ARKANSAS RIVER BASIN

07137000 FRONTIER DITCH NEAR COOLIDGE, KS

LOCATION.--Lat 38°02'18", long 102°02'19", in SW ¼ SE ¼ NE ¼ sec.21, T.23 S., R.43 W., Hamilton County, Hydrologic Unit 11030001, on left bank 0.3 mi east of Colorado-Kansas State line, 0.5 mi downstream from Holly drain diversion, 1.5 mi west of Coolidge, and 2.3 mi downstream from diversion of the Arkansas River.

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1731: 1951.

GAGE.--Water-stage recorders and Parshall flume. Datum of gage is 3,343.14 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. This ditch diverts water from the Arkansas River in Colorado for use in Kansas. These records and records for the Arkansas River near Coolidge (station 07137500) epresent total flow of the Arkansas River at the Colorado-Kansas State line. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 84 ft^3/s, Aug. 1, 1975; no flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e20	21	0.00	0.00	0.00	0.00	24	0.00	22	0.00	e40	17
2	18	22	0.00	0.00	0.00	0.00	24	0.00	20	0.00	e40	17
3	17	21	0.00	0.00	0.00	0.00	24	0.00	19	0.00	e38	15
4	17	20	0.00	0.00	0.00	0.00	24	0.00	20	0.00	e37	15
5	17	19	0.00	0.00	0.00	0.00	24	0.00	28	0.00	34	16
6	17	20	0.00	0.00	0.00	0.00	24	0.00	28	0.00	32	16
7	16	19	0.00	0.00	0.00	0.00	26	0.00	24	0.00	34	17
8	e17	18	0.00	0.00	0.00	0.00	e29	0.00	24	0.00	33	20
9	19	18	0.00	0.00	0.00	0.00	e29	0.00	21	6.6	34	22
10	18	17	0.00	0.00	0.00	0.00	e29	0.00	25	14	31	22
11	16	16	0.00	0.00	0.00	0.00	e29	17	27	29	28	e22
12	15	13	0.00	0.00	0.00	0.00	e30	26	31	19	28	e23
13	15	11	0.00	0.00	0.00	0.00	e30	26	24	15	28	e22
14	14	9.9	0.00	0.00	0.00	0.00	31	27	17	29	28	e22
15	14	8.6	0.00	0.00	0.00	0.00	31	27	e20	32	28	e22
16	13	7.7	0.00	0.00	0.00	0.00	32	27	e5.6	34	28	e22
17	13	7.0	0.00	0.00	0.00	0.00	32	27	0.53	e38	28	e22
18	13	6.4	0.00	0.00	0.00	0.00	31	27	0.16	e39	27	e24
19	12	6.3	0.00	0.00	0.00	0.00	26	27	0.00	e39	28	e23
20	11	6.7	0.00	0.00	0.00	0.00	26	27	0.09	e39	28	e22
21	9.4	e6.6	0.00	0.00	0.00	0.00	26	27	1.0	37	26	e22
22	7.7	e6.2	0.00	0.00	0.00	0.00	26	27	0.18	e35	26	e22
23	6.5	e6.7	0.00	0.00	0.00	0.00	25	27	0.00	e39	26	e17
24	e6.5	e6.4	0.00	0.00	0.00	0.00	14	27	0.00	e39	25	0.94
25	e8.2	e6.0	0.00	0.00	0.00	0.00	0.09	e29	0.00	e40	24	0.73
26	e8.4	e5.6	0.00	0.00	0.00	11	0.00	e32	0.00	e40	23	0.47
27	e6.7	0.05	0.00	0.00	0.00	18	0.00	e32	0.00	e40	23	0.23
28	e9.9	0.00	0.00	0.00	0.00	22	0.00	e30	0.00	e40	24	0.03
29	e21	0.00	0.00	0.00	0.00	28	0.00	26	0.00	e40	22	0.00
30	20	0.00	0.00	0.00	---	26	0.00	23	0.00	e38	21	0.00
31	20	---	0.00	0.00	---	25	---	22	---	e39	19	---
MEAN	14.1	10.8	0.00	0.00	0.00	4.19	21.5	18.1	11.9	24.5	28.7	15.5
MAX	21	22	0.00	0.00	0.00	28	32	32	31	40	40	24
MIN	6.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00
AC-FT	865	645	0.00	0.00	0.00	258	1,280	1,110	709	1,510	1,770	921

CAL YR 2003 MEAN 9.12 MAX 31 MIN 0.00 AC-FT 6600
WTR YR 2004 MEAN 12.5 MAX 40 MIN 0.00 AC-FT 9070

e Estimated

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS

LOCATION.--Lat 38°01'39", long 102°00'42", in NW ¼ NE ¼ NW ¼ sec.26, T.23 S., R.43 W., Hamilton County, Hydrologic Unit 11030001, on right bank at downstream side of county highway bridge, 1.0 mi south of Coolidge, 1.9 mi downstream from Colorado-Kansas State line, and at mile 1,099.3 .

