

Water-Data Report 2012

07264000 BAYOU METO NEAR LONOKE, AR

Arkansas Basin
Bayou Meto Subbasin

LOCATION.--Lat 34°44'12", long 91°54'57" referenced to North American Datum of 1983, in NW ¼ SW ¼ sec.6, T.1 N., R.8 W., Lonoke County, AR, Hydrologic Unit 08020402, near left bank on downstream side of bridge on State Hwy 31, 3 mi upstream from Brushy Slough, 3.5 mi south of Lonoke, and at river mile 106.4.

DRAINAGE AREA.--207 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct 1954 to current year. Gage height records and results of discharge measurements since Jun 1948 at site 4.8 mi upstream are contained in reports of U.S. Army Corps of Engineers, Vicksburg District; published as "Big Bayou Meto near Lonoke".

REVISED RECORDS.--WRD Arkansas 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 199.11 ft above NGVD of 1929. Prior to Feb 1955, water-stage recorder at site 4.8 mi upstream at datum 6.97 ft higher. Feb to Jun 1955, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records fair except estimated daily discharges, which are poor. Part of low flow is drainage from areas irrigated with groundwater and from large minnow farm supplied with groundwater. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,410 ft³/s, Dec. 10, gage height, 24.17 ft; minimum discharge, 0.0 ft³/s, on several days, gage height, 5.90 ft.

07264000 BAYOU METO NEAR LONOKE, AR—Continued

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	55	49	1,370	1,080	361	112	1,070	13	e0.00	e0.00	e0.00	100
2	47	47	1,270	986	289	107	823	11	e0.00	e0.00	e0.00	127
3	34	46	1,150	823	291	99	569	8.3	e0.00	e0.00	e0.00	135
4	28	44	1,090	589	639	86	371	8.5	e0.00	e0.00	e0.00	110
5	23	47	1,360	373	891	80	267	8.1	2.3	e0.00	e0.00	67
6	19	50	1,620	266	995	73	208	11	e0.00	e0.00	e0.00	41
7	12	50	1,820	211	1,080	69	172	9.4	e0.00	e0.00	e0.00	35
8	e0.50	52	2,070	186	1,120	87	144	27	e0.00	e0.00	e0.00	54
9	e3.7	61	2,330	156	1,090	295	116	58	e0.00	e0.00	e0.00	54
10	11	63	2,390	135	1,000	571	98	33	e0.00	e0.00	e0.00	41
11	16	113	2,240	136	816	803	84	17	e0.00	e0.00	e0.00	40
12	18	115	1,980	184	577	1,020	76	15	e0.00	e0.00	e0.00	39
13	18	104	1,740	328	383	1,090	87	36	e0.00	e0.00	e0.00	26
14	23	92	1,550	371	289	1,090	77	26	e0.00	e0.00	e0.00	17
15	27	229	1,430	289	394	1,080	63	9.1	e0.00	e0.00	60	15
16	28	992	1,310	195	864	1,040	63	4.9	e0.00	e0.00	41	21
17	20	1,140	1,200	149	979	929	65	22	e0.00	e0.00	24	81
18	17	1,150	1,130	135	988	731	73	14	e0.00	e0.00	14	145
19	16	1,100	1,090	131	960	504	72	6.1	e0.00	e0.00	7.2	185
20	15	1,020	1,080	112	878	338	69	e0.00	e0.00	e0.00	6.4	187
21	21	1,150	1,040	100	740	414	106	e0.00	e0.00	e0.00	4.1	137
22	29	1,430	979	92	623	842	106	e0.00	e0.00	e0.00	4.1	94
23	47	1,550	949	150	506	1,110	96	e0.00	e0.00	e0.00	e0.00	67
24	58	1,600	898	307	382	1,340	86	e0.00	e0.00	e0.00	e0.00	48
25	57	1,630	800	508	274	1,550	76	e0.00	e0.00	e0.00	e0.00	27
26	53	1,660	684	666	205	1,890	62	e0.00	e0.00	e0.00	e0.00	10
27	69	1,670	752	739	155	2,000	48	e0.00	e0.00	e0.00	e0.00	12
28	61	1,620	870	750	127	1,840	30	e0.00	e0.00	e0.00	e0.00	13
29	57	1,540	964	730	119	1,550	19	e0.00	e0.00	e0.00	e0.00	10
30	57	1,450	1,060	633	---	1,390	17	e0.00	e0.00	e0.00	10	8.1
31	49	---	1,110	483	---	1,260	---	e0.00	---	e0.00	58	---
Total	989.20	21,864	41,326	11,993	18,015	25,390	5,213	337.40	2.30	0.00	228.80	1,946.1
Mean	31.9	729	1,333	387	621	819	174	10.9	0.08	0.00	7.38	64.9
Max	69	1,670	2,390	1,080	1,120	2,000	1,070	58	2.3	0.00	60	187
Min	0.50	44	684	92	119	69	17	0.00	0.00	0.00	0.00	8.1
Ac-ft	1,960	43,370	81,970	23,790	35,730	50,360	10,340	669	4.6	0.00	454	3,860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	77.1	256	483	429	503	541	484	457	137	56.0	50.6	82.5
Max	968	1,394	1,451	1,648	1,680	1,283	1,517	2,061	1,191	482	402	940
(WY)	(2010)	(1958)	(1974)	(2007)	(1956)	(1997)	(1973)	(2011)	(1974)	(1960)	(1966)	(2008)
Min	0.35	0.00	2.87	21.0	65.2	116	64.5	10.9	0.08	0.00	0.58	1.84
(WY)	(2000)	(2000)	(1955)	(2000)	(1972)	(2007)	(1960)	(2012)	(2012)	(2012)	(2007)	(1999)

07264000 BAYOU METO NEAR LONOKE, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2011	Water Year 2012	Water Years 1955 - 2012
Annual total	168,545.20	127,304.80	
Annual mean	462	348	295
Highest annual mean			550 1973
Lowest annual mean			95.2 1963
Highest daily mean	5,120 May 6	2,390 Dec 10	5,570 Dec 29, 1987
Lowest daily mean	0.00 Jul 7	0.00 May 20	0.00 Oct 10, 1954 ^a
Annual seven-day minimum	0.00 Jul 18	0.00 May 20	0.00 Oct 18, 1954
Maximum peak flow		2,410 Dec 10	5,750 Dec 29, 1987
Maximum peak stage		24.17 Dec 10	27.11 Dec 29, 1987
Instantaneous low flow		^a 0.00 Aug 13	0.00 Jan 1, 1987 ^a
Annual runoff (ac-ft)	334,300	252,500	214,000
10 percent exceeds	1,390	1,130	891
50 percent exceeds	99	61	87
90 percent exceeds	5.8	0.00	5.2

^a Occurred on several days

