Water-Data Report 2013

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.--96,472 mi^2 of which 11,648 mi^2 probably is noncontributing, from automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR 2012: 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 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 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,060	1,330	460	1,120	9,900	9,280	7,420	31,400	62,100	18,600	47,400	36,100
2	933	853	774	833	5,470	4,510	9,880	22,100	61,000	15,400	34,400	33,900
3	913	943	752	991	3,590	3,380	10,500	22,400	58,200	9,580	27,500	33,300
4	835	999	1,360	902	7,230	10,300	11,800	23,900	64,900	2,230	47,600	31,600
5	989	801	888	1,100	5,030	7,980	11,000	23,400	80,000	6,050	59,200	30,800
6	1,030	1,670	654	1,100	2,550	8,910	14,600	22,700	91,000	1,720	64,300	30,400
7	1,210	1,950	948	973	2,890	9,480	15,500	19,700	87,100	4,410	69,500	28,900
8	779	e409	823	818	2,050	9,660	11,700	18,700	84,100	6,430	80,100	24,300
9	939	e365	565	979	2,580	4,750	10,800	21,200	81,200	5,350	108,000	26,400
10	905	e314	440	873	1,870	5,460	11,800	24,600	78,800	8,180	112,000	26,400
11	786	e392	740	664	2,290	8,950	13,600	28,200	73,600	4,800	114,000	22,600
12	1,120	1,190	742	1,210	2,160	9,680	15,500	28,000	59,500	3,590	113,000	22,900
13	1,430	2,000	602	718	3,240	10,100	15,900	25,800	43,300	2,870	105,000	18,600
14	7,820	713	507	4,160	2,730	9,940	16,200	23,500	32,900	3,710	110,000	19,000
15	10,100	944	922	2,050	1,890	8,800	15,800	22,000	32,800	4,100	110,000	17,900
16	9,190	1,990	1,920	2,350	2,120	4,850	14,800	20,400	33,700	1,230	108,000	18,300
17	8,510	624	1,010	2,620	2,170	4,330	12,700	19,000	33,800	2,620	106,000	17,300
18	5,920	641	1,020	1,200	1,630	8,510	61,200	17,500	30,300	4,220	94,200	15,600
19	4,220	667	674	851	3,140	9,140	73,300	18,100	32,900	3,960	78,500	15,800
20	1,310	1,820	e350	1,000	3,760	9,450	62,300	16,100	30,100	2,270	e83,600	15,900
21	1,090	1,690	1,560	1,840	3,510	8,540	55,500	25,800	32,400	1,560	e75,600	8,960
22	2,240	818	811	2,320	3,250	9,960	45,700	39,300	28,400	12,400	e66,700	8,630
23	2,120	675	934	1,640	2,740	4,660	36,000	36,900	26,600	9,400	e60,600	10,400
24	1,970	852	787	1,100	1,140	2,160	35,600	38,300	25,600	10,600	e59,600	6,690
25	1,050	1,230	1,250	954	5,700	6,260	28,600	35,500	25,000	15,200	e59,400	9,370
26	1,080	1,890	872	785	13,600	3,830	21,100	29,600	29,200	15,600	e58,300	9,400
27	1,190	1,450	1,370	503	14,500	3,680	28,100	18,700	27,400	11,600	e57,300	6,160
28	959	842	850	683	11,600	3,670	37,100	21,700	21,400	9,840	e53,100	3,200
29	1,190	788	715	2,490	---	4,370	34,800	22,300	20,200	13,500	e45,700	3,900
30	927	689	822	4,190	---	9,580	37,900	31,300	21,800	28,100	e43,200	4,890
31	1,240	---	908	8,380	---	7,680	---	72,000	---	48,300	e42,000	---
Total	75,055	31,539	27,030	51,397	124,330	221,850	776,700	820,100	1,409,300	287,420	2,293,800	557,600
Mean	2,421	1,051	872	1,658	4,440	7,156	25,890	26,450	46,980	9,272	73,990	18,590
Max	10,100	2,000	1,920	8,380	14,500	10,300	73,300	72,000	91,000	48,300	114,000	36,100
Min	779	314	350	503	1,140	2,160	7,420	16,100	20,200	1,230	27,500	3,200
Ac-ft	148,900	62,560	53,610	101,900	246,600	440,000	1,541,000	1,627,000	2,795,000	570,100	4,550,000	1,106,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11,900	10,090	8,293	14,410	18,290	29,220	37,290	52,860	47,560	36,030	22,330	16,900
Max	49,960	33,230	25,550	62,800	36,520	71,520	86,100	106,200	120,900	129,900	73,990	45,920
(WY)	(2010)	(2010)	(2005)	(2005)	(2008)	(2004)	(2008)	(2009)	(2008)	(2007)	(2013)	(2008)
Min	1,020	693	872	1,658	3,001	1,821	3,059	14,030	3,842	1,655	1,286	1,782
(WY)	(2007)	(2007)	(2013)	(2013)	(2006)	(2006)	(2006)	(2005)	(2012)	(2012)	(2012)	(2012)

