Water-Data Report 2012

07382000 Bayou Cocodrie near Clearwater, LA

Atchafalaya-Vermilion Basin
Bayou Teche Subbasin

LOCATION.--Lat 31°00′01″, long 92°22′49″ referenced to North American Datum of 1983, in NW ¼ SW ¼ sec.4, T.1 S., R.1 E., Rapides Parish, LA, 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.--240.00 mi^2, See REMARKS.

SURFACE-WATER RECORDS

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 NGVD of 1929 (levels by Corps of Engineers) and 39.57 ft above sea level (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 sea level.

REMARKS.--Records good. Slight regulation at low flow by Cocodrie Lake 0.15 mi upstream. Reverse flow: Nov. 13-15, 1922.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 07382000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07382000.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	33	34	76	396	786	1,280	916	214	41	117	120	156
2	31	34	70	355	873	1,250	893	192	39	115	117	278
3	29	36	65	320	1,040	1,220	875	173	38	114	114	322
4	28	29	63	290	1,540	1,190	889	157	38	114	112	312
5	27	29	66	266	2,100	1,150	928	142	37	113	111	292
6	31	29	71	244	2,270	1,120	950	127	56	112	110	271
7	31	29	68	224	2,180	1,090	940	115	57	112	110	249
8	27	28	65	205	2,000	1,060	916	116	49	111	109	230
9	22	41	63	196	1,840	1,070	889	109	46	112	109	213
10	17	40	62	334	1,710	1,090	864	98	46	112	110	196
11	15	40	60	465	1,590	1,090	839	88	45	117	111	180
12	17	39	56	588	1,490	1,090	810	102	63	116	112	164
13	18	39	51	605	1,420	1,200	781	109	72	119	112	109
14	18	39	51	559	1,390	1,250	750	105	85	120	111	40
15	20	39	51	500	1,370	1,240	715	97	99	121	111	38
16	20	38	62	444	1,460	1,220	724	90	116	119	110	36
17	20	36	71	409	1,580	1,190	734	81	108	117	110	46
18	23	35	73	390	1,690	1,160	732	74	100	115	114	78
19	24	35	80	363	1,980	1,120	718	65	97	114	126	83
20	25	35	114	346	2,110	1,090	683	58	85	115	138	88
21	26	35	139	327	2,040	1,100	624	56	73	122	144	81
22	28	41	175	301	1,900	1,130	558	53	64	120	144	72
23	30	50	224	276	1,760	1,150	499	49	55	129	140	67
24	31	49	277	252	1,620	1,140	448	47	50	142	136	65
25	32	49	394	256	1,510	1,120	401	43	51	148	136	65
26	33	52	491	449	1,440	1,090	359	39	44	146	138	59
27	33	74	549	689	1,390	1,060	325	36	96	144	134	50
28	34	82	557	780	1,350	1,030	291	34	135	140	130	48
29	34	80	529	776	1,320	999	261	33	127	135	126	52
30	35	79	487	754	---	972	238	31	120	130	129	103
31	35	---	440	729	---	944	---	32	---	125	130	---
Total	827	1,295	5,600	13,088	46,749	34,905	20,550	2,765	2,132	3,786	3,764	4,043
Mean	26.7	43.2	181	422	1,612	1,126	685	89.2	71.1	122	121	135
Max	35	82	557	780	2,270	1,280	950	214	135	148	144	322
Min	15	28	51	196	786	944	238	31	37	111	109	36
Ac-ft	1,640	2,570	11,110	25,960	92,730	69,230	40,760	5,480	4,230	7,510	7,470	8,020
Cfsm	0.11	0.18	0.75	1.76	6.72	4.69	2.85	0.37	0.30	0.51	0.51	0.56
In.	0.13	0.20	0.87	2.03	7.25	5.41	3.19	0.43	0.33	0.59	0.58	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	204	326	513	617	682	620	567	506	310	257	202	200
Max	1,174	2,534	1,738	1,780	1,612	1,287	1,672	4,052	1,175	1,921	943	1,516
(WY)	(1985)	(2003)	(1983)	(1983)	(2012)	(1997)	(1995)	(1953)	(1989)	(1989)	(1975)	(2008)
Min	6.73	6.65	60.7	103	65.1	106	87.9	40.6	26.6	21.6	21.6	39.3
(WY)	(2011)	(2011)	(2011)	(1981)	(2000)	(2007)	(2011)	(2011)	(2011)	(2011)	(2011)	(2010)

