Water-Data Report 2013

08012000 BAYOU NEZPIQUE NEAR BASILE, LA

Calcasieu-Mermentau Basin
Mermentau Headwaters Subbasin

LOCATION.--Lat 30°28'50.8", long 92°37'54.3" referenced to North American Datum of 1983, in NE ¼ NW ¼ sec.1, T.7 S., R.3 W., Jefferson Davis Parish, LA, Hydrologic Unit 08080201, near right bank on U.S. Highway 190, 1,300 ft downstream from Missouri Pacific Railroad bridge, and 2.0 mi west of Basile.

DRAINAGE AREA.--527.00 mi^2.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WSP 1512: 1945-55.

GAGE.--Water-stage recorder. Datum of gage is 3.58 ft NAVD 88. Prior to May 2003 datum of gage was 3.39 ft above NGVD 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 from July 7, 1979 to Sep. 30, 1984. Mar. 27, 1945 to July 6, 1979, auxiliary nonrecording gage at same site and datum.

REMARKS.--Records good, except for periods of estimated daily discharge which are poor. Diversion for irrigation by Mamou pumping plant may affect stage-discharge relation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft^3/s, May 20, 1953, gage height, 34.39 ft; Minimum discharge, 0.10 cfs ft^3/s, June 29, 1948.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,510	30	28	2,600	154	1,350	91	188	105	134	115	4.7
2	2,310	27	24	3,180	133	888	111	245	74	124	92	4.5
3	2,590	26	23	3,920	118	473	554	333	58	124	78	4.9
4	2,430	25	37	4,170	109	241	1,590	323	55	139	65	3.8
5	1,940	21	201	4,050	112	169	1,850	258	44	111	50	2.4
6	954	22	323	3,900	109	168	1,370	207	38	102	37	2.4
7	321	22	236	3,730	163	168	718	181	47	111	34	2.6
8	115	19	134	3,540	368	177	361	149	64	117	34	2.4
9	55	16	78	3,500	415	173	186	112	108	134	34	34
10	37	14	55	5,670	345	202	114	322	159	157	35	52
11	33	13	58	9,870	1,000	849	190	1,550	206	135	33	34
12	26	14	76	13,900	2,340	1,750	937	2,250	169	93	36	23
13	20	14	66	15,500	3,290	1,980	1,230	2,450	121	89	31	19
14	17	22	62	15,000	3,560	1,820	957	2,300	85	101	27	21
15	24	26	52	13,300	3,420	1,570	712	1,930	70	93	33	38
16	27	25	55	11,600	3,100	1,160	561	1,260	68	93	33	37
17	26	23	361	9,790	2,700	656	382	583	60	118	38	21
18	26	23	657	7,880	2,290	339	227	252	48	112	41	12
19	88	22	509	6,250	1,990	197	160	136	48	90	25	6.2
20	164	19	300	5,080	1,830	159	160	98	176	73	19	5.9
21	116	18	169	4,310	1,500	160	192	82	365	62	29	574
22	86	20	106	3,760	1,340	125	158	332	575	67	45	1,670
23	62	20	75	3,280	1,730	90	112	1,400	749	87	41	2,160
24	51	18	62	2,720	1,920	96	411	1,720	549	140	34	2,050
25	42	19	68	1,850	1,780	100	1,710	1,630	408	162	30	1,360
26	36	22	323	1,020	1,720	93	2,340	1,530	410	150	21	595
27	34	35	522	569	1,850	77	2,200	1,370	375	115	15	212
28	28	36	711	356	1,750	102	1,450	1,010	291	121	13	94
29	27	37	1,740	244	---	98	678	553	219	116	15	62
30	34	33	2,410	198	---	100	299	267	157	108	14	45
31	34	---	2,560	177	---	113	---	155	---	122	8.4	---
Total	13,263	681	12,081	164,914	41,136	15,643	22,011	25,176	5,901	3,500	1,155.4	9,152.8
Mean	428	22.7	390	5,320	1,469	505	734	812	197	113	37.3	305
Max	2,590	37	2,560	15,500	3,560	1,980	2,340	2,450	749	162	115	2,160
Min	17	13	23	177	109	77	91	82	38	62	8.4	2.4
Ac-ft	26,310	1,350	23,960	327,100	81,590	31,030	43,660	49,940	11,700	6,940	2,290	18,150
Cfsm	0.81	0.04	0.74	10.1	2.79	0.96	1.39	1.54	0.37	0.21	0.07	0.58
In.	0.94	0.05	0.85	11.64	2.90	1.10	1.55	1.78	0.42	0.25	0.08	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	378	566	1,071	1,459	1,559	1,083	1,002	954	492	532	363	427
Max	3,027	4,751	4,259	5,850	6,528	3,301	5,598	9,202	2,459	4,695	5,169	3,109
(WY)	(2003)	(1986)	(1972)	(1998)	(1955)	(1980)	(1995)	(1953)	(1940)	(1989)	(1940)	(1979)
Min	3.81	10.3	46.4	18.4	8.28	79.0	12.9	7.05	0.38	10.8	23.0	9.96
(WY)	(1949)	(1951)	(1959)	(2000)	(2000)	(2006)	(1946)	(1951)	(1948)	(1944)	(1947)	(1999)

