

Water-Data Report 2012

06891500 WAKARUSA RIVER NEAR LAWRENCE, KS

Kansas Basin
Lower Kansas Subbasin

LOCATION.--Lat 38°54'41", long 95°15'39" referenced to North American Datum of 1927, in NW ¼ SW ¼ SW ¼ sec.24, T.13 S., R.19 E., Douglas County, KS, Hydrologic Unit 10270104, on left bank at upstream side of bridge on U.S. Highway 59, 4 mi south of Lawrence, and at mile 16.3.

DRAINAGE AREA.--425 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1929 to current year. Published as "below Clinton Dam" December 1972 to September 1980.

REVISED RECORDS.--WSP 976: 1935. WSP 1310: 1929(M), 1933(M), 1938(M), 1945-47(M), 1949-50(M). WSP 1919: 1958, 1959.

GAGE.--Water-stage recorder. Datum of gage is 799.26 ft above NGVD of 1929. Prior to May 7, 1959, nonrecording gage, and May 8, 1959, to Nov. 30, 1972, water-stage recorder at present site and datum. Dec. 1, 1972, to Sept. 30, 1980, water-stage recorder at site 2.3 mi upstream at datum 3.95 ft higher.

REMARKS.--Records fair. Flow significantly regulated since 1977 by Clinton Lake (station 06891478), 6.0 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1880, that of July 12, 1951.

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**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22	6.2	4.9	7.2	5.6	91	77	75	24	20	21	50
2	3.8	13	4.4	6.3	5.6	64	75	49	23	20	23	24
3	2.3	13	60	6.0	59	53	73	40	23	21	22	23
4	1.9	3.3	29	6.3	37	48	77	37	22	21	22	22
5	1.7	2.3	14	6.2	25	33	81	34	22	21	21	22
6	1.9	2.3	11	6.3	19	21	75	60	21	21	21	23
7	1.8	40	8.2	6.3	15	20	74	93	21	21	21	24
8	1.7	75	6.4	5.9	13	33	72	42	21	21	22	25
9	1.7	53	5.6	6.0	11	24	71	38	21	23	21	24
10	2.1	16	4.9	5.9	9.2	22	70	34	21	21	21	23
11	2.3	11	5.0	6.0	7.6	32	70	31	24	21	21	23
12	2.3	8.6	4.7	5.5	7.3	46	70	29	22	21	21	24
13	4.5	6.9	5.4	4.9	9.0	39	72	29	22	22	21	29
14	4.5	5.7	13	5.2	11	31	71	28	21	21	22	30
15	2.6	4.3	7.4	5.5	11	27	72	27	21	21	22	25
16	2.4	5.8	6.0	6.0	11	25	69	27	21	21	22	25
17	2.6	5.9	5.4	5.7	9.5	24	69	25	21	21	22	25
18	2.6	5.5	4.8	4.9	9.0	22	68	25	21	21	22	25
19	2.9	5.7	87	5.1	8.5	72	68	25	21	48	22	24
20	2.8	5.0	189	5.3	14	290	68	24	21	21	22	24
21	2.9	5.0	50	5.2	20	233	67	23	58	20	22	24
22	2.9	7.8	29	5.6	14	337	67	23	23	20	23	24
23	2.9	6.3	21	6.3	12	248	66	23	22	20	23	24
24	3.1	5.4	18	6.0	11	142	67	26	21	20	23	24
25	3.1	5.5	16	5.9	9.9	97	53	33	21	21	30	24
26	3.8	39	12	5.8	8.7	97	30	26	21	22	24	27
27	5.4	12	10	5.2	8.0	113	30	24	21	21	23	27
28	4.5	7.2	8.5	5.7	17	102	32	23	21	21	23	26
29	4.9	5.8	8.2	6.4	324	90	70	23	20	21	23	25
30	5.7	5.1	7.5	5.9	---	84	43	27	20	21	22	26
31	5.9	---	7.1	5.7	---	80	---	36	---	21	26	---
Mean	3.73	12.9	21.4	5.81	24.9	85.2	65.6	34.2	22.7	21.8	22.4	25.5
Max	22	75	189	7.2	324	337	81	93	58	48	30	50
Min	1.7	2.3	4.4	4.9	5.6	20	30	23	20	20	21	22
Ac-ft	229	769	1,320	357	1,430	5,240	3,900	2,100	1,350	1,340	1,380	1,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	143	145	118	100	139	260	325	393	458	305	118	117
Max	2,038	1,953	1,099	584	775	2,076	2,275	2,324	3,137	3,638	1,829	1,281
(WY)	(1986)	(1999)	(1945)	(2005)	(2005)	(1973)	(1944)	(1999)	(1967)	(1951)	(1968)	(1973)
Min	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.00	2.60	0.00	0.00	0.00
(WY)	(1934)	(1934)	(1934)	(1934)	(1934)	(1939)	(1954)	(1939)	(1936)	(1934)	(1934)	(1937)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1930 - 2012	
Annual mean	78.5		28.8		219	
Highest annual mean					728	1999
Lowest annual mean					10.2	1953
Highest daily mean	1,280	Feb 28	337	Mar 22	22,600	Jul 12, 1951
Lowest daily mean	1.7	Oct 5	1.7	Oct 5	0.00	Jul 11, 1930
Annual seven-day minimum	1.8	Oct 4	1.8	Oct 4	0.00	Jul 11, 1930
Maximum peak flow			603	Feb 29	24,200	Jul 12, 1951
Maximum peak stage			7.87	Feb 29	31.59	Jul 12, 1951
Instantaneous low flow			1.1	Oct 12	0.00	some years
Annual runoff (ac-ft)	56,860		20,930		158,500	
10 percent exceeds	108		69		531	
50 percent exceeds	29		21		27	
90 percent exceeds	5.0		4.9		0.66	

