43
15...	0700	20.0	21	22...	0700	27.0	42
JUN				28...	0700	25.0	43
01...	0700	25.0	8.9				
08...	0700	27.0	9.2				
15...	0700	27.0	10				
22...	0700	28.0	11				
30...	0700	28.0	10				

07385800 BAYOU TECHE NEAR FRANKLIN, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990				APR 1991			
02...	1030	27.5	26	02...	0955	19.5	17
16...	1008	23.5	50	09...	0907	22.0	15
23...	0845	20.0	30	15...	0905	24.5	15
30...	1045	29.0	29	23...	0808	23.0	14
NOV				30...	0900	22.0	12
06...	1041	17.5	28	MAY			
13...	1146	17.5	41	07...	0736	24.0	12
21...	0908	18.5	25	14...	0910	24.0	7.9
26...	1132	19.5	26	21...	0806	25.0	14
DEC				28...	0853	26.0	7.2
04...	0840	15.5	20	JUN			
11...	1026	13.0	25	04...	0920	27.0	8.1
18...	1037	16.5	22	12...	0925	25.0	14
27...	1020	12.5	30	18...	1000	26.0	10
JAN 1991				27...	1020	28.0	25
02...	0845	12.5	22	JUL			
08...	1117	12.0	25	02...	0810	29.0	84
15...	1213	14.5	28	09...	1215	27.0	8.0
22...	1010	11.5	14	17...	0850	28.0	22
29...	1003	14.0	10	23...	0935	29.0	24
FEB				30...	0840	30.0	24
05...	0920	16.0	14	AUG			
05...	1107	15.5	14	06...	0755	27.5	24
13...	1417	15.0	14	21...	0830	28.5	41
19...	1005	16.5	18	27...	0915	29.0	37
26...	1344	14.0	9.1	SEP			
MAR				04...	0850	27.5	31
12...	1250	17.0	13	10...	0845	27.5	21
19...	0928	16.5	12	17...	0905	28.0	19
26...	1245	23.5	14	24...	0935	27.0	32

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

07385900 BAYOU TECHE NEAR PATTERSON, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990				APR 1991			
02...	0815	28.0	27	02...	0859	22.0	18
16...	0835	23.0	37	09...	0815	24.0	36
23...	0810	20.5	35	15...	0755	24.5	19
30...	0923	19.0	26	23...	0720	23.5	18
NOV				30...	0740	23.0	16
06...	0948	17.5	28	MAY			
13...	1002	17.5	20	07...	0700	24.0	19
21...	0832	18.0	22	14...	0800	26.0	16
26...	0955	18.5	28	21...	0721	25.0	15
DEC				28...	1023	27.5	15
04...	0805	14.5	24	JUN			
11...	0900	13.5	31	04...	0800	29.0	15
18...	0800	15.0	27	12...	0825	27.5	12
27...	0811	11.0	28	18...	1010	--	14
JAN 1991				27...	0850	29.5	12
02...	0800	14.0	23	JUL			
08...	0857	14.0	25	02...	0725	30.0	14
15...	1300	15.0	23	08...	0930	28.0	21
22...	0843	11.5	37	17...	0745	29.0	29
29...	0838	13.0	29	23...	0710	30.0	28
FEB				30...	0740	30.0	13
05...	0950	15.5	21	AUG			
13...	1452	16.0	21	06...	0740	30.0	26
19...	1147	17.0	20	13...	0700	28.0	32
26...	1520	15.0	19	19...	1040	29.5	41
MAR				27...	0753	28.0	43
12...	1406	18.0	19	SEP			
19...	0820	17.0	20	04...	0700	27.5	37
26...	1415	--	18	10...	0740	28.0	36
				17...	0750	28.0	32
				24...	0820	27.5	35

29382709112200 INTRACOASTAL WATERWAY AT WAX LAKE EAST OF CONTROL STRUCTURE NEAR CALUMET, LA
WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990				APR 1991			
02...	0750	26.5	30	02...	1112	20.0	16
16...	1115	25.0	36	09...	1010	22.0	16
23...	1035	20.0	27	15...	1117	23.0	18
30...	0904	18.0	29	23...	0908	20.5	16
NOV				MAY			
06...	0930	--	27	07...	0900	21.0	12
13...	1250	18.0	24	14...	1030	24.0	11
21...	1002	18.5	51	21...	0938	24.0	13
26...	0925	18.5	25	28...	0740	25.0	15
DEC				JUN			
04...	0943	15.0	30	28...	1130	28.0	44
11...	1125	14.0	33	JUL			
18...	1125	14.0	29	02...	1015	28.0	42
27...	1142	12.5	28	09...	1340	27.0	30
JAN 1991				23...	0935	30.0	26
02...	1012	11.0	30	30...	0950	30.0	26
08...	0848	9.0	13	AUG			
15...	0822	9.0	18	06...	1130	30.0	32
22...	1117	8.5	17	13...	1015	28.0	30
29...	1117	12.5	11	21...	1010	29.0	44
FEB				27...	1035	25.0	37
05...	1017	13.5	18	SEP			
05...	1215	11.0	16	04...	1020	26.5	25
13...	1157	13.5	20	17...	1025	28.5	32
19...	1210	15.0	16	24...	1105	26.5	21
26...	1202	11.0	33				
MAR							
12...	0955	16.0	15				
19...	1058	15.5	14				
26...	0945	20.0	16				

294022091265500 WAX LAKE (WEST) DRAINAGE AREA AT CONTROL STRUCTURE, NEAR PATTERSON, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990				APR 1991			
02...	1000	27.0	27	10...	1447	--	15
16...	1045	23.5	68	15...	0930	21.0	18
23...	0917	20.0	30	23...	0840	20.5	23
30...	1125	19.0	24	30...	0945	20.0	13
NOV				MAY			
06...	1111	18.0	28	07...	0802	21.0	22
13...	1220	17.5	21	14...	0955	23.0	9.6
26...	1200	18.0	25	21...	0830	23.0	12
DEC				28...	0807	25.0	13
04...	0915	14.0	42	JUN			
11...	1050	--	30	04...	1005	26.0	12
18...	1100	13.5	22	12...	1010	26.0	12
27...	1045	12.0	30	18...	1030	25.0	51
JAN 1991				27...	1050	28.0	40
02...	0925	8.0	24	JUL			
08...	1155	7.5	23	02...	0840	28.0	41
15...	1138	9.0	35	09...	1315	27.0	26
22...	1037	7.5	10	17...	0915	29.0	29
29...	1030	9.5	14	23...	0910	30.0	27
FEB				30...	0910	29.0	25
05...	0945	12.5	15	AUG			
05...	1135	9.5	13	06...	1010	30.0	27
13...	1347	12.0	16	13...	0825	28.0	36
19...	0933	12.0	15	21...	0940	29.0	41
26...	1240	11.5	13	27...	0947	28.0	38
MAR				SEP			
12...	1025	15.5	12	04...	0925	27.0	36
19...	1022	14.0	13	10...	0915	28.0	34
26...	1330	19.0	14	17...	0940	28.0	36
APR				24...	1015	27.5	37
02...	1022	18.0	18	30...	1050	25.0	50

29452009125300 BAYOU TECHE AT VERDUNVILLE, LA

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 1990				APR 1991			
02...	0915	27.5	27	02...	0945	18.0	16
16...	0955	23.0	68	09...	0900	23.5	16
23...	0835	19.5	40	15...	0855	24.0	17
30...	1033	18.0	25	23...	0750	23.0	14
NOV				30...	0850	22.0	11
06...	1024	16.5	44	MAY			
13...	1105	17.0	20	07...	0727	23.0	11
21...	0900	16.5	25	14...	0855	25.0	7.2
26...	1116	19.0	25	21...	0800	25.0	8.7
DEC				28...	0902	25.5	6.6
04...	0830	14.5	18	JUN			
11...	0955	12.5	27	04...	0950	27.0	6.4
18...	0830	15.0	20	12...	0910	26.0	12
27...	0926	11.5	30	18...	0945	26.0	8.7
JAN 1991				27...	1005	29.0	25
02...	0838	12.0	17	JUL			
08...	1020	10.0	14	02...	0800	29.0	76
15...	1230	14.0	26	09...	1150	27.0	8.0
22...	0952	11.5	9.4	17...	0815	28.0	22
29...	0952	12.5	8.1	23...	0925	30.0	27
FEB				30...	0825	30.0	20
05...	0910	14.0	10	AUG			
13...	1430	13.5	17	06...	0925	30.0	24
19...	1043	16.0	14	13...	0740	--	21
26...	1451	13.5	9.6	21...	0820	28.0	25
MAR				27...	0900	28.5	35
12...	1338	17.0	12	SEP			
19...	0913	17.0	10	04...	0835	27.0	28
26...	1230	23.0	13	10...	0830	26.5	16
				17...	0850	28.0	25
				24...	0920	27.5	34

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
294150092055000 VERMILION BAY AT REDFISH POINT NEAR HENRY, LA
WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TIME	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
MAR 1991			
05...	0825	15.5	500
13...	0900	17.5	330
21...	0930	19.5	580
28...	0850	22.5	1000

ACADIA PARISH

301832092234501 LOCAL WELL NUMBER: AC-326

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 6 TO 2 IN., DEPTH 202 FT, SCREENED 192-202. MP* TOP OF 6-IN. CASING, 1.15 FT ABOVE LSD.
 LSD 25.8 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 48.61 BELOW LSD, MAR. 14, 1965.
 LOWEST WATER LEVEL 83.93 BELOW LSD, JULY 5, 1969.
 RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	68.22	FEB. 4, 1991	60.22	APR. 3, 1991	64.62	JULY 18, 1991	63.61

301832092234503 LOCAL WELL NUMBER: AC-335L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN EVANGELINE AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,363 FT, SCREENED 1,358-1,363. MP TOP OF 1 1/2-IN. PIPE, 3.00 FT ABOVE LSD.
 LSD 24.55 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 50.43 BELOW LSD, MAR. 31, 1970.
 LOWEST WATER LEVEL 65.33 BELOW LSD, JULY 18, 1981.
 RECORDS AVAILABLE 1966-79, 1981, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	62.04	FEB. 4, 1991	61.01	APR. 3, 1991	62.33	JULY 18, 1991	65.33

301832092234504 LOCAL WELL NUMBER: AC-335U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 8S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 907 FT, SCREENED 902-907. MP TOP OF 1 1/2-IN. PIPE, 3.00 FT ABOVE LSD.
 LSD 24.55 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 43.59 BELOW LSD, MAR. 5, 1968.
 LOWEST WATER LEVEL 62.45 BELOW LSD, AUG. 21, 1974.
 RECORDS AVAILABLE 1966-79, 1981, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	61.96	FEB. 4, 1991	54.57	APR. 3, 1991	52.82	JULY 18, 1991	54.80

ALLEN PARISH

304922092401801 LOCAL WELL NUMBER: AL-138

OWNER: CITY OF OAKDALE. (SEC. 4, T. 3S., R. 3W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN THE EVANGELINE AQUIFER OF MIOCENE AGE, DIAM 10 IN., DEPTH 904 FT, SCREENED 740-760, 812-855, 864-874, AND 884-904. MP EDGE OF VENT PIPE, 1.62 ABOVE LSD.
 LSD 105 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 33.00 BELOW LSD, OCT. 10, 1949.
 LOWEST WATER LEVEL 102.40 BELOW LSD, JULY 17, 1991.
 RECORDS AVAILABLE 1949-51, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	90.31C	APR. 18, 1991	54.02	JULY 17, 1991	102.40C		

303004092541101 LOCAL WELL NUMBER: AL-241

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 29, T. 6S., R. 5W.) BORED OBSERVATION SEMI-ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 62 FT, SCREENED 59-62. MP TOP OF 1 1/4-IN PIPE, 4.00 FT ABOVE LSD.
 LSD 42.97 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 23.84 BELOW LSD, MAR. 21, 1961.
 LOWEST WATER LEVEL 34.26 BELOW LSD, NOV. 8, 1978.
 RECORDS AVAILABLE 1957-79, 1981, 1983, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	33.23	FEB. 1, 1991	29.91	APR. 18, 1991	28.50	JULY 17, 1991	28.91

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

ASCENSION PARISH

301544090543901 LOCAL WELL NUMBER: AN-267

OWNER: CITY OF GONZALES. (SEC. 16, T. 9S., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 10 IN., DEPTH 488 FT, SCREENED 388-488. MP VALVE ON HORIZONTAL PIPE, 3.83 FT ABOVE LSD.
 LSD 7 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 5.60 ABOVE LSD, APR. 6, 1991.
 LOWEST WATER LEVEL 3.30 ABOVE LSD, JULY 11, 1989, SEP. 5, 1989, MAY 7, 1991.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	+3.60	FEB. 21, 1991	+3.60	MAY 7, 1991	+3.30	AUG. 20, 1991	+3.50

AVOYELLES PARISH

310453092022901 LOCAL WELL NUMBER: AV-164

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 47, T. 1N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 192 FT, SCREENED 182-192. MP TOP OF CASING, 3.13 FT ABOVE LSD.
 LSD 80 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 33.78 BELOW LSD, JUNE 30, 1975.
 LOWEST WATER LEVEL 41.69 BELOW LSD, OCT. 3, 1966.
 RECORDS AVAILABLE 1966-79, 1985-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 30, 1991	37.77	APR. 19, 1991	37.28	JULY 24, 1991	36.01		

311336092095901 LOCAL WELL NUMBER: AV-271

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 38, T. 3N., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 370 FT, SCREENED 365-370. MP TOP OF BUSHING, 3.35 FT ABOVE LSD.
 LSD 95 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 55.02 BELOW LSD, JULY 18, 1973.
 LOWEST WATER LEVEL 67.49 BELOW LSD, MAR. 4, 1981.
 RECORDS AVAILABLE 1966-84, 1986-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	62.85	JAN. 4, 1991	63.29	APR. 25, 1991	61.25	JULY 19, 1991	60.40

311708092073701 LOCAL WELL NUMBER: AV-329

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 38, T. 4N., R. 3E.) BORED OBSERVATION SEMI-ARTESIAN WELL IN THE RED RIVER ALLUVIAL AQUIFER OF THE PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 45 FT, SCREENED 42-45. MP TOP OF CASING, AT LSD.
 LSD 45.6 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 0.10 ABOVE LSD, MAR. 15, 1973.
 LOWEST WATER LEVEL 13.00 BELOW LSD, OCT. 27, 1983.
 RECORDS AVAILABLE 1968-76, 1980-85, 1987-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	10.81	JAN. 4, 1991	7.21	APR. 25, 1991	4.47	JULY 19, 1991	5.25

BEAUREGARD PARISH

303644093020401 LOCAL WELL NUMBER: BE-430

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 24, T. 5S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 123 FT, SCREENED 118-123. MP TOP OF 2-IN. GALV. PIPE, 3.00 FT ABOVE LSD.
 LSD 120 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 58.61 BELOW LSD, JULY 17, 1991.
 LOWEST WATER LEVEL 61.40 BELOW LSD, MAR. 7, 1979.
 RECORDS AVAILABLE 1974-79, 1981, 1983, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	59.44	FEB. 4, 1991	58.91	APR. 18, 1991	59.17	JULY 17, 1991	58.61

SEE FOOTNOTES AT END OF TABLE.

BEAUREGARD PARISH--Continued

305018093251301 LOCAL WELL NUMBER: BE-443

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 3S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 164 FT, SCREENED 159-164. MP TOP OF 2-IN. GALV. PIPE, 2.40 FT ABOVE LSD.
LSD 206 FT ABOVE NGVD.

HIGHEST WATER LEVEL 34.16 BELOW LSD, JUNE 26, 1975.

LOWEST WATER LEVEL 37.47 BELOW LSD, NOV. 7, 1978.

RECORDS AVAILABLE 1974-79, 1981, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	37.43	JAN. 3, 1991	37.18	APR. 23, 1991	34.98	JULY 18, 1991	34.86

BIENVILLE PARISH

323505092535001 LOCAL WELL NUMBER: BI-144

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 18N., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 630 FT, SCREENED 620-630. MP TOP OF CASING, 2.85 FT ABOVE LSD.

LSD 320 FT ABOVE NGVD.

HIGHEST WATER LEVEL 198.27 BELOW LSD, SEP. 1, 1970.

LOWEST WATER LEVEL 233.54 BELOW LSD, OCT. 3, 1990.

RECORDS AVAILABLE 1970-73, 1975, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	233.54	JAN. 2, 1991	229.99	APR. 18, 1991	228.37	JULY 17, 1991	230.06

322436092500501 LOCAL WELL NUMBER: BI-166

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 1, T. 16N., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 472 FT, SCREENED 462-472. MP TOP OF BUSHING, 0.20 FT ABOVE LSD.

LSD 260 FT ABOVE NGVD.

HIGHEST WATER LEVEL 155.21 BELOW LSD, APR. 28, 1975.

LOWEST WATER LEVEL 175.29 BELOW LSD, JAN. 4, 1991.

RECORDS AVAILABLE 1975-82, 1984-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 4, 1991	175.29	FEB. 27, 1991	174.78	APR. 18, 1991	174.62	JULY 22, 1991	175.26

BOSSIER PARISH

323400093292201 LOCAL WELL NUMBER: BO-322

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 10, T. 18N., R. 11W.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 66 FT, SCREENED 63-66. MP TOP OF CASING, 2.5 ABOVE LSD.

LSD 200 FT ABOVE NGVD.

HIGHEST WATER LEVEL 6.49 BELOW LSD, DEC. 13, 1983.

LOWEST WATER LEVEL 17.53 BELOW LSD, NOV. 2, 1988.

RECORDS AVAILABLE 1973, 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1990	16.06	JAN. 3, 1991	14.94	APR. 18, 1991	11.89	JULY 17, 1991	13.07

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

CALCASIEU PARISH

301115093191501 LOCAL WELL NUMBER: CU-445

OWNER: CITIES SERVICE OIL CO. (SEC. 18, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN., DEPTH 540 FT, SCREENED 460-540. MP TOP OF RECORDER SHELTER FLOOR, 2.00 FT ABOVE LSD.
 LSD 12.26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 30.96 BELOW LSD, APR. 20, 1947.
 LOWEST WATER LEVEL 177.75 BELOW LSD, AUG. 23, 1973.
 RECORDS AVAILABLE 1945-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1990	118.62J	JAN. 5, 1991	108.03	MAR. 31, 1991	103.32	JULY 5, 1991	109.91
OCT. 5	116.87	JAN. 10	107.00	APR. 5	105.74	JULY 10	109.76
OCT. 10	115.69	JAN. 15	107.87	APR. 10	105.74	JULY 15	110.17
OCT. 15	115.65	JAN. 20	107.17	APR. 15	106.74	JULY 17	110.36H
OCT. 20	113.46	JAN. 25	106.34	APR. 20	106.73	JULY 20	111.16
OCT. 25	111.81	JAN. 31	106.02	APR. 25	104.77	JULY 25	108.62
OCT. 31	113.60	FEB. 5	106.23	APR. 30	105.30	JULY 31	105.78
NOV. 5	113.25	FEB. 8	105.97H	MAY 5	107.12	AUG. 5	107.47
NOV. 10	112.20	FEB. 10	106.09	MAY 10	107.19	AUG. 10	109.37
NOV. 15	111.77	FEB. 15	106.39	MAY 15	107.59	AUG. 15	111.19
NOV. 20	112.21	FEB. 20	105.63	MAY 20	106.69	AUG. 20	109.73
NOV. 25	111.26	FEB. 25	105.86	MAY 25	107.54	AUG. 25	109.43
NOV. 30	111.61	FEB. 28	106.40	MAY 31	109.48	AUG. 31	109.19
DEC. 5	111.42	MAR. 5	104.98	JUNE 3	109.80H	SEP. 5	109.50
DEC. 10	111.18	MAR. 10	105.29	JUNE 5	110.34	SEP. 10	109.70
DEC. 15	111.77	MAR. 15	103.88	JUNE 10	109.33	SEP. 15	108.32
DEC. 19	110.95H	MAR. 16	102.91J	JUNE 15	108.52	SEP. 20	107.88
DEC. 20	110.98	MAR. 20	104.76	JUNE 20	108.65	SEP. 25	107.32
DEC. 25	116.20	MAR. 25	105.60	JUNE 25	108.44	SEP. 30	108.88
DEC. 31	110.52	MAR. 28	105.87H	JUNE 30	110.41		

301115093191001 LOCAL WELL NUMBER: CU-446

OWNER: CITIES SERVICE OIL CO. (SEC. 18, T. 10S., R. 9W.) DRILLED UNUSED ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN., REPORTED DEPTH 738 FT, SCREENED 658-738. MP TOP OF RECORDER SHELTER FLOOR, 1.89 FT ABOVE LSD.
 LSD 12.42 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 22.80 BELOW LSD, APR. 27, 1946.
 LOWEST WATER LEVEL 129.80 BELOW LSD, AUG. 5, 1974.
 RECORDS AVAILABLE 1945-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	91.73	FEB. 8, 1991	86.13	APR. 3, 1991	83.81	JULY 17, 1991	87.41

301036093124401 LOCAL WELL NUMBER: CU-767

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 20, T. 10S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "700-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 850 FT, SCREENED 840-850. MP TOP OF 2-IN. CASING, 2.00 FT ABOVE LSD.
 LSD 11.42 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 63.26 BELOW LSD, MAR. 29, 1963.
 LOWEST WATER LEVEL 105.98 BELOW LSD, SEP. 30, 1974.
 RECORDS AVAILABLE 1963-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 23, 1991	71.11						

301336093183002 LOCAL WELL NUMBER: CU-771

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 241 FT, SCREENED 231-241. MP TOP OF 2-IN. CASING, 2.0 FT ABOVE LSD.
 LSD 17.76 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 54.97 BELOW LSD, MAR. 28, 1963.
 LOWEST WATER LEVEL 83.83 BELOW LSD, JULY 21, 1971.
 RECORDS AVAILABLE 1963-79, 1981-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 24, 1991	59.10						

SEE FOOTNOTES AT END OF TABLE.

CALCASIEU PARISH--Continued

300353093210201 LOCAL WELL NUMBER: CU-787

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 11S., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 734 FT, SCREENED 729-734. MP TOP OF 2-IN. CASING, 2.85 FT ABOVE LSD.
 LSD 4.33 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 46.98 BELOW LSD, APR. 13, 1965.
 LOWEST WATER LEVEL 78.58 BELOW LSD, AUG. 2, 1972.
 RECORDS AVAILABLE 1964-79, 1981-83, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 24, 1991	52.78						

301148093193202 LOCAL WELL NUMBER: CU-843

OWNER: LOUISIANA DEPT. OF TRANSPORTATION AND DEVELOPMENT. (SEC. 18, T. 10S., R. 9W.) DRILLED OBSERVATION ARTESIAN WELL IN "200-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 205 FT, SCREENED 200-205. MP TOP OF CASING, 0.87 FT BELOW LSD.
 LSD 12 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 51.46 BELOW LSD, MAR. 28, 1989.
 LOWEST WATER LEVEL 73.05 BELOW LSD, SEP. 10, 1974.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	54.64	FEB. 8, 1991	53.00	APR. 3, 1991	52.44	JULY 17, 1991	51.92

CALDWELL PARISH

320555092043501 LOCAL WELL NUMBER: CA-130

OWNER: TOWN OF COLOMBIA. (SEC. 20, T. 13N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN COCKFIELD AQUIFER OF EOCENE AGE, DIAM 4 IN., DEPTH 260 FT, SCREENED 240-260. MP TOP OF CASING, 3.0 FT ABOVE LSD.
 LSD 90.00 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 17.97 BELOW LSD, JUNE 21, 1990.
 LOWEST WATER LEVEL 26.47 BELOW LSD, JAN. 12, 1990.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1990	26.05	JAN. 3, 1991	24.05	APR. 23, 1991	18.10	JULY 19, 1991	21.99

CAMERON PARISH

295846092381104 LOCAL WELL NUMBER: CN-80U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 24, T. 12S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 453 FT, SCREENED 443-453. MP TOP OF 2 IN. CASING, 1.65 FT ABOVE LSD.
 LSD 4.73 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 19.42 BELOW LSD, MAR. 22, 1965.
 LOWEST WATER LEVEL 30.80 BELOW LSD, JUNE 20, 1978.
 RECORDS AVAILABLE 1964-75, 1977-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 29, 1991	25.25						

300125092382504 LOCAL WELL NUMBER: CN-81L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 11, T. 12S., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN., DEPTH 478 FT, SCREENED 468-478. MP TOP OF 1-IN. PIPE, 3.18 FT ABOVE LSD.
 LSD 4.45 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 20.99 BELOW LSD, MAR. 22, 1965.
 LOWEST WATER LEVEL 32.41 BELOW LSD, JULY 11, 1990.
 RECORDS AVAILABLE 1964-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 22, 1990	29.72	FEB. 4, 1991	26.25	APR. 18, 1991	29.66	JULY 18, 1991	26.61

SEE FOOTNOTES AT END OF TABLE.

CAMERON PARISH--Continued

300120093320802 LOCAL WELL NUMBER: CN-86L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 13, T. 12S., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN., DEPTH 641 FT, SCREENED 631-641. MP TOP OF 1-IN. CASING, 2.10 FT ABOVE LSD.
 LSD 3.66 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 32.16 BELOW LSD, APR. 12, 1965.
 LOWEST WATER LEVEL 51.34 BELOW LSD, SEP. 19, 1971.
 RECORDS AVAILABLE 1964-83, 1985, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 24, 1991	38.70						

300055093093004 LOCAL WELL NUMBER: CN-88L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 14, T. 12S., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN "500-FT" SAND OF CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 1/2 IN., DEPTH 804 FT, SCREENED 794-804. MP TOP OF 1 1/2-IN. PIPE, 2.62 FT ABOVE LSD.
 LSD 8.86 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.27 BELOW LSD, APR. 13, 1965.
 LOWEST WATER LEVEL 66.95 BELOW LSD, JULY 21, 1978.
 RECORDS AVAILABLE 1964-79, 1981-83, 1985-86, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 23, 1991	45.51						

295611093044801 LOCAL WELL NUMBER: CN-90

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 13S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 396 FT, SCREENED 386-396. MP TOP OF 4-IN. CASING, 1.71 FT ABOVE LSD.
 LSD 3.19 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 20.40 BELOW LSD, MAR. 24, 1964.
 LOWEST WATER LEVEL 36.85 BELOW LSD, AUG. 14, 1973.
 RECORDS AVAILABLE 1964, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 28, 1989	25.14	NOV. 20, 1990	28.07	APR. 23, 1991	24.70		

300104093015601 LOCAL WELL NUMBER: CN-92

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 12, T. 12S., R. 7W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 443 FT, SCREENED 438-443. MP TOP OF 2-IN. CASING, 2.00 FT ABOVE LSD.
 LSD 5.5 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 26.02 BELOW LSD, APR. 13, 1965.
 LOWEST WATER LEVEL 53.96 BELOW LSD, AUG. 14, 1973.
 RECORDS AVAILABLE 1964-85, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 26, 1990	30.93	NOV. 19, 1990	35.00	APR. 23, 1991	31.39		

CATAHOULA PARISH

315007091410601 LOCAL WELL NUMBER: CT-347

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 42, T. 10N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 76 FT, SCREENED 73-76. MP TOP OF CASING, 3.50 FT ABOVE LSD.
 LSD 70.00 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 25.40 BELOW LSD, APR. 25, 1990.
 LOWEST WATER LEVEL 26.77 BELOW LSD, JAN. 4, 1991.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1990	26.46	JAN. 4, 1991	26.77	APR. 23, 1991	26.13	JULY 16, 1991	26.18

SEE FOOTNOTES AT END OF TABLE.

