Water-Data Report 2012

07383500 Bayou Des Glaises diversion channel at Moreauville, LA

Atchafalaya-Vermilion Basin
Bayou Teche Subbasin

LOCATION.--Lat 31°01′59″, long 91°58′57″ referenced to North American Datum of 1927, in NE ¼ sec.29, T.1 N., R.5 E., Avoyelles Parish, LA, 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 Glaises.

DRAINAGE AREA.--270.00 mi^2, (See REMARKS).

SURFACE-WATER RECORDS

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 NGVD 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 Glaises diversion channel near Moreauville (station 07383510) used as auxiliary gage for this station since Apr. 17, 1972.

REMARKS.--Records good, except for periods of estimated record, which are poor. Diversion channel carries natural flow of Bayou des Glaises except when operation of floodgates on Bayou des Glaises 2.5 mi east of Bordelonville, 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. Satellite telemetry at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--69 years (1944 to current), 428 ft^3/s, 310,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,340 ft^3/s, May 18, 1953, gage height, 22.68 ft, present datum; minimum, 1.8 ft^3/s, June 21, Aug. 21,22, 2011.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,530 ft^3/s, Feb. 19, gage height, 18.42 ft; maximum gage height, 18.89 ft.; minimum discharge, 3.2 ft^3/s, Oct. 13, 14, gage height, 2.85 ft.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30	5.7	49	725	e1,550	1,550	709	80	24	16	85	295
2	27	5.3	32	637	1,640	1,470	612	65	28	16	84	617
3	25	5.1	25	446	1,730	1,400	413	40	35	15	92	635
4	24	5.3	25	247	2,130	1,320	849	34	36	14	81	612
5	21	5.5	27	168	2,080	1,250	909	67	37	13	e78	488
6	19	6.2	32	127	1,970	1,170	820	72	34	13	e35	236
7	16	6.3	41	103	1,960	1,110	785	58	45	14	22	123
8	13	6.6	51	89	1,940	1,050	740	63	60	17	32	68
9	11	22	41	e138	1,930	1,200	663	117	45	17	30	41
10	12	78	30	e984	1,940	1,230	484	108	43	22	29	28
11	8.4	39	22	e1,130	1,950	1,160	357	99	64	99	36	21
12	4.8	17	21	e983	1,910	1,160	294	95	65	254	156	16
13	3.8	10	22	e897	1,880	1,190	225	145	72	425	165	13
14	3.5	8.3	23	e840	1,900	1,190	194	203	84	384	109	14
15	3.6	8.0	37	e785	1,900	1,170	171	163	86	339	83	49
16	4.5	6.7	100	e727	2,410	1,130	155	139	155	276	67	50
17	13	10	111	e717	2,320	1,080	431	112	151	206	56	44
18	14	14	119	e782	2,230	1,020	623	91	114	157	85	57
19	11	12	100	e713	2,470	952	600	77	79	137	631	88
20	8.9	11	150	e624	2,300	886	510	72	56	116	564	106
21	7.6	12	310	e517	2,210	1,270	340	79	45	88	420	85
22	6.5	19	449	e376	2,150	1,540	262	87	34	109	238	61
23	6.0	45	698	e272	2,100	e1,290	231	66	32	e206	158	49
24	6.2	59	648	e199	2,050	e1,180	184	44	24	e226	115	39
25	6.2	53	e907	e221	1,980	e1,100	160	22	26	185	95	31
26	6.9	45	e1,130	e1,000	1,890	e1,060	162	19	35	141	118	27
27	7.1	42	1,120	e987	1,810	1,010	142	17	32	104	145	24
28	7.4	68	e1,000	928	1,720	945	103	19	26	83	127	23
29	6.6	119	e924	923	1,630	881	91	25	20	e114	107	28
30	6.1	84	845	921	---	826	85	24	17	e123	96	87
31	5.3	---	783	909	---	769	---	27	---	102	90	---
Total	345.4	828.0	9,872	19,115	57,680	35,559	12,304	2,329	1,604	4,031	4,229	4,055
Mean	11.1	27.6	318	617	1,989	1,147	410	75.1	53.5	130	136	135
Max	30	119	1,130	1,130	2,470	1,550	909	203	155	425	631	635
Min	3.5	5.1	21	89	1,550	769	85	17	17	13	22	13
Ac-ft	685	1,640	19,580	37,910	114,400	70,530	24,400	4,620	3,180	8,000	8,390	8,040