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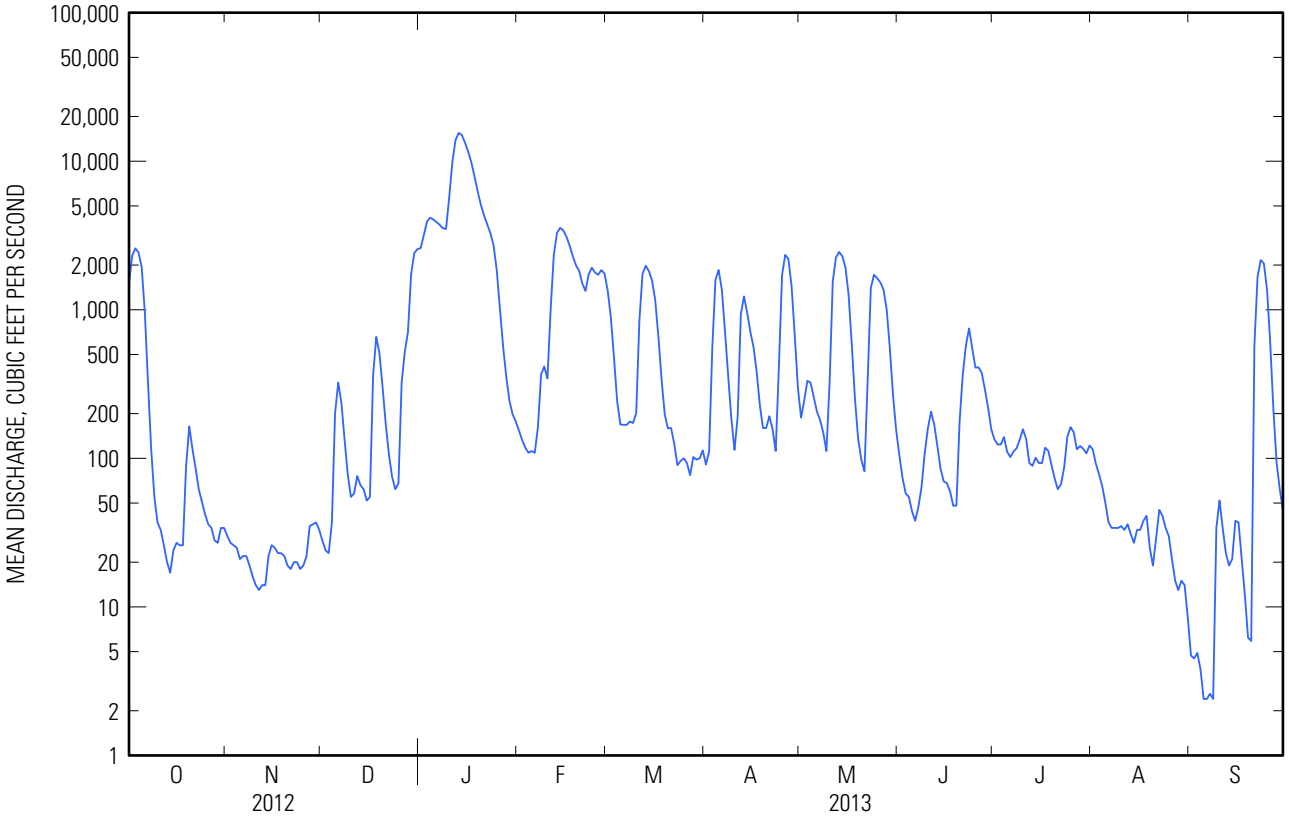
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1939 - 2013	
Annual total	336,558		314,614.2			
Annual mean	920		862		820	
Highest annual mean					1,639	1973
Lowest annual mean					117	2011
Highest daily mean	7,350	Feb 6	15,500	Jan 13	35,100	May 20, 1953
Lowest daily mean	10	May 29	2.4	Sep 5	0.10	Jun 7, 1943
Annual seven-day minimum	12	May 26	3.3	Sep 2	0.10	Jun 22, 1948
Maximum peak flow			15,700	Jan 13	35,800	May 20, 1953
Maximum peak stage			26.06	Jan 13	34.39	May 20, 1953
Instantaneous low flow			1.9	Sep 8	0.10	Jun 29, 1948
Annual runoff (ac-ft)	667,600		624,000		594,400	
Annual runoff (cfsm)	1.74		1.64		1.56	
Annual runoff (inches)	23.76		22.21		21.15	
10 percent exceeds	3,510		2,320		2,550	
50 percent exceeds	118		125		160	
90 percent exceeds	22		22		13	



