

**07074500 WHITE RIVER AT NEWPORT, AR**Upper 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 Highway 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 mi<sup>2</sup>.

**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 from the National Weather Service.

REVISED RECORDS.--WDR Ark. 1973: Drainage area. WDR Ark. 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 fair. Regulation since 1943 by Norfolk Lake, capacity 1,983,000 acre-ft, since 1948 by Clearwater Lake (Missouri), capacity 413,700 acre-ft, since Jul 24, 1951, by Bull Shoals Lake, 149 mi upstream, capacity 5,408,000 acre-ft, since Sep 9, 1956, by Table Rock Lake (Missouri), capacity 3,567,500 acre-ft, and since Dec 26, 1963, by Beaver Lake, capacity 1,951,500 acre-ft. Satellite telemeter at station.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,400 ft<sup>3</sup>/s, May 2, gage height, 14.47 ft; minimum discharge, 3,810 ft<sup>3</sup>/s, Nov 9, gage height, -0.70 ft.

## 07074500 WHITE RIVER AT NEWPORT, AR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,720	4,670	14,300	6,220	8,770	7,250	15,200	24,200	12,800	7,230	8,200	8,880
2	6,340	4,310	16,200	6,060	9,750	7,090	14,300	30,900	12,500	7,030	10,600	8,180
3	5,590	4,640	16,100	5,420	10,900	6,770	13,700	28,600	11,300	6,550	11,200	7,130
4	5,700	5,320	15,600	5,190	12,100	6,470	13,100	24,600	11,000	7,370	e13,400	7,140
5	6,680	5,740	14,500	5,610	12,100	6,650	13,400	25,200	10,900	7,180	12,400	7,200
6	8,470	5,340	13,200	5,800	11,500	6,670	13,000	27,900	9,470	7,250	10,300	6,860
7	8,720	4,630	12,500	5,990	10,800	6,290	12,700	28,500	9,830	6,930	8,610	7,320
8	6,910	4,190	e12,600	6,100	11,000	6,340	12,300	27,100	10,400	6,850	8,060	6,840
9	5,470	3,870	e13,200	5,990	12,100	6,880	11,600	24,900	9,350	6,890	8,520	6,750
10	4,990	4,200	e14,000	5,660	11,000	15,000	11,000	24,700	9,780	6,520	8,870	6,770
11	4,710	4,430	14,400	5,580	10,500	19,900	10,900	26,500	9,230	6,580	9,460	7,800
12	4,800	4,550	12,400	7,060	11,100	21,400	10,700	26,000	9,410	7,420	10,400	6,860
13	5,570	4,970	9,930	8,080	10,300	22,100	10,500	25,300	7,850	10,500	11,700	6,230
14	5,170	4,940	9,200	7,600	9,100	23,200	9,840	24,400	7,750	12,200	10,500	6,070
15	5,290	e5,470	11,100	7,470	9,800	24,000	11,100	23,400	8,200	12,100	8,410	6,220
16	5,660	e5,570	11,800	7,490	e10,800	24,100	11,600	22,400	7,090	12,400	10,000	6,150
17	5,590	6,320	12,800	7,110	e9,020	24,000	10,300	21,700	7,960	12,900	11,000	6,490
18	4,900	8,870	11,700	6,930	e8,390	23,800	9,610	21,000	9,700	13,100	11,500	6,840
19	5,080	13,100	9,780	7,510	8,070	23,300	9,500	20,100	10,200	11,700	11,800	7,170
20	5,800	15,400	e8,170	7,940	7,670	23,600	11,300	19,800	9,000	11,800	12,600	6,510
21	6,370	13,700	7,830	7,620	7,600	25,300	11,500	19,500	9,090	12,100	10,700	5,500
22	7,090	11,300	9,280	7,080	7,770	25,800	9,250	18,100	10,000	11,400	9,820	5,420
23	5,400	10,800	8,770	7,310	8,780	26,200	8,580	16,600	11,100	11,300	9,370	6,900
24	4,560	10,900	7,720	7,680	10,300	26,300	8,090	15,000	11,000	10,100	9,250	13,800
25	4,220	10,300	7,490	8,100	10,500	26,000	7,820	15,100	9,010	7,880	9,330	20,800
26	4,380	9,040	6,940	8,040	9,450	25,500	9,330	15,700	8,000	7,770	9,550	22,200
27	4,690	7,920	6,200	8,030	8,880	24,000	10,700	14,800	7,760	9,410	8,900	23,500
28	4,420	8,360	5,970	7,770	7,620	21,400	10,700	14,200	7,980	10,500	9,990	24,600
29	4,570	10,600	5,720	7,640	---	19,300	10,400	13,100	7,580	10,700	9,530	24,800
30	4,600	12,700	5,470	7,730	---	17,700	13,900	12,500	7,130	10,100	9,020	24,800
31	4,860	---	5,990	8,130	---	16,200	---	12,600	---	8,490	8,580	---
<b>Total</b>	173,320	226,150	330,860	215,940	275,670	558,510	335,920	664,400	282,370	290,250	311,570	311,730
<b>Mean</b>	5,591	7,538	10,670	6,966	9,845	18,020	11,200	21,430	9,412	9,363	10,050	10,390
<b>Max</b>	8,720	15,400	16,200	8,130	12,100	26,300	15,200	30,900	12,800	13,100	13,400	24,800
<b>Min</b>	4,220	3,870	5,470	5,190	7,600	6,290	7,820	12,500	7,090	6,520	8,060	5,420
<b>Ac-ft</b>	343,800	448,600	656,300	428,300	546,800	1,108,000	666,300	1,318,000	560,100	575,700	618,000	618,300

