

07074500 WHITE RIVER AT NEWPORT, ARUpper White Basin
Upper White-Village Subbasin

LOCATION.--Lat 35°36'18", long 91°17'19" referenced to North American Datum of 1983, in NE ¼ NE ¼ sec.10, T.11 N., R.3 W., Jackson County, AR, Hydrologic Unit 11010013, The gage is approximately 60 ft below the State Hwy 367 bridge, which crosses the White River at Newport. This is at river mile 254.7 on the White River (from maps of White River, May 1973).

DRAINAGE AREA.—19,860 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Sep 1927 to Sep 1931 (published as "near Newport"), Oct 1937 to current year. Gage height records collected at present site since 1885 are contained in reports of the National Weather Service.

REVISED RECORDS.--WDR Arkansas 1973: Drainage area. WDR Arkansas 2001: 2000.

GAGE.--Water-stage recorder. Datum of gage is 194.09 ft above NGVD of 1929. Sep 1927 to Sep 1931, nonrecording gage at site 2.8 mi downstream at datum 2.30 ft lower. Oct 1, 1937, to Aug 14, 1953, nonrecording gage at present site and datum.

REMARKS.--Water-discharge records good except estimated daily discharges which are poor. Some regulation and diversions since 1943 by Norfolk Lake, capacity, 1,983,000 ac-ft since 1948 by Clearwater Lake (Missouri), capacity, 413,700 ac-ft, since Jul 24, 1951, by Bull Shoals Lake, 149 mi upstream, capacity, 5,408,000 ac-ft, since Sep 9, 1956, by Table Rock Lake (Missouri), capacity, 3,567,500 ac-ft, and since Dec 26, 1963, by Beaver Lake, capacity, 1,951,500 ac-ft. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr 16, 1927, reached a stage of 35.6 ft, from records of the National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86,900 ft³/s, Jan 17, gage height, 27.31 ft; minimum discharge, 6,090 ft³/s, Sep 29, gage height, 0.76 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25,000	20,600	26,800	39,400	61,500	44,300	14,900	18,600	15,600	17,700	8,790	9,050
2	24,700	19,800	51,200	41,000	60,400	43,300	14,300	18,700	14,200	22,800	12,100	8,230
3	24,700	18,200	60,200	39,900	59,100	39,600	14,000	17,800	12,600	21,500	12,500	8,510
4	25,000	17,200	53,900	38,000	54,800	37,200	14,100	18,800	12,600	22,100	12,300	8,060
5	23,900	16,800	47,900	38,700	49,200	35,800	15,300	21,700	13,000	22,200	11,800	7,940
6	22,700	16,400	44,500	40,100	45,200	34,300	16,100	24,100	13,400	21,700	11,300	8,040
7	19,400	20,000	42,500	38,400	42,300	32,100	16,800	25,300	11,100	22,300	9,430	9,840
8	15,800	24,900	40,700	36,300	39,700	28,800	16,400	25,600	10,200	23,600	10,700	9,200
9	13,400	28,100	39,100	34,000	37,700	25,600	14,600	27,000	11,300	22,900	11,100	10,900
10	11,300	26,700	38,200	32,400	35,800	24,800	14,700	28,600	11,600	22,000	11,500	12,100
11	9,880	24,100	36,500	30,600	33,200	26,300	14,200	29,200	11,300	21,500	12,700	10,200
12	9,910	21,900	33,800	29,200	31,200	23,400	14,400	29,800	10,800	19,200	12,300	10,400
13	8,930	20,700	31,600	29,100	27,600	21,000	13,700	29,900	12,000	16,400	11,100	10,600
14	7,750	19,300	29,600	40,900	33,900	21,100	13,800	29,600	15,200	14,200	10,300	9,870
15	7,180	18,500	28,300	56,300	42,000	18,600	15,000	29,700	16,300	13,000	9,790	9,430