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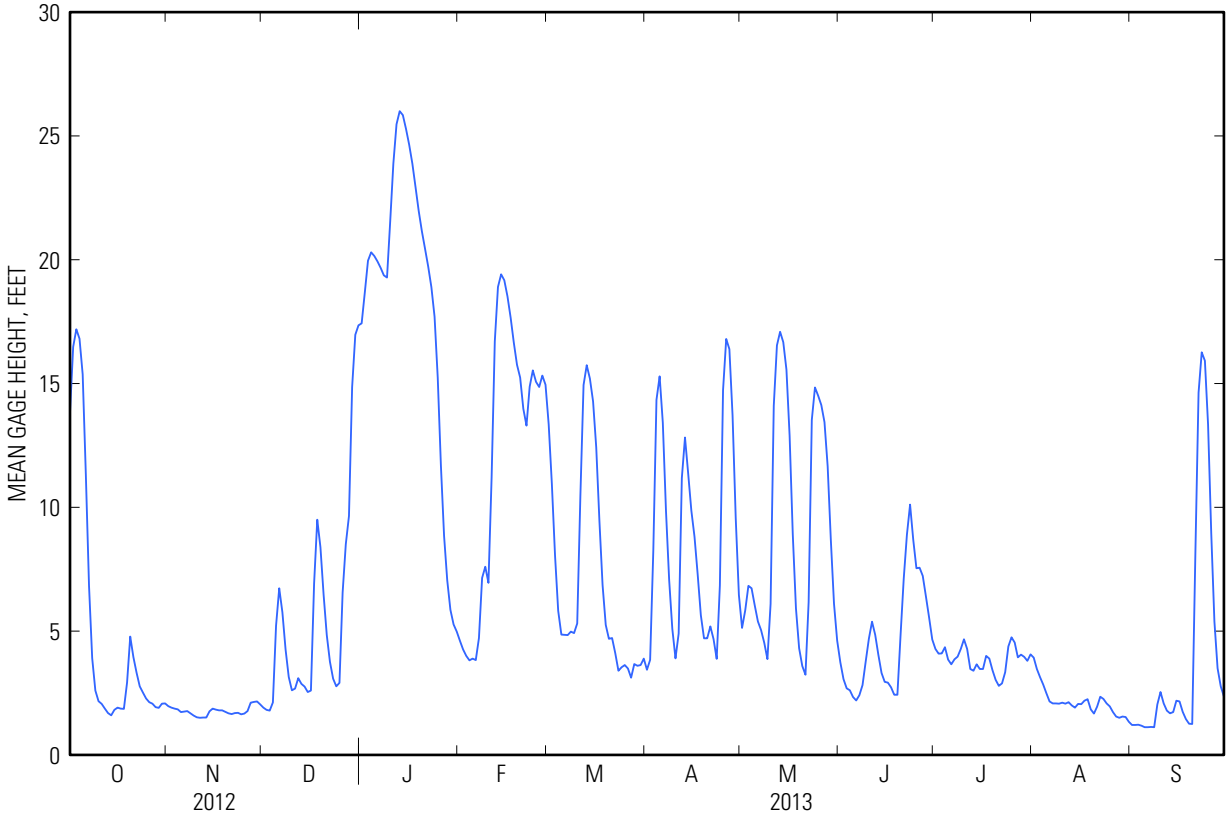
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13.83	1.97	1.91	17.43	4.61	13.35	3.44	5.13	3.74	4.28	3.93	1.21
2	16.48	1.91	1.82	18.68	4.26	10.95	3.84	5.84	3.06	4.09	3.47	1.21
3	17.19	1.87	1.79	19.96	4.00	8.06	8.24	6.83	2.69	4.10	3.14	1.22
4	16.81	1.84	2.12	20.30	3.82	5.82	14.34	6.73	2.61	4.35	2.84	1.18
5	15.37	1.73	5.22	20.15	3.89	4.86	15.29	6.04	2.34	3.85	2.49	1.12
6	11.31	1.75	6.73	19.93	3.83	4.85	13.42	5.39	2.20	3.66	2.16	1.12
7	6.83	1.77	5.76	19.67	4.72	4.84	9.86	5.04	2.41	3.86	2.08	1.13
8	3.91	1.68	4.26	19.37	7.15	4.98	7.07	4.53	2.82	3.97	2.08	1.12
9	2.60	1.59	3.15	19.28	7.60	4.92	5.09	3.87	3.77	4.28	2.07	2.04
10	2.17	1.52	2.61	21.53	6.95	5.31	3.90	6.10	4.69	4.67	2.11	2.54
11	2.06	1.50	2.68	23.88	11.22	10.47	4.90	14.10	5.38	4.28	2.07	2.08
12	1.87	1.51	3.10	25.47	16.70	14.94	11.18	16.54	4.85	3.47	2.13	1.79
13	1.69	1.51	2.87	26.00	18.90	15.74	12.82	17.09	4.04	3.40	2.00	1.68
14	1.60	1.76	2.76	25.84	19.41	15.20	11.37	16.67	3.31	3.66	1.91	1.73
15	1.82	1.87	2.54	25.28	19.17	14.28	9.87	15.56	2.95	3.47	2.06	2.19
16	1.91	1.83	2.60	24.64	18.52	12.42	8.81	12.89	2.92	3.47	2.05	2.16