CLAIBORNE PARISH

330002092445901 LOCAL WELL NUMBER: CL-149

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 11, T. 23N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 736 FT, SCREENED 726-736. MP TOP OF BUSHING, 3.50 FT ABOVE LSD.
 LSD 230 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 264.01 BELOW LSD, FEB. 21, 1980.
 LOWEST WATER LEVEL 282.82 BELOW LSD, OCT. 1, 1991.
 RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 28, 1991	281.53	APR. 22, 1991	280.62	AUG. 15, 1991	282.75		

CONCORDIA PARISH

312614091400001 LOCAL WELL NUMBER: CO-205

OWNER: ANGELINA PLANTATION. (SEC. 4, T. 5N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 130 FT, SCREENED 110-130. MP TOP OF CASING, 1.10 FT ABOVE LSD.
 LSD 45.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 9.05 BELOW LSD, MAR. 14, 1990.
 LOWEST WATER LEVEL 15.99 BELOW LSD, SEP. 26, 1991.
 RECORDS AVAILABLE 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1991	9.83	SEP. 5, 1991	12.16				

312630091390001 LOCAL WELL NUMBER: CO-215

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 3, T. 5N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 121 FT, SCREENED 118-121. MP TOP OF CASING, 3.4 FT ABOVE LSD.
 LSD 45.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.42 BELOW LSD, APR. 23, 1991.
 LOWEST WATER LEVEL 14.25 BELOW LSD, SEP. 26, 1990.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	14.11	MAR. 6, 1991	8.00	JULY 16, 1991	11.02	SEP. 5, 1991	11.19
JAN. 4, 1991	12.21	APR. 23	6.42				

DE SOTO PARISH

315521093343801 LOCAL WELL NUMBER: DS-445

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 22, T. 11N., R. 12W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 2 IN., DEPTH 140 FT, SCREENED 130-140. MP TOP OF CASING, 3.60 FT ABOVE LSD.
 LSD 305 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 78.11 BELOW LSD, APR. 19, 1991.
 LOWEST WATER LEVEL 84.18 BELOW LSD, DEC. 10, 1985.
 RECORDS AVAILABLE 1977-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	79.38	JAN. 2, 1991	79.36	APR. 19, 1991	78.11	JULY 17, 1991	78.78

320153093583601 LOCAL WELL NUMBER: DS-517

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 14, T. 12N., R. 16W.) BORED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 2 IN., DEPTH 131 FT, SCREENED 129-131. MP TOP OF BUSHING, AT LSD.
 LSD 225 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 14.26 BELOW LSD, JULY 17, 1991.
 LOWEST WATER LEVEL 17.64 BELOW LSD, SEP. 24, 1984.
 RECORDS AVAILABLE 1982-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	15.14	JAN. 2, 1991	14.60	APR. 19, 1991	14.55	JULY 17, 1991	14.26

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

EAST BATON ROUGE PARISH

302745091092401 LOCAL WELL NUMBER: EB-90

OWNER: BATON ROUGE WATER COMPANY. (SEC. 77, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 8 TO 6 TO 4 IN., REPORTED DEPTH 2,120 FT, SCREENED 2.025-2.120. MP TOP OF COLLAR, 1.90 FT ABOVE LSD.
 LSD 59.05 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 12.70 ABOVE LSD, FEB. 23, 1943.
 LOWEST WATER LEVEL 292.54 BELOW LSD, AUG. 31, 1973.
 RECORDS AVAILABLE 1943-45, 1947-55, 1958-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	239.61	JAN. 24, 1991	240.22	APR. 17, 1991	231.25	JULY 15, 1991	237.71

302648091102301 LOCAL WELL NUMBER: EB-128

OWNER: DIVINCENTI BROS., INC. (SEC. 74, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("800-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 6 TO 4 IN., DEPTH 970 FT, SCREENED 840-883 AND 916-970. MP TOP OF 6-IN. CASING, AT LSD.
 LSD 57.02 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 60.40 BELOW LSD, JULY 12, 1989.
 LOWEST WATER LEVEL 128.42 BELOW LSD, SEP. 9, 1956.
 RECORDS AVAILABLE 1940-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	67.07	JAN. 24, 1991	63.51	APR. 17, 1991	61.21	JULY 15, 1991	63.05

302653091095701 LOCAL WELL NUMBER: EB-146

OWNER: EAST BATON ROUGE CITY-PARISH. (SEC. 73, T. 7S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 6 TO 4 IN., REPORTED DEPTH 1,259 FT, SCREENED 1,199-1,259. MP EDGE OF 1/4-IN. HOLE IN PLATE ATOP CASING, 0.45 FT BELOW LSD.
 LSD 52 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 33.00 ABOVE LSD, MAR. 25, 1916.
 LOWEST WATER LEVEL 118.15 BELOW LSD, JULY 12, 1979.
 RECORDS AVAILABLE 1916, 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	105.76	JAN. 24, 1991	100.30	APR. 17, 1991	102.49	JULY 15, 1991	102.90

302930091101501 LOCAL WELL NUMBER: EB-155

OWNER: EXXON CO., U.S.A. (SEC. 43, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 18 TO 12 IN., REPORTED DEPTH 412 FT, SCREENED 311-412. MP TOP OF CASING COVER, 0.85 FT ABOVE LSD.
 LSD 60.14 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 57.81 BELOW LSD, MAR. 25, 1990, MAR. 25, 1991, MAY 10, 1991, MAY 15, 1991, MAY 30, 1991.
 LOWEST WATER LEVEL 185.30 BELOW LSD, OCT. 15, 1968.
 RECORDS AVAILABLE 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	63.45	DEC. 20, 1990	85.05	APR. 30, 1991	61.43	JULY 15, 1991	68.03
OCT. 10	63.42	DEC. 22	85.94J	MAY 5	58.39	JULY 20	68.37
OCT. 15	63.03	DEC. 25	85.10	MAY 10	57.81J	JULY 25	66.54
OCT. 18	62.78H	JAN. 28, 1991	64.15H	MAY 15	57.81	JULY 31	63.66
OCT. 20	63.73	JAN. 30	63.13	MAY 20	60.47	AUG. 5	65.61
OCT. 25	63.07	FEB. 15	62.13	MAY 25	57.82	AUG. 10	68.48
OCT. 31	67.91	MAR. 10	62.06	MAY 30	57.81	AUG. 15	69.43
NOV. 5	69.56	MAR. 15	60.76	JUNE 5	59.17	AUG. 20	69.71
NOV. 10	71.50	MAR. 20	62.78	JUNE 10	60.92	AUG. 25	69.51
NOV. 15	73.26	MAR. 25	62.26	JUNE 15	61.86	AUG. 31	70.92
NOV. 20	75.81	MAR. 31	60.48	JUNE 20	64.57	SEP. 5	69.46
NOV. 25	75.01	APR. 5	58.88H	JUNE 25	66.56	SEP. 10	67.22
NOV. 30	79.28	APR. 10	60.58	JUNE 30	66.52	SEP. 15	67.79
DEC. 5	80.95	APR. 15	60.62	JULY 5	64.40	SEP. 20	67.51
DEC. 10	81.33	APR. 20	61.13	JULY 10	64.92	SEP. 25	66.57
DEC. 12	81.57H	APR. 25	61.85	JULY 12	65.32H	SEP. 30	66.56
DEC. 15	82.13						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

303001091093801 LOCAL WELL NUMBER: EB-168

OWNER: BATON ROUGE WATER COMPANY. (SEC. 38, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 8 TO 6 IN., REPORTED DEPTH 1,496 FT, SCREENED 1,416-1,496. MP TOP EDGE OF 1 1/2-IN. COLLAR ON PLATE ATOP CASING, 1.95 FT ABOVE LSD. LSD 56 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 14.00 ABOVE LSD, MAR. 1, 1943,
 LOWEST WATER LEVEL 147.27 BELOW LSD, MAY 14, 1979.
 RECORDS AVAILABLE 1943, 1948, 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	146.50	JAN. 24, 1991	145.73	APR. 5, 1991	145.89	JULY 12, 1991	145.69

303026091113001 LOCAL WELL NUMBER: EB-297

OWNER: LOUISIANA OFFICE OF HIGHWAYS. (SEC. 37, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., DEPTH 1,940 FT, SCREENED 1,890-1,940. MP TOP OF 4-IN. NIPPLE ATOP 4-IN. CROSS, 2.20 FT ABOVE LSD. LSD 61 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 200.22 BELOW LSD, NOV. 7, 1967,
 LOWEST WATER LEVEL 336.23 BELOW LSD, AUG. 31, 1973.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	268.14	JAN. 24, 1991	274.41	APR. 17, 1991	267.89	JULY 24, 1991	275.98

303440090592702 LOCAL WELL NUMBER: EB-304

OWNER: GREENWELL SPRINGS HOSPITAL. (SEC. 49, T. 5S., R. 2E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 IN., DEPTH 1,725 FT, SCREENED 1,685-1,725. MP TOP OF 2-IN. COUPLING WELDED ON TOP OF CASING, 2.40 FT ABOVE LSD. LSD 67 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 81.00 ABOVE LSD, DEC. 19, 1941,
 LOWEST WATER LEVEL 64.85 BELOW LSD, NOV. 6, 1979.
 RECORDS AVAILABLE 1941, 1943-46, 1949-51, 1954-70, 1976-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	59.90	JAN. 18, 1991	59.45	APR. 4, 1991	59.04	JULY 11, 1991	57.46

303441091074201 LOCAL WELL NUMBER: EB-322

OWNER: JOSEPH ROY BADEAUX. (SEC. 29, T. 5S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 TO 2 IN., DEPTH 1,971 FT, SCREENED 1,931-1,971. MP TOP EDGE OF 2 1/2-IN. CASING, 0.25 FT ABOVE LSD. LSD 68 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 67.00 ABOVE LSD, DEC. 6, 1942,
 LOWEST WATER LEVEL 80.34 BELOW LSD, OCT. 31, 1980.
 RECORDS AVAILABLE 1942-51, 1959, 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	75.38	JAN. 18, 1991	73.23	APR. 5, 1991	73.57	JULY 12, 1991	72.92

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302930091111301 LOCAL WELL NUMBER: EB-367

OWNER: GULF STATES UTILITIES CO. (SEC. 43, T. 6S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 TO 8 IN., REPORTED DEPTH 2,061 FT, SCREENED 1,961-2,061. MP ARROW ON PLATE ABOVE CASING, 0.40 FT ABOVE LSD.

LSD 64.4 FT ABOVE NGVD.

HIGHEST WATER LEVEL 5.00 BELOW LSD, JUNE 16, 1942.

LOWEST WATER LEVEL 372.20 BELOW LSD, AUG. 17, 1973.

RECORDS AVAILABLE 1942, 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	300.32	JAN. 5, 1991	298.76	APR. 8, 1991	298.74H	JULY 5, 1991	299.91
OCT. 10	301.27	JAN. 10	302.42	APR. 10	297.66	JULY 10	301.58
OCT. 15	299.46	JAN. 15	304.78	APR. 15	296.83	JULY 12	305.48H
OCT. 18	299.96H	JAN. 20	302.44	APR. 20	297.65	JULY 15	302.80
OCT. 20	298.27	JAN. 25	306.29	APR. 25	295.45	JULY 20	306.22
OCT. 25	301.36	JAN. 28	307.39H	APR. 30	294.76	JULY 25	308.31
OCT. 31	299.41	JAN. 31	311.68	MAY 5	296.54	JULY 31	308.84
NOV. 5	301.13	FEB. 5	311.01	MAY 10	295.70	AUG. 5	311.39
NOV. 10	298.95	FEB. 10	308.34	MAY 11	291.88J	AUG. 10	311.38
NOV. 15	296.07	FEB. 15	310.07	MAY 15	294.56	AUG. 15	312.97
NOV. 20	298.96	FEB. 19	314.15J	MAY 20	295.18	AUG. 20	312.18
NOV. 25	300.17	FEB. 20	313.80	MAY 25	294.69	AUG. 25	311.39
NOV. 30	303.45	FEB. 25	312.36	MAY 31	294.96	AUG. 31	306.79
DEC. 5	304.30	FEB. 28	312.39	JUNE 5	293.86	SEP. 5	309.52
DEC. 10	300.26	MAR. 15	312.80	JUNE 10	293.89	SEP. 10	310.89
DEC. 13	301.33H	MAR. 20	309.89	JUNE 15	294.85	SEP. 15	312.13
DEC. 15	301.38	MAR. 25	305.64	JUNE 20	293.85	SEP. 20	306.41
DEC. 20	304.54	MAR. 31	307.62	JUNE 25	297.69	SEP. 25	306.50
DEC. 25	304.46	APR. 5	300.39	JUNE 30	299.14	SEP. 30	305.32
DEC. 31	300.42						

303408091075001 LOCAL WELL NUMBER: EB-468

OWNER: A.M. HOLDEN. (SEC. 53, T. 5S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,407 FT, SCREENED 2,319-2,407. MP TOP EDGE OF 3/4-IN. HOLE IN SANITARY SEAL, 0.43 FT ABOVE LSD.

LSD 73 FT ABOVE NGVD.

HIGHEST WATER LEVEL 71.60 ABOVE LSD, FEB. 27, 1948.

LOWEST WATER LEVEL 67.00 BELOW LSD, OCT. 31, 1980.

RECORDS AVAILABLE 1948-51, 1953-67, 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	65.67	JAN. 18, 1991	63.85	APR. 5, 1991	62.79	JULY 12, 1991	62.66

303440090592703 LOCAL WELL NUMBER: EB-581

OWNER: GREENWELL SPRINGS HOSPITAL. (SEC. 49, T. 5S., R. 2E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 8 TO 6 IN., DEPTH 2,590 FT, SCREENED 2,540-2,590. MP TOP OF 1-IN. PIPE ON SIDE OF 8-IN. CASING, 1.90 FT ABOVE LSD.

LSD 67 FT ABOVE NGVD.

HIGHEST WATER LEVEL 54.40 ABOVE LSD, MAY 25, 1956.

LOWEST WATER LEVEL 45.79 BELOW LSD, JAN. 27, 1981.

RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	43.29	JAN. 18, 1991	42.48	APR. 4, 1991	41.72	JULY 11, 1991	40.71

303154091083901 LOCAL WELL NUMBER: EB-652

OWNER: GREATER BATON ROUGE AIRPORT DISTRICT. (SEC. 90, T. 6S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,345 FT, SCREENED 1,264-1,345. MP TOP OF 4-IN PIPE, 1.18 FT ABOVE LSD. MEASUREMENTS DISCONTINUED AFTER JAN. 18, 1991. WELL PLUGGED MAY 5, 1991. REPLACED BY EB-168.

LSD 68 FT ABOVE NGVD.

HIGHEST WATER LEVEL 45.42 BELOW LSD, APR. 29, 1958.

LOWEST WATER LEVEL 140.48 BELOW LSD, SEP. 28, 1990.

RECORDS AVAILABLE 1958-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	139.83	JAN. 18, 1991	140.02				

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

303350091100901 LOCAL WELL NUMBER: EB-685

OWNER: BATON ROUGE RECREATION AND PARK COMMISSION. (SEC. 53, T. 5S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 TO 3 IN., DEPTH 1,640 FT, SCREENED 1,580-1,640. MP HOLE IN CENTER OF 6-IN. PLUG ATOP CASING, 1.73 FT ABOVE LSD.
 LSD 65 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 48.95 BELOW LSD, APR. 30, 1959.
 LOWEST WATER LEVEL 184.37 BELOW LSD, NOV. 15, 1972.
 RECORDS AVAILABLE 1959-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	160.49	JAN. 18, 1991	160.18	APR. 5, 1991	161.36	JULY 12, 1991	159.61

302509091082701 LOCAL WELL NUMBER: EB-778

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,586 FT, SCREENED 2,581-2,586. MP TOP OF CASING, 0.25 FT BELOW LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.10 ABOVE LSD, MAR. 16, 1965.
 LOWEST WATER LEVEL 2.51 BELOW LSD, OCT. 25, 1982.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	.95	JAN. 24, 1991	+1.62	APR. 17, 1991	+.40	JULY 15, 1991	+1.34

302535091090401 LOCAL WELL NUMBER: EB-781

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,286 FT, SCREENED 2,282-2,286. MP TOP EDGE OF 2-IN. STEEL AIR LINE, 2.82 FT ABOVE LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 119.12 BELOW LSD, MAR. 15, 1966.
 LOWEST WATER LEVEL 241.60 BELOW LSD, AUG. 14, 1973.
 RECORDS AVAILABLE 1965-88, 1990.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1990	200.09						

302535091090402 LOCAL WELL NUMBER: EB-782A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 94, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,189 FT, SCREENED 1,184-1,189. MP TOP OF 2-IN. CASING, 1.94 FT ABOVE LSD.
 LSD 28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 18.54 BELOW LSD, MAY 19, 1975.
 LOWEST WATER LEVEL 26.75 BELOW LSD, OCT. 22, 1981.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	22.93	JAN. 24, 1991	21.24	APR. 17, 1991	20.45	JULY 15, 1991	20.31

302502091113601 LOCAL WELL NUMBER: EB-783A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 54, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 2,179 FT, SCREENED 2,174-2,179. MP TOP EDGE OF 1/2-IN. HOLE IN SANITARY SEAL, 2.02 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 16.20 ABOVE LSD, MAR. 1, 1966.
 LOWEST WATER LEVEL 62.58 BELOW LSD, OCT. 18, 1984.
 RECORDS AVAILABLE 1965-88, 1990.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 16, 1990	56.59						

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302511091070401 LOCAL WELL NUMBER: EB-789A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 93, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 711 FT, SCREENED 707-711. MP HOLE IN SANITARY SEAL, 0.61 FT ABOVE LSD.
 LSD 37 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 9.50 BELOW LSD, MAY 17, 1979.
 LOWEST WATER LEVEL 33.40 BELOW LSD, OCT. 12, 1988.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	28.27	JAN. 24, 1991	13.64	MAY 1, 1991	12.34	JULY 15, 1991	20.44

302428091035001 LOCAL WELL NUMBER: EB-804A

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,950 FT, SCREENED 1,946-1,950. MP TOP OF 4-IN. CASING, 1.57 FT ABOVE LSD.
 LSD 46 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 44.34 BELOW LSD, JUNE 9, 1967.
 LOWEST WATER LEVEL 104.45 BELOW LSD, SEP. 24, 1990.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	104.42	JAN. 24, 1991	103.20	MAY 1, 1991	102.64	JULY 12, 1991	103.41

302428091035002 LOCAL WELL NUMBER: EB-804B

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,762 FT, SCREENED 2,758-2,762. MP TOP OF 2-IN. LINER, 2.37 FT ABOVE LSD.
 LSD 46 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 32.45 BELOW LSD, MAY 6, 1966, MAY 18, 1966.
 LOWEST WATER LEVEL 103.10 BELOW LSD, NOV. 10, 1980.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	97.75	JAN. 24, 1991	90.43	MAY 1, 1991	90.08	JULY 12, 1991	89.43

302428091035003 LOCAL WELL NUMBER: EB-805

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 70, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,000-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,072 FT, SCREENED 1,068-1,072. MP TOP OF 1/2-IN. HOLE IN CAP, 1.25 FT ABOVE LSD.
 LSD 46 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.04 BELOW LSD, JUNE 9, 1967.
 LOWEST WATER LEVEL 65.86 BELOW LSD, OCT. 19, 1987.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	64.19	JAN. 24, 1991	62.73	MAY 1, 1991	61.47	JULY 12, 1991	61.69

302702091103902 LOCAL WELL NUMBER: EB-806B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 72, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,579 FT, SCREENED 2,575-2,579. MP TOP EDGE OF 1 1/2-IN. NIPPLE, 1.83 FT ABOVE LSD.
 LSD 46.5 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 119.03 BELOW LSD, MAY 19, 1966.
 LOWEST WATER LEVEL 204.05 BELOW LSD, JULY 12, 1979.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	179.07	JAN. 24, 1991	176.25	APR. 17, 1991	169.98	JULY 15, 1991	175.71

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302553091092001 LOCAL WELL NUMBER: EB-824

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 96, T. 7S., R. 1E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 581 FT, SCREENED 575-581. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 33.56 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 28.84 BELOW LSD, JULY 10, 1990.
 LOWEST WATER LEVEL 90.29 BELOW LSD, OCT. 23, 1968.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	36.27	JAN. 24, 1991	32.77	APR. 17, 1991	30.56	JULY 15, 1991	31.78

303356091095301 LOCAL WELL NUMBER: EB-827

OWNER: LOUISIANA WATER RESOURCES RESEARCH INSTITUTE. (SEC. 54, T. 5S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 370 FT, SCREENED 364-370. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 63.96 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.50 BELOW LSD, MAY 15, 1990.
 LOWEST WATER LEVEL 68.13 BELOW LSD, NOV. 1, 1968.
 RECORDS AVAILABLE 1967-88, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	47.72	JAN. 18, 1991	39.06	APR. 5, 1991	37.68	JULY 12, 1991	39.96

303912091150801 LOCAL WELL NUMBER: EB-849

OWNER: GEORGIA-PACIFIC CORP. (SEC. 31, T. 4S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 6 IN., DEPTH 1,380 FT, SCREENED 1,250-1,270 AND 1,350-1,380. MP TOP OF CASING, 1.70 FT ABOVE LSD.
 LSD 91 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 47.79 BELOW LSD, FEB. 22, 1966.
 LOWEST WATER LEVEL 142.28 BELOW LSD, OCT. 31, 1990.
 RECORDS AVAILABLE 1966, 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	142.28	JAN. 18, 1991	139.97	APR. 4, 1991	135.20	JULY 11, 1991	140.27

302729091100601 LOCAL WELL NUMBER: EB-870

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 44, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 692 FT, SCREENED 687-692. MP TOP OF CASING, AT LSD.
 LSD 50 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 48.33 BELOW LSD, JULY 10, 1990.
 LOWEST WATER LEVEL 142.48 BELOW LSD, OCT. 5, 1971.
 RECORDS AVAILABLE 1971-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 12, 1990	56.14	JAN. 24, 1991	53.77	APR. 17, 1991	51.42	JULY 15, 1991	51.90

303905090583301 LOCAL WELL NUMBER: EB-896

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 51, T. 4S., R. 2E.) BORED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 73 FT, SCREENED 70-73. MP TOP OF 1 1/4-IN. CASING, AT LSD.
 LSD 82 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 14.51 BELOW LSD, APR. 16, 1990.
 LOWEST WATER LEVEL 18.31 BELOW LSD, OCT. 4, 1982.
 RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	16.85	JAN. 18, 1991	16.54	APR. 4, 1991	15.88	JULY 11, 1991	16.09

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302614091083001 LOCAL WELL NUMBER: EB-917

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 95, T. 7S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,500-FT SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 1,736 FT, SCREENED 1,731-1,736. MP TOP OF 4-IN. CASING, AT LSD.
 LSD 46.56 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 116.98 BELOW LSD, APR. 10, 1978.
 LOWEST WATER LEVEL 145.91 BELOW LSD, NOV. 23, 1990.
 RECORDS AVAILABLE 1973-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	145.65	JAN. 24, 1991	142.97	APR. 17, 1991	143.20	JULY 15, 1991	143.55
NOV. 23	145.91						

302955091060601 LOCAL WELL NUMBER: EB-933

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 50, T. 6S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 603 FT, SCREENED 592-603. MP TOP OF 2-IN. CASING, 1.30 FT ABOVE LSD.
 LSD 51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 44.67 BELOW LSD, JULY 11, 1991.
 LOWEST WATER LEVEL 67.84 BELOW LSD, NOV. 18, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	47.65	JAN. 18, 1991	47.11	APR. 4, 1991	45.30	JULY 11, 1991	44.67

302955091060501 LOCAL WELL NUMBER: EB-934

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 50, T. 6S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 385 FT, SCREENED 372-385. MP TOP OF 2-IN. CASING, 1.10 FT ABOVE LSD.
 LSD 51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.55 BELOW LSD, JULY 11, 1991.
 LOWEST WATER LEVEL 55.98 BELOW LSD, NOV. 18, 1977.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	40.29	JAN. 18, 1991	40.01	APR. 4, 1991	38.05	JULY 11, 1991	37.55

302932091101901 LOCAL WELL NUMBER: EB-944

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,792 FT, SCREENED 2,782-2,792. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN. TEE ON LINER, 1.63 FT ABOVE LSD.
 LSD 59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 33.53 BELOW LSD, FEB. 4, 1975.
 LOWEST WATER LEVEL 52.25 BELOW LSD, FEB. 22, 1980.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	45.67	JAN. 24, 1991	43.13	APR. 17, 1991	42.03	JULY 12, 1991	41.89

302932091101902 LOCAL WELL NUMBER: EB-945

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 654 FT, SCREENED 644-654. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN. TEE ON LINER, 2.27 FT ABOVE LSD.
 LSD 59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 59.09 BELOW LSD, JULY 9, 1990.
 LOWEST WATER LEVEL 158.05 BELOW LSD, AUG. 26, 1976.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	67.12	JAN. 24, 1991	63.30	APR. 17, 1991	63.05	JULY 12, 1991	62.74

SEE FOOTNOTES AT END OF TABLE.

