Water-Data Report 2013

06889000 KANSAS RIVER AT TOPEKA, KS

Kansas Basin
Middle Kansas Subbasin

LOCATION.--Lat 39°04′00″, long 95°38′58″ referenced to North American Datum of 1927, in NW ¼ NW ¼ SW ¼ sec.28, T.11 S., R.16 E., Shawnee County, KS, Hydrologic Unit 10270102, on right bank at downstream side of Sardou Bridge in Topeka, 2.3 mi upstream from Soldier Creek (diversion channel), and at mile 83.1.

DRAINAGE AREA.--56,720 mi^2, approximately of which a large area is probably noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April to August 1904 (gage heights only), June 1917 to current year. Gage-height records for this vicinity since August 1904 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 806: Drainage area. WSP 1310: 1920(M), 1922(M), 1993(M).

GAGE.--Water-stage recorder. Datum of gage is 846.66 ft above NGVD of 1929. Feb. 28, 1961, to Sept. 30, 1988, gage datum was 5.00 ft higher. Prior to Feb. 28, 1961, recording or nonrecording gages at several sites within 8,000 ft of present site at various datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow affected by reservoirs in Colorado, Nebraska, and Kansas, and by numerous diversions upstream from station. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 30, 1903 (second highest since 1844), reached a stage of about 37 ft, present site and datum, from floodmarks at site 5,900 ft upstream, discharge, about 300,000 ft^3/s. A flood in the spring of 1844 is known to have been higher than that of 1903.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 06889000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/06889000.2013.pdf

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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	1,070	643	647	e718	e457	777	638	879	4,680	4,390	9,460	1,680
2	1,070	636	653	677	e653	737	600	1,140	5,220	4,010	10,900	1,570
3	1,070	646	640	601	e709	673	606	4,580	6,990	3,090	19,500	1,500
4	1,060	639	647	653	e681	678	621	3,300	9,590	2,300	23,900	1,440
5	1,060	644	629	638	663	673	611	2,770	11,000	2,020	21,600	1,390
6	1,050	648	629	690	632	650	580	2,810	11,900	1,930	17,800	1,340
7	1,040	628	641	767	716	652	593	2,750	11,600	1,880	14,500	1,290
8	1,020	621	621	798	685	648	645	2,710	11,700	1,810	10,700	1,260
9	1,020	621	626	832	693	866	1,720	2,620	12,800	1,740	12,500	1,210
10	1,010	621	603	810	686	804	1,470	3,380	12,900	1,700	7,650	1,160
11	1,020	928	628	721	674	739	1,090	3,080	12,100	1,670	6,590	1,120
12	1,030	810	603	701	676	735	1,260	2,830	12,200	1,640	6,880	1,190
13	1,120	770	593	e647	694	682	937	2,930	12,000	1,440	10,400	1,220
14	1,140	726	593	e635	695	661	e838	3,080	12,200	1,380	9,690	1,190
15	1,120	684	627	e639	665	659	e754	2,540	10,300	1,370	8,990	1,140
16	1,090	665	643	e650	637	670	708	2,220	7,680	1,340	9,760	1,450
17	981	732	641	726	622	639	707	2,090	7,780	1,310	14,500	2,010
18	848	729	641	719	630	640	2,300	2,010	7,590	1,290	14,600	1,760
19	753	674	647	615	614	633	6,110	2,040	5,460	1,190	12,100	1,330
20	708	642	699	596	589	654	2,500	2,130	3,560	1,130	10,600	1,250
21	693	611	692	577	e584	623	1,830	2,110	2,690	1,100	7,750	1,220
22	680	585	673	570	e584	635	1,550	2,060	2,820	1,110	5,770	1,220
23	660	600	657	532	e631	637	1,450	1,920	2,870	1,060	4,300	1,130
24	642	609	680	560	812	701	1,270	1,860	3,450	1,010	3,400	1,080
25	663	619	e684	548	1,140	675	1,330	1,890	3,580	1,050	3,110	1,040
26	636	642	e671	751	999	646	1,270	1,900	2,960	1,050	2,870	1,030
27	603	618	e675	753	793	621	1,160	3,560	2,830	974	2,660	1,230
28	628	622	703	629	777	610	1,040	4,030	4,170	943	2,310	1,350
29	637	624	709	642	---	617	986	2,540	5,220	1,130	1,990	1,090
30	630	633	e710	e630	---	635	916	3,770	4,760	2,590	1,870	952
31	641	---	e713	e548	---	635	---	5,970	---	5,930	1,750	---
Mean	884	662	652	664	693	674	1,270	2,694	7,487	1,825	9,368	1,295
Max	1,140	928	713	832	1,140	866	6,110	5,970	12,900	5,930	23,900	2,010
Min	603	585	593	532	457	610	580	879	2,690	943	1,750	952
Ac-ft	54,330	39,410	40,100	40,810	38,460	41,470	75,550	165,600	445,500	112,200	576,000	77,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,195	3,275	2,738	2,226	3,391	5,197	6,723	8,367	11,560	9,123	5,576	5,065
Max	42,320	35,190	16,140	11,280	16,720	27,610	32,500	36,010	64,670	109,100	55,350	34,840
(WY)	(1974)	(1974)	(1974)	(1974)	(1949)	(1973)	(1987)	(1995)	(1951)	(1951)	(1993)	(1951)
Min	348	406	383	328	500	492	650	585	1,075	986	269	425
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1967)	(1956)	(1956)	(1989)	(1936)	(1934)	(1956)