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--25,410 mi^2, of which 1,708 mi^2 is probably noncontributing.

PERIOD OF RECORD.--May to October 1903, March to May 1921, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1341: 1903, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,330.84 ft above NGVD of 1929. May 5 to Oct. 31, 1903, nonrecording gage, and Mar. 1 to May 31, 1921, water-stage recorder at present site at different datum. Oct. 1, 1950, to Mar. 31, 1966, water-stage recorder at site 0.3 mi upstream at datum 3.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Combined flow of river and Frontier Ditch (station 07137000) represents entire flow that enters Kansas. Flow regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation of about 500,000 acres, and return flow from irrigated areas. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	11	32	41	43	45	310	142	14	197	126	48
2	24	11	27	41	43	44	340	146	14	206	106	47
3	18	9.6	29	41	44	44	375	122	14	186	86	41
4	16	8.7	30	40	44	47	411	110	15	165	73	40
5	14	8.0	32	38	44	46	464	108	16	150	57	41
6	12	7.8	31	31	42	44	603	95	15	147	62	40
7	15	8.0	35	29	42	41	651	87	14	137	61	38
8	9.9	7.6	35	35	43	44	630	86	14	135	90	33
9	9.1	7.6	36	42	43	43	595	86	18	110	129	30
10	9.1	8.0	35	44	42	43	559	87	21	96	145	27
11	15	8.7	35	44	43	39	554	74	26	76	183	25
12	14	10	34	41	e37	41	530	65	25	82	139	23
13	15	13	32	41	e36	42	347	58	22	66	128	22
14	13	14	35	43	e38	37	201	57	24	50	141	22
15	15	15	42	49	43	35	155	51	24	43	126	22
16	18	16	37	45	41	40	119	51	145	35	113	25
17	22	18	39	41	41	31	96	44	104	30	112	24
18	16	20	42	40	41	28	81	43	89	29	93	23
19	17	19	39	41	43	27	74	38	414	26	89	22
20	17	21	40	40	42	27	65	38	385	25	84	27
21	18	23	41	39	42	26	54	38	792	25	151	30
22	20	24	41	39	41	27	59	45	480	23	134	41
23	23	28	40	40	41	27	68	42	349	327	105	48
24	23	28	40	41	41	24	135	39	285	215	79	60
25	23	38	41	42	43	25	135	37	230	128	69	201
26	24	36	41	42	45	20	125	27	197	109	72	129
27	26	42	41	e38	47	13	117	22	371	84	67	104
28	24	41	39	e38	45	14	114	17	207	76	72	85
29	13	41	38	e38	43	115	108	16	179	81	65	69
30	9.3	39	40	e39	---	202	124	15	171	71	60	64
31	8.9	---	43	42	---	268	---	15	---	103	52	---
MEAN	16.8	19.4	36.8	40.2	42.2	50.0	273	61.3	156	104	99.0	48.4
MAX	26	42	43	49	47	268	651	146	792	327	183	201
MIN	8.9	7.6	27	29	36	13	54	15	14	23	52	22
AC-FT	1,030	1,150	2,270	2,470	2,430	3,070	16,260	3,770	9,270	6,410	6,090	2,880