16	7,430	25,000	27,200	73,700	e44,300	17,900	17,000	29,700	18,200	11,500	10,700	9,560
17	9,090	37,500	26,100	84,900	e44,300	17,800	19,100	28,800	19,600	11,900	11,600	9,540
18	17,200	41,700	24,100	84,600	46,300	17,500	23,900	27,600	19,100	13,000	11,100	7,850
19	25,300	40,200	22,500	78,900	47,900	17,300	26,800	27,200	19,000	13,200	11,500	9,610
20	22,600	37,500	22,200	72,500	49,000	16,200	28,300	26,900	18,800	13,600	10,500	9,750
21	19,100	35,500	22,900	69,000	48,600	14,700	29,300	26,000	17,000	13,100	9,200	8,220
22	16,500	33,500	23,100	66,400	47,300	14,100	29,200	23,500	15,900	11,200	8,570	7,630
23	14,600	31,900	23,300	64,000	46,000	14,100	25,900	21,300	15,700	9,570	9,380	7,600
24	13,600	29,000	23,400	61,100	44,600	13,500	22,800	20,500	16,800	10,100	11,000	7,450
25	13,500	25,200	23,400	60,000	45,100	17,600	22,300	20,200	16,200	10,100	11,300	7,690
26	13,300	21,200	25,000	60,200	45,200	20,200	22,000	18,300	12,200	11,100	10,300	8,630
27	13,300	18,300	27,000	61,700	44,900	20,200	23,700	17,400	12,200	11,200	8,840	8,580
28	15,600	16,600	28,200	62,300	44,400	18,600	23,800	15,800	13,000	12,000	8,280	6,800
29	19,000	15,700	27,500	62,700	---	17,300	21,800	15,300	13,300	11,700	8,090	6,190
30	20,600	14,900	26,800	62,800	---	16,000	20,000	15,200	14,800	10,100	8,510	6,750
31	21,000	---	33,800	62,400	---	15,800	---	15,900	---	8,160	9,580	---
Total	511,270	736,900	1,011,300	1,651,500	1,251,500	725,000	578,200	724,000	433,000	484,630	326,160	264,220
Mean	16,490	24,560	32,620	53,270	44,700	23,390	19,270	23,350	14,430	15,630	10,520	8,807
Max	25,300	41,700	60,200	84,900	61,500	44,300	29,300	29,900	19,600	23,600	12,700	12,100
Min	7,180	14,900	22,200	29,100	27,600	13,500	13,700	15,200	10,200	8,160	8,090	6,190
Ac-ft	1,014,000	1,462,000	2,006,000	3,276,000	2,482,000	1,438,000	1,147,000	1,436,000	858,900	961,300	646,900	524,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10,270	15,220	22,960	26,080	28,580	33,510	36,780	33,130	21,430	16,310	13,100	10,920
Max	26,280	41,430	89,140	90,830	95,540	117,400	164,200	102,800	98,630	43,020	34,390	29,530
(WY)	(1994)	(1973)	(1983)	(1950)	(1949)	(1945)	(1945)	(1943)	(1945)	(1951)	(1957)	(1957)
Min	3,667	3,795	4,371	5,310	7,052	9,148	6,539	6,022	5,986	5,354	4,611	3,702
(WY)	(2001)	(1955)	(1944)	(1944)	(1964)	(1981)	(1981)	(2001)	(2001)	(1944)	(1944)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1943 - 2007	
Annual total	5,505,830		8,697,680			
Annual mean	15,080		23,830		^a 22,330	
Highest annual mean					46,320	
Lowest annual mean					8,073	
Highest daily mean	60,200	Dec 3	84,900	Jan 17	340,000	Apr 18, 1945
Lowest daily mean	5,190	Jan 4	6,190	Sep 29	2,870	Sep 27, 1954
Annual seven-day minimum	5,730	Jan 3	7,440	Sep 24	2,960	Sep 24, 1954
Maximum peak flow			86,900	Jan 17	343,000	Apr 17, 1945
Maximum peak stage			27.31	Jan 17	^b 35.19	Apr 18, 1945
Instantaneous low flow			6,090	Sep 29	2,820	Oct 26, 2000
Annual runoff (ac-ft)	10,920,000		17,250,000		16,170,000	
10 percent exceeds	26,600		44,700		47,200	
50 percent exceeds	11,100		19,300		15,500	
90 percent exceeds	6,890		9,570		6,590	

^a Prior to regulation, water years 1928-31, 26,370 ft³/s^b Observed