07056000 BUFFALO RIVER NEAR ST. JOE, AR

Upper White Basin
Buffalo Subbasin

LOCATION.--Lat 35°58′59″, long 92°44′50″ referenced to North American Datum of 1983, in SW ¼ SW ¼ sec.36, T.16 N., R.17 W., Searcy County, AR, Hydrologic Unit 11010005, near right bank on downstream side of bridge on U.S. Hwy 65, 1.2 mi downstream from Mill Creek, 4.0 mi upstream from Bear Creek, 4.5 mi southeast of St. Joe, and at river mile 58.3.

DRAINAGE AREA.--829 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct 1939 to current year.

REVISED RECORDS.--WSP 1211: 1945 (M), 1949 (M). WDR Arkansas 1973: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 560.35 ft above NGVD of 1929. Prior to Mar 1, 1940, nonrecording gage at present site and datum. Prior to Nov 6, 1990, at site 300 ft downstream at same datum.

REMARKS.--Water-discharge records fair. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 50.5 ft in Aug 1915, from information by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 26	0900	*71,600	*35.53
May 2	1200	38,000	24.83
May 21	1400	19,800	17.77

Minimum discharge, 34 ft^3/s, Aug. 8, gage height, 3.38 ft.

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 07056000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/07056000.2011.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	79	41	150	60	139	1,950	865	4,530	1,330	110	43	69
2	75	41	162	106	280	1,540	924	27,800	1,110	101	41	74
3	71	40	147	188	445	1,230	866	17,600	942	94	40	72
4	68	40	140	192	447	1,040	1,450	8,610	800	89	38	63
5	65	41	135	189	395	1,420	2,390	5,610	687	88	38	59
6	63	41	122	181	369	1,690	1,870	4,460	601	83	37	55
7	61	41	112	169	361	1,360	1,460	3,620	529	81	36	51
8	59	41	103	162	379	1,160	1,220	2,980	468	81	35	49
9	57	41	98	155	411	1,870	1,030	2,470	413	77	42	47
10	55	41	93	150	422	1,640	883	2,070	367	75	39	46
11	55	42	91	140	382	1,310	1,310	1,740	337	71	46	45
12	54	42	85	128	353	1,110	4,430	1,510	513	68	50	44
13	51	42	82	120	378	965	2,480	2,950	477	67	53	42
14	49	42	78	114	588	1,180	1,800	2,640	368	68	58	41
15	47	42	75	109	1,020	2,360	5,060	1,960	313	65	81	40
16	46	45	73	106	1,220	1,970	5,500	1,590	277	63	121	40
17	45	44	72	103	1,160	1,560	3,070	1,350	268	60	130	41
18	44	44	69	102	971	1,300	2,250	1,160	256	57	119	41
19	45	44	67	99	791	1,090	1,780	1,030	239	53	106	46
20	44	45	65	100	656	917	1,470	1,250	212	51	96	156
21	43	45	65	98	569	785	1,210	14,300	187	49	230	143
22	43	46	63	97	507	681	1,060	7,130	168	49	460	112
23	44	48	61	97	454	597	1,240	5,240	154	49	293	93
24	44	48	62	95	674	517	11,200	14,100	144	48	221	90
25	44	69	60	94	3,000	445	44,000	8,560	134	47	168	96
26	47	62	59	94	2,350	513	54,900	5,250	126	48	133	88
27	43	61	58	94	1,640	812	17,900	3,880	118	47	112	81
28	43	74	57	96	1,620	881	13,100	3,120	121	46	98	77
29	43	125	63	99	---	766	7,030	2,560	123	46	87	72
30	43	133	59	103	---	788	4,980	2,050	121	45	78	67
31	41	---	63	107	---	862	---	1,630	---	44	72	---
Total	1,611	1,551	2,689	3,747	21,981	36,309	198,728	164,750	11,903	2,020	3,201	2,040
Mean	52.0	51.7	86.7	121	785	1,171	6,624	5,315	397	65.2	103	68.0
Max	79	133	162	192	3,000	2,360	54,900	27,800	1,330	110	460	156
Min	41	40	57	60	139	445	865	1,030	118	44	35	40
Ac-ft	3,200	3,080	5,330	7,430	43,600	72,020	394,200	326,800	23,610	4,010	6,350	4,050
Cfsm	0.06	0.06	0.10	0.15	0.95	1.41	7.99	6.41	0.48	0.08	0.12	0.08
In.	0.07	0.07	0.12	0.17	0.99	1.63	8.92	7.39	0.53	0.09	0.14	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	348	967	1,172	1,187	1,590	2,046	2,262	1,850	750	243	153	231
Max	3,692	6,549	8,516	6,934	5,455	9,115	9,584	6,975	5,468	1,134	1,569	3,235
(WY)	(2010)	(1997)	(1983)	(1949)	(1989)	(2008)	(1945)	(1990)	(1945)	(1950)	(1950)	(2008)
Min	14.2	19.7	30.4	32.4	114	236	237	201	67.6	29.6	15.0	10.2
(WY)	(1964)	(1964)	(1990)	(1964)	(1963)	(1972)	(1963)	(2001)	(1977)	(1954)	(1954)	(1954)