EAST BATON ROUGE PARISH--Continued

302932091101903 LOCAL WELL NUMBER: EB-946

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 43, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,234 FT, SCREENED 1,224-1,234. MP TOP INSIDE EDGE OF SIDE OPENING OF 2-IN. TEE ON LINER, 2.02 FT ABOVE LSD.
 LSD 59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 117.36 BELOW LSD, DEC. 1, 1988.
 LOWEST WATER LEVEL 193.08 BELOW LSD, OCT. 2, 1978.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 1, 1990	132.57	JAN. 24, 1991	122.47	APR. 17, 1991	131.75	JULY 12, 1991	128.33

303251091115001 LOCAL WELL NUMBER: EB-1000

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 69, T. 6S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN., DEPTH 2,926 FT, SCREENED 2,916-2,926. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 68 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 44.15 BELOW LSD, APR. 22, 1985.
 LOWEST WATER LEVEL 57.53 BELOW LSD, FEB. 26, 1980.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	56.84	JAN. 18, 1991	54.21	APR. 5, 1991	53.87	JULY 12, 1991	53.07

302919091020501 LOCAL WELL NUMBER: EB-1019

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 52, T. 6S., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 700 FT, SCREENED 690-700. MP TOP OF 2-IN. CASING, AT LSD.
 LSD 49 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 38.70 BELOW LSD, APR. 12, 1983.
 LOWEST WATER LEVEL 46.54 BELOW LSD, OCT. 31, 1986.
 RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	42.62	JAN. 18, 1991	41.72	APR. 4, 1991	41.39	JULY 11, 1991	41.01

302605091100901 LOCAL WELL NUMBER: EB-1028

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 53, T. 7S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN., DEPTH 2,238 FT, SCREENED 2,223-2,238. MP TOP EDGE OF 1-IN. AIR-LINE COLLAR, 0.30 FT BELOW LSD.
 LSD 40 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 175.10 BELOW LSD, APR. 27, 1987.
 LOWEST WATER LEVEL 245.19 BELOW LSD, JULY 23, 1981.
 RECORDS AVAILABLE 1981-88, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 29, 1991	215.08	APR. 17, 1991	207.31	JULY 15, 1991	212.48		

EAST CARROLL PARISH

324040091110801 LOCAL WELL NUMBER: EC-55

OWNER: ELTON FORTENBERRY. (SEC. 38, T. 20N., R. 12E.) DRILLED IRRIGATION SEMI-ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN., DEPTH 114 FT, SCREENED 74-114. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 97 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 0.26 BELOW LSD, MAY 16, 1973.
 LOWEST WATER LEVEL 29.63 BELOW LSD, JUNE 22, 1964.
 RECORDS AVAILABLE 1955, 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	15.86	JAN. 3, 1991	19.22	APR. 23, 1991	7.74	JULY 16, 1991	9.68

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS
EAST FELICIANA PARISH

305144091010901 LOCAL WELL NUMBER: EF-61

OWNER: TOWN OF CLINTON. (SEC. 83, T. 2S., R. 2E.) DRILLED UNUSED ARTESIAN WELL IN ZONE 1 AQUIFER OF PLIOCENE AGE, DIAM 6 IN., REPORTED DEPTH 305 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF 1/2-IN. HOLE IN COVER, 1.00 FT ABOVE LSD.
LSD 210 FT ABOVE NGVD.
HIGHEST WATER LEVEL 63.76 BELOW LSD, MAY 16, 1961.
LOWEST WATER LEVEL 86.15 BELOW LSD, MAY 1, 1986.
RECORDS AVAILABLE 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	80.63	FEB. 11, 1991	80.84	AUG. 5, 1991	80.13		

304959091093001 LOCAL WELL NUMBER: EF-185

OWNER: E. LOUISIANA STATE HOSPITAL. (SEC. 45, T. 2S., R. 1E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 14 TO 12 TO 10 IN., REPORTED DEPTH 1,514 FT, SCREENED 1,469-1,514. MP LOWER EDGE OF 1-IN. ACCESS PIPE, 1.48 FT ABOVE LSD.
LSD 228 FT ABOVE NGVD.
HIGHEST WATER LEVEL 118.54 BELOW LSD, MAY 16, 1961.
LOWEST WATER LEVEL 216.95 BELOW LSD, FEB. 19, 1991.
RECORDS AVAILABLE 1961-88, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	191.34	FEB. 19, 1991	216.95	AUG. 5, 1991	208.91		

304309091083201 LOCAL WELL NUMBER: EF-223

OWNER: TOWN OF SLAUGHTER. (SEC. 7, T. 4S., R. 1E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 10 IN., DEPTH 2,000 FT, SCREENED 1,935-2,000. MP TOP OF SANITARY SEAL, 1.55 FT ABOVE LSD.
LSD 135 FT ABOVE NGVD.
HIGHEST WATER LEVEL 100.85 BELOW LSD, JULY 21, 1983.
LOWEST WATER LEVEL 141.72 BELOW LSD, FEB. 11, 1991.
RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	124.98	FEB. 11, 1991	141.72	AUG. 5, 1991	130.89		

EVANGELINE PARISH

304120092263001 LOCAL WELL NUMBER: EV-229

OWNER: CHESTLEY FONTENOT. (SEC. 25, T. 4S., R. 1W.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 12 IN., DEPTH 231 FT, SCREENED 149-231. MP FLOOR OF SHELTER HOUSE, 0.85 FT ABOVE LSD.
LSD 65.66 FT ABOVE NGVD.
HIGHEST WATER LEVEL 45.52 BELOW LSD, APR. 18, 1951.
LOWEST WATER LEVEL 108.60 BELOW LSD, JUNE 10, 1982.
RECORDS AVAILABLE 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	88.08	NOV. 30, 1990	86.89	FEB. 5, 1991	82.74	APR. 5, 1991	91.25
OCT. 10	87.41	DEC. 5	86.14	FEB. 10	83.60	APR. 8	93.03J
OCT. 15	88.92	DEC. 10	85.55	FEB. 15	82.91	APR. 10	92.91
OCT. 20	88.58	DEC. 15	85.09	FEB. 20	82.47	APR. 15	89.33
OCT. 25	87.65	DEC. 20	84.57	FEB. 25	82.14	APR. 19	89.36H
OCT. 31	86.97	DEC. 25	84.62	FEB. 28	82.15	APR. 20	90.50
NOV. 5	86.30	DEC. 30	84.37	MAR. 5	81.77	APR. 25	91.98
NOV. 9	85.90H	JAN. 5, 1991	84.03	MAR. 6	81.60J	APR. 30	89.28
NOV. 10	86.13	JAN. 10	83.63	MAR. 10	82.00	MAY 5	87.85
NOV. 15	87.50	JAN. 15	83.27	MAR. 15	86.07	JUNE 10	91.04
NOV. 20	87.88	JAN. 20	83.27	MAR. 20	90.06	JULY 18	88.15H
NOV. 25	88.69	JAN. 25	83.32	MAR. 25	89.63	JULY 20	87.76
NOV. 28	87.56H	JAN. 31	83.22H	MAR. 31	91.13		

SEE FOOTNOTES AT END OF TABLE.

FRANKLIN PARISH

320941091411301 LOCAL WELL NUMBER: FR-720

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 30, T. 14N., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 100 FT, SCREENED 97-100. MP TOP OF CASING, 4.00 FT ABOVE LSD.
 LSD 75 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 17.55 BELOW LSD, SEP. 3, 1991.
 LOWEST WATER LEVEL 18.46 BELOW LSD, JAN. 25, 1990.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 6, 1991	18.03	SEP. 3, 1991	17.55				

320958091425501 LOCAL WELL NUMBER: FR-721

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 25, T. 14N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 77 FT, SCREENED 72-77. MP TOP OF CASING, 2.10 FT ABOVE LSD.
 LSD 65.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 7.16 BELOW LSD, MAY 9, 1991.
 LOWEST WATER LEVEL 11.60 BELOW LSD, AUG. 20, 1990.
 RECORDS AVAILABLE 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	11.42	JAN. 5, 1991	10.64	APR. 5, 1991	10.42	JULY 1, 1991	9.90J
OCT. 9	11.51H	JAN. 7	10.45H	APR. 7	10.46J	JULY 5	10.11
OCT. 10	11.48	JAN. 10	10.27	APR. 10	10.01	JULY 10	10.27
OCT. 15	11.48	JAN. 15	10.27	APR. 15	8.48	JULY 15	10.42
OCT. 20	11.48	JAN. 20	10.22	APR. 20	8.47	JULY 16	10.42H
OCT. 25	11.26	JAN. 25	10.46	APR. 23	8.69H	JULY 20	10.32
OCT. 31	11.36	JAN. 31	10.69	APR. 25	9.14	JULY 25	10.52
NOV. 5	11.36	FEB. 5	10.51	APR. 30	7.97	JULY 31	10.55
NOV. 10	11.15	FEB. 10	10.48	MAY 5	7.36	AUG. 5	10.66
NOV. 15	11.32	FEB. 15	10.77	MAY 9	7.16J	AUG. 10	10.74
NOV. 20	11.34	FEB. 20	9.88	MAY 10	7.35	AUG. 15	10.73
NOV. 25	11.30	FEB. 25	9.79	MAY 15	7.56	AUG. 20	10.85
NOV. 30	11.15	FEB. 28	10.16	MAY 20	7.56	AUG. 25	11.01
DEC. 5	11.21	MAR. 2	9.13J	MAY 25	7.55	AUG. 31	11.00
DEC. 10	11.29	MAR. 5	9.25	MAY 31	7.73	SEP. 5	11.04
DEC. 15	11.31	MAR. 6	9.40H	JUNE 5	8.01	SEP. 10	10.93
DEC. 20	11.26	MAR. 10	10.15	JUNE 10	8.28	SEP. 15	11.01
DEC. 25	10.69	MAR. 15	10.41	JUNE 15	8.53	SEP. 20	11.07
DEC. 28	10.61J	MAR. 20	10.28	JUNE 20	9.27	SEP. 22	11.08J
DEC. 31	10.77	MAR. 25	10.50	JUNE 25	9.73	SEP. 25	11.03
JAN. 2, 1991	10.82J	MAR. 31	10.07	JUNE 30	9.84	SEP. 30	11.08

GRANT PARISH

312703092224801 LOCAL WELL NUMBER: G-127B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 6N., R. 1E.) BORED OBSERVATION WATER-TABLE WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 97 FT, SCREENED 93-97. MP TOP OF CASING, 1.00 FT ABOVE LSD.
 LSD 231.36 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 66.31 BELOW LSD, JULY 23, 1980.
 LOWEST WATER LEVEL 72.43 BELOW LSD, JAN. 25, 1972.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	68.35	JAN. 3, 1991	69.43	APR. 17, 1991	69.00	JULY 15, 1991	67.72

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

IBERIA PARISH

300035091443301 LOCAL WELL NUMBER: I-93

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 5, T. 12S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 585 FT, SCREENED 580-585. MP TOP OF 2-IN. CASING, 3.00 FT ABOVE LSD.
 LSD 18.53 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 15.29 BELOW LSD, FEB. 25, 1974.
 LOWEST WATER LEVEL 22.11 BELOW LSD, NOV. 4, 1974.
 RECORDS AVAILABLE 1965-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 22, 1990	18.84	APR. 19, 1991	18.07	APR. 30, 1991	16.13	JULY 19, 1991	15.48
FEB. 5, 1991	17.60						

IBERVILLE PARISH

301227091101301 LOCAL WELL NUMBER: IB-106

OWNER: J SUPPLES & SONS MERCANTILE CO. (SEC. 37, T. 10S., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN., DEPTH 608 FT, SCREENED 588-608. MP TOP EDGE OF 3-IN. COLLAR, 0.95 FT ABOVE LSD.
 LSD 18.94 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.60 ABOVE LSD, JUNE 5, 1990.
 LOWEST WATER LEVEL 11.42 BELOW LSD, NOV. 27, 1989.
 RECORDS AVAILABLE 1959-60, 1964, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 29, 1990	10.95	FEB. 28, 1991	+3.20				

JACKSON PARISH

321709092452401 LOCAL WELL NUMBER: JA-49

OWNER: STONE CONTAINER CORP. (SEC. 15, T. 15N., R. 4W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 12 TO 8 IN., DEPTH 570 FT, SCREENED 542-570. MP TOP OF NIPPLE IN CASING COVER PLATE, 2.20 FT ABOVE LSD.
 LSD 160 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 114.16 BELOW LSD, JAN. 2, 1961.
 LOWEST WATER LEVEL 193.86 BELOW LSD, OCT. 1, 1967.
 RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	157.21	JAN. 4, 1991	155.99	APR. 18, 1991	156.06	JULY 22, 1991	156.34

322357092341701 LOCAL WELL NUMBER: JA-147

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 16N., R. 2W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 703 FT, SCREENED 693-703. MP TOP OF CASING, 3.00 FT ABOVE LSD.
 LSD 220 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 209.06 BELOW LSD, MAY 14, 1975.
 LOWEST WATER LEVEL 237.35 BELOW LSD, SEP. 30, 1991.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 31, 1990	237.23	JAN. 31, 1991	236.92	APR. 29, 1991	236.24	JULY 31, 1991	236.80
NOV. 29	237.12	FEB. 28	236.59	MAY 30	236.44	AUG. 28	237.14
DEC. 28	236.70	MAR. 29	236.38	JUNE 28	236.70	SEP. 30	237.35

SEE FOOTNOTES AT END OF TABLE.

JEFFERSON PARISH

295739090094601 LOCAL WELL NUMBER: JF-156

OWNER: JEFFERSON PARISH CONSOLIDATED WATER DISTRICT. (SEC. 46, T. 12S., R. 10E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN., DEPTH 780 FT, SCREENED 660-780. MP TOP OF 4-IN. PLASTIC LINER, 2.05 FT ABOVE LSD.
 LSD 9 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 67.95 BELOW LSD, APR. 24, 1984.
 LOWEST WATER LEVEL 94.34 BELOW LSD, NOV. 11, 1975.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	73.05	FEB. 27, 1991	70.42	MAY 7, 1991	70.70	AUG. 20, 1991	74.93

JEFFERSON DAVIS PARISH

301355092463001 LOCAL WELL NUMBER: JD-9

OWNER: WELSH CANAL CO. (SEC. 34, T. 9S., R. 4W.) DRILLED IRRIGATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN., DEPTH 318 FT, SCREENED 238-318. MP LOWER LIP OF DISCHARGE PIPE, 4.55 FT ABOVE LSD.
 LSD 24.1 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 19.52 BELOW LSD, MAR. 29, 1943.
 LOWEST WATER LEVEL 95.00 BELOW LSD, JULY 21, 1980.
 RECORDS AVAILABLE 1938-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	63.84	FEB. 4, 1991	57.21	APR. 3, 1991	61.34	JULY 18, 1991	59.95

301300092584503 LOCAL WELL NUMBER: JD-485A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 10S., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 290 FT, SCREENED 270-290. MP TOP OF 4-IN. CASING COLLAR, 3.00 FT ABOVE LSD.
 LSD 21.36 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 48.00 BELOW LSD, MAR. 16, 1990.
 LOWEST WATER LEVEL 107.41 BELOW LSD, JULY 19, 1980.
 RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1990	59.59H	DEC. 25, 1990	54.24	MAR. 13, 1991	51.06J	JUNE 5, 1991	60.32
OCT. 5	59.34	DEC. 27	54.08H	MAR. 15	51.08	JUNE 10	69.93J
OCT. 10	58.94	DEC. 31	53.86	MAR. 20	51.46	JUNE 15	61.08H
OCT. 15	58.49	JAN. 5, 1991	53.48	MAR. 25	59.07	JUNE 20	59.37
OCT. 20	58.04	JAN. 10	52.99	MAR. 27	58.78H	JUNE 25	60.20
OCT. 25	57.64	JAN. 15	52.83	MAR. 31	62.08	JUNE 30	58.77
OCT. 31	57.43	JAN. 20	52.54	APR. 5	60.56	JULY 3	65.62H
NOV. 1	57.42H	JAN. 25	52.33	APR. 10	61.80	JULY 5	68.05
NOV. 5	56.88	JAN. 29	52.44H	APR. 15	59.99	JULY 10	65.46
NOV. 10	56.76	JAN. 31	52.15	APR. 20	58.75	JULY 15	65.32
NOV. 15	57.99	FEB. 5	51.82	APR. 25	60.50	JULY 18	63.96H
NOV. 20	57.02	FEB. 10	51.67	APR. 30	60.06	JULY 20	63.63
NOV. 25	57.39	FEB. 15	51.45	MAY 2	59.31H	JULY 25	62.88
NOV. 28	56.38H	FEB. 20	51.34	MAY 5	64.71	JULY 31	60.80
NOV. 30	56.27	FEB. 25	51.22	MAY 10	60.21	AUG. 5	60.68H
DEC. 5	55.95	FEB. 28	51.29	MAY 15	60.81	AUG. 10	63.53
DEC. 10	55.55	MAR. 1	51.36H	MAY 20	58.08	AUG. 15	60.32
DEC. 15	54.97	MAR. 5	51.35	MAY 31	58.64	AUG. 20	58.40
DEC. 20	54.49	MAR. 10	51.39				

301356092462701 LOCAL WELL NUMBER: JD-773

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 34, T. 9S., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN., DEPTH 666 FT, SCREENED 656-666. MP TOP OF CASING, 3.20 ABOVE LSD.
 LSD 22 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 54.42 BELOW LSD, APR. 4, 1990.
 LOWEST WATER LEVEL 65.62 BELOW LSD, JULY 10, 1990.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	60.87	FEB. 4, 1991	55.98	APR. 3, 1991	57.07	JULY 18, 1991	57.99

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

LAFAYETTE PARISH

300605091593502 LOCAL WELL NUMBER: LF-524

OWNER: YOUNGVILLE, LA. (SEC. 7, T. 11S., R. 5E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN., DEPTH 173 FT, SCREENED 141-174. MP TOP OF 1-IN. NIPPLE, 0.25 FT ABOVE LSD.
 LSD 40.37 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 27.00 BELOW LSD, DEC. 7, 1957.
 LOWEST WATER LEVEL 28.98 BELOW LSD, DEC. 14, 1990.
 RECORDS AVAILABLE 1957, 1990.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 7, 1957	27.00R	DEC. 14, 1990	28.98				

301426092000601 LOCAL WELL NUMBER: LF-662

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 100, T. 9S., R. 5E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 152 FT, SCREENED 146-152. MP TOP OF 1-IN. NIPPLE, 0.29 FT ABOVE LSD.
 LSD 40.37 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 42.66 BELOW LSD, JULY 19, 1991.
 LOWEST WATER LEVEL 47.17 BELOW LSD, OCT. 20, 1981.
 RECORDS AVAILABLE 1981-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 22, 1990	46.54	FEB. 5, 1991	45.83	APR. 19, 1991	44.84	JULY 19, 1991	42.66

LASALLE PARISH

315444092122801 LOCAL WELL NUMBER: LA-254A

OWNER: CITY OF OLLA. (SEC. 30, T. 11N., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN COCK-FIELD AQUIFER OF EOCENE AGE, DIAM 10 IN., DEPTH 510 FT, SCREENED 450-510. MP TOP OF 2-IN. ACCESS PIPE, 0.50 FT ABOVE LSD.
 LSD 160.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 76.09 BELOW LSD, JULY 26, 1991.
 LOWEST WATER LEVEL 82.16 BELOW LSD, JUNE 21, 1990.
 RECORDS AVAILABLE 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	79.01	JAN. 4, 1991	77.24	APR. 23, 1991	76.87	JULY 22, 1991	76.09

LINCOLN PARISH

324141092390501 LOCAL WELL NUMBER: L-26

OWNER: TOWN OF DUBACH. (SEC. 26, T. 20N., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 10 TO 6 IN., DEPTH 686 FT, SCREENED 633-686. MP TOP OF 3/4-IN. HOLE IN PLATE 2.00 FT ABOVE LSD.
 LSD 155 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 95.20 BELOW LSD, APR. 22, 1950.
 LOWEST WATER LEVEL 172.33 BELOW LSD, SEP. 29, 1991.
 RECORDS AVAILABLE 1950, 1962, 1967-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	170.38H	JAN. 7, 1991	170.54H	APR. 10, 1991	170.67	JULY 5, 1991	171.13
OCT. 5	170.30	JAN. 10	170.35	APR. 15	170.32	JULY 10	171.29
OCT. 10	170.30	JAN. 15	170.28	APR. 20	170.37	JULY 15	171.41
OCT. 15	170.29	JAN. 20	170.38	APR. 25	170.30	JULY 19	171.44H
OCT. 20	170.30	JAN. 25	170.67	APR. 29	169.70J	JULY 20	171.49
OCT. 25	170.38	JAN. 31	170.79	APR. 30	169.82	JULY 25	171.55
OCT. 30	170.61H	FEB. 5	170.65	MAY 5	169.91	JULY 31	171.64
OCT. 31	170.46	FEB. 10	170.71	MAY 10	170.25	AUG. 5	171.77
NOV. 5	170.31	FEB. 15	170.92J	MAY 15	170.34	AUG. 10	171.77
NOV. 10	170.34	FEB. 20	170.49	MAY 20	170.42	AUG. 15	171.76
NOV. 15	170.43	FEB. 25	170.48	MAY 25	170.43	AUG. 20	171.89
NOV. 20	170.41	FEB. 28	170.50	MAY 31	170.48	AUG. 25	172.02
NOV. 25	170.37	MAR. 1	170.19J	JUNE 5	170.62	AUG. 31	171.91
NOV. 30	170.58	MAR. 5	170.36	JUNE 10	170.80	SEP. 5	171.97
DEC. 5	170.66J	MAR. 10	170.67	JUNE 15	170.80	SEP. 10	172.04
DEC. 10	170.59	MAR. 15	170.63	JUNE 20	170.90	SEP. 15	172.10
DEC. 15	170.57	MAR. 20	170.59	JUNE 25	170.96	SEP. 20	172.29
DEC. 20	170.43	MAR. 25	170.61	JUNE 29	171.09J	SEP. 25	172.17
DEC. 25	170.55	MAR. 31	170.80	JUNE 30	171.07	SEP. 29	172.33J
DEC. 31	170.54	APR. 2	170.71H	JULY 1	170.98J	SEP. 30	172.31
JAN. 5, 1991	170.43	APR. 5	170.72				

SEE FOOTNOTES AT END OF TABLE.

LIVINGSTON PARISH

303034090380301 LOCAL WELL NUMBER: LI-52

OWNER: COY KINCEN. (SEC. 20, T. 6S., R. 6E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., REPORTED DEPTH 1,865 FT, SCREENED 1,825-1,865. MP CENTER LINE OF 3/4-IN. TEE, 1.20 FT ABOVE LSD.
 LSD 46 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 116.20 ABOVE LSD, NOV. 30, 1950,
 LOWEST WATER LEVEL 41.20 ABOVE LSD, OCT. 18, 1982.
 RECORDS AVAILABLE 1950-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1990	+49.70	APR. 3, 1991	+51.00	JULY 10, 1991	+50.20	SEP. 11, 1991	+50.20
JAN. 14, 1991	+51.00						

302956090504601 LOCAL WELL NUMBER: LI-113

OWNER: W.K. COBURN. (SEC. 30, T. 6S., R. 4E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 3 IN., REPORTED DEPTH 1,300 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF COLLAR ABOVE VALVE, 1.50 FT ABOVE LSD.
 LSD 48 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 10.98 BELOW LSD, APR. 14, 1967,
 LOWEST WATER LEVEL 20.00 BELOW LSD, APR. 12, 1989.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	17.46	APR. 3, 1991	16.90	JULY 10, 1991	16.44	SEP. 11, 1991	16.68
JAN. 14, 1991	17.17						

302450090355601 LOCAL WELL NUMBER: LI-122

OWNER: BLOOD RIVER CHURCH OF GOD. (SEC. 45, T. 7S., R. 6E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 1 1/2 IN., REPORTED DEPTH 500 FT, SCREENED 490-500. MP TOP EDGE OF 3/4-IN. NIPPLE, 0.50 FT ABOVE LSD.
 LSD 11 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 13.40 ABOVE LSD, JULY 15, 1966,
 LOWEST WATER LEVEL 2.09 ABOVE LSD, NOV. 1, 1989.
 RECORDS AVAILABLE 1966, 1984, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	+3.40	MAR. 14, 1991	+7.10	JULY 9, 1991	+7.10	SEP. 11, 1991	+6.80
JAN. 14, 1991	+5.20						

302724090565801 LOCAL WELL NUMBER: LI-185

OWNER: CITY OF DENHAM SPRINGS. (SEC. 38, T. 7S., R. 3E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 14 IN., DEPTH 2,611 FT, SCREENED 2,531-2,611. MP BOTTOM LIP OF VENT ELBOW, 1.60 FT ABOVE LSD.
 LSD 37 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 41.14 BELOW LSD, FEB. 3, 1989,
 LOWEST WATER LEVEL 59.93 BELOW LSD, MAY 11, 1988.
 RECORDS AVAILABLE 1979, 1983, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	55.21	APR. 3, 1991	50.52	JULY 10, 1991	48.18	SEP. 11, 1991	49.37
JAN. 14, 1991	47.25						

MADISON PARISH

322614091122001 LOCAL WELL NUMBER: MA-64

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 23, T. 17N., R. 12E.) BORED OBSERVATION ARTESIAN WELL IN IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 117 FT, SCREENED 112-117. MP TOP OF CASING, AT LSD.
 LSD 80 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 5.40 BELOW LSD, APR. 23, 1991,
 LOWEST WATER LEVEL 16.01 BELOW LSD, JUNE 8, 1988.
 RECORDS AVAILABLE 1975, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	14.08	MAR. 7, 1991	7.28	APR. 23, 1991	5.40	SEP. 5, 1991	10.60
JAN. 29, 1991	9.74	MAR. 12	8.18	JULY 16	10.35		

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

MADISON PARISH--Continued

322428091130201 LOCAL WELL NUMBER: MA-65

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 34, T. 17N., R. 12E.) BORED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 119 FT, SCREENED 114-119. MP TOP OF CASING, 0.60 ABOVE LSD.
 LSD 78 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 5.15 BELOW LSD, MAR. 12, 1991.
 LOWEST WATER LEVEL 8.02 BELOW LSD, SEP. 5, 1991.
 RECORDS AVAILABLE 1975, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 19, 1975	6.72	MAR. 12, 1991	5.15	SEP. 5, 1991	8.02		

MOREHOUSE PARISH

324626091543901 LOCAL WELL NUMBER: MO-5

OWNER: INTERNATIONAL PAPER CO. (SEC. 25, T. 21N., R. 5E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 10 IN., DEPTH 860 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF NIPPLE IN METAL COVER PLATE, 1.60 FT ABOVE LSD.
 LSD 117.44 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 143.59 BELOW LSD, JUNE 6, 1989.
 LOWEST WATER LEVEL 219.40 BELOW LSD, SEP. 30, 1975.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	151.32	JAN. 3, 1991	149.55	APR. 24, 1991	150.34	JULY 18, 1991	153.93

323806091530401 LOCAL WELL NUMBER: MO-67

OWNER: D.W. PIPES. (SEC. 17, T. 19N., R. 6E.) DRILLED UNUSED WATER-TABLE WELL IN THE ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN., DEPTH 81 FT, SCREENED 71-81. MP TOP OF CASING, 7.90 FT ABOVE LSD.
 LSD 73.51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 1.59 BELOW LSD, DEC. 19, 1961.
 LOWEST WATER LEVEL 23.88 BELOW LSD, SEP. 1, 1982.
 RECORDS AVAILABLE 1953-77, 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1990	13.61	JAN. 4, 1991	9.30	APR. 24, 1991	2.14	JULY 18, 1991	9.93

324753091471201 LOCAL WELL NUMBER: MO-342

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 19, T. 21N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 620 FT, SCREENED 610-620. MP TOP OF BUSHING, 3.68 FT ABOVE LSD.
 LSD 88.34 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 86.75 BELOW LSD, SEP. 3, 1991.
 LOWEST WATER LEVEL 103.30 BELOW LSD, AUG. 20, 1981.
 RECORDS AVAILABLE 1968-81, 1985-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1990	89.22	OCT. 25, 1990	89.08	MAR. 4, 1991	87.26	SEP. 3, 1991	86.75

324753091471202 LOCAL WELL NUMBER: MO-343

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 19, T. 21N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN., DEPTH 176 FT, SCREENED 166-176. MP TOP OF BUSHING, 3.72 FT ABOVE LSD.
 LSD 88.41 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 0.50 BELOW LSD, MAY 13, 1975.
 LOWEST WATER LEVEL 13.79 BELOW LSD, AUG. 26, 1981.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	10.64	JAN. 3, 1991	6.62	APR. 24, 1991	2.98	JULY 18, 1991	10.04
OCT. 25	10.04						

SEE FOOTNOTES AT END OF TABLE.