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	10,180	15,080	22,810	25,650	28,330	33,670	37,050	33,280	21,540	16,320	13,150	10,950
<b>Max</b>	26,280	41,430	89,140	90,830	95,540	117,400	164,200	102,800	98,630	43,020	34,390	29,530
<b>(WY)</b>	(1994)	(1973)	(1983)	(1950)	(1949)	(1945)	(1945)	(1943)	(1945)	(1951)	(1957)	(1957)
<b>Min</b>	3,667	3,795	4,371	5,310	7,052	9,148	6,539	6,022	5,986	5,354	4,611	3,702
<b>(WY)</b>	(2001)	(1955)	(1944)	(1944)	(1964)	(1981)	(1981)	(2001)	(2001)	(1944)	(1944)	(1954)

## 07074500 WHITE RIVER AT NEWPORT, AR—Continued

## SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1943 - 2006	
<b>Annual total</b>	6,553,170		3,976,690			
<b>Annual mean</b>	17,950		10,900		22,300	
<b>Highest annual mean</b>					46,320	
<b>Lowest annual mean</b>					8,073	
<b>Highest daily mean</b>	61,200	Jan 8	30,900	May 2	340,000	Apr 18, 1945
<b>Lowest daily mean</b>	3,870	Nov 9	3,870	Nov 9	2,870	Sep 27, 1954
<b>Annual seven-day minimum</b>	4,410	Nov 7	4,410	Nov 7	2,960	Sep 24, 1954
<b>Maximum peak flow</b>			31,400	May 2	343,000	Apr 17, 1945
<b>Maximum peak stage</b>			14.47	May 2	35.19	Apr 18, 1945
<b>Instantaneous low flow</b>			3,810	Nov 9	2,820	Oct 26, 2000
<b>Annual runoff (ac-ft)</b>	13,000,000		7,888,000		16,160,000	
<b>10 percent exceeds</b>	43,100		21,900		47,200	
<b>50 percent exceeds</b>	10,500		9,330		15,400	
<b>90 percent exceeds</b>	5,590		5,540		6,540	

<sup>a</sup> Prior to regulation, water years 1928-31, 26,370 ft<sup>3</sup>/s<sup>b</sup> Observed