Water-Data Report 2008

07194500 ARKANSAS RIVER NEAR MUSKOGEE, OK

Robert S. Kerr Reservoir Basin
Dirty-Greenleaf Subbasin

LOCATION.--Lat 35°46′10″, long 95°17′49″ referenced to North American Datum of 1927, Muskogee County, OK, Hydrologic Unit 11110102, on downstream side of left pier of bridge on U.S. Highway 62, 1.7 miles downstream from Neosho River, 3.5 miles northeast of Muskogee, and at mile 457.8.

DRAINAGE AREA.--96,674 mi^2 of which 12,541 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1926 to September 1970, July 2003 to current year. Published as "at Webbers Falls" October 1933 toFebruary 1935. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1341: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 471.38 ft above NGVD of 1929. See WSP 1921 for history of changes prior to Feb. 21, 1931.

REMARKS.--Records fair except for estimated periods and discharges less than 1000 ft^3/s which are poor. Some regulation since 1940 by Grand Lake; further regulation since 1941 by Great Salt Plains Lake, and since 1951 by Hulah Lake. Flow regulated since 1953 by Fort Gibson Lake (station 07193000). Flow regulated since September 1964 by Keystone Lake (station 07164200). Flow regulated by Chouteau Lock and Dam upstream and Webbers Falls Lock and Dam downstream since 1970.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8,040	9,830	5,040	8,670	19,700	42,600	69,200	88,200	104,000	108,000	23,700	14,600
2	6,210	8,450	6,410	11,100	16,600	42,200	66,100	93,500	111,000	112,000	22,100	15,400
3	16,100	8,800	4,850	11,700	15,700	50,200	56,300	110,000	115,000	116,000	19,600	13,300
4	10,700	7,570	4,340	12,500	18,400	50,800	57,100	109,000	111,000	114,000	21,000	12,600
5	7,650	6,910	4,220	9,590	20,500	67,000	89,600	103,000	109,000	116,000	20,500	13,200
6	7,120	5,110	6,840	6,710	27,800	77,700	107,000	99,400	112,000	113,000	20,100	15,300
7	7,770	5,240	5,560	10,400	28,100	72,700	98,800	97,900	112,000	112,000	20,700	15,700
8	8,150	7,180	4,610	30,400	26,100	62,700	92,300	114,000	124,000	109,000	21,800	14,400
9	8,890	7,050	3,080	26,400	24,100	51,400	98,300	103,000	127,000	113,000	21,900	13,000
10	10,300	4,960	7,900	23,500	25,400	42,800	96,000	104,000	139,000	109,000	32,200	19,100
11	11,500	4,150	16,700	18,900	23,100	30,400	114,000	104,000	116,000	92,100	32,400	24,400
12	10,500	3,700	32,600	17,900	24,500	26,200	69,500	104,000	114,000	67,800	34,400	25,500
13	2,800	1,790	26,800	17,500	27,500	18,700	71,200	110,000	110,000	84,500	35,700	23,200
14	e497	5,490	22,100	15,600	28,400	22,600	86,400	105,000	117,000	82,700	35,300	41,600
15	6,240	5,280	19,300	16,800	29,100	22,700	94,500	109,000	106,000	69,100	34,500	68,000
16	8,610	5,240	18,200	20,300	25,100	22,100	96,500	108,000	109,000	73,500	34,100	101,000
17	10,300	4,940	16,300	20,200	45,700	27,500	95,700	101,000	125,000	71,100	32,000	113,000
18	8,600	5,870	18,000	19,900	39,400	70,400	90,900	85,100	132,000	66,400	29,600	113,000
19	7,520	3,760	16,800	16,000	40,800	108,000	90,400	76,500	131,000	55,800	31,400	96,600
20	15,100	1,220	18,000	13,900	63,800	61,100	89,100	80,600	114,000	51,100	33,200	69,300
21	27,100	3,440	18,900	13,100	73,900	65,700	86,000	84,300	128,000	53,500	35,500	64,100
22	26,200	1,800	11,700	12,500	70,200	77,100	86,700	69,500	135,000	55,100	33,100	64,300
23	25,600	2,940	11,400	13,800	59,200	83,200	70,900	57,200	130,000	50,400	30,600	57,600
24	21,100	2,980	12,400	15,900	54,400	87,500	71,400	55,700	133,000	49,300	30,200	48,500
25	21,600	2,840	10,900	17,500	53,800	93,100	102,000	54,100	132,000	40,800	29,500	49,700
26	19,400	4,850	10,100	14,500	56,400	90,400	88,700	59,200	136,000	25,600	30,200	53,100
27	15,200	3,310	9,160	14,900	47,300	85,900	79,200	81,200	134,000	25,900	31,200	56,100
28	12,500	5,150	11,000	14,200	36,900	83,200	83,700	88,600	132,000	25,700	29,200	56,500
29	14,700	4,450	5,860	16,600	37,100	85,200	94,500	100,000	118,000	25,600	26,400	52,800
30	13,100	4,810	6,450	17,000	---	78,700	90,900	107,000	111,000	26,200	18,100	52,800
31	14,200	---	8,880	20,100	---	65,000	---	108,000	---	25,500	16,500	---
Total	383,297	149,110	374,400	498,070	1,059,000	1,864,800	2,582,900	2,870,000	3,627,000	2,239,700	866,700	1,377,700
Mean	12,360	4,970	12,080	16,070	36,520	60,150	86,100	92,580	120,900	72,250	27,960	45,920
Max	27,100	9,830	32,600	30,400	73,900	108,000	114,000	114,000	139,000	116,000	35,700	113,000
Min	497	1,220	3,080	6,710	15,700	18,700	56,300	54,100	104,000	25,500	16,500	12,600
Ac-ft	760,300	295,800	742,600	987,900	2,101,000	3,699,000	5,123,000	5,693,000	7,194,000	4,442,000	1,719,000	2,733,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,709	8,394	10,930	21,550	21,160	34,440	39,740	54,580	63,730	57,360	22,200	19,160
Max	12,360	27,040	25,550	62,800	36,520	71,520	86,100	92,580	120,900	129,900	52,780	45,920
(WY)	(2008)	(2005)	(2005)	(2005)	(2008)	(2004)	(2008)	(2008)	(2008)	(2007)	(2007)	(2008)
Min	1,020	693	1,993	1,779	3,001	1,821	3,059	14,030	6,028	4,916	4,439	2,648
(WY)	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)	(2005)	(2006)	(2006)	(2006)	(2006)