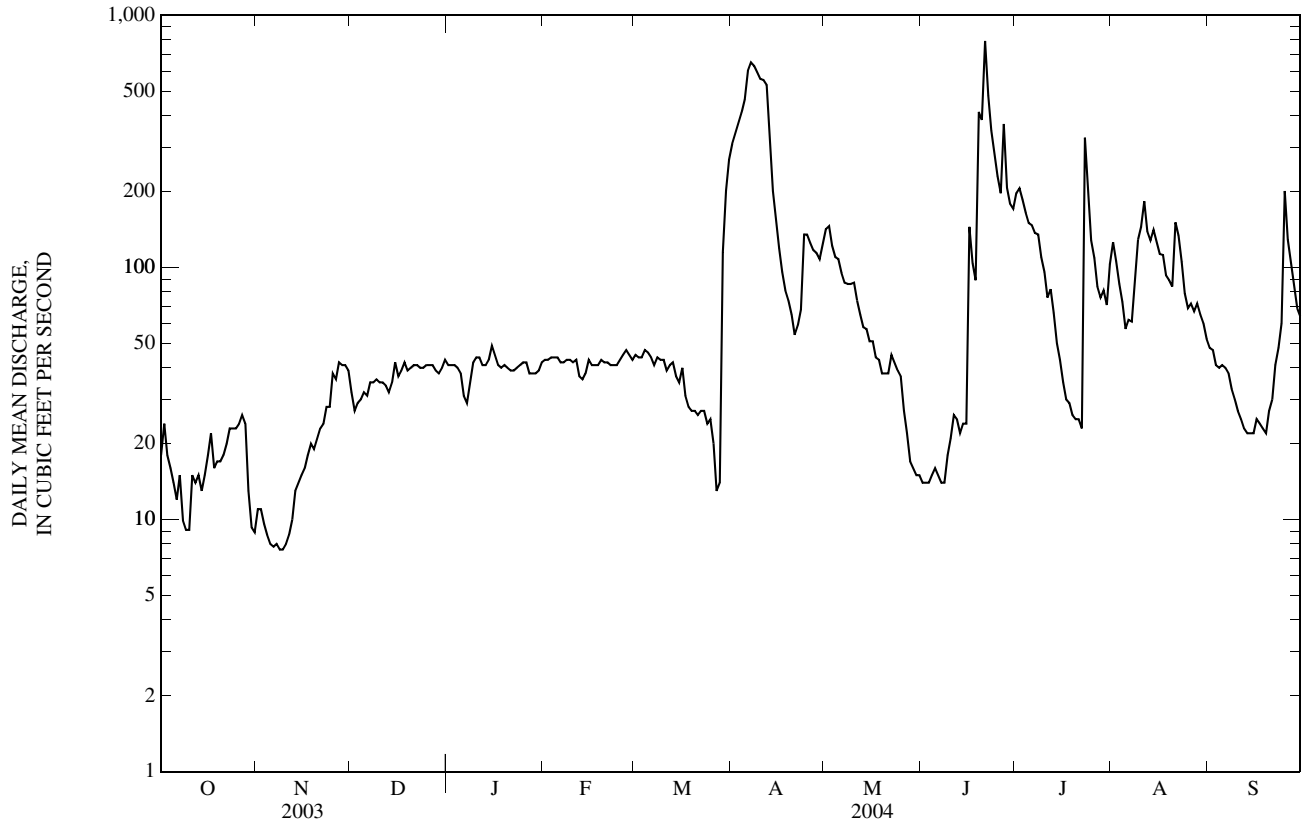
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	132	120	125	133	138	133	216	313	478	352	325	177
MAX	332	424	534	972	602	658	1,221	2,478	8,221	2,255	1,979	1,079
(WY)	(1998)	(1998)	(1998)	(1998)	(1966)	(1998)	(1987)	(1999)	(1965)	(1995)	(1965)	(1965)
MIN	1.97	1.53	3.94	3.14	5.52	5.63	9.43	6.61	4.20	3.59	1.94	0.90
(WY)	(1979)	(1979)	(1979)	(1979)	(1978)	(1978)	(1979)	(1963)	(1954)	(1974)	(1964)	(1960)

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL MEAN	36.4		78.7		220	
HIGHEST ANNUAL MEAN					1,012	1965
LOWEST ANNUAL MEAN					19.8	1979
HIGHEST DAILY MEAN	163	Jun 21	792	Jun 21	101,000	Jun 18, 1965
LOWEST DAILY MEAN	2.5	Sep 18	7.6	Nov 8	0.00	Jul 9, 1954
ANNUAL SEVEN-DAY MINIMUM	2.7	Sep 16	8.0	Nov 4	0.00	Jul 9, 1954
MAXIMUM PEAK FLOW			1,390	Jun 21	158,000	Jun 17, 1965
MAXIMUM PEAK STAGE			6.39	Jun 21	14.80	Jun 17, 1965
INSTANTANEOUS LOW FLOW			7.3	Nov 6	0.00	many years
ANNUAL RUNOFF (AC-FT)	26,340		57,100		159,700	
10 PERCENT EXCEEDS	60		158		454	
50 PERCENT EXCEEDS	32		41		125	
90 PERCENT EXCEEDS	5.2		15		10	

