08015500 CALCASIEU RIVER NEAR KINDER, LA

Calcasieu-Mermentau Basin
Upper Calcasieu Subbasin

LOCATION.--Lat 30°30'09.2", long 92°54'55.5" referenced to North American Datum of 1983, in NW ¼ SE ¼ sec.30, T.6 S., R.5 W., Allen Parish, LA, 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.--1700.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1922 to January 1925, October 1938 to September 1957, October 1957 to September 1961 (annual maximums) from National Weather Service, October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.95 ft above NGVD 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.--Records good. Prior to November, 1981, paper mill at Elizabeth pumped about 11 ft^3/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 ft^3/s and this diversion results in marked regulation of the low-water flow.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	860	422	1,270	1,390	5,490	6,810	818	1,290	595	406	134	229
2	738	393	1,150	1,250	6,420	5,700	818	1,070	530	386	132	573
3	640	370	1,060	1,160	6,330	4,710	927	942	479	335	146	1,740
4	572	351	943	1,070	5,790	3,920	954	982	494	326	157	4,380
5	525	338	804	963	4,960	3,090	1,340	1,330	480	296	199	5,200
6	493	322	705	853	4,040	2,630	1,630	1,180	438	270	233	5,990
7	478	312	631	767	3,550	2,420	1,720	915	393	243	263	7,080
8	546	307	580	709	3,340	2,180	1,920	763	358	243	246	6,670
9	484	296	536	681	3,080	2,290	1,960	667	336	246	220	4,550
10	455	290	504	661	2,660	2,410	2,010	614	323	227	196	2,980
11	434	284	478	664	2,330	3,270	2,020	586	306	206	173	2,340
12	426	290	458	709	2,190	4,700	1,970	561	294	196	167	2,030
13	417	295	450	746	2,170	5,020	1,860	541	277	196	163	1,720
14	406	299	448	731	2,090	4,710	1,710	531	274	187	155	2,550
15	387	285	459	689	2,320	3,910	1,430	1,290	282	196	148	6,100
16	379	286	484	940	2,310	3,120	1,080	2,610	274	197	199	11,600
17	388	285	537	1,670	4,690	2,660	871	2,610	313	173	256	19,800
18	412	377	600	2,170	6,900	2,360	819	2,380	300	170	230	15,900
19	438	521	680	2,410	8,740	2,170	803	1,870	304	169	241	8,930
20	638	730	680	2,560	10,800	2,000	782	1,470	307	172	291	4,540
21	684	1,140	848	2,510	13,200	1,750	760	1,370	320	161	330	2,880
22	616	1,240	1,500	2,310	13,100	1,520	747	1,430	386	144	311	2,300
