

**07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR**

Lower Arkansas-Fourche LaFave Basin  
Lower Arkansas-Maumelle Subbasin

LOCATION.--Lat 34°47'27", long 92°21'32" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.23, T.2 N., R.13 W., Pulaski County, AR, Hydrologic Unit 11110207, in metal shelter on dam and at river mile 141.5.

DRAINAGE AREA.--158,030 mi<sup>2</sup>, of which 22,241 mi<sup>2</sup> probably is noncontributing.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Sep 1927 to current year. Prior to Oct 1969, published as "07263500 Arkansas River at Little Rock." Monthly discharge only for some periods, published in WSP 1311. Gage height records collected at or near former site since 1873 are contained in reports of the National Weather Service. Gage-height records collected since 1883 at site 5.5 mi downstream, and intermittent records of discharge since 1885 are contained in reports of the Mississippi River Commission.

GAGE.--Water-stage and gate-position recorder. Datum of gage is at NGVD of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Oct 1, 1934, nonrecording gage, Oct 1, 1934 to May 9, 1970, recording gage at site 6.2 mi downstream at datum 223.61 ft. Sep 20, 1968 to May 9, 1970, auxiliary water-stage recorder 5.5 mi upstream from former gage.

REMARKS.--Water-discharge records fair except estimated daily discharges and discharges less than 15,000 ft<sup>3</sup>/s, which are poor. Beginning May 10, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated upstream by many locks, dams, and reservoirs. On Oct 7, 1988, the North Little Rock Electric Department hydroplant began operation, and discharges at the hydroplant are added to flows from the lock and dam. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Jun 1833 reached a stage of 34.6 ft, at former site and datum. Flood of Apr 20, 1927, reached a stage of 33.0 ft, at former site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 229,000 ft<sup>3</sup>/s, Jul 21, maximum gage height, 224.25 ft, Jan 16.

## 07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated; ×10<sup>6</sup>, million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e866	3,880	143,000	132,000	53,700	33,100	48,200	65,000	80,900	169,000	143,000	39,800
2	6,030	3,870	176,000	85,500	45,300	40,800	55,700	61,400	79,500	170,000	134,000	41,600
3	7,680	7,490	111,000	44,700	40,100	21,500	57,900	65,400	71,300	175,000	132,000	28,200
4	5,240	5,050	43,000	61,300	33,800	21,400	72,600	76,800	79,900	193,000	128,000	31,700
5	5,250	e798	36,300	57,200	52,000	27,500	75,600	85,800	97,700	202,000	126,000	38,400
6	5,220	35,100	29,100	54,800	29,700	13,400	77,800	86,500	105,000	202,000	126,000	33,400
7	2,250	68,100	30,200	54,200	33,200	12,200	75,900	71,600	110,000	195,000	113,000	33,700
8	e689	17,800	31,500	36,500	19,600	4,320	71,100	79,000	93,600	198,000	101,000	30,600
9	1,230	19,100	33,400	37,700	26,300	14,700	52,600	102,000	83,900	209,000	91,300	50,800
10	e994	14,900	18,900	38,400	27,100	14,200	40,600	134,000	64,200	211,000	80,800	80,400
11	e365	21,500	19,700	30,700	9,860	6,210	55,800	144,000	68,900	205,000	79,400	55,500
12	e365	5,630	28,900	52,400	5,390	15,300	52,100	142,000	69,500	202,000	79,500	64,300
13	e365	6,930	31,100	56,300	38,500	7,510	39,100	148,000	80,200	207,000	78,400	72,600
14	2,670	8,870	38,500	139,000	81,800	25,800	35,800	155,000	113,000	218,000	66,500	59,100
15	2,940	23,300	33,500	206,000	75,200	9,600	36,800	152,000	133,000	213,000	67,200	58,900
16	5,910	57,200	35,600	212,000	39,800	16,800	40,100	152,000	144,000	213,000	68,400	39,100
17	38,000	25,300	35,300	153,000	27,500	2,710	39,000	151,000	149,000	200,000	58,000	27,600
18	8,450	26,200	23,800	103,000	32,300	8,360	53,200	149,000	148,000	206,000	55,000	27,200
19	13,000	23,800	18,300	78,700	20,900	6,830	73,200	147,000	148,000	209,000	62,500	26,100
20	9,620	18,500	11,900	80,400	27,700	17,500	85,200	147,000	150,000	210,000	65,700	25,700
21	5,540	14,900	27,900	86,300	31,700	11,600	90,900	148,000	154,000	212,000	65,700	27,100
22	3,880	16,300	49,100	89,000	30,700	17,400	77,500	148,000	150,000	202,000	72,300	15,900
23	3,770	8,640	20,200	85,300	23,200	29,000	64,700	145,000	152,000	189,000	75,200	6,860
24	1,920	5,820	14,300	76,300	43,600	34,800	59,400	140,000	158,000	177,000	64,100	11,100
25	2,730	6,710	29,300	71,100	36,300	26,100	70,300	145,000	159,000	166,000	61,800	13,900
26	5,240	4,810	35,200	69,400	22,600	34,400	105,000	149,000	157,000	164,000	63,500	28,500
27	13,800	4,420	39,400	68,200	20,300	31,300	110,000	142,000	162,000	160,000	70,600	31,000
28	8,040	9,310	35,700	65,400	27,000	47,900	88,000	90,100	148,000	156,000	55,700	15,100
29	5,540	7,890	21,500	53,400	---	39,900	73,000	70,600	157,000	160,000	36,000	4,890
30	e608	36,700	42,500	54,200	---	44,100	65,600	72,000	164,000	166,000	41,900	3,020
31	2,840	---	99,600	64,800	---	50,700	---	72,200	---	157,000	38,900	---
<b>Total</b>	171,042	508,818	1,343,700	2,497,200	955,150	686,940	1,942,700	3,636,400	3,630,600	5,916,000	2,501,400	1,022,070
<b>Mean</b>	5,517	16,960	43,350	80,550	34,110	22,160	64,760	117,300	121,000	190,800	80,690	34,070
<b>Max</b>	38,000	68,100	176,000	212,000	81,800	50,700	110,000	155,000	164,000	218,000	143,000	80,400
<b>Min</b>	365	798	11,900	30,700	5,390	2,710	35,800	61,400	64,200	156,000	36,000	3,020
<b>Ac-ft</b>	339,300	1,009,000	2,665,000	4,953,000	1,895,000	1,363,000	3,853,000	7,213,000	7,201,000	11.73×10 <sup>6</sup>	4,962,000	2,027,000