e Estimated



07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-68, 1970-73, 1975-81, July 1999 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1963 to September 1968, January 1976 to September 1981, October 2000 to current year.
WATER TEMPERATURE: November 1963 to September 1968, October 1976 to September 1981, July 1999 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions or malfunction of the recording instrument or sensors.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 6,800 miscrosiemens/cm, Mar. 29, 1978; minimum, 184 microsiemens/cm, Aug. 30, 2002.
WATER TEMPERATURE: Maximum, 36.4°C, Aug. 7, 2003; minimum, -0.1°C, Nov. 28, 2001.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 4,910 microsiemens/cm, Mar. 28; minimum, 706 microsiemens/cm, June 15.
WATER TEMPERATURE: Maximum, 33.1°C, July 20; minimum, -0.1°C, Jan. 27.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3,810	3,300	3,540	4,410	4,340	4,380	4,490	4,270	4,410	---	---	---
2	3,660	3,120	3,310	4,380	4,360	4,370	4,490	4,440	4,470	---	---	---
3	3,820	3,500	3,640	4,380	4,360	4,370	4,470	4,410	4,430	---	---	---
4	3,980	3,710	3,820	4,390	4,360	4,380	4,470	4,410	4,440	---	---	---
5	4,020	3,900	3,950	4,420	4,390	4,400	4,500	4,420	4,450	---	---	---
6	4,120	4,020	4,050	4,430	4,390	4,410	4,500	4,380	4,460	---	---	---
7	4,090	3,960	3,980	4,440	4,380	4,420	4,430	4,380	4,410	---	---	---
8	4,240	4,030	4,190	4,430	4,410	4,420	4,420	4,290	4,390	---	---	---
9	4,280	4,190	4,240	4,440	4,410	4,420	4,420	4,300	4,350	---	---	---
10	4,290	4,130	4,230	4,440	4,410	4,420	4,500	4,400	4,450	---	---	---
11	4,260	3,960	4,040	4,460	4,420	4,440	4,490	4,410	4,460	---	---	---
12	4,080	4,010	4,060	4,520	4,420	4,500	4,480	4,380	4,450	---	---	---
13	4,100	3,980	4,050	4,530	4,440	4,490	4,600	4,380	4,510	---	---	---
14	4,240	4,020	4,150	4,560	4,480	4,520	4,540	4,260	4,440	---	---	---
15	4,270	3,990	4,140	4,570	4,510	4,530	---	---	---	4,700	4,620	4,650
16	4,130	3,720	4,020	4,570	4,510	4,530	---	---	---	4,630	4,590	4,610
17	4,020	3,720	3,850	4,550	4,510	4,530	---	---	---	4,640	4,610	4,620
18	4,320	4,020	4,220	4,560	4,500	4,520	---	---	---	4,640	4,610	4,620
19	4,250	4,130	4,190	4,570	4,490	4,530	---	---	---	4,640	4,620	4,630
20	4,360	4,170	4,280	4,530	4,390	4,490	---	---	---	4,640	4,580	4,610
21	4,330	4,240	4,290	4,490	4,420	4,460	---	---	---	4,650	4,580	4,610
22	4,440	4,270	4,350	4,520	4,450	4,480	---	---	---	4,670	4,580	4,620
23	4,410	4,250	4,320	4,560	4,390	4,460	---	---	---	4,690	4,600	4,640
24	4,430	4,270	4,370	4,650	4,410	4,530	---	---	---	4,680	4,600	4,630
25	4,420	4,320	4,380	4,520	4,220	4,350	---	---	---	4,620	4,580	4,600
26	4,420	4,310	4,360	4,450	4,280	4,330	---	---	---	4,660	4,570	4,620
27	4,350	4,220	4,310	4,310	4,250	4,270	---	---	---	4,820	4,620	4,710
28	4,330	4,220	4,260	4,350	4,260	4,310	---	---	---	4,770	4,570	4,670
29	4,400	4,300	4,370	4,340	4,250	4,290	---	---	---	4,770	4,560	4,650
30	4,400	4,370	4,380	4,510	4,270	4,330	---	---	---	4,690	4,550	4,610
31	4,400	4,360	4,380	---	---	---	---	---	---	4,650	4,590	4,620
MONTH	4,440	3,120	4,120	4,650	4,220	4,430	4,600	4,260	4,440	4,820	4,550	4,630

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4,630	4,510	4,570	4,600	4,530	4,570	2,500	2,460	2,480	3,660	3,330	3,510
2	4,660	4,540	4,590	4,570	4,500	4,540	2,490	2,470	2,480	3,410	3,210	3,290
3	4,600	4,540	4,580	4,530	4,500	4,520	2,480	2,460	2,470	3,980	3,410	3,760
4	4,620	4,590	4,610	4,520	4,320	4,460	2,480	2,440	2,450	4,130	3,980	4,070
5	4,620	4,530	4,580	4,460	4,320	4,410	2,450	2,390	2,420	4,200	4,100	4,150
6	4,650	4,560	4,600	4,540	4,460	4,500	2,390	2,340	2,370	4,260	4,040	4,110
7	4,670	4,570	4,620	4,570	4,530	4,540	2,410	2,370	2,390	4,090	4,010	4,050
8	4,670	4,590	4,630	4,570	4,520	4,550	2,390	2,380	2,380	4,010	3,880	3,940
9	4,700	4,600	4,640	4,590	4,560	4,580	2,400	2,370	2,380	3,950	3,840	3,890
10	4,690	4,600	4,640	4,610	4,570	4,590	2,380	2,330	2,360	3,910	3,850	3,880
11	4,700	4,620	4,660	4,610	4,590	4,600	2,380	2,350	2,360	3,940	3,830	3,890
12	4,810	4,670	4,740	4,700	4,600	4,640	2,400	2,370	2,380	4,000	3,810	3,900
13	4,890	4,610	4,740	4,700	4,600	4,640	2,670	2,390	2,530	4,220	3,990	4,160
14	4,820	4,580	4,690	4,660	4,630	4,650	2,840	2,670	2,780	4,250	4,130	4,200
15	4,660	4,590	4,630	4,730	4,630	4,650	2,960	2,840	2,900	4,310	4,210	4,280
16	4,700	4,620	4,660	4,730	4,550	4,590	3,150	2,960	3,070	4,380	4,160	4,230
17	4,700	4,620	4,660	4,780	4,600	4,710	3,360	3,150	3,250	4,410	4,320	4,370
18	4,680	4,610	4,640	4,760	4,700	4,720	3,450	3,350	3,400	4,420	4,100	4,340
19	4,650	4,600	4,620	4,780	4,690	4,730	3,530	3,430	3,470	4,460	4,310	4,400
20	4,620	4,580	4,600	4,770	4,690	4,720	3,690	3,510	3,590	4,310	4,100	4,250
21	4,620	4,580	4,600	4,780	4,690	4,730	3,790	3,680	3,740	4,420	4,020	4,280
22	4,620	4,570	4,590	4,800	4,650	4,750	3,710	3,560	3,640	4,160	4,020	4,080
23	4,610	4,570	4,590	4,810	4,670	4,740	3,720	3,420	3,630	4,090	3,980	4,020
24	4,600	4,550	4,570	4,830	4,700	4,750	3,420	2,790	2,960	4,200	4,090	4,150
25	4,610	4,540	4,570	4,800	4,730	4,770	3,450	3,020	3,130	4,300	4,170	4,230
26	4,620	4,550	4,580	4,780	4,680	4,730	3,800	3,450	3,660	4,430	4,220	4,340
27	4,610	4,550	4,570	4,720	4,630	4,680	3,900	3,800	3,860	4,490	4,380	4,440
28	4,580	4,550	4,560	4,910	4,430	4,680	3,980	3,880	3,930	4,590	4,490	4,540
29	4,580	4,540	4,560	4,430	2,620	3,060	3,980	3,940	3,960	4,610	4,530	4,570
30	---	---	---	2,640	2,500	2,540	3,970	3,660	3,870	4,590	4,520	4,550
31	---	---	---	2,520	2,450	2,490	---	---	---	4,540	4,470	4,510
MONTH	4,890	4,510	4,620	4,910	2,450	4,450	3,980	2,330	3,010	4,610	3,210	4,140