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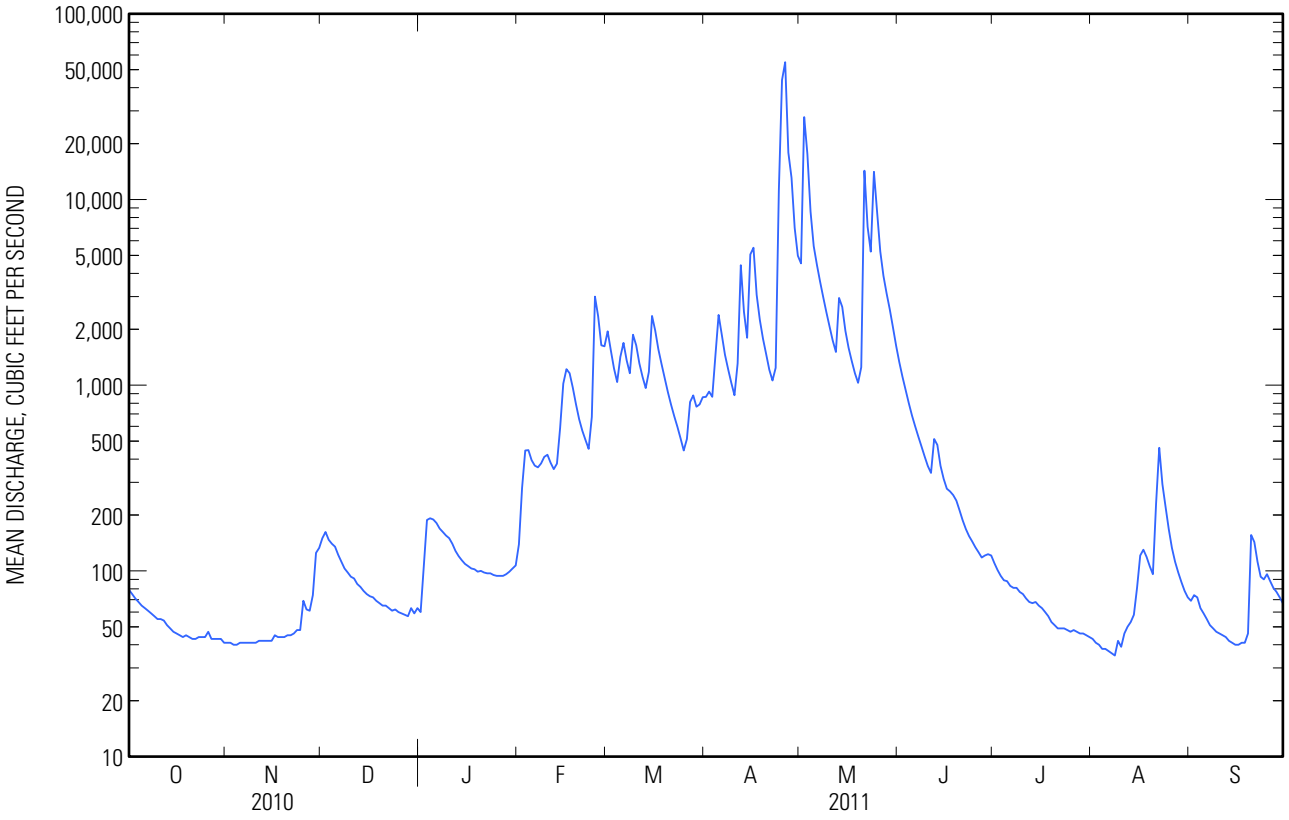
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1940 - 2011	
Annual total	316,533		450,530			
Annual mean	867		1,234		1,063	
Highest annual mean					2,619	1945
Lowest annual mean					316	1963
Highest daily mean	8,500	May 21	54,900	Apr 26	124,000	Dec 3, 1982
Lowest daily mean	36	Aug 31	35	Aug 8	7.0	Sep 17, 1954
Annual seven-day minimum	36	Aug 31	38	Aug 2	7.4	Sep 11, 1954
Maximum peak flow			71,600	Apr 26	[a]158,000	Dec 3, 1982
Maximum peak stage			35.53	Apr 26	53.75	Dec 3, 1982
Instantaneous low flow			34	Aug 8	6.6	Sep 16, 1954[b]
Annual runoff (ac-ft)	627,800		893,600		770,000	
Annual runoff (cfsm)	1.05		1.49		1.28	
Annual runoff (inches)	14.20		20.22		17.42	
10 percent exceeds	2,400		2,290		2,340	
50 percent exceeds	279		112		320	
90 percent exceeds	44		43		43	

[a] From rating curve extended above 91,000 ft³/s
[b] Also Sep 17, 20, 1954