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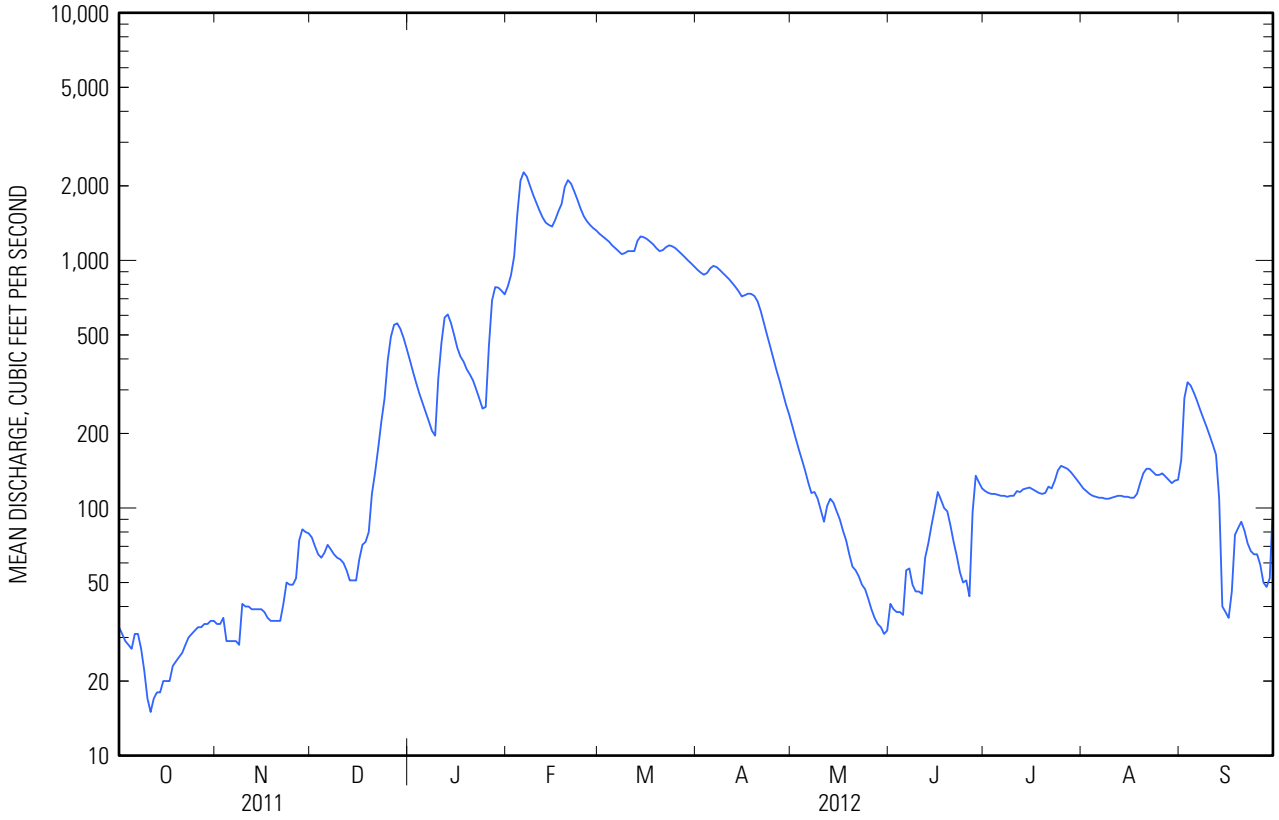
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1923 - 2012	
Annual total	33,296		139,504			
Annual mean	91.2		381		418	
Highest annual mean					720	1983
Lowest annual mean					76.3	2011
Highest daily mean	557	Dec 28	2,270	Feb 6	25,000	May 19, 1953
Lowest daily mean	15	Oct 11	15	Oct 11	[a]0.00	Nov 13, 1922
Annual seven-day minimum	18	Oct 10	18	Oct 10	5.0	Nov 16, 2010
Maximum peak flow			2,280	Feb 6	28,200	May 18, 1953
Maximum peak stage			20.31	Feb 6	26.72	May 18, 1953
Instantaneous low flow			[d]15	Oct 10	[b,c]0.80	Nov 25, 1999
Annual runoff (ac-ft)	66,040		276,700		302,900	
Annual runoff (cfsm)	0.380		1.59		1.74	
Annual runoff (inches)	5.16		21.62		23.67	
10 percent exceeds	236		1,150		967	
50 percent exceeds	45		117		250	
90 percent exceeds	21		34		79	

[a] Reverse flow Nov. 13-15, 1922, probably caused by heavy rains in basin below station.
[b] Minimum discharge when unaffected by backwater.
[c] Also occurred Nov. 26, 1999.
[d] Also occurred Oct. 11 and 12.