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	4,540	4,450	4,500	3,510	3,020	3,310	---	---	---	4,330	4,250	4,300
2	4,510	4,450	4,480	3,090	2,930	2,990	---	---	---	4,440	4,210	4,280
3	4,490	4,430	4,450	3,300	3,090	3,210	---	---	---	4,500	4,410	4,450
4	4,480	4,040	4,370	3,500	3,240	3,370	---	---	---	---	---	---
5	4,360	4,140	4,250	3,670	3,500	3,580	4,040	---	---	---	---	---
6	4,300	4,180	4,230	3,800	3,350	3,580	4,040	3,750	3,920	---	---	---
7	4,360	4,190	4,260	3,850	3,470	3,770	3,970	3,620	3,780	---	---	---
8	4,310	4,200	4,280	3,550	3,290	3,370	3,780	3,380	3,480	---	---	---
9	4,390	4,040	4,210	4,030	3,550	3,840	3,550	2,020	2,740	---	---	---
10	4,270	3,660	4,000	4,140	4,030	4,090	2,680	2,180	2,470	---	---	---
11	3,810	3,360	3,620	4,140	4,100	4,120	3,170	1,710	2,530	---	---	---
12	3,770	3,260	3,570	4,300	4,090	4,180	3,680	3,170	3,430	---	---	---
13	3,980	3,740	3,870	4,500	4,290	4,380	3,790	3,210	3,630	---	---	---
14	4,140	3,900	3,980	4,470	4,420	4,440	3,500	3,210	3,330	---	---	---
15	4,260	706	3,980	4,550	4,400	4,470	4,020	3,500	3,760	---	---	---
16	2,570	706	1,910	---	---	---	4,170	4,020	4,120	---	---	---
17	3,130	1,870	2,630	---	---	---	4,220	4,070	4,170	---	4,170	---
18	3,430	3,030	3,190	---	---	---	4,270	4,140	4,220	4,350	4,160	4,260
19	3,460	867	2,000	---	---	---	4,240	4,140	4,180	4,270	4,050	4,170
20	1,730	884	1,310	---	---	---	4,280	4,200	4,240	4,380	3,750	4,140
21	1,710	1,050	1,330	---	---	---	4,260	1,610	2,330	4,340	3,870	4,030
22	2,130	1,410	1,870	---	---	---	2,730	2,140	2,480	4,070	3,520	3,790
23	2,270	1,680	1,990	---	---	---	3,280	2,730	3,000	4,210	3,800	3,940
24	2,790	2,270	2,500	---	---	---	3,800	3,280	3,540	4,100	3,850	4,020
25	3,090	2,790	2,980	---	---	---	4,220	3,800	4,070	4,010	727	2,400
26	3,270	3,080	3,170	---	---	---	4,280	4,210	4,240	2,940	1,820	2,510
27	3,200	1,820	2,320	---	---	---	4,260	4,200	4,230	3,610	2,940	3,350
28	3,540	2,830	3,330	---	---	---	4,200	4,070	4,140	4,100	2,950	3,820
29	3,700	3,530	3,620	---	---	---	4,170	4,030	4,100	4,200	4,000	4,100
30	3,710	3,510	3,650	---	---	---	4,230	4,080	4,170	4,400	4,200	4,310
31	---	---	---	---	---	---	4,320	4,220	4,270	---	---	---
MONTH	4,540	706	3,330	4,550	2,930	3,780	4,320	1,610	3,640	4,500	727	3,870