MOREHOUSE PARISH--Continued

324647091543806 LOCAL WELL NUMBER: MO-657

OWNER: THE PEOPLES WATER SERVICE CO. (SEC. 25, T. 21N., R. 5E.) DRILLED UNUSED ARTESIAN WELL IN THE TERRACE AQUIFER OF PLEISTOCENE AGE, DIAM 6 IN., DEPTH 97 FT, SCREENED 57-97. MP TOP OF CASING, 2.90 FT ABOVE LSD.
 LSD 126.64 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 55.53 BELOW LSD, JULY 9, 1990.
 LOWEST WATER LEVEL 60.00 BELOW LSD, JUNE 7, 1985.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	58.08	JAN. 3, 1991	56.73	APR. 24, 1991	56.15	JULY 18, 1991	57.69

325826091280401 LOCAL WELL NUMBER: MO-710

OWNER: U.S. GEOLOGICAL SURVEY (SEC. 17, T. 23N., R. 10E.) DRILLED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN., DEPTH 130 FT, SCREENED INTERVAL 120-130. MP TOP OF CASING, AT LSD.
 LSD 99 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 12.29 BELOW LSD, SEP. 3, 1991.
 LOWEST WATER LEVEL 14.40 BELOW LSD, MAR. 23, 1990.
 RECORDS AVAILABLE 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 23, 1990	14.40	SEP. 3, 1991	12.29				

NATCHITOCHES PARISH

312934093114801 LOCAL WELL NUMBER: NA-9

OWNER: U.S. FOREST SERVICE. (SEC. 21, T. 6N., R. 8W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN IN COCKFIELD AQUIFER OF EOCENE AGE, DIAM 4 IN., DEPTH 1,300 FT, SCREENED 1,200-1,300. MP TOP OF SANITARY SEAL, 1.70 FT ABOVE LSD.
 LSD 185.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 7.42 ABOVE LSD, JULY 18, 1991.
 LOWEST WATER LEVEL 8.71 BELOW LSD, JULY 26, 1990.
 RECORDS AVAILABLE 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	8.27	JAN. 3, 1991	8.26	JULY 18, 1991	7.42		

313918093023101 LOCAL WELL NUMBER: NA-284

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 42, T. 8N., R. 7W.) BORED OBSERVATION ARTESIAN WELL IN RED RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 72 FT, SCREENED 69-72. MP TOP OF CASING, 1.60 FT ABOVE LSD.
 LSD 102.59 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 0.36 ABOVE LSD, AUG. 22, 1969.
 LOWEST WATER LEVEL 13.71 BELOW LSD, OCT. 1, 1956.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 16, 1990	10.70	JAN. 10, 1991	6.47	APR. 12, 1991	4.68	MAY 28, 1991	2.74

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

ORLEANS PARISH

295652090020101 LOCAL WELL NUMBER: OR-42

OWNER: U.S. NAVY. (SEC. 16, T. 13S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 8 IN., REPORTED DEPTH 775 FT, SCREENED 664-775. MP TOP OF 2 X 6-IN. RECORDER BASE, 1.00 FT ABOVE LSD.
 LSD 10 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.07 BELOW LSD, MAY 25, 1942.
 LOWEST WATER LEVEL 140.48 BELOW LSD, SEP. 20, 1968.
 RECORDS AVAILABLE 1942, 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	85.89	JAN. 10, 1991	82.03	APR. 10, 1991	80.93	JULY 10, 1991	85.15
OCT. 10	85.79	JAN. 15	81.41	APR. 15	81.09	JULY 15	85.62
OCT. 15	85.93	JAN. 20	81.06	APR. 20	81.45	JULY 20	86.07
OCT. 20	85.83	JAN. 25	80.71	APR. 25	81.59	JULY 25	86.04
OCT. 24	85.60H	JAN. 31	80.45	APR. 30	81.78	JULY 31	86.29
OCT. 25	85.64	FEB. 5	80.21	MAY 5	82.17	AUG. 5	86.17
OCT. 31	85.31	FEB. 10	80.27	MAY 8	82.63H	AUG. 10	86.45
NOV. 5	85.03	FEB. 15	79.99	MAY 10	82.93	AUG. 15	86.81
NOV. 10	84.71	FEB. 20	79.76	MAY 15	83.18	AUG. 20	86.84
NOV. 15	84.43	FEB. 25	79.67	MAY 20	83.56	AUG. 21	87.09H
NOV. 20	84.01	FEB. 28	79.62H	MAY 25	83.73	AUG. 25	87.18
NOV. 25	83.92	MAR. 1	79.08J	MAY 31	83.81	AUG. 31	87.32
NOV. 30	84.26	MAR. 5	79.37	JUNE 5	83.81	SEP. 5	87.10
DEC. 5	84.17	MAR. 10	79.63	JUNE 10	83.62	SEP. 10	87.24
DEC. 10	84.11	MAR. 15	79.81	JUNE 15	84.13	SEP. 15	87.15
DEC. 15	84.07	MAR. 20	79.93	JUNE 20	84.42	SEP. 20	87.57
DEC. 20	83.97	MAR. 25	80.24	JUNE 25	84.66	SEP. 25	87.50
DEC. 25	83.85	MAR. 31	80.59	JUNE 30	84.97	SEP. 27	87.94J
DEC. 31	83.24	APR. 5	80.71	JULY 5	85.11	SEP. 30	87.54
JAN. 5, 1991	82.83						

300525089464001 LOCAL WELL NUMBER: OR-175

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 38, T. 11S., R. 14E.) DRILLED OBSERVATION ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 449 FT, SCREENED 439-449. MP TOP OF 2-IN. CASING, AT LSD.
 LSD 10 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 19.84 BELOW LSD, SEP. 19, 1963.
 LOWEST WATER LEVEL 37.74 BELOW LSD, NOV. 1, 1988.
 RECORDS AVAILABLE 1963, 1990.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	36.74						

300959089441901 LOCAL WELL NUMBER: OR-179

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 19, T. 10S., R. 15E.) DRILLED OBSERVATION ARTESIAN WELL IN ABITA AQUIFER (ZONE 2) OF PLEISTOCENE AGE, DIAM 2 1/2 IN., DEPTH 2,434 FT, SCREENED 2,429-2,434. MP CENTER LINE OF DISCHARGE PIPE, 2.87 FT ABOVE LSD.
 LSD 4 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 107.20 ABOVE LSD, NOV. 10, 1965.
 LOWEST WATER LEVEL 54.30 ABOVE LSD, JAN. 4, 1989.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	+57.90	FEB. 27, 1991	+57.40	MAY 7, 1991	+58.90	AUG. 20, 1991	+57.40

300349089562401 LOCAL WELL NUMBER: OR-203

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 30, T. 11S., R. 13E.) DRILLED OBSERVATION ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 453 FT, SCREENED 448-453. MP TOP OF 2-IN. CASING, 0.65 FT BELOW LSD.
 LSD 5 FT BELOW NGVD.
 HIGHEST WATER LEVEL 65.93 BELOW LSD, NOV. 21 1990.
 LOWEST WATER LEVEL 81.72 BELOW LSD, SEP. 29, 1981.
 RECORDS AVAILABLE 1981-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 21, 1990	65.93	MAY 2, 1991	68.08				

SEE FOOTNOTES AT END OF TABLE.

ORLEANS PARISH--Continued

300149090041701 LOCAL WELL NUMBER: OR-214

OWNER: UNIV. OF NEW ORLEANS. (SEC. 108, T. 12S., R. 11E.) DRILLED AIR CONDITIONING SUPPLY ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 12 3/4 IN., DEPTH 630 FT, SCREENED 527-630. MP TOP OF 2-IN. CASING, 2.00 FT BELOW LSD.
 LSD 5 FT BELOW NGVD.
 HIGHEST WATER LEVEL 106.71 BELOW LSD, MAR. 26, 1991,
 LOWEST WATER LEVEL 135.00 BELOW LSD, AUG. 16, 1984.
 RECORDS AVAILABLE 1984, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
AUG. 16, 1984	135.00R	MAR. 26, 1991	106.71	MAY 7, 1991	119.78	AUG. 20, 1991	120.76

OUACHITA PARISH

322422092020701 LOCAL WELL NUMBER: OU-401A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 16N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 397 FT, SCREENED 389-397. MP TOP OF CASING, 3.89 FT ABOVE LSD.
 LSD 62.28 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 70.11 BELOW LSD, APR. 27, 1967,
 LOWEST WATER LEVEL 101.60 BELOW LSD, MAR. 23, 1982.
 RECORDS AVAILABLE 1965-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 10, 1989	97.96	OCT. 2, 1990	100.75	MAR. 7, 1991	99.71	SEP. 3, 1991	100.07

321714092041401 LOCAL WELL NUMBER: OU-402

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 16, T. 15N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 750 FT, SCREENED 740-750. MP TOP OF BUSHING, 0.25 FT ABOVE LSD.
 LSD 63.3 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.01 BELOW LSD, JULY 5, 1965,
 LOWEST WATER LEVEL 52.48 BELOW LSD, SEP. 24, 1990.
 RECORDS AVAILABLE 1965-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 5, 1991	51.49	SEP. 6, 1991	52.33				

321714092041402 LOCAL WELL NUMBER: OU-403

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 16, T. 15N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 460 FT, SCREENED 453-460. MP TOP OF BUSHING, 0.35 FT ABOVE LSD.
 LSD 63.3 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.71 BELOW LSD, SEP. 13, 1967,
 LOWEST WATER LEVEL 61.30 BELOW LSD, SEP. 5, 1991.
 RECORDS AVAILABLE 1965-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 5, 1991	59.96	SEP. 5, 1991	61.30				

322531092053901 LOCAL WELL NUMBER: OU-405

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 30, T. 17N., R. 4E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 775 FT, SCREENED 770-775. MP TOP OF CASING, 3.78 FT ABOVE LSD.
 LSD 66.66 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 91.89 BELOW LSD, JULY 19, 1968,
 LOWEST WATER LEVEL 123.43 BELOW LSD, NOV. 1, 1990.
 RECORDS AVAILABLE 1965-71, 1974-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 10, 1989	118.30	NOV. 1, 1990	123.43	MAR. 5, 1991	121.29	SEP. 4, 1991	122.15

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

OUACHITA PARISH--Continued

323100092165802 LOCAL WELL NUMBER: OU-444

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 29, T. 18N., R. 2E.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 670 FT, SCREENED 660-670. MP TOP OF CASING, 3.60 FT ABOVE LSD.
 LSD 118 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 171.15 BELOW LSD, AUG. 20, 1969,
 LOWEST WATER LEVEL 224.70 BELOW LSD, OCT. 9, 1990.
 RECORDS AVAILABLE 1969-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1990	224.70	JAN. 4, 1991	218.64	APR. 30, 1991	215.05	JULY 15, 1991	216.51

POINTE COUPEE PARISH

304939091422101 LOCAL WELL NUMBER: PC-39

OWNER: C. FLINT. (SEC. 13, T. 3S., R. 7E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 2 IN., REPORTED DEPTH 460 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF REDUCER AT WELL, 1.30 FT ABOVE LSD.
 LSD 41 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 3.19 ABOVE LSD, MAY 23, 1973,
 LOWEST WATER LEVEL 26.64 BELOW LSD, DEC. 4, 1963.
 RECORDS AVAILABLE 1961, 1963-64, 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	21.35	JAN. 25, 1991	10.06	APR. 11, 1991	9.05	JULY 26, 1991	15.38

303556091234001 LOCAL WELL NUMBER: PC-66

OWNER: MRS. ST. GEORGE HINES. (SEC. 48, T. 5S., R. 11E.) DRILLED DOMESTIC ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., REPORTED DEPTH 1,530 FT, SCREENED 1,490-1,530. MP HOLE IN OF SANITARY SEAL, 2.12 FT ABOVE LSD.
 LSD 33 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 20.10 ABOVE LSD, FEB. 2, 1961,
 LOWEST WATER LEVEL 64.42 BELOW LSD, DEC. 6, 1990.
 RECORDS AVAILABLE 1961-63, 1964-69, 1970-71, 1988, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	63.88	JAN. 25, 1991	62.77	APR. 11, 1991	61.33	JULY 26, 1991	63.48
DEC. 6	64.42						

303402091325501 LOCAL WELL NUMBER: PC-70

OWNER: THEO H. GLAZIER, SR. (SEC. 16, T. 6S., R. 9E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., REPORTED DEPTH 2,294 FT, SCREENED 2,259-2,294. MP CENTER LINE OF TEE, 0.80 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 69.50 ABOVE LSD, JULY 15, 1960,
 LOWEST WATER LEVEL 2.10 ABOVE LSD, OCT. 5, 1990.
 RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	+2.10	JAN. 25, 1991	+2.40	APR. 11, 1991	+4.80	JULY 26, 1991	+3.90

303357091330401 LOCAL WELL NUMBER: PC-138

OWNER: VILLAGE OF LIVONIA. (SEC. 16, T. 6S., R. 9E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 1/2 IN., REPORTED DEPTH 1,637 FT, SCREENED 1,617-1,637. MP TOP OF 3-IN COLLAR, 0.60 FT ABOVE LSD.
 LSD 27 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 16.64 BELOW LSD, MAY 23, 1973,
 LOWEST WATER LEVEL 38.60 BELOW LSD, DEC. 6, 1990.
 RECORDS AVAILABLE 1972-88, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	38.14	JAN. 25, 1991	38.30	APR. 11, 1991	37.99	JULY 26, 1991	38.28
DEC. 6	38.60						

SEE FOOTNOTES AT END OF TABLE.

POINTE COUPEE PARISH--Continued

305023091393901 LOCAL WELL NUMBER: PC-143

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 37, T. 3S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,800-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN., DEPTH 1,228 FT, SCREENED 1,218-1,228. MP 3/8-IN. HOLE IN 2-IN. PLUG ATOP WELL, 2.50 FT ABOVE LSD.
 LSD 41 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 18.60 ABOVE LSD, APR. 17, 1968,
 LOWEST WATER LEVEL 9.85 BELOW LSD, OCT. 5, 1990.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	9.85	JAN. 25, 1991	4.72	APR. 11, 1991	7.50	JULY 26, 1991	9.15

305023091393902 LOCAL WELL NUMBER: PC-144

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 37, T. 3S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN., DEPTH 835 FT, SCREENED 825-835. MP CENTER OF GAGE IN BUSHING ATOP CASING, 2.66 FT ABOVE LSD.
 LSD 41 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 12.20 ABOVE LSD, APR. 17, 1968,
 LOWEST WATER LEVEL 10.19 BELOW LSD, OCT. 5, 1990.
 RECORDS AVAILABLE 1968-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	10.19	JAN. 25, 1991	7.40	APR. 11, 1991	8.14	JULY 26, 1991	9.06

303538091232501 LOCAL WELL NUMBER: PC-154

OWNER: ALMA PLANTATION. (SEC. 48, T. 5S., R. 11E.) DRILLED INDUSTRIAL ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 12 IN., DEPTH 1,263 FT, SCREENED 1,174-1,228 AND 1,237-1,263. MP TOP OF BREATHER PIPE, 1.00 FT ABOVE LSD.
 LSD 36 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 37.84 BELOW LSD, AUG. 4, 1975,
 LOWEST WATER LEVEL 69.89 BELOW LSD, FEB. 20, 1990.
 RECORDS AVAILABLE 1972-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	56.60	JAN. 25, 1991	55.86	APR. 11, 1991	68.15	JULY 26, 1991	67.36

303250091365001 LOCAL WELL NUMBER: PC-155

OWNER: JOHN BLANCHARD. (SEC. 31, T. 6S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., REPORTED DEPTH 990 FT, SCREENED 970-990. MP TOP OF BOLT HOLE ON NW SIDE OF SANITARY SEAL, 0.35 FT ABOVE LSD.
 LSD 25 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 19.20 BELOW LSD, AUG. 8, 1975,
 LOWEST WATER LEVEL 33.50 BELOW LSD, OCT. 19, 1988.
 RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	31.05	JAN. 25, 1991	32.37	APR. 11, 1991	31.50	JULY 26, 1991	31.32

RAPIDES PARISH

310928092421401 LOCAL WELL NUMBER: R-851

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 8, T. 2N., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN THE CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 131 FT, SCREENED 128-131. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 220.55 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 51.39 BELOW LSD, JULY 19, 1991,
 LOWEST WATER LEVEL 56.79 BELOW LSD, APR. 6, 1973.
 RECORDS AVAILABLE 1966-86, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	52.44	JAN. 31, 1991	52.64	APR. 24, 1991	51.99	JULY 19, 1991	51.39
NOV. 20	52.38						

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

RAPIDES PARISH--Continued

312409092520901 LOCAL WELL NUMBER: R-879

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 22, T. 5N., R. 5W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CATAHOULA FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 810 FT, SCREENED 800-810. MP TOP OF CASING, 3.90 FT ABOVE LSD.
 LSD 300 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 209.43 BELOW LSD, APR. 8, 1969.
 LOWEST WATER LEVEL 218.70 BELOW LSD, OCT. 4, 1988.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	218.03	JAN. 3, 1991	218.01	APR. 23, 1991	217.90	JULY 19, 1991	217.82

311159092441001 LOCAL WELL NUMBER: R-1056

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 3N., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF PLIOCENE-MIOCENE AGE, DIAM 2 IN., DEPTH 1,555 FT, SCREENED 1,545-1,555. MP TOP OF BUSHING, 0.55 FT BELOW LSD.
 LSD 240 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 157.97 BELOW LSD, MAY 9, 1977.
 LOWEST WATER LEVEL 246.18 BELOW LSD, APR. 24, 1991.
 RECORDS AVAILABLE 1974-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1991	243.61	JAN. 3, 1991	243.45	APR. 24, 1991	246.18	JULY 19, 1991	244.78

310541092293601 LOCAL WELL NUMBER: R-1085B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 1N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF PLIOCENE-MIOCENE AGE, DIAM 2 IN., DEPTH 500 FT, SCREENED 490-500. MP TOP OF BUSHING, AT LSD.
 LSD 100 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 38.60 BELOW LSD, MAY 20, 1975.
 LOWEST WATER LEVEL 53.48 BELOW LSD, AUG. 19, 1986.
 RECORDS AVAILABLE 1975-84, 1987-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	52.04	JAN. 3, 1991	52.75	APR. 24, 1991	50.89	JULY 19, 1991	51.33

310007092431601 LOCAL WELL NUMBER: R-1207

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 1, T. 1S., R. 4W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 4 TO 2 IN., DEPTH 2,772 FT, SCREENED 2,752-2,772. MP TOP OF BUSHING, 4.20 FT ABOVE LSD.
 LSD 180 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 56.10 BELOW LSD, DEC. 1, 1981.
 LOWEST WATER LEVEL 74.57 BELOW LSD, JAN. 30, 1991.
 RECORDS AVAILABLE 1981-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 19, 1990	73.74	JAN. 30, 1991	74.57	APR. 18, 1991	73.80	JULY 17, 1991	74.46

RED RIVER PARISH

320316093114201 LOCAL WELL NUMBER: RR-278

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 4, T. 12N., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 2 IN., DEPTH 348 FT, SCREENED 338-348. MP TOP OF BUSHING, AT LSD.
 LSD 160 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 17.82 BELOW LSD, APR. 19, 1991.
 LOWEST WATER LEVEL 20.58 BELOW LSD, NOV. 24, 1982.
 RECORDS AVAILABLE 1981-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	18.76	JAN. 2, 1991	18.48	APR. 19, 1991	17.82	JULY 15, 1991	18.14

SEE FOOTNOTES AT END OF TABLE.

RED RIVER PARISH--Continued

320019093225603 LOCAL WELL NUMBER: RR-280

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 22, T. 12N., R. 10W.) BORED OBSERVATION ARTESIAN WELL IN THE RED RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 42 FT, SCREENED 39-42. MP TOP OF CASING, 4.70 FT ABOVE LSD.
 LSD 128 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 1.00 BELOW LSD, JUNE 4, 1990,
 LOWEST WATER LEVEL 15.20 BELOW LSD, OCT. 16, 1984.
 RECORDS AVAILABLE 1982-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1990	12.02	JAN. 9, 1991	6.37	APR. 4, 1991	5.72	MAY 26, 1991	2.64

RICHLAND PARISH

323029091430001 LOCAL WELL NUMBER: RI-89

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 26, T. 18N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN., DEPTH 300 FT, SCREENED 290-300. MP TOP OF CASING, 4.20 FT ABOVE LSD.
 LSD 84 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 17.75 BELOW LSD, MAY 21, 1975,
 LOWEST WATER LEVEL 21.23 BELOW LSD, SEP. 10, 1969.
 RECORDS AVAILABLE 1969-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	20.07	JAN. 4, 1991	19.85	APR. 24, 1991	19.10	JULY 17, 1991	18.78

322706091453402 LOCAL WELL NUMBER: RI-92

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 16, T. 17N., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 153 FT, SCREENED 143-153. MP TOP OF HOLE IN CASING CAP, 4.30 FT ABOVE LSD.
 LSD 80 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 9.20 BELOW LSD, MAY 3, 1984,
 LOWEST WATER LEVEL 13.98 BELOW LSD, NOV. 30, 1970.
 RECORDS AVAILABLE 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	10.88	JAN. 4, 1991	10.66	APR. 24, 1991	9.67	JULY 17, 1991	9.36

322623091294901 LOCAL WELL NUMBER: RI-112

OWNER: MRS. EMMETT REYNOLDS. (SEC. 24, T. 17N., R. 9E.) DRILLED UNUSED WATER-TABLE WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 67 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.90 FT ABOVE LSD.
 LSD 95 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 30.19 BELOW LSD, MAY 25, 1978,
 LOWEST WATER LEVEL 35.42 BELOW LSD, SEP. 22, 1982.
 RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 4, 1991	33.30	SEP. 3, 1991	32.73				

322636091295702 LOCAL WELL NUMBER: RI-114

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 24, T. 17N., R. 9E.) DRILLED OBSERVATION WATER-TABLE WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 66 FT, SCREENED 63-66. MP TOP OF CASING, 4.35 FT ABOVE LSD.
 LSD 95 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 31.78 BELOW LSD, SEP. 3, 1991,
 LOWEST WATER LEVEL 34.95 BELOW LSD, DEC. 4, 1972.
 RECORDS AVAILABLE 1972-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 4, 1991	32.38	SEP. 3, 1991	31.78				

SEE FOOTNOTES AT END OF TABLE.

RICHLAND PARISH--Continued

322605091301101 LOCAL WELL NUMBER: RI-124

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 25, T. 17N., R. 9E.) BORED OBSERVATION WATER-TABLE WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 84 FT, SCREENED 81-84. MP TOP OF CASING, 1.60 FT ABOVE LSD.
 LSD 95 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 31.94 BELOW LSD, SEP. 3, 1991,
 LOWEST WATER LEVEL 34.53 BELOW LSD, SEP. 22, 1982.
 RECORDS AVAILABLE 1974-84, 1986-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR. 4, 1991	32.36	SEP. 3, 1991	31.94				

SABINE PARISH

313510093282101 LOCAL WELL NUMBER: SA-103

OWNER: LOUIS ALFORD. (SEC. 14, T. 7N., R. 11W.) DRILLED UNUSED ARTESIAN WELL IN THE WILCOX GROUP OF EOCENE-PALEOCENE AGE, DIAM 10 IN., DEPTH 170 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 1.80 FT ABOVE LSD.
 LSD 220 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 3.34 BELOW LSD, MAR. 21, 1961,
 LOWEST WATER LEVEL 16.93 BELOW LSD, MAR. 1, 1982.
 RECORDS AVAILABLE 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	12.20	JAN. 2, 1991	11.92	APR. 23, 1991	6.54	JULY 17, 1991	8.56

312206093311001 LOCAL WELL NUMBER: SA-392

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 32, T. 5N., R. 11W.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 2 IN., DEPTH 544 FT, SCREENED 539-544. MP TOP OF CASING, 0.50 FT ABOVE LSD.
 LSD 242 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 23.79 BELOW LSD, JULY 3, 1975,
 LOWEST WATER LEVEL 26.30 BELOW LSD, NOV. 13, 1979.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	25.09	JAN. 2, 1991	24.82	APR. 23, 1991	24.35	JULY 17, 1991	24.37

ST. CHARLES PARISH

300022090241001 LOCAL WELL NUMBER: SC-9

OWNER: SHELL OIL CO. (SEC. 6, T. 12S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN GONZALES-NEW ORLEANS AQUIFER OF PLEISTOCENE AGE, DIAM 24 IN., DEPTH 808 FT, SCREENED 673-808. MP TOP OF 2-IN. COLLAR ON STEEL PLATE, AT LSD.
 LSD 4.79 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 12.40 BELOW LSD, JAN. 19, 1950,
 LOWEST WATER LEVEL 39.98 BELOW LSD, SEP. 14, 1953.
 RECORDS AVAILABLE 1943, 1949-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	19.23	FEB. 27, 1991	19.09	MAY 7, 1991	24.30	AUG. 20, 1991	25.57

300022090241002 LOCAL WELL NUMBER: SC-14

OWNER: SHELL OIL CO. (SEC. 6, T. 12S., R. 8E.) DRILLED UNUSED ARTESIAN WELL IN NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 18 IN., DEPTH 404 FT, SCREENED 324-404. MP BOTTOM EDGE OF DOOR ON CULVERT, 1.35 FT ABOVE LSD.
 LSD 5.51 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 15.22 BELOW LSD, MAY 5, 1988,
 LOWEST WATER LEVEL 90.74 BELOW LSD, SEP. 17, 1957.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 23, 1990	24.89	FEB. 27, 1991	28.77	MAY 7, 1991	24.06	AUG. 20, 1991	27.76

SEE FOOTNOTES AT END OF TABLE.