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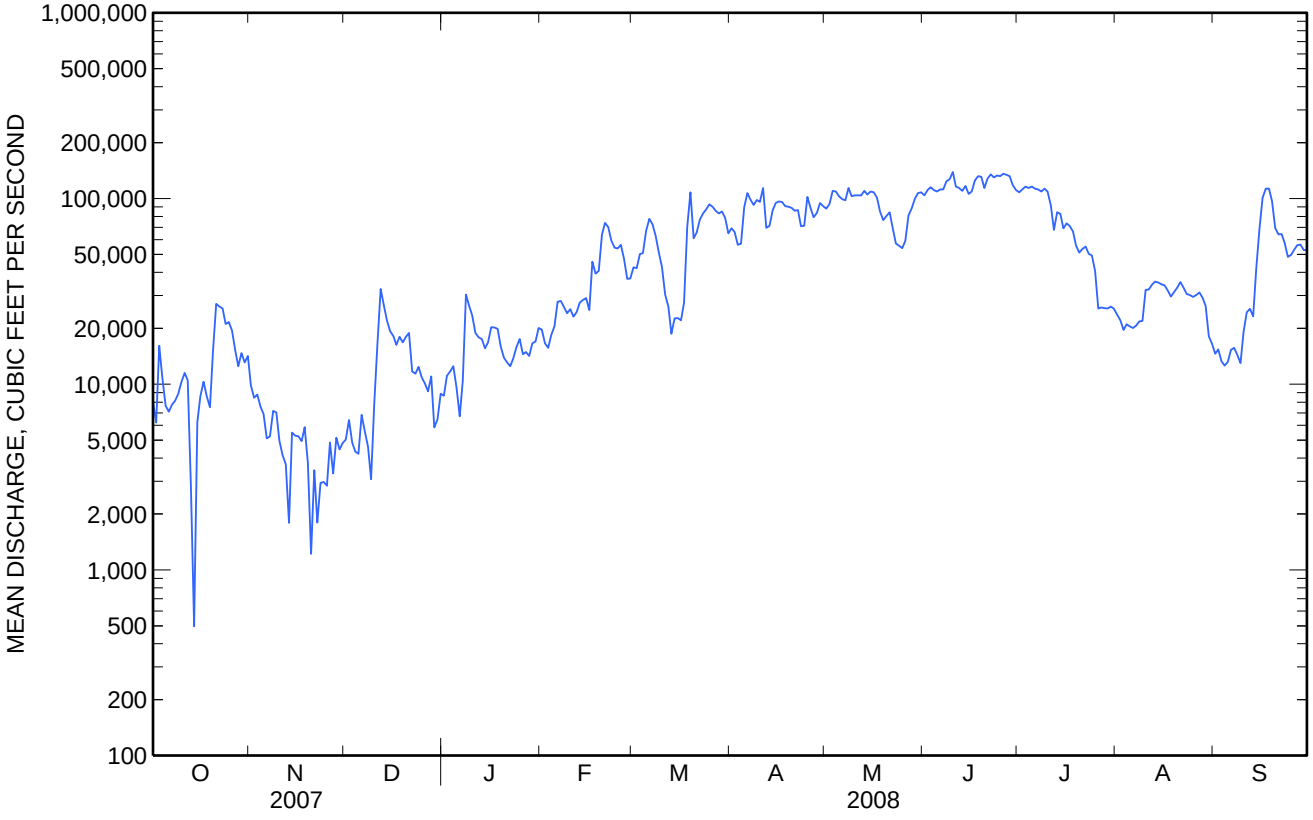
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2003 - 2008	
Annual total	15,456,467		17,892,677			
Annual mean	42,350		48,890		[a]30,200	
Highest annual mean					48,890	2008
Lowest annual mean					6,025	2006
Highest daily mean	[e]176,000	Jul 7	139,000	Jun 10	[e]176,000	Jul 7, 2007
Lowest daily mean	[e]497	Oct 14	[e]497	Oct 14	[b]260	Nov 14, 2006
Annual seven-day minimum	2,710	Nov 19	2,710	Nov 19	343	Nov 21, 2006
Maximum peak flow			153,000	Jun 10	[c,e]176,000	Jul 7, 2007
Maximum peak stage			30.72	Jun 10	[d]31.62	Jul 6,7, 2007
Annual runoff (ac-ft)	30,660,000		35,490,000		21,880,000	
10 percent exceeds	113,000		110,000		86,100	
50 percent exceeds	19,300		31,300		16,300	
90 percent exceeds	5,040		6,440		1,860	

[a] Prior gage operation, water years 1926-70, 19,520 ft³/s.

[b] Minimum daily prior to regulation, 66 ft³/s. Oct. 9, 1956.

[c] Maximum discharge for period of record, 700,000 ft³/s, May 21, 1943.

[d] Maximum gage height for period of record, 48.20 ft, May 21, 1943.

[e] Estimated.