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.9	10.3	13.2	14.4	6.4	10	8.1	3.8	5.8	7.4	1.2	4.2
2	17.1	11.8	13.7	12.1	8.6	10.4	9.0	4.4	6.2	8.8	3.6	5.9
3	21.3	12.0	15.9	10.8	8.2	9.2	9.5	3.9	6.5	6.0	2.7	4.0
4	18.2	13.1	14.9	16.2	8.1	10.7	8.0	2.2	5.0	4.7	1.1	2.5
5	22.9	12.2	16.2	8.7	6.3	7.5	6.7	1.0	3.6	1.5	0.0	0.4
6	25.4	14.5	18.2	9.4	5.6	6.9	6.5	0.2	3.2	1.9	0.0	0.7
7	22.9	14.2	17.8	13.2	5.0	7.8	9.1	2.6	5.7	5.6	0.8	2.7
8	23.4	14.9	18.1	9.9	6.2	7.4	9.6	4.2	6.5	6.9	0.5	3.4
9	25.6	13.0	18.1	14.0	6.4	9.4	6.1	2.3	4.2	7.0	0.1	3.1
10	25.1	14.6	18.7	17.4	6.9	11.1	5.6	0.1	2.4	7.2	0.3	3.3
11	20.6	12.3	16.1	16.0	8.6	11.1	2.8	0.9	1.7	7.7	1.2	4.2
12	20.8	9.3	13.9	12.3	6.0	8.5	3.0	0.7	1.6	5.1	1.5	3.3
13	18.7	10.0	13.5	9.0	6.4	7.7	4.5	0.0	1.7	7.1	0.5	3.5
14	19.3	7.7	12.3	14.4	6.0	9.2	7.4	0.2	3.4	7.6	0.9	4.4
15	19.4	7.6	12.5	13.4	5.7	8.9	4.0	1.1	2.4	7.8	1.6	4.8
16	18.1	8.6	12.5	13.2	5.2	8.8	4.5	0.0	1.7	9.2	3.6	6.4
17	18.8	8.4	12.9	13.0	7.8	9.8	5.8	0.0	2.5	7.4	4.5	5.9
18	21.5	9.6	14.7	10.8	4.8	7.4	5.9	0.5	3.1	5.5	4.1	4.8
19	21.2	10.3	15.2	11.9	3.8	7.5	6.2	0.2	3.1	4.9	3.9	4.3
20	20.9	10.5	15.2	11.4	5.5	8.3	6.5	0.9	3.6	8.0	2.7	5.1
21	19.7	9.7	14.1	10.2	5.1	7.1	8.5	3.0	5.5	9.1	2.9	5.7
22	20.2	10.5	14.9	6.0	2.6	4.7	6.3	3.4	4.8	8.0	1.4	4.6
23	19.4	10.6	14.8	3.6	-0.1	1.1	6.1	0.8	3.3	8.8	0.9	4.6
24	16.5	10.3	13.1	4.6	-0.1	1.5	5.9	0.5	3.1	7.1	1.7	4.7
25	13.8	8.6	10.7	5.2	1.0	3.1	6.5	1.2	3.8	8.6	4.8	6.5
26	13.1	5.0	9.3	5.1	0.6	3.1	7.5	2.0	4.6	5.5	0.9	3.0
27	15.3	7.8	11.5	7.9	3.0	5.0	6.2	2.0	4.1	4.8	-0.1	1.7
28	15.9	9.9	12.2	6.1	0.1	2.9	4.1	0.1	2.0	4.6	-0.1	1.7
29	19.6	8.4	13.0	8.5	0.8	4.4	3.6	0.1	1.5	6.2	-0.1	2.4
30	11.9	7.2	9.6	10.3	3.5	6.4	6.5	0.0	2.9	8.3	-0.1	3.5
31	12.0	7.4	8.9	---	---	---	5.1	1.8	3.5	4.2	1.4	2.6
MONTH	25.6	5.0	14.1	17.4	-0.1	7.2	9.6	0.0	3.6	9.2	-0.1	3.8