ST. HELENA PARISH

305300090502701 LOCAL WELL NUMBER: SH-9

OWNER: TWO-B RANCH. (SEC. 73, T. 2S., R. 4E.) DRILLED DOMESTIC AND STOCK ARTESIAN WELL IN ZONE 3 SAND OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,135 FT, SCREENED 2,106-2,135. MP 3/8-IN. HOLE IN TOP OF WELL SEAL, 1.28 FT ABOVE LSD.
 LSD 165 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 54.56 BELOW LSD, SEP. 13, 1960.
 LOWEST WATER LEVEL 87.97 BELOW LSD, JAN. 30, 1989.
 RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	84.93	APR. 1, 1991	84.74	JULY 2, 1991	84.08	SEP. 10, 1991	84.65
JAN. 8, 1991	84.04						

ST. JAMES PARISH

300024090433501 LOCAL WELL NUMBER: SJ-86

OWNER: RICHARD J. BRAZAN. (SEC. 20, T. 12S., R. 17E.) DRILLED UNUSED ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 3 IN., DEPTH 290 FT, SCREENED 280-290. MP TOP OF 2-IN. NIPPLE EXTENDING FROM TOP OF CASING COLLAR, 1.44 FT ABOVE LSD.
 LSD 18.3 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 3.76 BELOW LSD, MAY 8, 1991.
 LOWEST WATER LEVEL 19.00 BELOW LSD, OCT. 31, 1963.
 RECORDS AVAILABLE 1960-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	15.72	FEB. 28, 1991	7.23	MAY 8, 1991	3.76	AUG. 21, 1991	15.68

300445090520301 LOCAL WELL NUMBER: SJ-203

OWNER: RIVER ROAD FARM SUPPLY CO. (SEC. 38, T. 11S., R. 3E.) DRILLED INDUSTRIAL ARTESIAN WELL IN THE NORCO AQUIFER OF PLEISTOCENE AGE, DIAM 18 TO 10 IN., DEPTH 444 FT, SCREENED 384-444. MP TOP OF CASING, 0.65 FT ABOVE LSD.
 LSD 19 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 2.57 BELOW LSD, MAY 8, 1991.
 LOWEST WATER LEVEL 18.74 BELOW LSD, MAR. 29, 1988.
 RECORDS AVAILABLE 1975, 1985-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	14.52	FEB. 28, 1991	5.99	MAY 8, 1991	2.57	AUG. 21, 1991	15.06

ST. JOHN THE BAPTIST PARISH

300234090390301 LOCAL WELL NUMBER: SJB-145

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 18, T. 12S., R. 18E.) DRILLED OBSERVATION ARTESIAN WELL IN GRAMERCY AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 2 IN., DEPTH 315 FT, SCREENED 305-315. MP TOP OF 4-IN. CAP, 2.60 FT ABOVE LSD.
 LSD 17.71 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 3.91 BELOW LSD, MAY 17, 1973.
 LOWEST WATER LEVEL 21.34 BELOW LSD, JAN. 13, 1964.
 RECORDS AVAILABLE 1962-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	19.03	FEB. 28, 1991	8.46	MAY 8, 1991	4.59	AUG. 21, 1991	19.56

301247090245901 LOCAL WELL NUMBER: SJB-165

OWNER: CONSOLIDATED WW DIST NO. 1. (SEC. 5, T. 10S., R. 8E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN COVINGTON AQUIFER OF PLEISTOCENE AGE, DIAM 12 TO 8 IN., DEPTH 3,000 FT, SCREENED 2,900-3,000. MP CENTER LINE OF SAMPLE FAUCET, 3.40 FT ABOVE LSD.
 LSD 6.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 94.80 ABOVE LSD, SEP. 23, 1974.
 LOWEST WATER LEVEL 60.40 ABOVE LSD, SEP. 27, 1990.
 RECORDS AVAILABLE 1974, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1990	+62.90	APR. 2, 1991	+61.20	SEP. 6, 1991	+63.40	SEP. 24, 1991	+63.70
JAN. 15, 1991	+64.40	JULY 9,	+64.20				

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

ST. JOHN THE BAPTIST PARISH--Continued

301336090244101 LOCAL WELL NUMBER: SJB-176

OWNER: ST JOHN THE BAPTIST PARISH. (SEC. 33, T. 9S., R. 8E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN COVINGTON AQUIFER OF PLIOCENE AGE, DIAM 16 TO 10 IN., DEPTH 2,950 FT, SCREENED 2,822-2,950. MP CENTER LINE OF SAMPLE FAUCET, 2.94 FT ABOVE LSD.
 LSD 5.4 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 72.19 ABOVE LSD, SEP. 16, 1985.
 LOWEST WATER LEVEL 58.40 ABOVE LSD, NOV. 13, 1990.
 RECORDS AVAILABLE 1985, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 13, 1990	+58.40	APR. 2, 1991	+60.40	SEP. 6, 1991	+60.90	SEP. 24, 1991	+62.40
JAN. 15, 1991	+61.90	JULY 9,	+60.40				

ST. LANDRY PARISH

304116092083601 LOCAL WELL NUMBER: SL-179

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 40, T. 4S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 1 1/4 IN., DEPTH 94 FT, SCREENED 91-94. MP TOP OF 1 1/4-IN. PIPE, 4.00 FT ABOVE LSD.
 LSD 55.23 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 45.23 BELOW LSD, APR. 28, 1958.
 LOWEST WATER LEVEL 57.99 BELOW LSD, OCT. 17, 1984.
 RECORDS AVAILABLE 1958-72, 1974-79, 1981-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 22, 1990	55.38	JAN. 30, 1991	55.16	APR. 19, 1991	55.04	JULY 18, 1991	54.96

304342092071201 LOCAL WELL NUMBER: SL-551

OWNER: DEPT. OF TRANSPORTATION AND DEVELOPMENT. (SEC. 12, T. 4S., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN EVANGELINE AQUIFER OF PLIOCENE-MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 391 FT, SCREENED 370-391. MP TOP OF 4 IN. PIPE, 3.30 FT ABOVE LSD. WELL PLUGGED APR. 23, 1991.
 LSD 30 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 27.00 BELOW LSD, MAY 2, 1991.
 LOWEST WATER LEVEL 27.00 BELOW LSD, MAY 2, 1991.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 2, 1991	27.00						

304342092071202 LOCAL WELL NUMBER: SL-552

OWNER: DEPT. OF TRANSPORTATION AND DEVELOPMENT. (SEC. 12, T. 4S., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4, DEPTH 124 FT, SCREENED 104-124. MP TOP OF 4-IN. PIPE, 3.30 FT ABOVE LSD. WELL PLUGGED APR. 23, 1991.
 LSD 30 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 33.00 BELOW LSD, MAY 17, 1991.
 LOWEST WATER LEVEL 33.00 BELOW LSD, MAY 17, 1991.
 RECORDS AVAILABLE CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 17, 1991	33.00						

ST. MARTIN PARISH

301304091424001 LOCAL WELL NUMBER: SMN-108

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 9S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 505 FT, SCREENED 500-505. MP TOP OF 2-IN. CASING, 3.0 FT ABOVE LSD.
 LSD 11.34 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 3.54 ABOVE LSD, APR. 13, 1973.
 LOWEST WATER LEVEL 9.13 BELOW LSD, NOV. 11, 1987.
 RECORDS AVAILABLE 1965-73, 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 1, 1991	.37						

SEE FOOTNOTES AT END OF TABLE.

ST. MARTIN PARISH--Continued

301304091424002 LOCAL WELL NUMBER: SMN-109

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 9S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 375 FT, SCREENED 370-375. MP TOP OF 2-IN. CASING, 2.40 FT ABOVE LSD.
 LSD 11.34 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 2.94 ABOVE LSD, FEB. 27, 1974.
 LOWEST WATER LEVEL 10.38 BELOW LSD, NOV. 11, 1987.
 RECORDS AVAILABLE 1965-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 22, 1990	8.59	APR. 19, 1991	2.08	MAY 1, 1991	.39	JULY 19, 1991	3.68
FEB. 5, 1991	1.55						

300947091472102 LOCAL WELL NUMBER: SMN-134B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 47, T. 10S., R. 7E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 846 FT, SCREENED 836-846. MP TOP OF 2-IN. CASING, 3.50 FT ABOVE LSD.
 LSD 20 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 10.42 BELOW LSD, JUNE 4, 1975.
 LOWEST WATER LEVEL 17.50 BELOW LSD, OCT. 22, 1990.
 RECORDS AVAILABLE 1975-79, 1981, 1983, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 22, 1990	17.50	FEB. 5, 1991	15.76	APR. 19, 1991	16.87	JULY 19, 1991	14.06

ST. MARY PARISH

294749091402301 LOCAL WELL NUMBER: SM-57U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 27, T. 14S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 638 FT, SCREENED 628-638. MP TOP OF 1 1/2-IN. PIPE, 1.66 FT ABOVE LSD.
 LSD 8.72 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.40 BELOW LSD, APR. 15, 1965.
 LOWEST WATER LEVEL 10.25 BELOW LSD, DEC. 20, 1976.
 RECORDS AVAILABLE 1964-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 30, 1991	8.08						

ST. TAMMANY PARISH

302055090014601 LOCAL WELL NUMBER: ST-12

OWNER: LOUISIANA OFFICE OF STATE PARKS. (SEC. 37, T. 8S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN BIG BRANCH AQUIFER (ZONE 1) OF PLEISTOCENE AGE, DIAM 6 IN., DEPTH 1,525 FT, SCREENED INTERVAL UNKNOWN. MP CENTER LINE OF 4-IN. TEE, 2.30 FT BELOW LSD.
 LSD 10 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 55.90 ABOVE LSD, JULY 25, 1940.
 LOWEST WATER LEVEL 23.40 ABOVE LSD, JULY 14, 1989.
 RECORDS AVAILABLE 1939-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 16, 1990	+26.70	APR. 2, 1991	+26.20	JULY 3, 1991	+26.20	SEP. 10, 1991	+26.00
JAN. 9, 1991	+26.40						

301536089470501 LOCAL WELL NUMBER: ST-563

OWNER: CITY OF SLIDELL. (SEC. 15, T. 9S., R. 14E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SLIDELL AQUIFER (ZONE 2) OF PLEISTOCENE AGE, DIAM 10 IN., DEPTH 2,411 FT, SCREENED 2,262-2,411. MP CENTER LINE OF FAUCET ON TEE AT WELL HEAD, 4.40 FT ABOVE LSD.
 LSD 10.24 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 118.90 ABOVE LSD, JUNE 12, 1958.
 LOWEST WATER LEVEL 54.50 ABOVE LSD, OCT. 9, 1985.
 RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 16, 1990	+57.90	APR. 2, 1991	+57.20	JULY 3, 1991	+56.00	SEP. 11, 1991	+57.50
JAN. 9, 1991	+57.00						

SEE FOOTNOTES AT END OF TABLE.

ST. TAMMANY PARISH--Continued

301920089560801 LOCAL WELL NUMBER: ST-576

OWNER: HOLY REDEEMER COLLEGE. (SEC. 43, T. 8S., R. 13E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SLIDELL AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 7 IN., DEPTH 2,334 FT, SCREENED 2,238-2,334. MP CENTER LINE OF FAUCET ON DISCHARGE LINE, 2.00 FT ABOVE LSD.
 LSD 17 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 108.00 ABOVE LSD, FEB. 23, 1961.
 LOWEST WATER LEVEL 52.50 ABOVE LSD, OCT. 16, 1990.
 RECORDS AVAILABLE 1961, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 16, 1990	+52.50	APR. 2, 1991	+53.50	JULY 3, 1991	+54.80	SEP. 10, 1991	+53.00
JAN. 9, 1991	+53.50						

301838089485002 LOCAL WELL NUMBER: ST-776

OWNER: LOUISIANA NATIONAL GUARD. (SEC. 32, T. 8S., R. 14E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN LOWER PONCHATOULA AQUIFER (ZONE 1) OF PLIOCENE AGE, DIAM 8 TO 4 IN., DEPTH 887 FT, SCREENED 862-887. MP TOP OF CASING, 3.10 FT ABOVE LSD.
 LSD 16 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 9.60 ABOVE LSD, APR. 2, 1991.
 LOWEST WATER LEVEL 4.70 ABOVE LSD, OCT. 16, 1990.
 RECORDS AVAILABLE 1982, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 16, 1990	+4.70	APR. 2, 1991	+9.60	JULY 3, 1991	+5.00	SEP. 10, 1991	+6.60
JAN. 9, 1991	+5.50						

TANGIPAHOA PARISH

304550090304101 LOCAL WELL NUMBER: TA-260

OWNER: TOWN OF ROSELAND. (SEC. 28, T. 3S., R. 7E.) DRILLED UNUSED PUBLIC-SUPPLY ARTESIAN WELL IN AMITE AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 4 IN., DEPTH 2,013 FT, SCREENED 1,951-2,013. MP TOP OF 3/4-IN. VALVE, 3.65 FT ABOVE LSD.
 LSD 130.86 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 34.65 ABOVE LSD, MAY 5, 1953.
 LOWEST WATER LEVEL 30.77 BELOW LSD, SEP. 10, 1991.
 RECORDS AVAILABLE 1953-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	30.37	APR. 1, 1991	30.45	JULY 3, 1991	29.82	SEP. 10, 1991	30.77
JAN. 8, 1991	30.69						

302957090274001 LOCAL WELL NUMBER: TA-268

OWNER: CITY OF HAMMOND. (SEC. 25, T. 6S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN HAMMOND AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 8 IN., DEPTH 2,449 FT, SCREENED 2,365-2,449. MP CENTER LINE OF FAUCET ON DISCHARGE LINE, 2.70 FT ABOVE LSD.
 LSD 35 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 120.60 ABOVE LSD, JAN. 25, 1957.
 LOWEST WATER LEVEL 14.30 ABOVE LSD, OCT. 18, 1988.
 RECORDS AVAILABLE 1957-85, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	+18.90	APR. 2, 1991	+23.30	JULY 9, 1991	+20.90	SEP. 11, 1991	+16.50
JAN. 9, 1991	+22.80						

302519090311401 LOCAL WELL NUMBER: TA-273

OWNER: DOMINICAN SISTERS CONVENT. (SEC. 44, T. 7S., R. 7E.) DRILLED DOMESTIC ARTESIAN WELL IN TCHEFUNCTA AQUIFER (ZONE 2) OF MIOCENE AGE, DIAM 3 IN., DEPTH 2,329 FT, SCREENED 2,289-2,329. MP CENTER LINE OF TEE, 2.50 FT ABOVE LSD.
 LSD 11 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 127.20 ABOVE LSD, APR. 12, 1960, MAY 17, 1960.
 LOWEST WATER LEVEL 81.50 ABOVE LSD, SEP. 14, 1989.
 RECORDS AVAILABLE 1960-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	+83.50	APR. 3, 1991	+84.00	JULY 9, 1991	+83.20	SEP. 11, 1991	+83.30
JAN. 14, 1991	+84.00						

SEE FOOTNOTES AT END OF TABLE.

TANGIPAHOA PARISH--Continued

303420090221701 LOCAL WELL NUMBER: TA-278

OWNER: RAY DUNNINGTON. (SEC. 35, T. 5S., R. 8E.) DRILLED DOMESTIC AND STOCK ARTESIAN WELL IN COVINGTON AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN., DEPTH 1,430 FT, SCREENED 1,410-1,430. MP TOP OF CASING, 2.00 FT ABOVE LSD.
 LSD 52 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 87.80 ABOVE LSD, JAN. 14, 1961.
 LOWEST WATER LEVEL 57.00 ABOVE LSD, OCT. 31, 1989, OCT. 17, 1990.
 RECORDS AVAILABLE 1961, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	+57.00	APR. 1, 1991	+57.60	JULY 9, 1991	+58.10	SEP. 11, 1991	+57.50
JAN. 8, 1991	+57.20						

303104090335901 LOCAL WELL NUMBER: TA-343

OWNER: HAMMOND STATE SCHOOL. (SEC. 24, T. 6S., R. 6E.) DRILLED INSTITUTIONAL ARTESIAN WELL IN HAMMOND AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 8 IN., DEPTH 2,442 FT, SCREENED 2,402-2,442. MP CENTER LINE OF FAUCET ON BEND OF 8-IN. PIPE, 1.83 FT ABOVE LSD.
 LSD 42 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 87.43 ABOVE LSD, MAY 19, 1969.
 LOWEST WATER LEVEL 36.30 ABOVE LSD, SEP. 11, 1991.
 RECORDS AVAILABLE 1969, 1988-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1990	+39.00	APR. 3, 1991	+40.80	JULY 10, 1991	+38.70	SEP. 11, 1991	+36.30
JAN. 9, 1991	+40.60						

305434090264201 LOCAL WELL NUMBER: TA-440

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 47, T. 2S., R. 8E.) DRILLED OBSERVATION ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 2 IN., DEPTH 603 FT, SCREENED 593-603. MP TOP OF 2-IN. GALV. PIPE, 2.15 FT ABOVE LSD.
 LSD 220 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 1.61 BELOW LSD, SEP. 24, 1975.
 LOWEST WATER LEVEL 7.22 BELOW LSD, OCT. 23, 1986.
 RECORDS AVAILABLE 1975-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	3.85	APR. 1, 1991	4.50	JULY 2, 1991	3.99	SEP. 10, 1991	4.16
JAN. 8, 1991	4.49						

305604090312101 LOCAL WELL NUMBER: TA-454

OWNER: TOWN OF KENTWOOD. (SEC. 29, T. 1S., R. 7E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN KENTWOOD AQUIFER (ZONE 2) OF PLIOCENE AGE, DIAM 12 IN., DEPTH 720 FT, SCREENED 640-720. MP TOP OF 3/8-IN. BREATHER PIPE, 2.24 FT ABOVE LSD.
 LSD 260 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 72.17 BELOW LSD, APR. 1, 1991.
 LOWEST WATER LEVEL 84.41 BELOW LSD, JULY 2, 1990.
 RECORDS AVAILABLE 1983, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 17, 1990	78.52	APR. 1, 1991	72.17	JULY 3, 1991	79.79	SEP. 10, 1991	78.54
JAN. 8, 1991	77.57						

TENSAS PARISH

320431091144801 LOCAL WELL NUMBER: TS-8

OWNER: E.R. McDONALD. (SEC. 4, T. 13N., R. 12E.) DRILLED UNUSED SEMI-ARTESIAN WELL IN THE MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 12 IN., DEPTH 110 FT, SCREENED 80-110. MP TOP OF CASING, 1.00 FT ABOVE LSD.
 LSD 79.6 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 2.05 BELOW LSD, MAY 30, 1979.
 LOWEST WATER LEVEL 17.78 BELOW LSD, JUNE 11, 1987.
 RECORDS AVAILABLE 1955-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	14.35	JAN. 3, 1991	13.34	APR. 23, 1991	9.51	JULY 16, 1991	12.84

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

UNION PARISH

324417092090001 LOCAL WELL NUMBER: UN-26

OWNER: MANVILLE FOREST PRODUCTS. (SEC. 10, T. 20N., R. 3E.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 8 IN., DEPTH 745 FT, SCREENED 670-745. MP 3/4-IN. HOLE IN TOP OF WELL COVER, 1.90 FT ABOVE LSD.
 LSD 133.92 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 141.11 BELOW LSD, JULY 26, 1959,
 LOWEST WATER LEVEL 180.42 BELOW LSD, DEC. 10, 1981.
 RECORDS AVAILABLE 1956-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1990	178.30	JAN. 4, 1991	178.23	APR. 24, 1991	177.15	JULY 15, 1991	177.33

VERMILION PARISH

295031092203202 LOCAL WELL NUMBER: VE-630U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 10, T. 14S., R. 1E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 IN., DEPTH 498 FT, SCREENED 488-498. MP TOP OF 2-IN. CASING, 2.00 FT ABOVE LSD.
 LSD 4.75 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 7.15 BELOW LSD, MAR. 5, 1968,
 LOWEST WATER LEVEL 14.99 BELOW LSD, SEP. 7, 1990.
 RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 30, 1991	9.36						

295345092100703 LOCAL WELL NUMBER: VE-637L

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 15, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN., DEPTH 243 FT, SCREENED 233-243. MP TOP OF 1-IN. PIPE, 2.66 FT ABOVE LSD.
 LSD 4.06 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 8.10 BELOW LSD, FEB. 24, 1966,
 LOWEST WATER LEVEL 15.11 BELOW LSD, JUNE 25, 1970.
 RECORDS AVAILABLE 1964-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 30, 1991	10.12						

295345092100702 LOCAL WELL NUMBER: VE-637U

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 15, T. 13S., R. 3E.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 4 TO 1 IN., DEPTH 198 FT, SCREENED 188-198. MP TOP OF 1-IN. PIPE, 2.66 FT ABOVE LSD.
 LSD 4.06 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 7.99 BELOW LSD, FEB. 24, 1966,
 LOWEST WATER LEVEL 13.51 BELOW LSD, JUNE 9, 1971.
 RECORDS AVAILABLE 1964-83, 1985, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 22, 1990	12.04	APR. 19, 1991	9.72	APR. 30, 1991	9.95	JULY 19, 1991	9.24
JAN. 30, 1991	9.91						

293845092264901 LOCAL WELL NUMBER: VE-639

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 16S., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN CHICOT AQUIFER OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 608 FT, SCREENED 603-608. MP TOP OF 2-IN. CASING, 3.00 FT ABOVE LSD.
 LSD 5.84 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 6.22 BELOW LSD, OCT. 20, 1965,
 LOWEST WATER LEVEL 9.65 BELOW LSD, OCT. 29, 1976.
 RECORDS AVAILABLE 1965-79, 1981, 1983-85, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 29, 1991	7.98						

SEE FOOTNOTES AT END OF TABLE.

VERNON PARISH

310251093125501 LOCAL WELL NUMBER: V-108

OWNER: U.S. ARMY, FORT POLK. (SEC. 20, T. 1N., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 8 IN., DEPTH 675 FT, SCREENED 640-675. MP TOP OF CASING, 1.50 FT ABOVE LSD.
 LSD 305.27 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 143.26 BELOW LSD, JULY 10, 1961.
 LOWEST WATER LEVEL 214.14 BELOW LSD, JULY 25, 1981.
 RECORDS AVAILABLE 1941, 1943, 1958-61, 1963-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1990	171.94	JAN. 5, 1991	171.76	APR. 5, 1991	171.31	JULY 10, 1991	169.80
OCT. 10	171.80	JAN. 10	171.66	APR. 10	171.43	JULY 14	169.65J
OCT. 15	170.88	JAN. 15	171.72	APR. 15	171.46	JULY 15	169.66
OCT. 20	169.66	JAN. 20	171.74	APR. 20	171.78	JULY 19	169.92H
OCT. 21	169.16J	JAN. 25	171.70	APR. 25	171.63	JULY 20	169.97
OCT. 25	169.90H	JAN. 30	171.81H	APR. 30	171.42	JULY 25	170.29
OCT. 31	170.01	JAN. 31	171.81	MAY 5	171.55	JULY 31	170.92
NOV. 5	170.08	FEB. 5	171.74	MAY 10	171.34	AUG. 5	170.90
NOV. 10	170.10	FEB. 9	172.21J	MAY 15	171.14	AUG. 10	170.79
NOV. 15	170.24	FEB. 10	172.15	MAY 20	171.19	AUG. 15	170.67
NOV. 20	170.25	FEB. 15	172.01	MAY 25	171.67	AUG. 20	170.57
NOV. 25	170.41	FEB. 20	171.75	MAY 31	171.67	AUG. 25	170.94
NOV. 28	170.70H	FEB. 25	171.55	JUNE 5	172.04	AUG. 30	171.31J
NOV. 30	170.72	FEB. 28	171.68	JUNE 10	172.28	AUG. 31	171.23
DEC. 5	170.77	MAR. 5	171.40	JUNE 13	172.56J	SEP. 5	170.81
DEC. 10	170.97	MAR. 10	171.50	JUNE 15	172.33	SEP. 10	170.62
DEC. 15	171.30	MAR. 15	171.67	JUNE 20	171.56	SEP. 15	170.53
DEC. 20	171.35	MAR. 20	171.62J	JUNE 25	171.05	SEP. 20	170.36
DEC. 25	171.74	MAR. 25	171.59	JUNE 30	170.79J	SEP. 25	170.44
DEC. 27	172.32J	MAR. 30	171.23	JULY 5	170.43	SEP. 30	170.80
DEC. 31	171.83	MAR. 31	171.43				

305850093260801 LOCAL WELL NUMBER: V-196

OWNER: LUTCHER MOORE LUMBER CO. (SEC. 18, T. 1S., R. 10W.) DRILLED IRRIGATION ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN., DEPTH 503 FT, SCREENED 450-503. MP TOP OF VENT PIPE, 2.00 FT ABOVE LSD.
 LSD 243 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 99.00 BELOW LSD, APR. 7, 1955.
 LOWEST WATER LEVEL 132.40 BELOW LSD, DEC. 10, 1987.
 RECORDS AVAILABLE 1955, 1986-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	127.18	JAN. 11, 1991	127.33	APR. 23, 1991	125.71	JULY 18, 1991	125.23

310625093133501 LOCAL WELL NUMBER: V-204

OWNER: U.S. ARMY, FORT POLK. (SEC. 31, T. 2N., R. 8W.) DRILLED UNUSED ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 18 IN., DEPTH 1,100 FT, SCREENED 1,012-1,100. MP TOP OF CASING, 1.30 FT ABOVE LSD.
 LSD 303 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 146.68 BELOW LSD, JAN. 30, 1986.
 LOWEST WATER LEVEL 159.17 BELOW LSD, OCT. 25, 1991.
 RECORDS AVAILABLE 1986-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	158.51J	JAN. 1, 1991	157.42J	APR. 5, 1991	156.08	JULY 5, 1991	156.60
OCT. 5	158.25	JAN. 5	157.28	APR. 10	155.97	JULY 10	156.29
OCT. 10	158.20	JAN. 10	157.09	APR. 15	155.81	JULY 15	156.46
OCT. 15	158.09	JAN. 15	156.80	APR. 20	156.05	JULY 19	156.74H
OCT. 20	158.03	JAN. 20	156.68	APR. 25	156.06	JULY 20	156.73
OCT. 25	159.17H	JAN. 25	156.79	APR. 30	155.99	JULY 25	156.83
OCT. 31	157.94	JAN. 31	157.05	MAY 5	155.79	JULY 31	156.76
NOV. 5	157.81	FEB. 5	156.44	MAY 8	155.71J	AUG. 5	156.93
NOV. 10	157.69	FEB. 10	156.21	MAY 10	155.82	AUG. 10	157.02J
NOV. 15	157.73	FEB. 15	156.34	MAY 15	155.86	AUG. 15	156.79
NOV. 20	157.74	FEB. 20	156.25	MAY 20	155.95	AUG. 20	156.58
NOV. 25	157.32	FEB. 25	156.08	MAY 25	156.02	AUG. 25	156.82
NOV. 28	157.09H	FEB. 28	156.00	MAY 31	156.02	AUG. 31	156.61
NOV. 30	157.19	MAR. 1	155.76H	JUNE 5	156.11	SEP. 5	156.47
DEC. 3	156.98J	MAR. 2	155.68J	JUNE 10	156.20	SEP. 10	156.44
DEC. 5	157.18	MAR. 5	155.73	JUNE 15	156.48	SEP. 15	156.55
DEC. 10	157.16	MAR. 10	156.16	JUNE 20	156.46	SEP. 20	156.46
DEC. 15	157.22	MAR. 15	155.94	JUNE 22	156.51J	SEP. 25	156.27
DEC. 20	157.42	MAR. 20	155.84	JUNE 25	156.48	SEP. 26	156.18J
DEC. 25	157.11	MAR. 25	156.00	JUNE 30	156.36	SEP. 30	156.23
DEC. 31	157.46	MAR. 31	156.09				

SEE FOOTNOTES AT END OF TABLE.