23	549	1,010	2,120	1,950	10,000	1,330	1,330	1,600	632	139	331	2,030
24	514	936	2,320	2,300	7,440	1,190	1,360	1,790	492	194	448	1,790
25	537	1,400	2,040	4,290	6,630	1,090	1,430	1,860	370	434	529	1,440
26	635	1,670	1,750	5,230	6,450	1,030	1,690	1,580	340	241	424	1,110
27	579	1,730	1,570	5,440	6,260	987	1,710	1,040	323	200	373	904
28	504	1,910	1,510	5,120	6,620	937	1,640	755	345	173	342	784
29	472	1,840	1,630	4,400	7,300	909	1,610	642	404	157	289	703
30	477	1,500	1,670	3,720	---	886	1,500	582	464	148	258	644
31	456	---	1,540	3,740	---	840	---	551	---	135	220	---
Total	16,139	21,429	31,955	63,803	167,200	82,549	41,219	37,402	11,433	6,966	7,804	129,487
Mean	521	714	1,031	2,058	5,766	2,663	1,374	1,207	381	225	252	4,316
Max	860	1,910	2,320	5,440	13,200	6,810	2,020	2,610	632	434	529	19,800
Min	379	284	448	661	2,090	840	747	531	274	135	132	229
Ac-ft	32,010	42,500	63,380	126,600	331,600	163,700	81,760	74,190	22,680	13,820	15,480	256,800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,175	1,818	3,645	4,302	4,598	3,927	3,425	3,391	1,818	1,412	962	958
Max	9,258	14,060	20,030	12,880	11,760	11,880	14,730	36,390	9,601	20,130	12,370	7,285
(WY)	(1985)	(2003)	(1983)	(1998)	(1950)	(1995)	(1923)	(1953)	(1950)	(1989)	(1940)	(1979)
Min	188	182	308	300	276	494	472	378	289	225	209	224
(WY)	(2001)	(2006)	(1955)	(1981)	(2000)	(2000)	(1981)	(1963)	(1948)	(2008)	(2000)	(2000)

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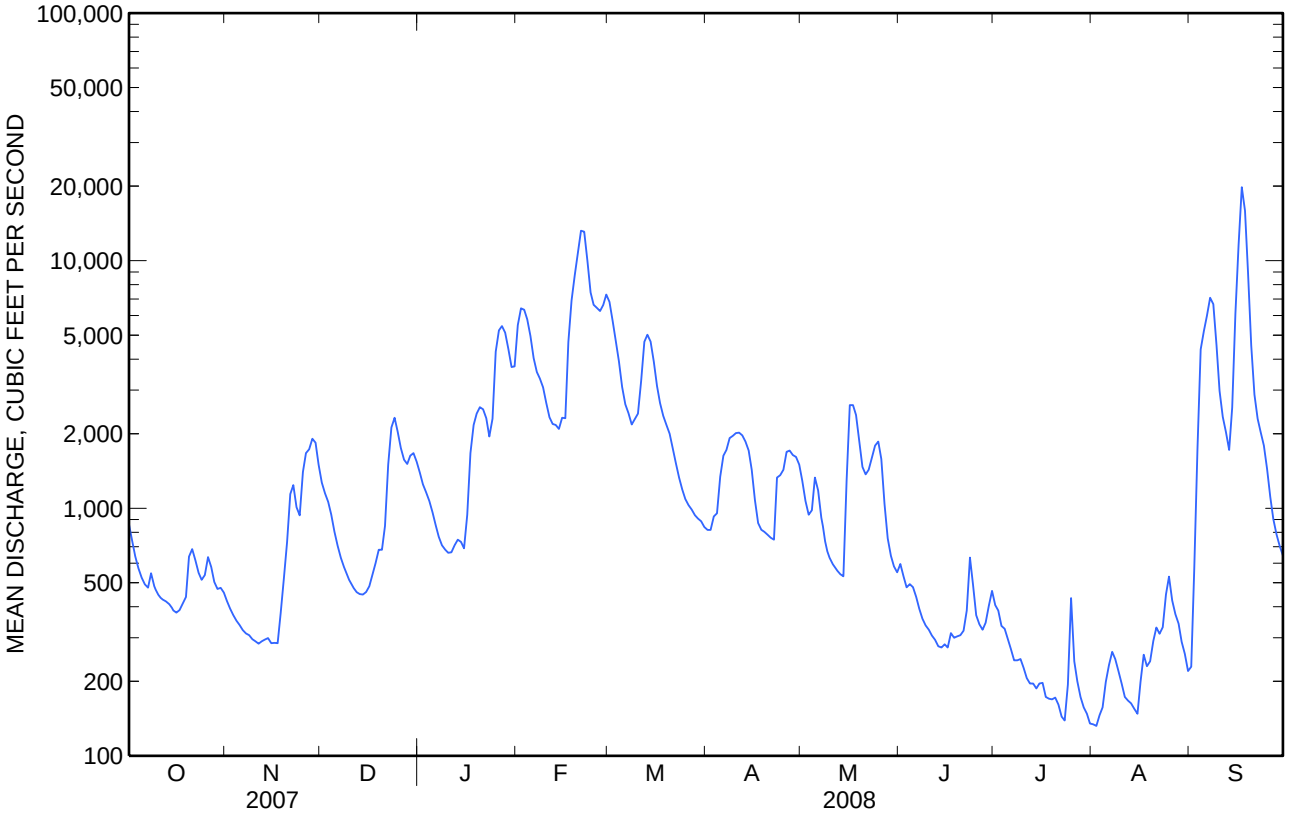
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1923 - 2008	
Annual total	753,164		617,386			
Annual mean	2,063		1,687		2,616	
Highest annual mean					4,979	1983
Lowest annual mean					629	2000
Highest daily mean	35,000	Jan 7	19,800	Sep 17	166,000	May 20, 1953
Lowest daily mean	284	Nov 11	132	Aug 2	127	Nov 14, 2005
Annual seven-day minimum	289	Nov 11	144	Jul 29	134	Nov 9, 2005
Maximum peak flow			21,600	Sep 17	182,000	May 19, 1953
Maximum peak stage			18.01	Sep 17	32.00	May 19, 1953
Instantaneous low flow			103	Jul 31	103	Jul 31, 2008
Annual runoff (ac-ft)	1,494,000		1,225,000		1,895,000	
10 percent exceeds	4,510		4,590		6,050	
50 percent exceeds	1,000		774		1,030	