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.75	4.89	5.60	9.69	13.54	17.63	14.71	7.33	4.89	5.99	6.04	6.54
2	4.71	4.91	5.52	9.23	14.33	17.38	14.51	7.03	4.85	5.97	5.99	8.20
3	4.67	4.93	5.46	8.82	15.74	17.16	14.35	6.78	4.83	5.95	5.95	8.78
4	4.64	4.78	5.42	8.45	18.74	16.91	14.47	6.55	4.82	5.95	5.92	8.66
5	4.65	4.77	5.47	8.14	20.05	16.66	14.81	6.34	4.80	5.94	5.91	8.40
6	4.77	4.77	5.54	7.84	20.30	16.40	15.00	6.13	5.16	5.92	5.90	8.12
7	4.77	4.78	5.50	7.56	20.16	16.15	14.91	5.97	5.18	5.92	5.89	7.82
8	4.68	4.73	5.46	7.32	19.89	15.90	14.71	5.98	5.05	5.91	5.88	7.55
9	4.52	5.05	5.43	7.19	19.60	15.99	14.47	5.88	4.99	5.92	5.88	7.32
10	4.35	5.04	5.40	8.97	19.34	16.15	14.25	5.73	5.00	5.93	5.90	7.09
11	4.25	5.03	5.38	10.41	19.07	16.15	14.02	5.60	4.98	6.00	5.91	6.87
12	4.34	5.02	5.32	11.59	18.80	16.12	13.76	5.79	5.28	5.98	5.92	6.65
13	4.41	5.02	5.25	11.74	18.55	17.02	13.49	5.88	5.40	6.02	5.92	5.90
14	4.42	5.02	5.24	11.32	18.35	17.38	13.20	5.83	5.57	6.04	5.92	4.87
15	4.47	5.00	5.24	10.76	18.21	17.33	12.85	5.72	5.75	6.05	5.91	4.82
16	4.48	4.99	5.41	10.20	18.70	17.13	12.95	5.62	5.98	6.01	5.90	4.80
17	4.49	4.95	5.53	9.83	19.05	16.90	13.05	5.52	5.87	5.99	5.89	4.99
18	4.61	4.92	5.57	9.62	19.29	16.66	13.03	5.43	5.76	5.97	5.95	5.49
19	4.64	4.92	5.65	9.33	19.85	16.41	12.89	5.31	5.71	5.96	6.12	5.55
20	4.65	4.91	6.08	9.13	20.06	16.18	12.55	5.21	5.56	5.97	6.28	5.60
21	4.68	4.91	6.43	8.90	19.95	16.21	11.94	5.16	5.42	6.06	6.37	5.52
22	4.75	5.05	6.92	8.59	19.70	16.43	11.30	5.11	5.29	6.03	6.36	5.40
23	4.80	5.21	7.56	8.27	19.44	16.60	10.73	5.05	5.15	6.17	6.31	5.34
24	4.83	5.20	8.28	7.95	19.16	16.55	10.21	5.01	5.07	6.34	6.26	5.31
25	4.85	5.20	9.66	8.00	18.88	16.35	9.70	4.93	5.08	6.43	6.26	5.30
26	4.87	5.25	10.67	10.23	18.62	16.12	9.23	4.85	4.95	6.40	6.29	5.21
27	4.86	5.58	11.23	12.60	18.37	15.88	8.81	4.79	5.69	6.38	6.23	5.07
28	4.90	5.67	11.30	13.48	18.12	15.65	8.38	4.73	6.24	6.31	6.18	5.03
29	4.91	5.66	11.04	13.44	17.88	15.41	7.99	4.71	6.14	6.25	6.13	5.10
30	4.91	5.64	10.64	13.24	---	15.18	7.67	4.66	6.04	6.18	6.16	5.81
31	4.91	---	10.16	12.99	---	14.95	---	4.68	---	6.10	6.17	---
Max	4.91	5.67	11.30	13.48	20.30	17.63	15.00	7.33	6.24	6.43	6.37	8.78
Min	4.25	4.73	5.24	7.19	13.54	14.95	7.67	4.66	4.80	5.91	5.88	4.80