Water-Data Report 2011

07367700 Boeuf River near Arkansas-Louisiana State Line

Boeuf-Tensas Basin
Boeuf Subbasin

LOCATION.--Lat 32°58′23″, long 91°26′31″ referenced to North American Datum of 1983, in NE ¼ NE ¼ sec.21, T.23 N., R.10 E., West Carroll Parish, LA, 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.--785.00 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to September 1973 (annual maximum gage heights and daily discharges below 200 ft^3/s only). October 1973 to September 1979 (daily gage heights and daily discharges below 200 ft^3/s only). October 1979 to January 1986 (gage heights only). February 1986 to September 30, 2011 (daily gage heights and daily discharges below 3,950 ft^3/s only). Station discontinued September 30, 2011 when Boeuf River at Ark/La Stateline (07367690) was established on the state line approximately 2.3 miles upstream.

GAGE.--Water-stage recorder. Datum of gage is 72.11 ft above NGVD 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 NGVD of 1929.

REMARKS.--Records fair except for daily discharges below 200 ft^3/s and above 3000 ft^3/s, which are poor. 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). Satellite telemetry at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--11 years (water years 1958-68), 952 ft^3/s, 689,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s, Feb. 11, 1966; maximum gage height, 26.39 ft, present datum, May 5, 1991. No flow at times most years as a 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, 13.59 ft, Apr 28; minimum gage height, -0.10 ft, Jun 21.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 07367700, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/07367700.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.34	0.00	1,090	12	757	134	0.00	3,630	0.00	209	638	0.27
2	0.18	0.00	674	17	1,710	223	0.00	3,680	0.00	108	198	0.34
3	0.07	0.00	409	166	1,320	153	0.00	3,740	0.00	0.13	6.1	0.14
4	0.11	0.00	244	262	e725	80	0.00	3,470	0.00	0.00	0.00	14
5	0.12	0.00	149	163	e574	56	3.6	1,890	0.00	0.00	0.00	65
6	0.14	0.00	84	116	468	187	1.8	784	0.00	69	0.00	367
7	0.22	0.00	51	84	462	1,070	0.00	473	0.00	310	0.00	223
8	0.28	0.00	36	44	497	624	0.00	306	0.00	11	0.00	65
9	0.38	0.00	24	12	410	898	0.00	215	0.00	0.00	0.00	8.4
10	0.77	0.00	15	21	326	536	0.00	150	0.00	0.00	0.00	0.22
11	1.3	0.00	11	31	286	276	0.00	80	0.00	0.00	0.00	0.00
12	1.5	0.00	21	26	277	158	0.00	27	0.00	0.00	712	0.00
13	2.8	0.00	40	22	303	92	0.00	0.56	0.00	0.00	1,870	0.00
14	3.8	0.00	43	18	273	44	0.00	0.00	0.00	0.00	2,530	0.00
15	4.9	0.00	28	15	249	31	67	0.00	0.00	0.00	2,930	0.00
16	2.1	1.9	12	18	264	25	449	0.00	0.00	46	2,840	0.00
17	4.2	e31	12	73	221	8.1	428	0.00	0.00	384	1,580	0.00
18	5.0	25	20	205	199	0.03	269	0.00	0.00	101	777	0.00
19	e1.3	14	24	230	146	0.00	84	0.00	0.00	0.08	561	0.00
20	e1.1	6.6	20	203	136	0.00	11	0.00	0.00	0.00	378	0.00
21	0.06	2.9	16	340	96	0.00	684	0.00	0.00	0.00	213	0.00
22	0.00	1.4	9.2	357	116	0.00	2,950	0.00	0.00	0.00	195	0.00
23	0.00	0.48	2.1	311	94	0.00	2,750	0.00	0.00	0.00	133	0.00
24	0.00	0.19	7.0	272	82	0.00	2,040	0.00	0.00	0.00	56	0.00
25	e0.00	0.25	9.7	552	364	0.00	742	0.00	0.00	0.00	47	e0.00
26	e0.02	1.3	14	974	544	0.00	1,030	0.00	0.00	e390	35	e337
27	0.02	5.8	9.1	955	307	0.00		0.00	0.00	e630	36	
28	0.00	6.9	7.6	589	188	0.00		274	0.00	278	68	
29	0.00	11	2.0	373	---	0.00		142	0.00	63	11	1,510
30	0.00	630	4.4	333	---	0.00		3.5	0.00	182	8.7	652
31	0.00	---	8.0	358	---	0.00	---	0.00	---	887	2.5	---
Total	30.71	738.72	3,096.1	7,152	11,394	4,595.13		18,865.06	0.00	3,668.21	15,825.30	
Mean	0.99	24.6	99.9	231	407	148		609	0.00	118	510	
Max	5.0	630	1,090	974	1,710	1,070		3,740	0.00	887	2,930	
Min	0.00	0.00	2.0	12	82	0.00		0.00	0.00	0.00	0.00	
Cfsm	0.00	0.03	0.13	0.29	0.52	0.19		0.78	0.00	0.15	0.65	
In.	0.00	0.04	0.15	0.34	0.54	0.22		0.89	0.00	0.17	0.75	