90 percent exceeds	410		232		327	



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.60	2.22	4.92	5.30	12.23	14.04	3.65	5.03	2.97	2.30	1.30	1.62
2	3.22	2.13	4.61	4.93	13.44	13.22	3.65	4.41	2.76	2.24	1.29	2.74
3	2.92	2.06	4.33	4.68	13.57	12.13	3.98	4.02	2.60	2.07	1.34	6.01
4	2.70	2.01	3.99	4.41	13.18	11.03	4.06	4.14	2.65	2.03	1.38	10.77
5	2.55	1.97	3.58	4.08	12.42	9.58	5.16	5.15	2.60	1.94	1.52	12.24
6	2.44	1.92	3.28	3.75	11.22	8.42	5.96	4.72	2.46	1.85	1.64	12.97
7	2.39	1.89	3.06	3.49	10.31	7.95	6.17	3.94	2.32	1.75	1.75	13.93
8	2.61	1.88	2.90	3.32	9.86	7.34	6.69	3.48	2.21	1.75	1.69	13.98
9	2.41	1.85	2.77	3.23	9.38	7.62	6.80	3.19	2.13	1.76	1.59	12.31
10	2.32	1.84	2.67	3.17	8.50	7.90	6.93	3.03	2.09	1.69	1.50	9.55
11	2.25	1.82	2.60	3.18	7.72	9.26	6.93	2.94	2.03	1.61	1.42	7.69
12	2.23	1.85	2.54	3.32	7.36	11.45	6.81	2.86	1.99	1.57	1.40	6.90
13	2.20	1.87	2.51	3.43	7.31	12.17	6.55	2.80	1.92	1.56	1.38	6.09
14	2.16	1.89	2.51	3.39	7.12	11.97	6.16	2.77	1.91	1.53	1.36	7.68
15	2.10	1.85	2.54	3.26	7.67	11.05	5.40	4.97	1.94	1.56	1.33	12.44
16	2.07	1.85	2.62	4.01	7.67	9.60	4.44	8.30	1.91	1.56	1.52	15.49
17	2.11	1.85	2.79	6.04	10.84	8.49	3.81	8.36	2.03	1.47	1.72	17.74
18	2.18	2.16	2.98	7.31	13.57	7.78	3.65	7.83	1.99	1.46	1.63	17.26
19	2.27	2.63	3.23	7.88	14.83	7.31	3.60	6.56	2.00	1.46	1.67	15.38
20	2.91	3.29	3.23	8.24	15.63	6.88	3.54	5.53	2.01	1.46	1.84	12.59
21	3.05	4.54	3.74	8.12	16.38	6.26	3.47	5.24	2.04	1.42	1.97	9.32
22	2.84	4.83	5.58	7.66	16.51	5.66	3.44	5.40	2.26	1.36	1.91	7.61
23	2.62	4.16	7.18	6.77	15.66	5.14	5.10	5.86	3.03	1.34	1.97	6.94
24	2.51	3.94	7.68	7.46	14.52	4.76	5.21	6.35	2.59	1.52	2.35	6.32
25	2.58	5.27	6.98	10.71	13.87	4.46	5.41	6.55	2.20	2.33	2.61	5.39
26	2.90	6.01	6.26	12.25	13.67	4.28	6.10	5.80	2.10	1.70	2.27	4.47
27	2.72	6.16	5.80	12.64	13.49	4.16	6.14	4.31	2.05	1.55	2.11	3.85
28	2.48	6.62	5.63	12.45	13.65	4.01	5.98	3.46	2.12	1.45	2.01	3.48
29	2.37	6.47	5.94	11.68	14.17	3.92	5.89	3.12	2.30	1.38	1.83	3.23
30	2.39	5.55	6.05	10.68	---	3.85	5.61	2.93	2.49	1.35	1.73	3.05
31	2.32	---	5.70	10.22	---	3.71	---	2.83	---	1.31	1.59	---
Max	3.60	6.62	7.68	12.64	16.51	14.04	6.93	8.36	3.03	2.33	2.61	17.74
Min	2.07	1.82	2.51	3.17	7.12	3.71	3.44	2.77	1.91	1.31	1.29	1.62