

Water-Data Report 2012

07252000 MULBERRY RIVER NEAR MULBERRY, AR

Lower Arkansas-Fourche La Fave Basin
Frog-Mulberry Subbasin

LOCATION.--Lat 35°34'37", long 94°00'55" referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.31, T.11 N., R.28 W., Franklin County, AR, Hydrologic Unit 11110201, on left bank 0.6 mi upstream from Mill Creek, 5.7 mi north of Mulberry, and at river mile 11.3.

DRAINAGE AREA.--373 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jun 1938 to Jan 1995 and Oct 1998 to current year. Annual maximum, water years 1995 to 1998.

REVISED RECORDS.--WSP 1007: 1943. WSP 1211: 1941 to 1942. WDR Arkansas 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 432.75 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Apr 19, 1940, nonrecording gage at site 500 ft downstream at present datum.

REMARKS.--Water-discharge records good except estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 25	2230	14,200	11.07
Mar 21	2200	*15,200	*11.39

Minimum discharge, 0.75 ft³/s, Oct. 17, gage height, 0.64 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	4.7	5.5	226	421	1,030	308	563	161	12	4.3	1.5	3.8
2	4.6	5.5	186	367	888	287	500	160	10	4.4	1.3	3.6
3	4.2	6.1	163	320	812	264	561	144	11	4.4	1.2	2.6
4	4.4	5.9	1,310	301	2,180	246	1,150	130	18	4.2	1.1	1.9
5	4.6	6.6	2,110	277	1,900	229	732	126	20	3.8	0.97	1.6
6	3.9	7.3	1,420	266	1,500	209	595	112	13	3.7	0.95	1.4
7	3.5	7.8	1,020	259	1,280	197	513	95	13	3.8	0.97	1.6
8	3.0	19	774	240	1,100	310	453	83	12	3.8	0.92	1.5
9	2.9	106	611	221	950	1,760	395	81	11	4.1	0.94	1.5
10	2.5	165	490	230	866	1,240	345	85	9.2	4.6	0.94	1.3
11	3.1	109	398	638	782	2,280	305	83	9.0	4.8	0.87	1.1
12	4.8	75	333	727	671	5,610	294	83	8.9	4.6	0.80	0.94
13	3.4	60	291	607	633	2,720	245	75	16	4.6	1.1	0.99
14	2.1	51	269	534	636	1,990	220	65	13	7.0	0.93	3.8
15	2.3	52	1,400	481	823	1,570	222	61	11	6.4	0.86	8.6
16	1.9	56	1,370	448	1,230	1,290	368	60	e9.0	4.9	0.99	22
17	1.3	158	1,010	421	1,100	1,070	422	60	e7.0	4.3	2.5	22
18	0.97	138	794	370	994	908	328	57	e5.5	3.5	3.0	23
19	0.99	102	667	337	899	865	329	49	e4.8	2.9	2.2	36
20	0.93	85	803	314	805	4,540	282	44	e4.3	3.3	1.8	34
21	0.90	88	895	291	751	9,950	245	41	e4.2	2.6	1.6	29
22	0.90	2,260	757	266	694	7,470	221	29	e4.2	2.3	1.4	27
23	2.2	1,200	656	246	643	5,350	207	30	4.0	2.1	1.2	23
24	2.6	608	560	220	575	3,190	194	34	3.8	1.9	1.1	20
25	2.2	390	483	5,220	504	2,270	180	33	4.0	1.6	1.4	19
26	1.9	315	436	7,430	407	1,780	168	32	e4.8	1.4	1.5	18
27	4.2	504	556	3,200	396	1,430	159	30	5.2	2.2	1.8	19
28	8.3	475	603	2,200	338	1,160	150	26	4.6	2.4	1.7	23
29	7.1	362	544	1,690	327	971	143	22	4.6	2.4	1.4	19
30	6.1	284	510	1,390	---	797	145	13	4.4	2.1	1.2	17
31	5.8	---	468	1,190	---	671	---	12	---	1.9	2.3	---
Total	102.29	7,706.7	22,113	31,122	25,714	62,932	10,634	2,116	261.5	110.3	42.44	387.23
Mean	3.30	257	713	1,004	887	2,030	354	68.3	8.72	3.56	1.37	12.9
Max	8.3	2,260	2,110	7,430	2,180	9,950	1,150	161	20	7.0	3.0	36
Min	0.90	5.5	163	220	327	197	143	12	3.8	1.4	0.80	0.94
Ac-ft	203	15,290	43,860	61,730	51,000	124,800	21,090	4,200	519	219	84	768
Cfsm	0.01	0.69	1.91	2.69	2.38	5.44	0.95	0.18	0.02	0.01	0.00	0.03
In.	0.01	0.77	2.21	3.10	2.56	6.28	1.06	0.21	0.03	0.01	0.00	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	184	533	646	644	867	1,079	1,142	963	392	125	58.5	94.6
Max	1,566	2,280	2,997	3,083	2,873	4,124	3,576	4,233	2,592	908	952	1,497
(WY)	(1985)	(1974)	(1983)	(1949)	(1951)	(1945)	(1945)	(1990)	(2000)	(1950)	(1950)	(1974)
Min	0.00	0.03	2.45	5.34	47.0	75.7	263	68.3	8.72	2.72	0.06	0.00
(WY)	(1954)	(1954)	(1990)	(1964)	(1967)	(1967)	(1971)	(2012)	(2012)	(1963)	(1954)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1938 - 2012	
Annual total	217,204.19		163,241.46			
Annual mean	595		446		557	
Highest annual mean					1,226	1945
Lowest annual mean					185	1954
Highest daily mean	20,100	Apr 25	9,950	Mar 21	40,900	May 3, 1990
Lowest daily mean	0.90	Oct 21	0.80	Aug 12	0.00	Sep 24, 1939 ^a
Annual seven-day minimum	1.1	Oct 16	0.91	Aug 6	0.00	Aug 25, 1943
Maximum peak flow			15,200	Mar 21	^b 70,200	Dec 3, 1982
Maximum peak stage			11.39	Mar 21	23.66	Dec 3, 1982
Instantaneous low flow			0.75	Oct 17	0.00	Jan 1, 2001 ^a
Annual runoff (ac-ft)	430,800		323,800		403,200	
Annual runoff (cfsm)	1.60		1.20		1.49	
Annual runoff (inches)	21.66		16.28		20.27	
10 percent exceeds	1,310		1,150		1,320	
50 percent exceeds	106		70		180	
90 percent exceeds	3.0		1.5		4.3	

^a Occurred on many days

^b From rating curve extended above 38,000 ft³/s