17	1.87	1.80	6.92	23.88	17.66	9.46	7.29	8.90	2.73	4.00	2.19	1.74
18	1.86	1.80	9.50	22.93	16.65	6.86	5.64	5.92	2.43	3.89	2.25	1.45
19	2.92	1.74	8.39	21.97	15.76	5.25	4.71	4.31	2.43	3.42	1.84	1.26
20	4.78	1.68	6.47	21.15	15.24	4.69	4.71	3.59	4.84	3.03	1.67	1.25
21	3.95	1.65	4.84	20.44	13.98	4.72	5.19	3.24	7.12	2.79	1.95	8.16
22	3.32	1.69	3.76	19.72	13.30	4.11	4.68	6.17	8.89	2.89	2.35	14.63
23	2.77	1.70	3.08	18.89	14.87	3.40	3.88	13.53	10.11	3.34	2.26	16.26
24	2.52	1.64	2.77	17.70	15.53	3.54	6.84	14.84	8.69	4.38	2.08	15.92
25	2.28	1.67	2.91	15.24	15.07	3.63	14.73	14.51	7.54	4.75	1.96	13.34
26	2.13	1.77	6.56	11.69	14.86	3.49	16.80	14.13	7.56	4.54	1.73	8.96
27	2.07	2.11	8.51	8.85	15.32	3.12	16.39	13.44	7.23	3.94	1.55	5.39
28	1.93	2.14	9.65	7.05	14.95	3.67	13.72	11.66	6.40	4.05	1.50	3.50
29	1.90	2.16	14.86	5.86	---	3.60	9.57	8.69	5.55	3.96	1.55	2.77
30	2.07	2.04	16.97	5.27	---	3.63	6.46	6.11	4.66	3.80	1.53	2.36
31	2.08	---	17.35	4.98	---	3.89	---	4.62	---	4.06	1.34	---
Max	17.19	2.16	17.35	26.00	19.41	15.74	16.80	17.09	10.11	4.75	3.93	16.26
Min	1.60	1.50	1.79	4.98	3.82	3.12	3.44	3.24	2.20	2.79	1.34	1.12

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