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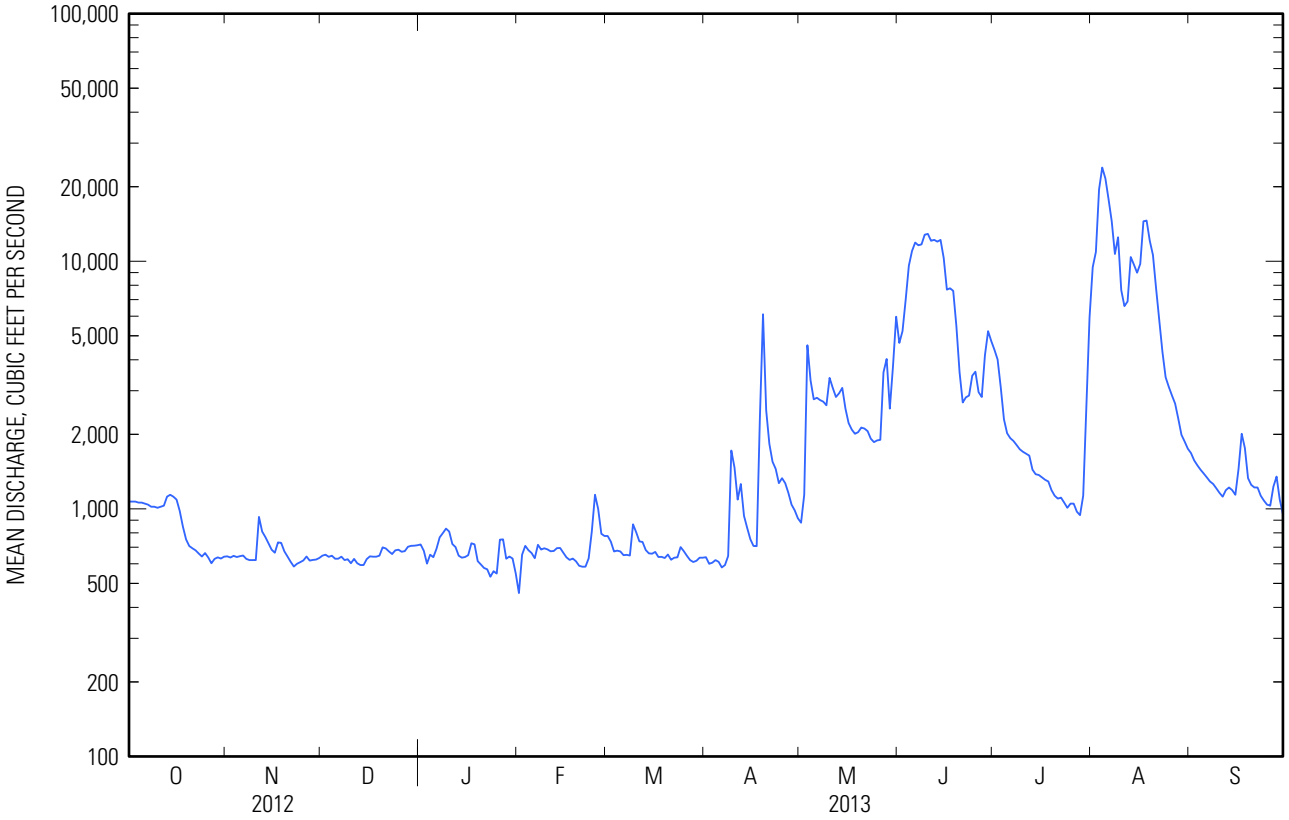
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1918 - 2013	
Annual mean	2,203		2,357		5,658	
Highest annual mean					25,580	1993
Lowest annual mean					1,138	1956
Highest daily mean	11,500	Apr 19	23,900	Aug 4	458,000	Jul 13, 1951
Lowest daily mean	585	Nov 22	457	Feb 1	170	Oct 11, 1956
Annual seven-day minimum	610	Dec 8	571	Jan 19	183	Oct 7, 1956
Maximum peak flow			24,600	Aug 4	469,000	Jul 13, 1951
Maximum peak stage			14.23	Aug 4	40.80	Jul 13, 1951
Instantaneous low flow			363	Jan 22	112	Dec 16, 1940
Annual runoff (ac-ft)	1,599,000		1,707,000		4,099,000	
10 percent exceeds	4,580		6,710		13,100	
50 percent exceeds	1,580		986		2,640	
90 percent exceeds	642		621		870