VERNON PARISH--Continued

311201093080202 LOCAL WELL NUMBER: V-426

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 36, T. 3N., R. 8W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 915 FT, SCREENED 905-915. MP TOP OF BUSHING, 2.60 FT ABOVE LSD.
 LSD 305 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 112.08 BELOW LSD, NOV. 21, 1969.
 LOWEST WATER LEVEL 143.25 BELOW LSD, APR. 23, 1991.
 RECORDS AVAILABLE 1967-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	142.95	JAN. 3, 1991	143.19	APR. 23, 1991	143.25		

311544093002502 LOCAL WELL NUMBER: V-428

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 5, T. 3N., R. 6W.) DRILLED OBSERVATION ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 2 IN., DEPTH 925 FT, SCREENED 915-925. MP TOP OF BUSHING, 2.00 FT ABOVE LSD.
 LSD 290 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 100.97 BELOW LSD, MAY 2, 1968.
 LOWEST WATER LEVEL 120.82 BELOW LSD, OCT. 24, 1990.
 RECORDS AVAILABLE 1967-80, 1983-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1990	120.82	JAN. 3, 1991	119.43	APR. 23, 1991	118.69	JULY 19, 1991	120.76

310307093120603 LOCAL WELL NUMBER: V-448

OWNER: U.S. ARMY, FORT POLK. (SEC. 21, T. 1N., R. 8W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 12 TO 6 IN., DEPTH 910 FT, SCREENED 858-910. MP TOP OF CASING, 1.00 FT ABOVE LSD.
 LSD 340 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 239.75 BELOW LSD, MAR. 18, 1985.
 LOWEST WATER LEVEL 337.00 BELOW LSD, JULY 10, 1985.
 RECORDS AVAILABLE 1985-89, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 19, 1991	263.34	AUG. 9, 1991	263.63				

310708093100904 LOCAL WELL NUMBER: V-513

OWNER: U.S. ARMY, FORT POLK. (SEC. 27, T. 2N., R. 8W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN THE CARNAHAN BAYOU MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN., DEPTH 1,275 FT, SCREENED 1,167-1,212 AND 1,245-1,275. MP TOP OF PVC DROP PIPE, 2.60 FT ABOVE LSD.
 LSD 335 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 179.20 BELOW LSD, MAR. 12, 1986.
 LOWEST WATER LEVEL 240.58 BELOW LSD, JULY 10, 1985.
 RECORDS AVAILABLE 1985-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 25, 1990	191.00	JAN. 3, 1991	190.51	APR. 24, 1991	189.02	JULY 19, 1991	188.21

310657093095005 LOCAL WELL NUMBER: V-522

OWNER: U.S. ARMY, FORT POLK. (SEC. 35, T. 2N., R. 8W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN THE WILLIAMSON CREEK MEMBER OF THE FLEMING FM. OF MIOCENE AGE, DIAM 10 IN., DEPTH 588 FT, SCREENED 528-588. MP TOP OF FLANGE, 1.00 FT ABOVE LSD.
 LSD 325 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 188.00 BELOW LSD, JULY 22, 1966.
 LOWEST WATER LEVEL 217.48 BELOW LSD, APR. 29, 1987.
 RECORDS AVAILABLE 1966, 1985-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 3, 1991	209.75	APR. 25, 1991	209.38				

SEE FOOTNOTES AT END OF TABLE.

WASHINGTON PARISH

304652089512201 LOCAL WELL NUMBER: WA-13

OWNER: GAYLORD CONTAINER CORP. (SEC. 38, T. 3S., R. 13E.) DRILLED UNUSED ARTESIAN WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 20 IN., DEPTH 156 FT, SCREENED 90-156. MP TOP EDGE OF RECORDER SHELTER SUBFLOOR, 1.30 FT ABOVE LSD.
 LSD 95 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 1.30 ABOVE LSD, FEB. 22, 1961.
 LOWEST WATER LEVEL 44.07 BELOW LSD, SEP. 22, 1958.
 RECORDS AVAILABLE 1957-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1990	8.55	APR. 2, 1991	7.46	JULY 3, 1991	9.02	SEP. 10, 1991	7.81
JAN. 8, 1991	6.26						

304612089512401 LOCAL WELL NUMBER: WA-158

OWNER: CITY OF BOGALUSA. (SEC. 38, T. 3S., R. 13E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN HAMMOND AQUIFER (ZONE 3) OF MIOCENE AGE, DIAM 12 3/4 IN., DEPTH 1,414 FT, SCREENED 1,337-1,414. MP TOP OF SANITARY SEAL, 1.63 FT ABOVE LSD.
 LSD 97 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 53.00 BELOW LSD, MAY 18, 1987.
 LOWEST WATER LEVEL 92.40 BELOW LSD, SEP. 10, 1991.
 RECORDS AVAILABLE 1987, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1990	73.49	APR. 2, 1991	84.64	JULY 3, 1991	91.75	SEP. 10, 1991	92.40
JAN. 8, 1991	77.90						

WEBSTER PARISH

325518093221901 LOCAL WELL NUMBER: WB-399

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 22N., R. 10W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 298 FT, SCREENED 288-298. MP TOP OF BUSHING, 3.50 FT ABOVE LSD.
 LSD 205 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 43.37 BELOW LSD, MAR. 11, 1987.
 LOWEST WATER LEVEL 46.34 BELOW LSD, NOV. 3, 1980.
 RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	46.10	JAN. 2, 1991	45.16	APR. 22, 1991	43.62	JULY 19, 1991	44.84

WEST BATON ROUGE PARISH

302732091121901 LOCAL WELL NUMBER: WBR-5

OWNER: CITY OF PORT ALLEN. (SEC. 66, T. 7S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 8 IN., DEPTH 1,335 FT, SCREENED 1,230-1,335. MP TOP EDGE OF 3/8-IN. HOLE IN 8-IN. PLUG IN TEE ATOP CASING, 3.60 FT ABOVE LSD.
 LSD 27 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 36.10 ABOVE LSD, JUNE 21, 1943.
 LOWEST WATER LEVEL 112.62 BELOW LSD, AUG. 15, 1974.
 RECORDS AVAILABLE 1943-46, 1949-50, 1954-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	84.18	JAN. 16, 1991	73.17	APR. 4, 1991	77.25	JULY 11, 1991	82.22

302546091131402 LOCAL WELL NUMBER: WBR-97B

OWNER: MRS. HUGHES. (SEC. 70, T. 7S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("1,500-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,200 FT, SCREENED 2,170-2,200. MP TOP EDGE OF 1/2-IN. HOLE IN CAP, 0.92 FT ABOVE LSD.
 LSD 17 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 26.50 ABOVE LSD, JULY 22, 1964.
 LOWEST WATER LEVEL 72.08 BELOW LSD, FEB. 20, 1985.
 RECORDS AVAILABLE 1964-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	52.41	JAN. 16, 1991	46.38	APR. 3, 1991	44.46	JULY 11, 1991	38.66

SEE FOOTNOTES AT END OF TABLE.

WEST BATON ROUGE PARISH--Continued

302652091121401 LOCAL WELL NUMBER: WBR-100A

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 68, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,888 FT, SCREENED 1,884-1,888. MP TOP OF 4-IN. CASING, 1.50 FT ABOVE LSD.
 LSD 29 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 58.30 BELOW LSD, MAY 6, 1966.
 LOWEST WATER LEVEL 129.12 BELOW LSD, DEC. 20, 1976.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	101.97	JAN. 16, 1991	106.77	APR. 4, 1991	105.23	JULY 11, 1991	109.65

302652091121402 LOCAL WELL NUMBER: WBR-100B

OWNER: U.S. GEOLOGICAL SURVEY. (IRREG. SEC. 68, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,448 FT, SCREENED 2,444-2,448. MP TOP OF 2-IN. CASING, 2.06 FT ABOVE LSD.
 LSD 29 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 87.97 BELOW LSD, MAY 17, 1966.
 LOWEST WATER LEVEL 169.38 BELOW LSD, OCT. 23, 1980.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	145.53	JAN. 16, 1991	142.38	APR. 4, 1991	134.43	JULY 11, 1991	133.08

302806091172601 LOCAL WELL NUMBER: WBR-102A

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 7, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLIOCENE AGE, DIAM 4 IN., DEPTH 1,288 FT, SCREENED 1,284-1,288. MP TOP OF 4-IN. CASING, 1.71 FT ABOVE LSD.
 LSD 18 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 40.69 BELOW LSD, JAN. 16, 1991.
 LOWEST WATER LEVEL 62.37 BELOW LSD, OCT. 26, 1972.
 RECORDS AVAILABLE 1966-88, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	48.82	JAN. 16, 1991	40.69	APR. 4, 1991	42.64	JULY 11, 1991	45.44

302806091172602 LOCAL WELL NUMBER: WBR-102B

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 7, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 TO 2 1/2 IN., DEPTH 2,100 FT, SCREENED 2,096-2,100. MP TOP OF 2-IN. CASING, 2.07 FT ABOVE LSD.
 LSD 18 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 63.89 BELOW LSD, APR. 22, 1966.
 LOWEST WATER LEVEL 189.22 BELOW LSD, SEP. 25, 1973.
 RECORDS AVAILABLE 1966-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	156.69	JAN. 16, 1991	155.36	APR. 4, 1991	156.72	JULY 11, 1991	154.12

302703091133703 LOCAL WELL NUMBER: WBR-106

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 93, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 2 IN., DEPTH 2,017 FT, SCREENED 2,012-2,017. MP TOP EDGE OF 3/4-IN. AIR LINE (REMOVE CASING EXTENSION), 2.08 FT ABOVE LSD.
 LSD 22 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 166.62 BELOW LSD, JULY 28, 1966.
 LOWEST WATER LEVEL 288.20 BELOW LSD, NOV. 8, 1973.
 RECORDS AVAILABLE 1966-88, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	222.38	JAN. 16, 1991	221.80	APR. 4, 1991	220.31	JULY 11, 1991	215.47

SEE FOOTNOTES AT END OF TABLE.

WEST BATON ROUGE PARISH--Continued

302550091124101 LOCAL WELL NUMBER: WBR-111

OWNER: CITY OF PLAQUEMINE. (SEC. 70, T. 7S., R. 12E.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,000-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 16 TO 10 TO 8 IN., DEPTH 2,650 FT, SCREENED 2,610-2,650. MP TOP OF 8-IN. CASING, 1.35 FT ABOVE LSD.
 LSD 25 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 43.50 ABOVE LSD, JAN. 15, 1970.
 LOWEST WATER LEVEL 37.70 BELOW LSD, MAY 17, 1971.
 RECORDS AVAILABLE 1970-71, 1974, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	+19.00	JAN. 17, 1991	+21.40	APR. 3, 1991	+18.80	JULY 11, 1991	+17.20

302853091150201 LOCAL WELL NUMBER: WBR-146

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 119, T. 7S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("400-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 1/2 IN., DEPTH 472 FT, SCREENED 462-472. MP TOP OF 2 1/2-IN. COLLAR, AT LSD.
 LSD 25 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 10.54 ABOVE LSD, APR. 27, 1979.
 LOWEST WATER LEVEL 20.60 BELOW LSD, OCT. 24, 1988.
 RECORDS AVAILABLE 1977-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	13.80	JAN. 17, 1991	+6.95	APR. 4, 1991	+1.90	JULY 11, 1991	8.40

302702091185101 LOCAL WELL NUMBER: WBR-148

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 23, T. 7S., R. 11E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("1,200-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 1/2 IN., DEPTH 1,304 FT, SCREENED 1,294-1,304. MP TOP OF 2 1/2-IN. CASING, AT LSD.
 LSD 14 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 36.21 BELOW LSD, JAN. 16, 1991.
 LOWEST WATER LEVEL 53.42 BELOW LSD, JAN. 18, 1979.
 RECORDS AVAILABLE 1978-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	42.95	JAN. 16, 1991	36.21	APR. 4, 1991	37.13	JULY 11, 1991	39.65

302958091124801 LOCAL WELL NUMBER: WBR-160

OWNER: WEST BATON ROUGE GAS AND WATER SYSTEM. (SEC. 50, T. 6S., R. 12E.) DRILLED UNUSED ARTESIAN WELL IN SAND ("800-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 4 IN., DEPTH 840 FT, SCREENED 830-840. MP 1/2-IN. HOLE IN TOP OF CAP, 2.40 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 47.10 BELOW LSD, JULY 15, 1980.
 LOWEST WATER LEVEL 112.70 BELOW LSD, OCT. 9, 1981.
 RECORDS AVAILABLE 1980-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	68.59	JAN. 16, 1991	58.56	APR. 4, 1991	59.75	JULY 11, 1991	71.37

302958091124802 LOCAL WELL NUMBER: WBR-161

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 50, T. 6S., R. 12E.) DRILLED OBSERVATION ARTESIAN WELL IN SAND ("600-FT" SAND OF BATON ROUGE AREA) OF PLEISTOCENE AGE, DIAM 2 IN., DEPTH 650 FT, SCREENED 640-650. MP HOLE IN TOP OF CAP, 2.00 FT ABOVE LSD.
 LSD 26 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 19.86 BELOW LSD, JULY 5, 1990.
 LOWEST WATER LEVEL 63.75 BELOW LSD, SEP. 19, 1979.
 RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 2, 1990	29.19	JAN. 16, 1991	26.05	APR. 4, 1991	22.71	JULY 11, 1991	23.02

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

WEST CARROLL PARISH

324508091252301 LOCAL WELL NUMBER: WC-36

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 20N., R. 10E.) DRILLED OBSERVATION ARTESIAN WELL IN THE COCKFIELD FM. OF EOCENE AGE, DIAM 4 TO 2 IN., DEPTH 383 FT, SCREENED 377-383. MP TOP OF CASING COLLAR, 1.10 FT ABOVE LSD.
 LSD 106.35 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 28.13 BELOW LSD, MAR. 19, 1963,
 LOWEST WATER LEVEL 32.39 BELOW LSD, MAR. 9, 1971, SEP. 7, 1972.
 RECORDS AVAILABLE 1955-82, 1984-87, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN. 3, 1991	30.44	APR. 24, 1991	29.85	JULY 18, 1991	30.70		

324508091252302 LOCAL WELL NUMBER: WC-230

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 2, T. 20N., R. 10E.) DRILLED OBSERVATION ARTESIAN IN MISSISSIPPI RIVER ALLUVIAL AQUIFER OF PLEISTOCENE AGE, DIAM 2 TO 1 1/4 IN., DEPTH 87 FT, SCREENED 84-87. MP TOP OF CASING, 3.0 FT ABOVE LSD.
 LSD 120.0 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 28.19 BELOW LSD, JULY 17, 1991,
 LOWEST WATER LEVEL 30.34 BELOW LSD, OCT. 3, 1990.
 RECORDS AVAILABLE 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1990	30.43	JAN. 3, 1991	30.30	APR. 24, 1991	30.04	JULY 18, 1991	29.72

WEST FELICIANA PARISH

305643091341201 LOCAL WELL NUMBER: WF-22D

OWNER: LOUISIANA STATE PENITENTIARY. (SEC. 53, T. 1S., R. 5W.) DRILLED UNUSED ARTESIAN WELL IN ZONE 3 AQUIFER OF MIOCENE AGE, DIAM 12 TO 8 IN., DEPTH 907 FT, SCREENED 847-907. MP (FLOWING CONDITIONS) TOP OF IRON COVER PLATE, 0.50 FT ABOVE LSD.
 LSD 60 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 15.90 ABOVE LSD, APR. 3, 1959,
 LOWEST WATER LEVEL 11.29 BELOW LSD, OCT. 25, 1988.
 RECORDS AVAILABLE 1956, 1958-88, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	7.53	FEB. 11, 1991	8.45	JUNE 18, 1991	7.53	AUG. 5, 1991	7.15

305633091341601 LOCAL WELL NUMBER: WF-40

OWNER: LOUISIANA STATE PENITENTIARY. (SEC. 24, T. 1S., R. 5W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN ZONE 2 AQUIFER OF PLIOCENE-MIOCENE AGE, DIAM 12 IN., REPORTED DEPTH 632 FT, SCREENED 549-632. MP TOP INSIDE EDGE OF 2-IN. ELBOW ATOP CASING, 2.85 FT ABOVE LSD.
 LSD 50 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 23.90 ABOVE LSD, MAY 8, 1958,
 LOWEST WATER LEVEL 11.32 BELOW LSD, OCT. 10, 1990.
 RECORDS AVAILABLE 1956, 1958-59, 1963-88, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	11.32	FEB. 11, 1991	9.32	JUNE 18, 1991	11.22	AUG. 5, 1991	10.37

304844091204101 LOCAL WELL NUMBER: WF-158

OWNER: G.A. DANIEL. (SEC. 80, T. 3S., R. 2W.) DRILLED UNUSED WATER-TABLE WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 2 IN., DEPTH 156 FT, SCREENED 146-156. MP TOP OF 2-IN. CASING, 0.50 FT ABOVE LSD. PRIOR TO JUNE 8, 1991, MP TOP OF AIRLINE, 1.20 FT ABOVE LSD.
 LSD 198 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 96.36 BELOW LSD, JUNE 8, 1991
 LOWEST WATER LEVEL 102.23 BELOW LSD, AUG. 5, 1991.
 RECORDS AVAILABLE 1958, 1976-78, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 6 1976	99.73	JUNE 15, 1976	99.35	DEC. 28, 1976	100.13	APR. 28, 1978	100.25
MAY 17	99.49	JUNE 29	99.04	MAR. 17, 1977	100.45	NOV. 1, 1990	97.14
MAY 20	99.43	JULY 14	99.56	JULY 13	100.49	DEC. 20	97.24
MAY 28	99.59	SEP. 8	99.74	NOV. 1	100.46	JUNE 8, 1991	96.36
JUNE 4	99.39	OCT. 29	99.95	FEB. 3, 1978	100.85	AUG. 5	102.23

SEE FOOTNOTES AT END OF TABLE.

WEST FELICIANA PARISH--Continued

304935091221001 LOCAL WELL NUMBER: WF-188

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 69, T. 2S., R. 3W.) DRILLED OBSERVATION WATER-TABLE WELL IN UPLAND TERRACE DEPOSITS OF QUATERNARY AGE, DIAM 1 1/4 IN., DEPTH 55 FT, SCREENED 52-55. MP TOP OF 1 1/4-IN. CASING, 0.20 FT ABOVE LSD.
 LSD 117 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 11.72 BELOW LSD, JUNE 7, 1990.
 LOWEST WATER LEVEL 16.68 BELOW LSD, JULY 9, 1963.
 RECORDS AVAILABLE 1960-88, 1990.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	12.49	DEC. 20, 1990	13.00				

304704091223801 LOCAL WELL NUMBER: WF-222

OWNER: TOWN OF ST. FRANCISVILLE. (SEC. 68, T. 3S., R. 3W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN SAND ("2,400-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 12 IN., DEPTH 1,526 FT, SCREENED 1,446-1,526. MP PLUG ON FLANGE, 1.23 FT ABOVE LSD.
 LSD 140 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 59.64 BELOW LSD, APR. 16, 1962.
 LOWEST WATER LEVEL 133.95 BELOW LSD, JAN. 27, 1982.
 RECORDS AVAILABLE 1961-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1990	113.69	FEB. 11, 1991	115.54	AUG. 5, 1991	111.86		

304933091224201 LOCAL WELL NUMBER: WF-254

OWNER: WEST FELICIANA PARISH SCHOOL BOARD. (SEC. 68, T. 2S., R. 3W.) DRILLED INSTITUTIONAL ARTESIAN WELL IN SAND ("1,700-FT" SAND OF BATON ROUGE AREA) OF MIOCENE AGE, DIAM 4 IN., DEPTH 793 FT, SCREENED INTERVAL UNKNOWN. MP TOP OF CASING, 0.80 FT ABOVE LSD.
 LSD 155 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 102.01 ABOVE LSD, JUNE 18, 1991.
 LOWEST WATER LEVEL 104.14 BELOW LSD, AUG. 5, 1991.
 RECORDS AVAILABLE 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 26, 1990	103.66	DEC. 20, 1990	103.58	JUNE 18, 1991	102.01	AUG. 5, 1991	104.14

304958091191801 LOCAL WELL NUMBER: WF-274

OWNER: WEST FELICIANA PARISH WATERWORKS DISTRICT 13. (SEC. 44, T. 2S, R. 2W) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN ZONE 3 AQUIFER OF MIOCENE AGE, DIAM 10 IN., DEPTH 1,630 FT, SCREENED 1,590-1,630. MP EDGE OF BREATHER PIPE, 2.9 FT ABOVE LSD.
 LSD 220 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 200.98 ABOVE LSD, JUNE 18, 1991.
 LOWEST WATER LEVEL 207.24 BELOW LSD, AUG. 5, 1991.
 RECORDS AVAILABLE 1982, 1990-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 13, 1982	202.05R	DEC. 20, 1990	205.80	JUNE 18, 1991	200.98	AUG. 5, 1991	207.24
NOV. 1, 1990	205.35						

305547091202301 LOCAL WELL NUMBER: WF-286

OWNER: WEST FELICIANA PARISH WATERWORKS DISTRICT 13. (SEC. 83, T. 1S, R. 2W) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN ZONE 2 AQUIFER OF PLIOCENE-MIOCENE AGE, DIAM 10 TO 8 IN., DEPTH 982 FT, SCREENED 912-930 AND 940-982. MP EDGE OF BREATHER PIPE, W. SIDE, 1.9 FT ABOVE LSD. PRIOR TO DEC. 20, 1990, MP EDGE OF BREATHER PIPE E. SIDE, 1.65 FT ABOVE LSD.
 LSD 290 FT ABOVE NGVD.
 HIGHEST WATER LEVEL 234.00 BELOW LSD, SEP. 26, 1987.
 LOWEST WATER LEVEL 253.86 BELOW LSD, AUG. 5, 1991.
 RECORDS AVAILABLE 1987, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP. 26, 1987	234.00R	DEC. 20, 1990	242.57	JUNE 18, 1991	250.35	AUG. 5, 1991	253.86
NOV. 1, 1990	250.14						

SEE FOOTNOTES AT END OF TABLE.

GROUND-WATER LEVELS

WINN PARISH

315525092375601 LOCAL WELL NUMBER: W-16

OWNER: CITY OF WINNFELD. (SEC. 24, T. 11N., R. 3W.) DRILLED UNUSED ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 8 IN., DEPTH 583 FT, SCREENED 553-583. MP TOP OF BUSHING, 0.20 FT ABOVE LSD. MEASUREMENTS DISCONTINUED AFTER OCT. 11, 1990.
LSD 135 FT ABOVE NGVD.

HIGHEST WATER LEVEL 36.47 BELOW LSD, APR. 30, 1991.
LOWEST WATER LEVEL 85.05 BELOW LSD, JUNE 20, 1970.
RECORDS AVAILABLE 1952, 1969-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 11, 1990	71.49						

315527092370801 LOCAL WELL NUMBER: W-28

OWNER: CITY OF WINNFELD. (SEC. 19, T. 11N., R. 2W.) DRILLED PUBLIC-SUPPLY ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 14 TO 10 IN., DEPTH 480 FT, SCREENED 360-480. MP TOP OF 1-IN. COUPLING, 1.1 FT ABOVE LSD.

LSD 105 FT ABOVE NGVD.
HIGHEST WATER LEVEL 45.78 BELOW LSD, JULY 2, 1963.
LOWEST WATER LEVEL 47.54 BELOW LSD, JULY 22, 1991.
RECORDS AVAILABLE 1963, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 2, 1963	45.78	JULY 22, 1991	47.54				

315450092310102 LOCAL WELL NUMBER: W-144B

OWNER: LOUISIANA DEPT. OF TRANSPORTATION AND DEVELOPMENT. (SEC. 19, T. 11N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 550 FT, SCREENED 540-550. MP TOP OF CASING, 1.00 FT ABOVE LSD.

LSD 140 FT ABOVE NGVD.
HIGHEST WATER LEVEL 28.50 BELOW LSD, MAR. 5, 1986.
LOWEST WATER LEVEL 58.33 BELOW LSD, NOV. 5, 1971.
RECORDS AVAILABLE 1971-87, 1989-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC. 11, 1990	34.06	MAR. 6, 1991	33.62	MAR. 21, 1991	33.77	SEP. 5, 1991	33.87

320541092291601 LOCAL WELL NUMBER: W-172

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 20, T. 13N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 655 FT, SCREENED 645-655. MP TOP OF BUSHING, 3.7 FT ABOVE LSD.

LSD 140 FT ABOVE NGVD.
HIGHEST WATER LEVEL 81.68 BELOW LSD, MAR. 2, 1979.
LOWEST WATER LEVEL 86.53 BELOW LSD, OCT. 11, 1990.
RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 11, 1990	86.53	JAN. 4, 1991	86.18	SEP. 5, 1991	85.76		

315338092400001 LOCAL WELL NUMBER: W-177

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 34, T. 11N., R. 3W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 695 FT, SCREENED 685-695. MP TOP OF BUSHING, 4.00 FT ABOVE LSD.

LSD 185 FT ABOVE NGVD.
HIGHEST WATER LEVEL 52.18 BELOW LSD, DEC. 11, 1990.
LOWEST WATER LEVEL 62.48 BELOW LSD, FEB. 21, 1980.
RECORDS AVAILABLE 1979-CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 12, 1989	53.05	DEC. 11, 1990	52.18				

SEE FOOTNOTES AT END OF TABLE.