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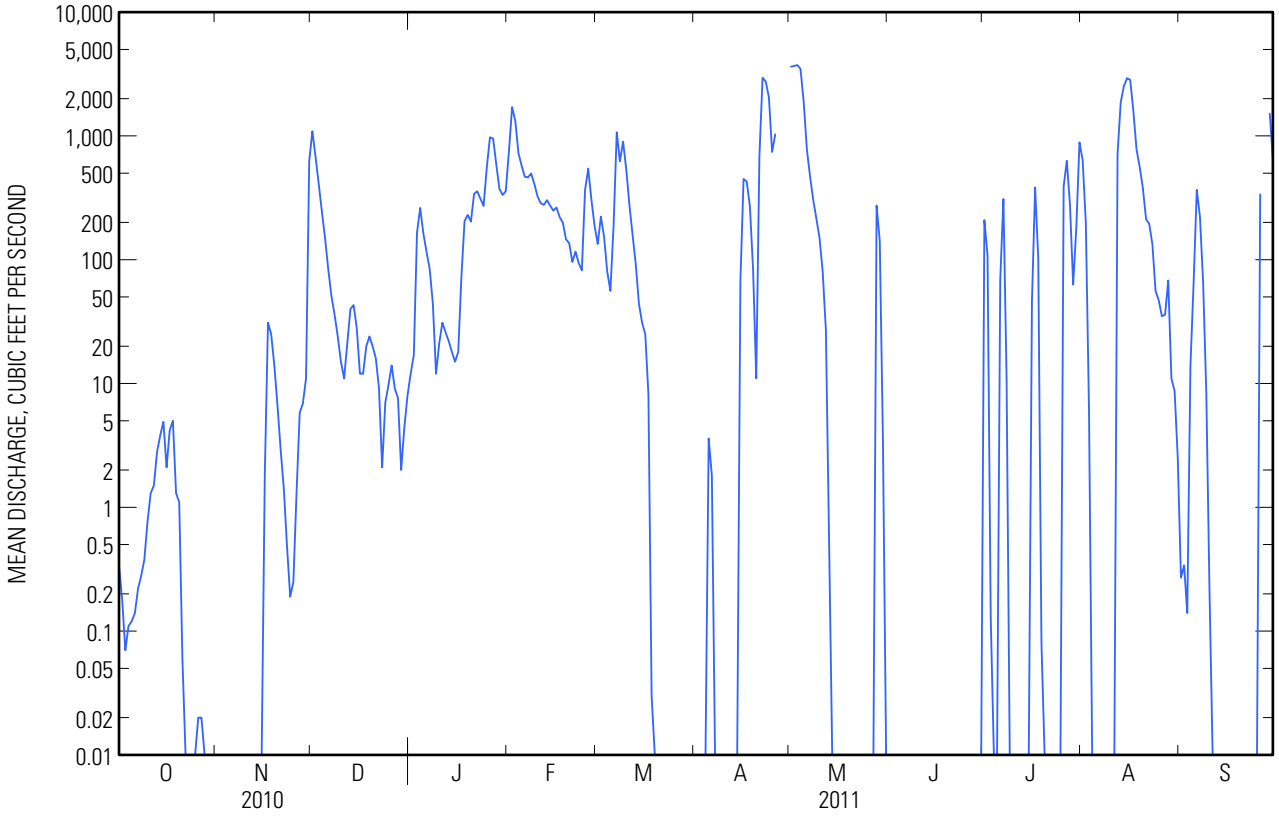