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	5.6	1.7	3.2	11.8	2.9	6.6	17.1	11.5	14.3	16.3	8.3	11.9
2	6.5	-0.1	2.8	9.8	4.3	6.8	16.5	11.9	14.3	20.9	10.9	15.5
3	5.6	0.4	3.0	10.8	5.6	7.7	16.3	12.2	14.2	22.7	12.5	17.6
4	3.5	2.1	2.6	8.6	6.8	7.7	15.0	10.9	13.1	24.4	14.6	19.3
5	5.4	1.6	3.2	10.5	6.0	7.8	15.8	10.6	13.3	26.5	15.6	20.6
6	6.6	0.2	3.3	14.9	3.8	8.7	14.8	12.3	13.2	26.5	16.0	21.6
7	8.2	-0.1	3.6	14.9	4.6	9.4	16.7	11.3	13.9	27.5	16.2	21.4
8	9.1	0.5	4.2	16.8	5.8	11.1	16.5	13.5	15.1	26.5	16.0	20.8
9	8.8	0.5	4.4	17.6	7.6	12.1	14.9	10.8	12.5	26.8	16.4	21.1
10	9.4	0.7	4.7	14.0	7.8	10.5	10.8	9.2	9.8	26.6	17.3	21.2
11	4.5	0.9	2.8	17.1	7.3	11.4	12.3	8.3	10.1	24.7	16.4	20.0
12	5.9	-0.1	2.0	17.5	6.8	11.6	12.8	8.3	10.7	24.1	14.1	18.8
13	6.5	-0.1	2.2	18.4	8.9	12.7	15.6	8.1	11.7	17.3	11.4	13.3
14	8.4	-0.1	3.4	15.1	7.0	10.5	18.9	10.9	14.7	20.1	9.5	14.4
15	7.4	1.8	4.1	16.6	7.7	11.5	20.2	12.1	16.1	21.2	11.1	15.8
16	9.7	0.6	4.6	15.5	6.2	10.5	21.4	12.1	16.7	21.8	13.8	17.7
17	10.7	1.2	5.8	19.0	6.2	12.1	19.7	12.8	16.5	24.4	14.1	19.0
18	10.2	4.6	7.2	19.2	7.6	13.0	20.2	13.9	16.5	23.7	15.8	18.8
19	8.9	5.6	7.4	22.0	9.4	14.8	19.5	11.0	15.2	27.2	17.0	21.2
20	12.4	4.4	8.0	18.4	8.7	13.2	20.4	12.1	16.2	25.2	16.2	20.0
21	10.7	4.1	7.3	16.9	6.6	11.1	17.9	12.2	14.2	27.4	15.8	20.9
22	13.2	5.0	8.7	19.7	6.0	12.2	16.0	11.0	13.1	27.2	14.9	20.7
23	8.9	5.3	7.1	22.5	10.6	15.8	12.8	7.8	9.6	25.4	14.4	19.6
24	8.6	4.1	5.9	22.2	10.8	15.7	13.8	6.8	9.7	23.0	14.1	18.4
25	10.4	2.6	5.6	20.4	12.3	15.7	18.2	9.9	13.7	24.9	14.6	18.9
26	12.7	2.1	6.9	21.8	11.5	16.2	21.0	11.1	15.7	27.1	13.3	19.5
27	14.2	5.6	9.5	20.3	12.3	15.7	22.8	12.4	17.4	27.9	13.8	20.3
28	15.0	7.4	10.6	19.5	9.2	13.3	22.3	13.6	17.9	27.7	14.6	20.1
29	10.0	4.5	8.1	15.4	8.6	11.8	17.2	11.2	13.2	28.9	14.5	20.2
30	---	---	---	15.9	9.1	12.6	11.2	9.0	10.1	22.0	12.5	17.0
31	---	---	---	16.2	10.8	13.6	---	---	---	26.4	10.4	17.9
MONTH	15.0	-0.1	5.2	22.5	2.9	11.7	22.8	6.8	13.8	28.9	8.3	18.8