WINN PARISH--Continued

315948092300301 LOCAL WELL NUMBER: W-179

OWNER: U.S. GEOLOGICAL SURVEY. (SEC. 29, T. 12N., R. 1W.) DRILLED OBSERVATION ARTESIAN WELL IN THE SPARTA SAND OF EOCENE AGE, DIAM 2 IN., DEPTH 585 FT, SCREENED 575-585. MP TOP OF BUSHING, 4.00 FT ABOVE LSD.

LSD 195 FT ABOVE NGVD.

HIGHEST WATER LEVEL 101.79 BELOW LSD, MAY 12, 1989.

LOWEST WATER LEVEL 106.89 BELOW LSD, SEP. 5, 1980.

RECORDS AVAILABLE 1979-87, 1989, CURRENT YEAR.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 12, 1989	101.79	MAR. 6, 1991	105.20	SEP. 5, 1991	101.95		

+ Above land-surface datum.

C Nearby well or wells being pumped.

H Tape measurement (recorder).

J Recorder measurement for a time other than noon.

R Measurement reported.

PARTIAL CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1990 TO SEPTEMBER 1991

[See end of table for explanation of geologic unit (aquifer) codes]

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE, FIELD (µS/CM)	SPE-CIFIC CON-DUCT-ANCE, LAB (µS/CM)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
T.	R.	SEC.									
ACADIA PARISH											
AC- 452	10S	1W	34	300742092265901	112CHCTU	246	04-29-91 09-05-91	1500 0945	817 836	812 801	50 50
CALCASIEU PARISH											
CU- 615	10S	9W	4	301338093172801	11205LC	533	04-22-91 09-04-91	1620 1230	812 784	806 757	150 140
CU- 694	10S	9W	19	301044093195101	11205LC	556	04-22-91 09-04-91	1730 1115	1640 1580	1650 1520	370 340
CU- 767	10S	8W	20	301036093124401	11207LC	850	04-23-91	1525	3090	3050	800
CU- 771	10S	9W	5	301336093183002	11202LC	241	04-24-91	0905	426	422	18
CU- 787	11S	10W	36	300353093210201	11205LC	734	04-24-91	1535	518	528	47
CAMERON PARISH											
CN- 80U	12S	3W	24	295846092381104	112CHCTU	453	04-29-91	1350	1390	1270	250
CN- 86L	12S	12W	13	300120093320802	11205LC	641	04-24-91	1205	1910	1900	440
CN- 88L	12S	8W	14	300055093093004	11205LC	804	04-23-91	1320	2360	2340	560
CN- 90	13S	7W	4	295611093044801	112CHCTU	396	11-20-90 04-23-91	0936 1128	972 970	968 971	160 160
CN- 92	12S	7W	12	300104093015601	112CHCTU	443	11-19-90 04-23-91	1425 0930	1600 1590	1580 1590	300 320
CONCORDIA PARISH											
CO- 205	5N	8E	4	312614091400001	112MRVA	130	03-06-91 09-05-91	1105 1110	780 818	807 817	18 21
CO- 215	5N	8E	3	312630091390001	112MRVA	121	03-06-91 09-05-91	1140 1155	3310 3500	3440 3450	880 860
EAST BATON ROUGE PARISH											
EB- 151	7S	1E	82	302641091085801	12223BR	2658	10-04-90 09-16-91	1052 1300	360 360	355 349	3.2 3.5
EB- 413	7S	1E	81	302642091083201	12115BR	1745	10-04-90 07-29-91 09-16-91	1030 1325 1320	324 -- 324	321 321 315	4.2 3.8 4.3
EB- 444	7S	1W	48	302655091112401	12220BR	2172	10-04-90 07-29-91 09-16-91	0947 1455 1145	402 394 452	398 406 462	3.1 5.8 26
EB- 510	7S	1E	77	302751091092503	12115BR	1605	07-29-91	1430	--	290	2.6
EB- 621	7S	1E	39	302500091052501	12112BR	1487	10-04-90 09-16-91	1150 1425	378 --	372 351	6.0 5.6
EB- 630	7S	1W	48	302651091112408	12220BR	2253	07-29-91	1505	695	718	100
EB- 674	7S	1W	48	302656091101301	12220BR	2250	08-08-91	0935	--	366	4.6
EB- 726	7S	1E	77	302746091091703	12115BR	1601	07-29-91	1310	296	307	2.6
EB- 733	7S	1E	81	302647091083301	12223BR	2637	10-04-90 09-16-91	1100 1335	345 353	338 334	2.8 2.8
EB- 745	7S	2E	58	302414091032601	11204BR	503	10-03-90 09-12-91	1500 1130	319 316	314 309	3.9 2.6
EB- 750	6S	1W	75	303141091114801	12228BR	2643	10-05-90 09-16-91	0840 0945	714 721	706 696	52 53
EB- 771	7S	1E	81	302646091083801	12115BR	1739	10-04-90 07-29-91 09-16-91	1108 1345 1345	324 312 330	319 321 311	3.1 3.2 4.0
EB- 781	7S	1E	94	302535091090401	12220BR	2286	11-13-90	1735	8140	8140	2400
EB- 783A	7S	1W	54	302502091113601	12115BR	2179	11-16-90	1640	743	750	120
EB- 798	6S	1W	39	303133091103101	12228BR	2647	10-04-90 09-16-91	0910 1055	1050 1050	1030 1370	150 270
EB- 814	7S	1E	77	302749091091601	12220BR	2168	07-29-91	1400	288	298	3.2
EB- 816	7S	1E	62	302534091054501	11204BR	520	10-03-90 09-12-91	1135 1100	273 316	275 308	4.2 3.6
EB- 917	7S	1E	95	302614091083001	12115BR	1736	11-23-90	1222	346	351	18
EB-1017C	7S	2E	57	302406091021203	11204BR	567	10-04-90 09-16-91	1225 1450	309 309	307 301	3.0 3.4
EB-1150	7S	1W	74	302653091103703	12220BR	2242	07-29-91	1520	395	384	11
FRANKLIN PARISH											
FR- 720	14N	8E	30	320941091411301	112MRVA	100	03-06-91 09-03-91	1340 1400	9750 9830	9680 9550	3000 2900
FR- 721	14N	7E	25	320958091425501	112MRVA	77	03-06-91 09-03-91	1415 1440	1860 1810	1840 1810	320 310
IBERIA PARISH											
I- 93	12S	7E	5	300035091443301	112CHCTU	585	04-30-91	1816	820	823	70

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE, FIELD (μS/CM)	SPE-CIFIC CON-DUCT-ANCE, LAB (μS/CM)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
	T.	R.	SEC.								
JEFFERSON PARISH											
JF- 161	13S	23E	1	295549090104101	112GZNO	772	10-24-90	1010	--	1300	200
JF- 184	12S	10E	38	295926090143201	112GZNO	704	05-08-91	1050	--	1320	220
							12-11-90	1245	656	653	74
							08-05-91	1215	606	676	74
JEFFERSON DAVIS PARISH											
JD- 491	11S	3W	14	300508092405601	112CHCTU	377	04-25-91	1435	722	728	100
							09-04-91	1430	737	709	100
LAFAYETTE PARISH											
LF- 524	11S	5E	7	300605091593502	112CHCTU	173	12-14-90	1100	194	198	7.1
							05-20-91	0900	231	237	7.3
							09-06-91	1500	194	191	10
MADISON PARISH											
MA- 64	17N	12E	23	322614091122001	112MRVA	117	03-07-91	1215	9700	9460	2700
							09-05-91	1525	9700	9400	2700
MA- 65	17N	12E	34	322428091130201	112MRVA	119	10-04-90	1400	6190	6250	1600
							03-12-91	1130	6460	6390	1600
							09-05-91	1450	6500	6360	1600
MA- 73	16N	12E	33	322402091135301	112MRVA	110	10-04-90	1100	1450	1490	120
MOREHOUSE PARISH											
MO- 65	21N	5E	25	324647091543801	124SPRT	564	10-25-90	1140	1240	1250	180
							03-04-91	1020	1220	1240	180
							09-03-91	1100	1270	1250	180
MO- 342	21N	7E	19	324753091471201	124SPRT	620	10-25-90	1650	2000	2040	370
							03-04-91	1250	2040	2080	400
							09-03-91	1250	2130	2050	400
MO- 710	23N	10E	17	325826091280401	112MRVA	130	09-03-91	1155	2770	2760	440
ORLEANS PARISH											
OR- 61	12S	12E	38	300055090013101	112GZNO	653	10-23-90	1315	--	983	80
							05-07-91	1355	--	996	86
OR- 130	12S	12E		295738090021001	112GZNO	736	10-23-90	1130	--	1970	350
							05-07-91	1230	--	1970	380
OR- 203	11S	13E	30	300349089562401	112GZNO	453	11-21-90	1100	1730	1710	340
							05-02-91	1030	1420	1390	280
OUACHITA PARISH											
OU- 260	19N	5E	2	323957091552101	112ORVA	52	12-06-90	1240	93	97	1.6
OU- 264	16N	4E	5	322404092045001	112ORVA	44	12-06-90	1540	1310	1510	170
OU- 402	15N	4E	16	321714092041401	124SPRT	750	03-05-91	1110	3670	3720	880
							09-06-91	1145	3710	3680	880
OU- 403	15N	4E	16	321714092041402	124SPRT	460	03-05-91	1215	1710	1750	260
							09-05-91	1410	1710	1750	260
OU- 405	17N	4E	30	322531092053901	124SPRT	775	11-01-90	1140	2150	2170	390
							03-05-91	1420	2060	2090	400
							09-04-91	1300	--	2090	400
OU- 469	16N	4E	2	322425092020401	124SPRT	400	03-07-91	0810	1030	1040	120
							09-05-91	0750	1020	1040	130
RICHLAND PARISH											
RI- 112	17N	9E	24	322623091294901	112MRVA	67	03-04-91	1445	1430	1480	330
							09-03-91	1450	1490	1520	340
RI- 114	17N	9E	24	322636091295702	112MRVA	66	03-04-91	1520	1200	1240	190
							09-03-91	1555	--	1280	210
RI- 124	17N	9E	25	322605091301101	112MRVA	84	03-04-91	1405	1400	1410	210
							09-03-91	1525	1370	1430	210
ST CHARLES PARISH											
SC- 159	12S	20E	23	295926090273101	112NORC	440	05-08-91	1145	--	1570	220
ST JAMES PARISH											
SJ- 206	11S	5E	190	300325090394701	112GRMC	244	10-23-90	1300	--	771	100
							05-13-91	1320	--	750	98

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE, FIELD	SPE-CIFIC CON-DUCT-ANCE, LAB	CHLO-RIDE, DIS-SOLVED
	T.	R.	SEC.						(µS/CM)	(µS/CM)	(MG/L AS CL)
ST JOHN THE BAPTIST PARISH											
SJB- 165	10S	8E	5	301247090245901	120CVGN	3000	01-15-91	0930	--	994	76
							05-03-91	0900	1000	995	76
							09-06-91	1025	1020	987	80
SJB- 176	9S	8E	33	301336090244101	120CVGN	2950	01-15-91	0915	--	734	22
							05-03-91	0915	753	747	24
							09-06-91	1015	756	738	26
SJB- 180	10S	8E	7	301143090260101	120CVGN	3091	01-29-91	1210	780	814	44
ST MARTIN PARISH											
SMN- 108	9S	7E	36	301304091424001	112CHCTU	505	05-01-91	0920	1960	1920	340
SMN- 109	9S	7E	36	301304091424002	112CHCTU	375	05-01-91	0935	1170	1150	110
ST MARY PARISH											
SM- 57U	14S	8E	27	294749091402301	112CHCTU	638	04-30-91	1625	1170	1150	180
VERMILION PARISH											
VE- 630U	14S	1E	10	295031092203202	112CHCTU	498	04-30-91	1100	1070	1060	130
VE- 637L	13S	3E	15	295345092100703	112CHCTU	243	04-30-91	1315	2630	2590	600
VE- 639	16S	1W	2	293845092264901	112CHCTS	608	04-29-91	1700	1550	1520	290
WEST BATON ROUGE PARISH											
WBR- 35	7S	12E	68	302657091124201	12112BR	1290	10-05-90	1330	314	312	4.5
							09-20-91	1000	297	304	3.2
WBR- 136	7S	12E	21	302712091145701	12112BR	1305	10-03-90	0835	288	284	4.3
							09-17-91	0830	273	282	4.2
WBR- 181	7S	12E	68	302644091121201	12117BR	1900	10-03-90	1030	304	301	4.4
							09-20-91	1115	294	296	5.1
WINN PARISH											
W- 144B	11N	1W	19	315450092310102	124SPRT	550	03-06-91	1000	1530	1550	130
							09-05-91	1055	1520	1560	130
W- 179	12N	1W	29	315948092300301	124SPRT	585	03-06-91	1400	1390	1380	220
							09-05-91	1000	1340	1370	210

GEOLOGIC UNIT (AQUIFER):

112CHCT- Chicot aquifer, Pleistocene age.
 112CHCTL- Chicot aquifer, lower sand unit, Pleistocene age.
 112CHCTS- Chicot aquifer, shallow sand unit, Pleistocene age.
 112CHCTU- Chicot aquifer, upper sand unit, Pleistocene age.
 112GRMC- Gramercy aquifer, Pleistocene age.
 112GZNO- Gonzales-New Orleans aquifer, Pleistocene age.
 112MRVA- Mississippi River alluvial aquifer, Pleistocene age.
 112NORC- Norco aquifer, Pleistocene age.
 112ORVA- Ouachita River Alluvial aquifer, Pleistocene age.
 112UPTC- Upland terrace deposits, Pleistocene age.
 11204BR- "400-foot" sand of Baton Rouge-Gonzales area, Pleistocene age.
 11205LC- "500-foot" sand of Lake Charles area, Pleistocene age.
 11207LC- "700-foot" sand of Lake Charles area, Pleistocene age.
 120CVGN- Covington aquifer (Zone 2), Pliocene age.
 121EVGL- Evangeline aquifer, (Pliocene-Miocene) age.
 121PNCLL- Lower Ponchatoula aquifer (Zone 1), Pliocene age.
 12101FP- Zone 1 Florida Parishes & Pointe Coupee Parish, Pliocene age.
 12102FP- Zone 2 Florida Parishes & Pointe Coupee Parish, Pliocene age.
 12112BR- "1,200-foot" sand of Baton Rouge area, Pliocene age.
 12115BR- "1,500-foot" sand of Baton Rouge area, Pliocene age.
 12117BR- "1,700-foot" sand of Baton Rouge area, Pliocene age.
 122HMND- Hammond aquifer (Zone 3), Miocene age.
 12220BR- "2,000-foot" sand of Baton Rouge area, Miocene age.
 12223BR- "2,000-foot" and "2,400-foot" sands of Baton Rouge area, Miocene age.
 12224BR- "2,400-foot" sand of Baton Rouge area, Miocene age.
 12228BR- "2,800-foot" sand of Baton Rouge area, Miocene age.
 124CCKF- Cockfield formation, Eocene age.
 124SPRT- Sparta sand, Eocene age.

COMPLETE CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1990 TO SEPTEMBER 1991

[Additional information for most wells may be found in the minor elements or organic chemical analyses tables. <, Actual value is known to be less than the value shown, see end of partial chemical analysis table for explanation of geologic unit (aquifer) codes]

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CON-DUCT-ANCE, FIELD (µS/CM)	PH, FIELD (STAND-ARD UNITS)	WATER TEMPER-ATURE (DEG C)	COLOR, (PLAT-INUM-COBALT UNITS)
	T.	R.	SEC.									
BEAUREGARD PARISH												
BE- 378	7S	8W	19	302553093135002	112CHCT	172	12-04-90	1130	306	7.45	14.0	30
CALCASIEU PARISH												
CU- 696	9S	9W	16	301705093171401	112CHCT	494	07-08-91	1415	424	6.82	26.0	5
CONCORDIA PARISH												
CO- 227	7N	9E	3	313611091312603	112MRVA	135	06-26-91	1015	a777	6.68	20.5	0
EAST BATON ROUGE PARISH												
EB- 771	7S	1E	81	302646091083801	12115BR	1739	11-27-90	0900	320	8.85	24.0	0
EAST FELICIANA PARISH												
EF- 225	1S	1E	85	305803091061101	12101FP	444	11-28-90	1030	76	6.30	21.5	0
LAFAYETTE PARISH												
LF- 520	9S	5E	135	301358092002401	112CHCTU	348	05-21-91	1100	380	6.75	21.5	0
LIVINGSTON PARISH												
LI- 185	7S	3E	38	302724090565801	12224BR	2611	11-27-90	1130	262	8.16	28.5	0
MADISON PARISH												
MA- 31	16N	12E	31	322358091110301	112MRVA	130	06-26-91	1315	a728	6.86	20.5	0
MOREHOUSE PARISH												
MO- 363	21N	5E	25	324647091543805	112UPTC	132	06-05-91	1030	302	6.38	--	0
RAPIDES PARISH												
R- 910	2N	3E	14	310841092382801	112UPTC	142	05-20-91	0900	84	5.75	20.0	0
RICHLAND PARISH												
RI- 126	18N	9E	13	323308091294801	124CCKF	426	06-05-91	1345	920	8.10	--	0
ST JOHN THE BAPTIST PARISH												
SJB- 165	10S	8E	5	301247090245901	120CVGN	3000	01-13-90	1245	987	8.97	34.0	50
SJB- 176	9S	8E	33	301336090244101	120CVGN	2950	09-24-91	0900	925	8.74	33.5	80
							b11-13-90	1130	731	8.83	34.5	30
							09-24-91	0930	762	8.77	36.0	60
ST LANDRY PARISH												
SL- 257	6S	4E	65	303215092022303	112CHCTL	576	11-30-90	1000	1940	7.42	17.5	0
SL- 551	4S	3E	12	304342092071201	121EVGL	391	c05-02-91	1530	1380	7.40	20.0	5
SL- 552	4S	3E	12	304342092071202	112CHCT	124	05-17-91	0930	1350	6.10	19.5	0
ST TAMMANY PARISH												
ST- 568	6S	11E	41	302832090064101	122HMND	2542	d01-22-91	1300	266	8.23	33.0	--
							05-16-91	0900	261	7.79	33.0	--
TANGIPAHOA PARISH												
TA- 576	7S	9E	38	302719090150101	120CVGN	1922	01-17-91	1400	292	8.78	29.0	0
TA- 577	7S	8E	25	302422090211501	121PNCLL	1134	01-17-91	1010	4720	7.92	26.0	0
TA- 578	7S	8E	25	302452090211501	121PNCLL	840	01-17-91	1130	246	7.62	24.0	0
TA- 579	7S	9E	38	302717090150101	121PNCLL	1200	05-16-91	1050	244	7.82	24.0	--
							01-17-91	1400	179	7.13	25.0	0
TA-6043Z	7S	9E	2	302805090162901	121PNCLL	1110	01-22-91	0930	189	7.37	25.0	--
VERMILION PARISH												
VE- 903	14S	4E	2	295108092014801	112CHCTU	275	11-30-90	1400	733	7.51	16.0	0
WEST FELICIANA PARISH												
WF- 232	1S	5W	51	305726091351801	12102FP	530	11-28-90	1330	242	7.07	22.0	0

a Lab measurement.

b Dissolved nitrate as nitrogen, 0.02 mg/L.

c Dissolved orthophosphorus as phosphorus, 0.55 mg/L.

d Dissolved nitrate as nitrogen, 0.01 mg/L.

WELL NO.	LOCATION			DATE OF SAMPLE	HARDNESS, TOTAL (MG/L AS CAC03)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY, FIELD (MG/L AS CAC03)	SULFATE, DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)
BEAUREGARD PARISH--CONTINUED													
BE- 378	7S	8W	19	12-04-90	56	14	5.0	41	2.3	118	<0.2	30	0.2
CALCASIEU PARISH--CONTINUED													
CU- 696	9S	9W	16	07-08-91	91	24	7.5	50	2.6	120	2.0	56	.2
CONCORDIA PARISH--CONTINUED													
CO- 227	7N	9E	3	06-26-91	400	110	30	24	3.7	405	--	14	.2
EAST BATON ROUGE PARISH--CONTINUED													
EB- 771	7S	1E	81	11-27-90	0	<1.0	<.2	70	<1.0	148	5.2	2.3	.4
EAST FELICIANA PARISH--CONTINUED													
EF- 225	1S	1E	85	11-28-90	18	4.4	1.8	7.2	2.1	33	.2	3.5	.1
LAFAYETTE PARISH--CONTINUED													
LF- 520	9S	5E	135	05-21-91	160	51	8.1	11	1.7	166	7.6	12	.2
LIVINGSTON PARISH--CONTINUED													
LI- 185	7S	3E	38	11-27-90	6	2.3	<.2	58	<1.0	122	6.4	5.3	.3
MADISON PARISH--CONTINUED													
MA- 31	16N	12E	31	06-26-91	370	100	29	35	3.0	452	.4	12	.2
MOREHOUSE PARISH--CONTINUED													
MO- 363	21N	5E	25	06-05-91	93	24	8.1	34	1.5	92	--	29	.1
RAPIDES PARISH--CONTINUED													
R- 910	2N	3E	14	05-20-91	21	6.2	1.4	8	1.3	34	.6	4.1	.1
RICHLAND PARISH--CONTINUED													
RI- 126	18N	9E	13	06-05-91	0	<5.0	<1.0	220	1.6	375	<.2	75	.2
ST JOHN THE BAPTIST PARISH--CONTINUED													
SJB- 165	10S	8E	5	11-13-90	4	1.4	<.2	230	1.4	404	4.6	75	.9
				09-24-91	4	1.6	<.2	250	1.1	402	6.0	80	.8
SJB- 176	9S	8E	33	11-13-90	3	1.0	<.2	180	1.1	351	7.4	22	.8
				09-24-91	--	1.1	<.2	190	<1.0	356	8.6	26	.7
ST LANDRY PARISH--CONTINUED													
SL- 257	6S	4E	65	11-30-90	180	47	16	340	4.4	304	<.2	400	.3
SL- 551	4S	3E	12	05-02-91	20	6.2	1.2	310	1.8	344	<.2	220	.6
SL- 552	4S	3E	12	05-17-91	480	130	38	120	4.2	502	.2	150	.2
ST TAMMANY PARISH--CONTINUED													
ST- 568	6S	11E	41	01-22-91	--	--	--	--	--	--	--	--	--
				05-16-91	--	--	--	--	--	123	--	--	--
TANGIPAHOA PARISH--CONTINUED													
TA- 576	7S	9E	38	01-17-91	--	1.5	<.2	65	<1.0	135	7.0	3.0	.2
TA- 577	7S	8E	25	01-17-91	98	25	8.5	970	3.9	270	15	1300	.8
TA- 578	7S	8E	25	01-17-91	3	.9	.2	53	1.0	114	8.6	2.0	.2
				05-16-91	--	--	--	--	--	119	--	--	--
TA- 579	7S	9E	38	01-17-91	9	2.8	.4	37	1.4	76	7.8	2.9	<.2
TA-6043Z	7S	9E	2	01-22-91	--	--	--	--	--	83	--	--	--
VERMILION PARISH--CONTINUED													
VE- 903	14S	4E	2	11-30-90	210	50	21	72	3.1	336	<.2	45	.2
WEST FELICIANA PARISH--CONTINUED													
WF- 232	1S	5W	51	11-28-90	47	14	2.9	32	3.9	116	6.2	1.3	.2

WELL NO.	LOCATION			DATE OF SAMPLE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS DIS-SOLVED (MG/L)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (µG/L AS FE)	MANGANESE, DIS-SOLVED (µG/L AS MN)
BEAUREGARD PARISH--CONTINUED												
BE- 378	7S	8W	19	12-04-90	33	195	--	0.01	<0.02	0.07	--	130
CALCASIEU PARISH--CONTINUED												
CU- 696	9S	9W	16	07-08-91	54	264	272	<.01	<.02	.18	2800	480
CONCORDIA PARISH--CONTINUED												
CO- 227	7N	9E	3	06-26-91	39	467	--	<.01	<.02	--	11000	910
EAST BATON ROUGE PARISH--CONTINUED												
EB- 771	7S	1E	81	11-27-90	32	205	--	<.01	<.02	.30	<25	<20
EAST FELICIANA PARISH--CONTINUED												
EF- 225	1S	1E	85	11-28-90	43	82	82	<.01	.03	.04	<25	<20
LAFAYETTE PARISH--CONTINUED												
LF- 520	9S	5E	135	05-21-91	47	249	243	<.01	<.02	.30	4000	690
LIVINGSTON PARISH--CONTINUED												
LI- 185	7S	3E	38	11-27-90	33	172	--	<.01	.03	.22	30	<20
MADISON PARISH--CONTINUED												
MA- 31	16N	12E	31	06-26-91	33	473	495	<.01	<.02	--	8900	1500
MOREHOUSE PARISH--CONTINUED												
MO- 363	21N	5E	25	06-05-91	53	190	--	<.01	1.3	--	60	63
RAPIDES PARISH--CONTINUED												
R- 910	2N	3E	14	05-20-91	9.6	77	52	<.01	.15	--	<25	53
RICHLAND PARISH--CONTINUED												
RI- 126	18N	9E	13	06-05-91	15	544	--	<.01	<.02	--	30	<20
ST JOHN THE BAPTIST PARISH--CONTINUED												
SJB- 165	10S	8E	5	11-13-90	27	591	--	<.01	.03	.48	60	<20
				09-24-91	26	594	--	<.01	<.02	.40	30	48
SJB- 176	9S	8E	33	11-13-90	27	447	--	.01	<.02	.40	<25	<20
				09-24-91	27	459	--	<.01	<.02	.47	10	41
ST LANDRY PARISH--CONTINUED												
SL- 257	6S	4E	65	11-30-90	43	1040	--	<.01	.10	.15	700	240
SL- 551	4S	3E	12	05-02-91	30	773	--	<.01	.03	--	100	31
SL- 552	4S	3E	12	05-17-91	31	677	778	--	<.02	--	2800	260
ST TAMMANY PARISH--CONTINUED												
ST- 568	6S	11E	41	01-22-91	--	--	--	.01	.02	--	--	--
				05-16-91	--	--	--	--	--	.45	--	--
TANGIPAHOA PARISH--CONTINUED												
TA- 576	7S	9E	38	01-17-91	30	188	--	<.01	<.02	--	40	<20
TA- 577	7S	8E	25	01-17-91	29	2290	2540	<.01	<.02	--	460	71
TA- 578	7S	8E	25	01-17-91	49	170	183	<.01	<.02	--	50	10
				05-16-91	--	--	--	--	--	.17	--	--
TA- 579	7S	9E	38	01-17-91	57	149	155	<.01	<.02	--	110	<20
TA-6043Z	7S	9E	2	01-22-91	--	--	--	--	--	--	--	--
VERMILION PARISH--CONTINUED												
VE- 903	14S	4E	2	11-30-90	36	424	--	.01	.02	.23	390	330
WEST FELICIANA PARISH--CONTINUED												
WF- 232	1S	5W	51	11-28-90	56	188	187	<.01	<.02	.15	260	180