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.79	2.96	6.19	3.99	5.58	4.68	3.75	9.62	3.63	3.81	5.54	4.20
2	3.77	3.10	5.48	4.03	7.10	4.84	3.73	9.68	3.55	4.60	4.79	4.20
3	3.74	3.47	4.96	4.42	6.54	4.72	3.73	9.75	3.31	3.96	4.21	4.15
4	3.75	3.63	4.62	4.66	e5.58	4.58	3.77	9.43	3.01	3.56	3.82	4.36
5	3.76	3.65	4.41	4.44	e5.31	4.52	4.20	7.36	2.78	3.08	3.56	4.52
6	3.76	3.31	4.26	4.33	5.12	4.77	4.22	5.77	2.57	3.30	3.32	5.10
7	3.78	3.18	4.17	4.26	5.12	6.21	4.03	5.27	2.44	4.99	3.21	4.84
8	3.79	3.18	4.12	4.14	5.20	5.52	3.92	4.99	2.19	4.19	3.02	4.53
9	3.81	3.31	4.07	3.99	5.05	5.94	3.84	4.83	1.93	3.57	2.86	4.32
10	3.83	3.41	4.01	4.05	4.90	5.37	3.79	4.71	1.68	3.06	2.74	4.18
11	3.84	3.43	3.99	4.10	4.84	4.94	3.76	4.58	1.44	2.54	2.63	4.07
12	3.85	3.28	4.04	4.08	4.83	4.72	3.74	4.43	1.04	1.98	4.89	3.98
13	3.89	3.32	4.14	4.05	4.89	4.60	3.72	4.15	0.73	1.54	7.23	3.90
14	3.90	3.38	4.15	4.03	4.85	4.49	3.71	3.97	0.68	1.75	8.04	3.84
15	3.92	3.37	4.09	4.01	4.81	4.45	4.07	3.73	0.82	2.11	8.51	3.77
16	3.87	3.71	3.99	4.03	4.86	4.43	5.23	3.55	0.80	3.14	8.40	3.77
17	3.91	e4.10	3.99	4.22	4.79	4.31	5.20	3.31	0.74	5.12	6.85	3.74
18	3.93	4.07	4.04	4.53	4.76	4.08	4.92	3.21	0.54	4.58	5.76	3.73
19	e3.84	4.00	4.06	4.58	4.67	3.95	4.57	3.18	0.32	3.97	5.42	3.72
20	e3.84	3.94	4.05	4.52	4.67	3.86	4.35	3.20	0.08	3.53	5.12	3.69
21	3.74	3.89	4.02	4.82	4.61	3.81	5.48	3.34	0.13	3.29	4.82	3.67
22	3.70	3.85	3.96	4.85	4.65	3.78	8.77	3.52	0.96	2.98	4.79	3.65
23	3.63	3.80	3.86	4.76	4.61	3.75	8.52	3.59	1.59	2.69	4.68	3.62
24	3.66	3.77	3.95	4.68	4.58	3.74	7.56	3.47	1.76	2.38	4.52	3.70
25	e3.70	3.78	3.97	5.24	5.09	3.74	5.70	3.30	1.74	2.56	4.50	e4.01
26	e3.74	3.83	4.00	6.01	5.39	3.72	6.10	3.24	1.62	e5.10	4.45	e5.00
27	3.74	3.93	3.96	5.98	4.99	3.68	11.56	2.92	1.43	e5.53	4.45	e8.13
28	3.71	3.95	3.95	5.31	4.78	3.70	13.27	4.44	1.32	4.94	4.55	9.15
29	3.65	3.96	3.87	4.89	---	3.72	11.50	4.68	1.18	4.54	4.35	6.84
30	3.45	5.36	3.91	4.81	---	3.72	9.74	4.18	0.85	4.75	4.34	5.56
31	3.12	---	3.96	4.86	---	3.76	---	3.84	---	5.92	4.27	---
Max	3.93	5.36	6.19	6.01	7.10	6.21	13.27	9.75	3.63	5.92	8.51	9.15
Min	3.12	2.96	3.86	3.99	4.58	3.68	3.71	2.92	0.08	1.54	2.63	3.62