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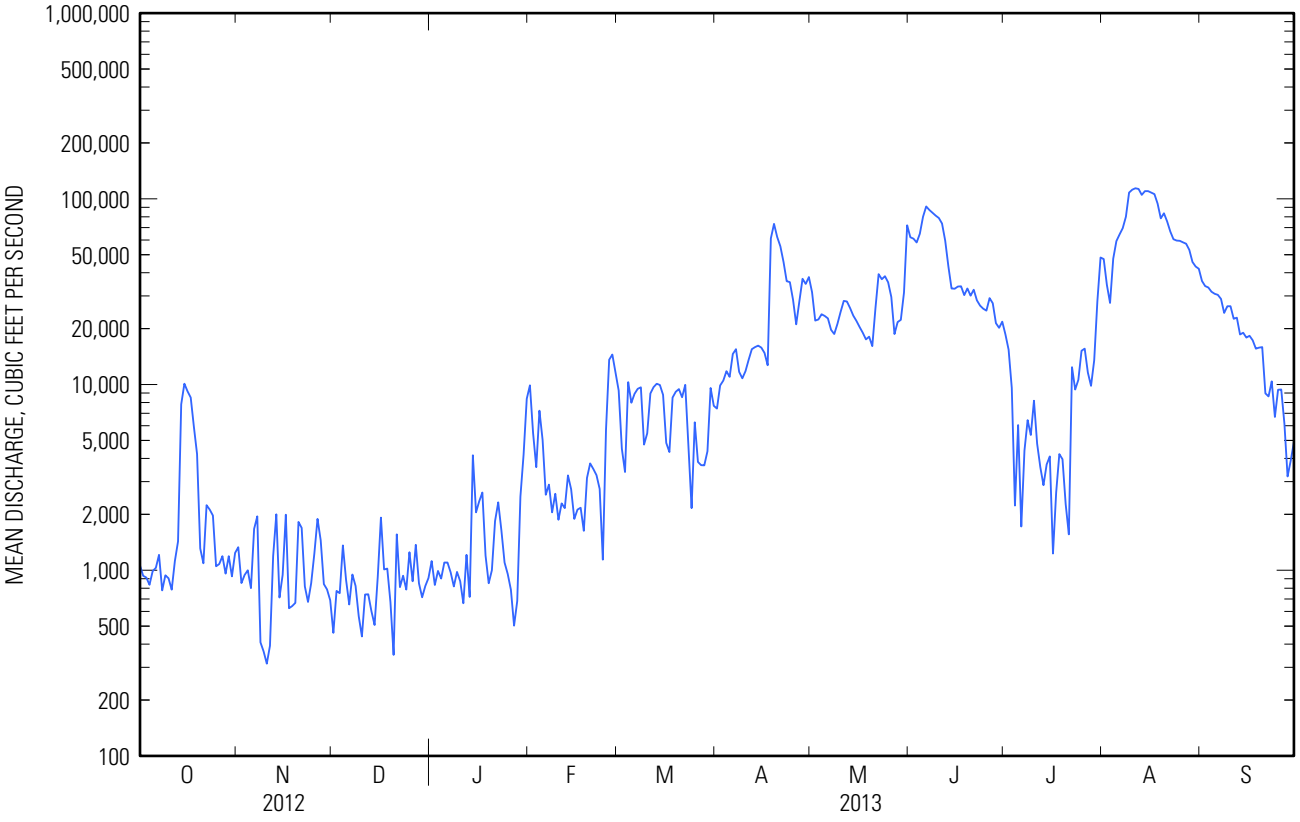
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2003 - 2013	
Annual total	4,443,906		6,676,121			
Annual mean	12,140		18,290		[b]25,530	
Highest annual mean					48,890	2008
Lowest annual mean					6,025	2006
Highest daily mean	99,500	May 5	114,000	Aug 11	[a] 176,000	Jul 7, 2007
Lowest daily mean	[a] 314	Nov 10	[a] 314	Nov 10	[c]260	Nov 14, 2006
Annual seven-day minimum	631	Dec 8	631	Dec 8	343	Nov 21, 2006
Maximum peak flow			125,000	Aug 9	[a,d]176,000	Jul 7, 2007
Maximum peak stage			28.20	Aug 9	[e]31.62	Jul 6, 2007
Annual runoff (ac-ft)	8,814,000		13,240,000		18,490,000	
10 percent exceeds	42,400		58,700		69,500	
50 percent exceeds	2,200		8,380		13,500	
90 percent exceeds	808		820		1,350	

[a] Estimated.
[b] Prior gage operation, water years 1926-70, 19,520 ft³/s.
[c] Minimum daily discharge prior to regulation, 66 ft³/s. Oct. 9, 1956.
[d] Maximum discharge for period of record, 700,000 ft³/s, May 21, 1943.
[e] Maximum gage height for period of record, 48.20 ft, May 21, 1943.