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	25,930	43,320	49,460	46,060	46,770	72,040	73,210	75,760	66,410	38,170	17,880	15,590
<b>Max</b>	215,100	176,000	155,400	161,800	116,100	169,500	215,900	234,800	191,600	190,800	80,690	51,690
<b>(WY)</b>	(1987)	(1975)	(1993)	(1998)	(2001)	(1987)	(1973)	(1990)	(1995)	(2007)	(2007)	(1989)
<b>Min</b>	1,466	2,615	1,602	1,439	3,700	9,986	7,971	18,460	4,994	4,954	4,130	2,954
<b>(WY)</b>	(1979)	(1981)	(2006)	(1981)	(2006)	(1972)	(1981)	(1977)	(1988)	(1991)	(1991)	(2006)

07263450 ARKANSAS RIVER AT MURRAY DAM AT LITTLE ROCK, AR—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1970 - 2007	
<b>Annual total</b>	5,170,365		24,812,020			
<b>Annual mean</b>	14,170		67,980		<sup>a</sup> 47,530	
<b>Highest annual mean</b>					96,810	1993
<b>Lowest annual mean</b>					10,240	2006
<b>Highest daily mean</b>	176,000	Dec 2	218,000	Jul 14	404,000	May 8, 1990
<b>Lowest daily mean</b>	50	Jan 1	365	Oct 11	<sup>b</sup> 14	Oct 25, 1978
<b>Annual seven-day minimum</b>	894	Oct 7	894	Oct 7	432	Oct 15, 1982
<b>Maximum peak flow</b>			229,000	Jul 21	<sup>c</sup> 406,000	May 7, 1990
<b>Maximum peak stage</b>			244.25	Jan 16	<sup>d</sup> 256.97	May 7, 1990
<b>Annual runoff (ac-ft)</b>	10,260,000		49,210,000		34,440,000	
<b>10 percent exceeds</b>	36,600		157,000		129,000	
<b>50 percent exceeds</b>	6,150		52,400		29,100	
<b>90 percent exceeds</b>	1,030		5,980		3,750	

<sup>a</sup> Prior to regulation, water years 1928-69, 39,920 ft<sup>3</sup>/s

<sup>b</sup> Also minimum daily discharge for period of record

<sup>c</sup> Maximum discharge for period of record, 536,000 ft<sup>3</sup>/s, May 27, 1943

<sup>d</sup> Maximum gage height for period of record, 30.05 ft, May 27, 1943, at site and datum then in use