QUALITY OF GROUND WATER

MINOR ELEMENTS FOR MONITOR WELLS, OCTOBER 1990 TO SEPTEMBER 1991

[Additional information for most wells may be found in the complete chemical analyses and organic chemical analyses tables. See end of partial chemical analyses table for explanation of geologic unit (aquifer) codes. <, Actual value is known to be less than the value shown]

WELL NO.	LOCATION			STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	ANTI- MONY, DIS- SOLVED	ARSENIC, DIS- SOLVED
	T.	R.	SEC.						(µG/L AS SB)	(µG/L AS AS)
BEAUREGARD PARISH										
BE- 378	7S	8W	19	302553093135002	112CHCT	172	12-04-90	1130	<1	2
CALCASIEU PARISH										
CU- 696	9S	9W	16	301705093171401	112CHCT	494	07-08-91	1415	<1	<1
CONCORDIA PARISH										
CO- 227	7N	9E	3	313611091312603	112MRVA	135	06-26-91	1015	<1	<1
EAST BATON ROUGE PARISH										
EB- 771	7S	1E	81	302646091083801	12115BR	1739	11-27-90	0900	<1	<1
EAST FELICIANA PARISH										
EF- 225	1S	1E	85	305803091061101	12101FP	444	11-28-90	1030	--	1
LAFAYETTE PARISH										
LF- 520	9S	5E	135	301358092002401	112CHCTU	348	05-21-91	1100	--	3
LIVINGSTON PARISH										
LI- 185	7S	3E	38	302724090565801	12224BR	2611	11-27-90	1130	<1	<1
MADISON PARISH										
MA- 31	16N	12E	31	322358091110301	112MRVA	130	06-26-91	1315	<1	13
MOREHOUSE PARISH										
MO- 363	21N	5E	25	324647091543805	112UPTC	132	06-05-91	1030	<1	<1
RAPIDES PARISH										
R- 910	2N	3W	14	310841092382801	112UPTC	142	05-20-91	0900	<1	<1
RICHLAND PARISH										
RI- 126	18N	9E	13	323308091294801	124CCKF	426	06-05-91	1345	<1	<1
ST JOHN THE BAPTIST PARISH										
SJB- 165	10S	8E	5	301247090245901	120CVGN	3000	11-13-90	1245	<1	<1
SJB- 176	9S	8E	33	301336090244101	120CVGN	2950	09-24-91	0900	<1	<1
							11-13-90	1130	<1	<1
							09-24-91	0930	<1	<1
ST LANDRY PARISH										
SL- 257	6S	4E	65	303215092022303	112CHCTL	576	11-30-90	1000	--	<1
SL- 551	4S	3E	12	304342092071201	121EVGL	391	05-02-91	1530	<1	3
TANGIPAHOA PARISH										
TA- 576	7S	9E	38	302719090150101	120CVGN	1922	01-17-91	1400	--	<1
TA- 577	7S	8E	25	302422090211501	121PNCLL	1134	01-17-91	1010	--	<1
TA- 578	7S	8E	25	302452090211501	121PNCLL	840	01-17-91	1130	--	<1
TA- 579	7S	9E	38	302717090150101	121PNCLL	1200	01-17-91	1400	--	<1
VERMILION PARISH										
VE- 903	14S	4E	2	295108092014801	112CHCTU	275	11-30-90	1400	--	<1
WEST FELICIANA PARISH										
WF- 232	1S	5W	51	305726091351801	12102FP	530	11-28-90	1330	--	1

WELL NO.	LOCATION			DATE OF SAMPLE	BARIUM, DIS- SOLVED (µG/L AS BA)	BERYL- LIUM, DIS- SOLVED (µG/L AS BE)	CADMIUM, DIS- SOLVED (µG/L AS CD)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR)	COPPER, DIS- SOLVED (µG/L AS CU)	LEAD, DIS- SOLVED (µG/L AS PB)	MERCURY, DIS- SOLVED (µG/L AS HG)
	T.	R.	SEC.								
BEAUREGARD PARISH--CONTINUED											
BE- 378	7S	8W	19	12-04-90	100	<10	<1	<1	<1	<1	<0.1
CALCASIEU PARISH--CONTINUED											
CU- 696	9S	9W	16	07-08-91	200	<10	<1	<1	<1	<1	<.1
CONCORDIA PARISH--CONTINUED											
CO- 227	7N	9E	3	06-26-91	500	<10	<1	<1	<1	<1	<.1
EAST BATON ROUGE PARISH--CONTINUED											
EB- 771	7S	1E	81	11-27-90	<100	<10	<1	<1	2	<1	<.1
EAST FELICIANA PARISH--CONTINUED											
EF- 225	1S	1E	85	11-28-90	<100	<10	<1	<1	12	2	<.1
LAFAYETTE PARISH--CONTINUED											
LF- 520	9S	5E	135	05-21-91	100	<10	<1	<1	<1	<1	<.1
LIVINGSTON PARISH--CONTINUED											
LI- 185	7S	3E	38	11-27-90	<100	<10	<1	<1	1	<1	<.1
MADISON PARISH--CONTINUED											
MA- 31	16N	12E	31	06-26-91	500	<10	<1	<1	<1	2	<.1
MOREHOUSE PARISH--CONTINUED											
MO- 363	21N	5E	25	06-05-91	100	<10	<1	2	14	4	<.1
RAPIDES PARISH--CONTINUED											
R- 910	2N	3W	14	05-20-91	<100	<10	<1	<1	4	<1	<.1
RICHLAND PARISH--CONTINUED											
RI- 126	18N	9E	13	06-05-91	<100	<10	<1	<1	<1	<1	<.1
ST JOHN THE BAPTIST PARISH--CONTINUED											
SJB- 165	10S	8E	5	11-13-90	<100	<10	<1	<1	<1	1	<.1
SJB- 176	9S	8E	33	09-24-91	<100	<10	<1	<1	<1	<1	<.1
				11-13-90	<100	<10	<1	<1	<1	<1	<.1
				09-24-91	<100	<10	<1	<1	<1	1	<.1
ST LANDRY PARISH--CONTINUED											
SL- 257	6S	4E	65	11-30-90	800	<10	<1	<1	1	<1	<.1
SL- 551	4S	3E	12	05-02-91	100	<10	2	<1	<1	2	--
TANGIPAHOA PARISH--CONTINUED											
TA- 576	7S	9E	38	01-17-91	<100	--	<1	<1	<1	<1	<.1
TA- 577	7S	8E	25	01-17-91	800	--	<1	<1	<1	<1	<.1
TA- 578	7S	8E	25	01-17-91	<100	--	<1	<1	<1	<1	<.1
TA- 579	7S	9E	38	01-17-91	<100	--	<1	<1	<1	<1	<.1
VERMILION PARISH--CONTINUED											
VE- 903	14S	4E	2	11-30-90	200	<10	<1	<1	2	1	<.1
WEST FELICIANA PARISH--CONTINUED											
WF- 232	1S	5W	51	11-28-90	100	<10	<1	<1	<1	<1	<.1

WELL NO.	LOCATION T. R. SEC.	DATE OF SAMPLE	NICKEL, DIS- SOLVED (µG/L AS NI)	SELE- NIUM, DIS- SOLVED (µG/L AS SE)	SILVER, DIS- SOLVED (µG/L AS AG)	ZINC, DIS- SOLVED (µG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CYANIDE, DIS- SOLVED (MG/L AS CN)
BEAUREGARD PARISH--CONTINUED								
BE- 378	7S 8W 19	12-04-90	<1	<1	<1	--	0.5	<0.01
CALCASIEU PARISH--CONTINUED								
CU- 696	9S 9W 16	07-08-91	<1	<1	--	<10	.6	<.01
CONCORDIA PARISH--CONTINUED								
CO- 227	7N 9E 3	06-26-91	<1	<1	--	20	2.1	<.01
EAST BATON ROUGE PARISH--CONTINUED								
EB- 771	7S 1E 81	11-27-90	1	<1	--	10	.4	<.01
EAST FELICIANA PARISH--CONTINUED								
EF- 225	1S 1E 85	11-28-90	1	1	--	20	.5	<.01
LAFAYETTE PARISH--CONTINUED								
LF- 520	9S 5E 135	05-21-91	<1	<1	--	10	.6	<.01
LIVINGSTON PARISH--CONTINUED								
LI- 185	7S 3E 38	11-27-90	<1	<1	--	<10	.4	<.01
MADISON PARISH--CONTINUED								
MA- 31	16N 12E 31	06-26-91	<1	<1	--	20	2.9	<.01
MOREHOUSE PARISH--CONTINUED								
MO- 363	21N 5E 25	06-05-91	3	<1	--	110	.8	<.01
RAPIDES PARISH--CONTINUED								
R- 910	2N 3W 14	05-20-91	<1	<1	--	20	.7	<.01
RICHLAND PARISH--CONTINUED								
RI- 126	18N 9E 13	06-05-91	<1	<1	--	<10	2.1	<.01
ST JOHN THE BAPTIST PARISH--CONTINUED								
SJB- 165	10S 8E 5	11-13-90	<1	<1	--	<10	2.2	<.01
		09-24-91	<1	<1	--	<10	2.8	<.01
SJB- 176	9S 8E 33	11-13-90	<1	<1	--	<10	3.0	<.01
		09-24-91	<1	<1	--	<10	1.8	<.01
ST LANDRY PARISH--CONTINUED								
SL- 257	6S 4E 65	11-30-90	<1	<1	--	30	.9	<.01
SL- 551	4S 3E 12	05-02-91	<1	<1	--	40	1.6	<.01
TANGIPAHOA PARISH--CONTINUED								
TA- 576	7S 9E 38	01-17-91	--	<1	--	<10	.4	--
TA- 577	7S 8E 25	01-17-91	--	<1	<1	10	1.0	--
TA- 578	7S 8E 25	01-17-91	--	<1	<1	<10	.3	--
TA- 579	7S 9E 38	01-17-91	--	<1	<1	<10	.2	--
VERMILION PARISH--CONTINUED								
VE- 903	14S 4E 2	11-30-90	<1	<1	--	--	1.4	<.01
WEST FELICIANA PARISH--CONTINUED								
WF- 232	1S 5W 51	11-28-90	<1	<1	--	<10	.4	<.01

ORGANIC CHEMICAL ANALYSES FOR MONITOR WELLS, OCTOBER 1990 TO SEPTEMBER 1991

[Additional information for wells may be found in the complete chemical analyses and minor elements table. See end of partial chemical analyses table for explanation of geologic unit (aquifer) codes. <, Actual value is known to be less than the value shown]

WELL NO.	LOCATION			STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL (FEET)	DATE OF SAMPLE	TIME	ALDRIN, TOTAL (µG/L)	CHLOR-DANE, TOTAL (µG/L)	DDD, TOTAL (µG/L)	DDE, TOTAL (µG/L)
	T.	R.	SEC.									
BEAUREGARD PARISH												
BE- 378	7S	8W	19	302553093135002	112CHCT	172	12-04-90	1130	<0.01	<0.01	<0.01	<0.01
CALCASIEU PARISH												
CU- 696	9S	9W	16	301705093171401	112CHCT	494	07-08-91	1415	<.01	<.01	<.01	<.01
CONCORDIA PARISH												
CO- 227	7N	9E	3	313611091312603	112MRVA	135	06-26-91	1015	<.01	<.01	<.01	<.01
EAST BATON ROUGE PARISH												
EB- 771	7S	1E	81	302646091083801	12115BR	1739	11-27-90	0900	<.01	<.01	<.01	<.01
EAST FELICIANA PARISH												
EF- 225	1S	1E	85	305803091061101	12101FP	444	11-28-90	1030	<.01	<.01	.01	<.01
LAFAYETTE PARISH												
LF- 520	9S	5E	135	301358092002401	112CHCTU	348	05-21-91	1100	<.01	<.01	<.01	<.01
LIVINGSTON PARISH												
LI- 185	7S	3E	38	302724090565801	12224BR	2611	11-27-90	1130	<.01	<.01	<.01	<.01
MADISON PARISH												
MA- 31	16N	12E	31	322358091110301	112MRVA	130	06-26-91	1315	<.01	<.01	<.01	<.01
MOREHOUSE PARISH												
MO- 363	21N	5E	25	324647091543805	112UPTC	132	06-05-91	1030	<.01	<.01	<.01	<.01
RAPIDES PARISH												
R- 910	2N	3W	14	310841092382801	112UPTC	142	05-20-91	0900	<.01	<.01	<.01	<.01
RICHLAND PARISH												
RI- 126	18N	9E	13	323308091294801	124CCKF	426	06-05-91	1345	<.01	<.01	<.01	<.01
ST JOHN THE BAPTIST PARISH												
SJB- 165	10S	8E	5	301247090245901	120CVGN	3000	11-13-90	1245	<.01	<.01	<.01	<.01
SJB- 176	9S	8E	33	301336090244101	120CVGN	2950	09-24-91	0900	<.01	<.01	<.01	<.01
							11-13-90	1130	<.01	<.01	<.01	<.01
							09-24-91	0930	<.01	<.01	<.01	<.01
ST LANDRY PARISH												
SL- 257	6S	4E	65	303215092022303	112CHCTL	576	11-30-90	1000	<.01	<.01	<.01	<.01
SL- 551	4S	3E	12	304342092071201	121EVGL	391	05-02-91	1530	<.01	<.01	<.01	<.01
TANGIPAHOA PARISH												
TA- 576	7S	9E	38	302719090150101	120CVGN	1922	01-17-91	1400	<.01	<.01	<.01	<.01
TA- 579	7S	9E	38	302717090150101	121PNCLL	1200	01-17-91	1400	<.01	<.01	<.01	<.01
TA-6043Z	7S	9E	2	302805090162901	121PNCLL	1110	01-22-91	0930	--	--	--	--
VERMILION PARISH												
VE- 903	14S	4E	2	295108092014801	112CHCTU	275	11-30-90	1400	<.01	<.01	<.01	<.01
WEST FELICIANA PARISH												
WF- 232	1S	5W	51	305726091351801	12102FP	530	11-28-90	1330	<.01	<.01	<.01	<.01

WELL NO.	LOCATION			DATE OF SAMPLE	DDT, TOTAL (µG/L)	DI-AZINON, TOTAL (µG/L)	DI-ELDRIN, TOTAL (µG/L)	ENDO-SULFAN, TOTAL (µG/L)	ENDRIN, TOTAL (µG/L)	ETHION, TOTAL (µG/L)	NAPH-THA-LENES, POLY-CHLOR.	HEPTA-CHLOR, TOTAL (µG/L)	HEPTA-CHLOR EPOXIDE TOTAL (µG/L)
	T.	R.	SEC.								TOTAL (µG/L)		
BEAUREGARD PARISH--CONTINUED													
BE- 378	7S	8W	19	12-04-90	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01
CALCASIEU PARISH--CONTINUED													
CU- 696	9S	9W	16	07-08-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
CONCORDIA PARISH--CONTINUED													
CO- 227	7N	9E	3	06-26-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
EAST BATON ROUGE PARISH--CONTINUED													
EB- 771	7S	1E	81	11-27-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
EAST FELICIANA PARISH--CONTINUED													
EF- 225	1S	1E	85	11-28-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
LAFAYETTE PARISH--CONTINUED													
LF- 520	9S	5E	135	05-21-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
LIVINGSTON PARISH--CONTINUED													
LI- 185	7S	3E	38	11-27-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	.03
MADISON PARISH--CONTINUED													
MA- 31	16N	12E	31	06-26-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
MOREHOUSE PARISH--CONTINUED													
MO- 363	21N	5E	25	06-05-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
RAPIDES PARISH--CONTINUED													
R- 910	2N	3W	14	05-20-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
RICHLAND PARISH--CONTINUED													
RI- 126	18N	9E	13	06-05-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
ST JOHN THE BAPTIST PARISH--CONTINUED													
SJB- 165	10S	8E	5	11-13-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	.01	<.01
				09-24-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
SJB- 176	9S	8E	33	11-13-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
				09-24-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
ST LANDRY PARISH--CONTINUED													
SL- 257	6S	4E	65	11-30-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
SL- 551	4S	3E	12	05-02-91	<.01	.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
TANGIPAHOA PARISH--CONTINUED													
TA- 576	7S	9E	38	01-17-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
TA- 579	7S	9E	38	01-17-91	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
TA-6043Z	7S	9E	2	01-22-91	--	--	--	--	--	--	--	--	--
VERMILION PARISH--CONTINUED													
VE- 903	14S	4E	2	11-30-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01
WEST FELICIANA PARISH--CONTINUED													
WF- 232	1S	5W	51	11-28-90	<.01	<.01	<.01	<.01	<.01	<.01	<.1	<.01	<.01

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

WELL NO.	LOCATION			DATE OF SAMPLE	2-CHLORO-PHENOL, TOTAL (µG/L)	2,4-DI-CHLORO-PHENOL, TOTAL (µG/L)	2,4,6-TRI-CHLORO-PHENOL, TOTAL (µG/L)	2,4-DI-METHYL-PHENOL, TOTAL (µG/L)	4,6-DINITRO-ORTHO-CRESOL, TOTAL (µG/L)	2,4,-DI-NITRO-PHENOL, TOTAL (µG/L)	2-NITRO-PHENOL, TOTAL (µG/L)	4-NITRO-PHENOL, TOTAL (µG/L)	PENTA-CHLORO-PHENOL, TOTAL (µG/L)
T.	R.	SEC.											
BEAUREGARD PARISH--CONTINUED													
BE- 378	7S	8W	19	12-04-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
CALCASIEU PARISH--CONTINUED													
CU- 696	9S	9W	16	07-08-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
CONCORDIA PARISH--CONTINUED													
CO- 227	7N	9E	3	06-26-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
EAST BATON ROUGE PARISH--CONTINUED													
EB- 771	7S	1E	81	11-27-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
EAST FELICIANA PARISH--CONTINUED													
EF- 225	1S	1E	85	11-28-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
LAFAYETTE PARISH--CONTINUED													
LF- 520	9S	5E	135	05-21-91	--	--	--	--	--	--	--	--	--
LIVINGSTON PARISH--CONTINUED													
LI- 185	7S	3E	38	11-27-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
MADISON PARISH--CONTINUED													
MA- 31	16N	12E	31	06-26-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
MOREHOUSE PARISH--CONTINUED													
MO- 363	21N	5E	25	06-05-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
RAPIDES PARISH--CONTINUED													
R- 910	2N	3W	14	05-20-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
RICHLAND PARISH--CONTINUED													
RI- 126	18N	9E	13	06-05-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
ST JOHN THE BAPTIST PARISH--CONTINUED													
SJB- 165	10S	8E	5	11-13-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
SJB- 176	9S	8E	33	09-24-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
				11-13-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
				09-24-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
ST LANDRY PARISH--CONTINUED													
SL- 257	6S	4E	65	11-30-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
SL- 551	4S	3E	12	05-02-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
TANGIPAHOA PARISH--CONTINUED													
TA- 576	7S	9E	38	01-17-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
TA- 579	7S	9E	38	01-17-91	<5	<5	<20	<5	<30	<20	<5	<30	<30
TA-6043Z	7S	9E	2	01-22-91	--	--	--	--	--	--	--	--	--
VERMILION PARISH--CONTINUED													
VE- 903	14S	4E	2	11-30-90	<5	<5	<20	<5	<30	<20	<5	<30	<30
WEST FELICIANA PARISH--CONTINUED													
WF- 232	1S	5W	51	11-28-90	<5	<5	<20	<5	<30	<20	<5	<30	<30

WELL NO.	LOCATION			DATE OF SAMPLE	PHENOL (C6H5OH), TOTAL (µG/L)	ACE-NAPHTH-ENE, TOTAL (µG/L)	ACE-NAPHTH-YLENE, TOTAL (µG/L)	ANTHRA-CENE, TOTAL (µG/L)	BENZI-DINE, TOTAL (µG/L)	BENZO A ANTHRACENE1,2-BENZANTHRACENE, TOTAL (µG/L)	BENZO B FLUOR-ANTHENE, TOTAL (µG/L)	BENZO K FLUOR-ANTHENE, TOTAL (µG/L)	BENZO-A-PYRENE, TOTAL (µG/L)
	T.	R.	SEC.										
BEAUREGARD PARISH--CONTINUED													
BE- 378	7S	8W	19	12-04-90	<5	<0.1	<5	<5	<50	<5	<10	<10	<10
CALCASIEU PARISH--CONTINUED													
CU- 696	9S	9W	16	07-08-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
CONCORDIA PARISH--CONTINUED													
CO- 227	7N	9E	3	06-26-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
EAST BATON ROUGE PARISH--CONTINUED													
EB- 771	7S	1E	81	11-27-90	<5	<5	<5	<5	<50	<5	<10	<10	<5
EAST FELICIANA PARISH--CONTINUED													
EF- 225	1S	1E	85	11-28-90	<5	<5	<5	<5	<50	<5	<10	<10	<10
LAFAYETTE PARISH--CONTINUED													
LF- 520	9S	5E	135	05-21-91	--	--	--	--	--	--	--	--	--
LIVINGSTON PARISH--CONTINUED													
LI- 185	7S	3E	38	11-27-90	<5	<5	<5	<5	<50	<5	<10	<10	<5
MADISON PARISH--CONTINUED													
MA- 31	16N	12E	31	06-26-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
MOREHOUSE PARISH--CONTINUED													
MO- 363	21N	5E	25	06-05-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
RAPIDES PARISH--CONTINUED													
R- 910	2N	3W	14	05-20-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
RICHLAND PARISH--CONTINUED													
RI- 126	18N	9E	13	06-05-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
ST JOHN THE BAPTIST PARISH--CONTINUED													
SJB- 165	10S	8E	5	11-13-90	<5	<5	<5	<5	<50	<5	<10	<10	<10
				09-24-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
SJB- 176	9S	8E	33	11-13-90	<5	<5	<5	<5	<50	<5	<10	<10	<10
				09-24-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
ST LANDRY PARISH--CONTINUED													
SL- 257	6S	4E	65	11-30-90	<5	<5	<5	<5	<50	<5	<10	<10	<10
SL- 551	4S	3E	12	05-02-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
TANGIPAHOA PARISH--CONTINUED													
TA- 576	7S	9E	38	01-17-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
TA- 579	7S	9E	38	01-17-91	<5	<5	<5	<5	<50	<5	<10	<10	<10
TA-6043Z	7S	9E	2	01-22-91	--	--	--	--	--	--	--	--	--
VERMILION PARISH--CONTINUED													
VE- 903	14S	4E	2	11-30-90	<5	<5	<5	<5	<50	<5	<10	<10	<10
WEST FELICIANA PARISH--CONTINUED													
WF- 232	1S	5W	51	11-28-90	<5	<5	<5	<5	<50	<5	<10	<10	<10

[illegible]

WELL NO.	LOCATION			DATE OF SAMPLE	CHRY-SENE, TOTAL (µG/L)	1,2,5,6-DIBENZ-ANTHRA-CENE, TOTAL (µG/L)	DI-N-BUTYL PHTHAL-ATE, TOTAL (µG/L)	3,3'-DI-CHLORO-BENZI-DINE, TOTAL (µG/L)	DIETHYL PHTHAL-ATE, TOTAL (µG/L)	DI-METHYL PHTHAL-ATE, TOTAL (µG/L)	2,4-DI-NITRO-TOLUENE, TOTAL (µG/L)	2,6-DI-NITRO-TOLUENE, TOTAL (µG/L)
	T.	R.	SEC.									
BEAUREGARD PARISH--CONTINUED												
BE- 378	7S	8W	19	12-04-90	<10	<10	<5	<25	<5	<5	<5	<5
CALCASIEU PARISH--CONTINUED												
CU- 696	9S	9W	16	07-08-91	<10	<10	<5	<25	<5	<5	<5	<5
CONCORDIA PARISH--CONTINUED												
CO- 227	7N	9E	3	06-26-91	<10	<10	<5	<25	<5	<5	<5	<5
EAST BATON ROUGE PARISH--CONTINUED												
EB- 771	7S	1E	81	11-27-90	<10	<5	<5	<25	<5	<5	<5	<5
EAST FELICIANA PARISH--CONTINUED												
EF- 225	1S	1E	85	11-28-90	<10	<10	<5	<25	<5	<5	<5	<5
LAFAYETTE PARISH--CONTINUED												
LF- 520	9S	5E	135	05-21-91	--	--	--	--	--	--	--	--
LIVINGSTON PARISH--CONTINUED												
LI- 185	7S	3E	38	11-27-90	<10	<5	<5	<25	<5	<5	<5	<5
MADISON PARISH--CONTINUED												
MA- 31	16N	12E	31	06-26-91	<10	<10	<5	<25	<5	<5	<5	<5
MOREHOUSE PARISH--CONTINUED												
MO- 363	21N	5E	25	06-05-91	<10	<10	<5	<25	<5	<5	<5	<5
RAPIDES PARISH--CONTINUED												
R- 910	2N	3W	14	05-20-91	<10	<10	<5	<25	<5	<5	<5	<5
RICHLAND PARISH--CONTINUED												
RI- 126	18N	9E	13	06-05-91	<10	<10	<5	<25	<5	<5	<5	<5
ST JOHN THE BAPTIST PARISH--CONTINUED												
SJB- 165	10S	8E	5	11-13-90	<10	<10	<5	<25	<5	<5	<5	<5
SJB- 176	9S	8E	33	09-24-91	<10	<10	<5	<25	<5	<5	<5	<5
				11-13-90	<10	<10	<5	<25	<5	<5	<5	<5
				09-24-91	<10	<10	<5	<25	<5	<5	<5	<5
ST LANDRY PARISH--CONTINUED												
SL- 257	6S	4E	65	11-30-90	<10	<10	<5	<25	<5	<5	<5	<5
SL- 551	4S	3E	12	05-02-91	<10	<10	<5	<25	<5	<5	<5	<5
TANGIPAHOA PARISH--CONTINUED												
TA- 576	7S	9E	38	01-17-91	<10	<10	<5	<25	<5	<5	<5	<5
TA- 579	7S	9E	38	01-17-91	<10	<10	<5	<25	<5	<5	<5	<5
TA-6043Z	7S	9E	2	01-22-91	--	--	--	--	--	--	--	--
VERMILION PARISH--CONTINUED												
VE- 903	14S	4E	2	11-30-90	<10	<10	<5	<25	<5	<5	<5	<5
WEST FELICIANA PARISH--CONTINUED												
WF- 232	1S	5W	51	11-28-90	<10	<10	<5	<25	<5	<5	<5	<5

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^6	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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