	Calendar Year 2011	Water Year 2012
Total	53,923.6	151,951.4
Mean	148	415
Max	1,380	2,470
Min	2.4	3.5
Ac-ft	107,000	301,400

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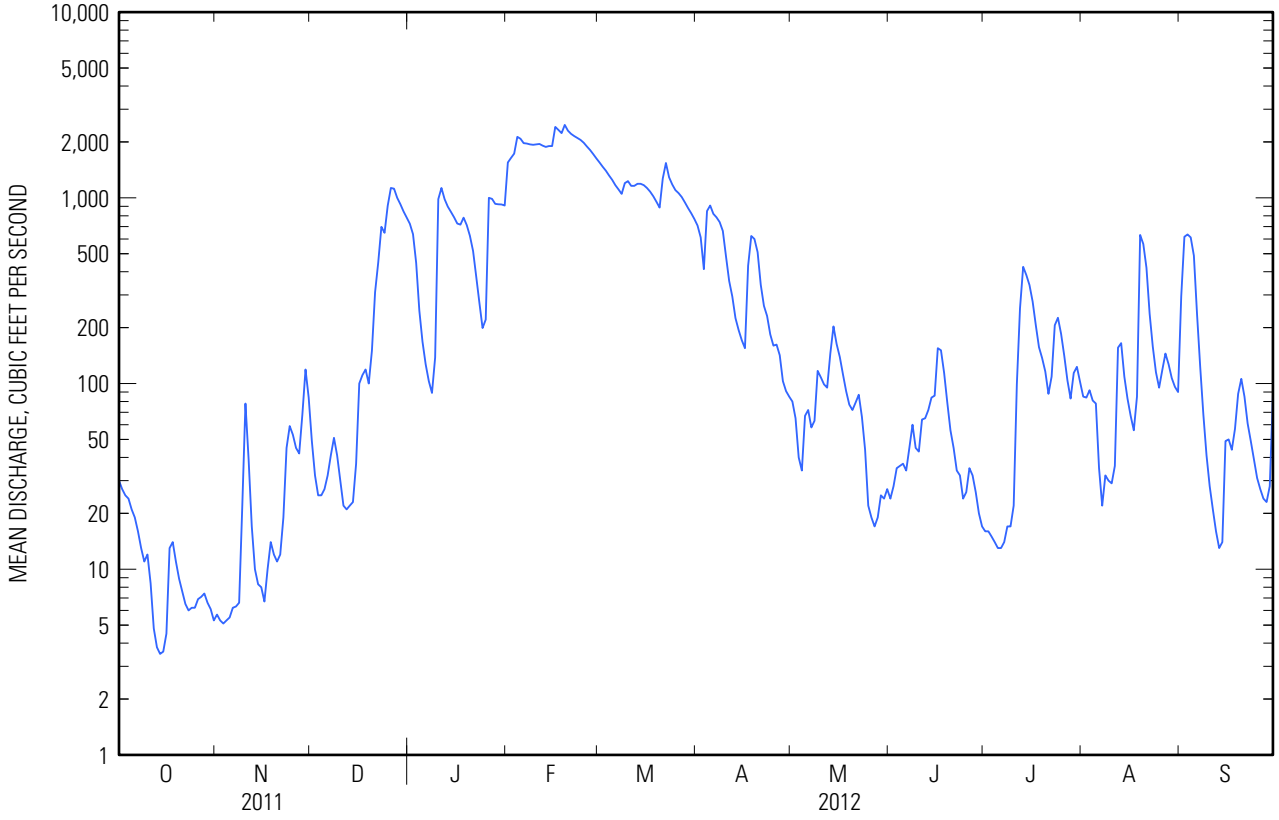

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.35	2.92	3.57	7.24	12.08	11.28	7.14	3.84	3.26	3.13	3.87	4.94
2	3.31	2.91	3.38	6.71	13.29	10.95	6.55	3.72	3.32	3.12	3.87	6.59
3	3.28	2.90	3.29	5.63	13.18	10.63	5.48	3.47	3.41	3.10	3.93	6.70
4	3.26	2.91	3.29	4.79	15.68	10.26	7.92	3.39	3.42	3.09	3.85	6.56
5	3.22	2.91	3.31	4.39	15.09	9.93	8.26	3.74	3.42	3.08	e3.82	5.83
6	3.19	2.93	3.39	4.16	13.60	9.59	7.78	3.78	3.40	3.08	e3.40	4.73
7	3.13	2.93	3.50	4.00	13.05	9.26	7.58	3.65	3.52	3.10	3.23	4.13
8	3.07	2.94	3.59	3.91	12.85	8.96	7.32	3.69	3.68	3.14	3.36	3.74
9	3.03	3.20	3.50	e4.20	12.79	9.72	6.87	4.09	3.52	3.15	3.33	3.48
10	3.06	3.82	3.35	e10.36	12.84	9.86	5.80	4.04	3.50	3.22	3.32	3.32
11	2.98	3.46	3.23	11.08	12.86	9.50	5.26	3.97	3.71	3.96	3.40	3.20
12	2.90	3.15	3.23	e8.86	12.72	9.53	5.00	3.95	3.72	4.79	4.32	3.12
13	2.87	3.01	3.24	e8.24	12.62	9.68	4.69	4.25	3.77	5.51	4.37	3.07
14	2.86	2.98	3.25	e7.89	12.70	9.68	4.53	4.58	3.86	5.36	4.04	3.09
15	2.86	2.97	3.41	e7.58	13.27	9.58	4.41	4.37	3.88	5.19	3.86	3.56
16	2.88	2.94	3.98	e7.25	18.66	9.39	4.32	4.23	4.32	4.92	3.73	3.57
17	3.06	3.01	4.06	e7.18	17.44	9.13	5.62	4.06	4.30	4.59	3.64	3.51
18	3.09	3.10	4.11	e7.56	17.02	8.82	6.62	3.92	4.08	4.33	3.82	3.65
19	3.04	3.06	3.98	e7.16	18.12	8.48	6.48	3.81	3.83	4.22	6.68	3.89
20	2.99	3.05	4.22	e6.63	16.56	8.13	5.92	3.77	3.64	4.09	6.25	4.02
21	2.96	3.06	5.06	e5.95	15.08	10.40	5.19	3.83	3.53	3.90	5.50	3.87
22	2.94	3.17	5.74	e5.33	14.21	11.94	4.86	3.89	3.40	4.04	4.75	3.68
23	2.92	3.51	7.08	e4.90	13.70	10.13	4.72	3.73	3.37	e4.59	4.34	3.57
24	2.93	3.67	6.78	e4.56	13.33	9.54	4.48	3.51	3.25	e4.69	4.08	3.45
25	2.93	3.61	8.23	e4.73	12.99	9.31	4.35	3.23	3.27	4.49	3.95	3.35
26	2.95	3.53	13.89	10.48	12.67	9.05	4.36	3.17	3.40	4.24	4.10	3.30
27	2.95	3.51	13.43	9.16	12.34	8.76	4.25	3.15	3.37	4.00	4.26	3.26
28	2.96	3.72	10.25	8.36	11.99	8.45	4.00	3.17	3.28	3.86	4.16	3.24
29	2.94	4.11	8.54	8.33	11.63	8.11	3.92	3.28	3.20	e4.08	4.03	3.31
30	2.93	3.87	7.91	8.32	---	7.81	3.87	3.25	3.15	e4.13	3.95	3.81
31	2.91	---	7.57	8.26	---	7.49	---	3.29	---	4.00	3.91	---
Max	3.35	4.11	13.89	11.08	18.66	11.94	8.26	4.58	4.32	5.51	6.68	6.70
Min	2.86	2.90	3.23	3.91	11.63	7.49	3.87	3.15	3.15	3.08	3.23	3.07