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	28.7	12.4	19.8	23.5	18.7	21.1	29.1	20.8	24.8	26.8	18.4	22.1
2	27.7	14.9	20.3	28.9	19.0	23.3	29.6	21.0	24.9	26.6	16.5	21.0
3	28.0	14.0	20.1	28.9	20.6	24.3	30.3	21.0	25.3	26.9	15.6	20.6
4	31.2	15.7	21.9	27.5	20.0	23.3	29.8	21.2	24.8	27.3	17.6	21.6
5	30.5	15.8	22.1	28.1	18.3	22.8	27.7	21.3	24.1	25.8	17.6	21.2
6	31.6	16.5	23.2	28.4	19.4	23.5	23.9	19.9	21.4	26.7	15.5	20.4
7	31.9	17.8	23.6	30.8	20.3	25.2	29.4	19.5	23.3	25.2	15.5	19.8
8	31.5	17.8	23.2	30.4	21.9	25.7	29.2	19.1	24.0	24.3	14.6	18.8
9	29.0	17.8	21.6	27.8	20.1	24.2	28.6	21.6	24.7	24.6	14.0	18.8
10	30.4	16.6	22.2	29.4	21.3	24.9	26.5	20.6	23.4	24.8	14.1	18.9
11	28.4	14.9	21.4	30.3	21.2	25.3	23.6	18.8	21.0	26.9	14.7	20.1
12	29.8	15.4	22.3	31.8	21.0	26.1	26.0	18.4	21.8	26.6	15.0	20.1
13	31.1	15.9	23.0	30.6	21.0	25.6	22.2	18.0	20.5	26.8	16.5	20.4
14	31.5	18.5	24.3	30.5	19.8	24.8	24.6	17.5	20.7	27.4	15.7	20.6
15	31.1	16.1	23.0	31.3	20.3	25.4	24.8	18.4	21.2	24.9	15.1	19.4
16	23.0	15.8	19.5	28.7	19.9	23.8	27.8	19.0	22.9	25.5	13.8	19.0
17	22.0	16.7	18.8	28.3	19.9	23.0	27.6	19.9	23.6	27.3	15.8	21.0
18	18.3	16.2	17.2	30.8	18.0	23.7	26.8	19.6	22.9	26.6	16.8	20.7
19	16.6	12.2	14.7	30.6	19.3	24.6	22.1	18.0	19.3	22.3	16.6	19.5
20	22.4	16.5	18.7	33.1	19.7	25.3	26.1	16.7	20.5	26.0	19.0	21.4
21	19.7	13.8	17.2	32.4	19.6	24.8	24.8	18.5	21.6	21.5	16.0	18.7
22	21.9	15.7	18.6	29.0	19.4	22.9	26.1	19.4	22.3	16.0	12.9	14.3
23	25.8	18.2	21.6	20.4	18.0	18.8	28.2	19.3	23.5	20.8	11.2	15.7
24	26.5	20.6	23.3	18.0	17.2	17.5	26.9	18.3	22.7	21.2	12.5	16.5
25	23.7	18.4	21.0	18.8	16.4	17.5	27.3	18.6	22.8	16.3	7.9	12.4
26	25.2	18.8	21.6	25.3	15.7	20.0	27.5	17.6	22.3	17.6	12.9	15.0
27	23.2	17.7	20.3	27.5	17.4	22.2	24.6	16.4	20.2	23.0	15.1	18.2
28	24.0	18.7	21.1	27.2	19.6	22.6	24.9	16.2	20.2	20.0	15.8	17.6
29	24.9	18.6	21.5	27.4	18.7	22.5	26.8	17.7	21.7	22.2	14.2	17.7
30	22.2	19.8	20.7	28.8	18.6	23.3	25.9	18.3	22.1	22.4	14.1	17.6
31	---	---	---	28.4	19.1	23.7	25.0	18.7	21.8	---	---	---
MONTH	31.9	12.2	20.9	33.1	15.7	23.3	30.3	16.2	22.5	27.4	7.9	19.0

07138000 ARKANSAS RIVER AT SYRACUSE, KS

LOCATION.--Lat 37°57'58", long 101°45'23", in NW ¼ SE ¼ NW ¼ sec.18, T.24 S., R.40 W., Hamilton County, Hydrologic Unit 11030001, on left bank at downstream side of bridge on U.S. Highway 27, 0.5 mi south of Syracuse, and at mile 1,080.9.

DRAINAGE AREA.--25,763 mi^2, of which 1,857 mi^2 is probably noncontributing.

PERIOD OF RECORD.--August 1902 to September 1906 (published as "near Syracuse"), October 1920 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 3,209.32 ft above NGVD of 1929. See WSP 1921 for history of changes prior to Nov. 15, 1956.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1908 reached a stage of about 11.7 ft from information by local newspaper, discharge, about 87,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.4	18	29	33	34	211	123	21	199	94	47
2	1.3	1.4	16	29	32	33	250	139	20	213	91	43
3	1.3	1.4	15	29	33	34	288	132	18	202	79	39
4	1.3	1.4	15	29	34	35	325	118	17	188	71	35
5	1.3	1.4	15	20	35	37	352	111	16	173	65	33
6	1.3	1.4	e17	14	34	36	437	106	17	167	59	32
7	1.3	1.5	18	16	34	36	512	98	16	150	62	31
8	1.3	1.7	18	22	34	36	520	89	14	145	64	29
9	1.3	2.6	19	27	34	36	515	86	12	134	75	26
10	1.3	3.1	e18	31	34	35	477	84	13	120	107	23
11	1.3	3.2	e17	35	34	34	471	82	12	108	137	21
12	1.3	2.5	e16	35	32	34	463	74	13	96	142	19
13	1.3	2.0	e16	35	30	33	410	71	14	92	124	18
14	1.3	1.8	e16	35	32	33	263	68	12	73	128	16
15	1.3	1.9	e17	35	33	33	196	66	12	62	127	16
16	1.3	2.3	18	35	34	31	158	65	32	55	117	15
17	1.3	2.6	19	35	33	32	128	60	97	51	105	15
18	1.3	2.9	23	34	34	29	110	56	80	43	96	15
19	1.3	3.2	23	34	35	27	100	51	95	38	86	14
20	1.3	3.8	26	34	34	26	94	45	384	33	84	16
21	1.3	4.8	26	33	34	25	86	44	534	31	97	19
22	1.3	5.3	26	33	34	25	86	41	547	30	121	33
23	1.4	3.5	25	33	33	25	88	43	422	33	111	39
24	1.4	2.5	26	34	33	24	115	41	327	252	88	47
25	1.4	4.0	27	33	34	22	137	38	271	152	77	58
26	1.3	6.2	27	33	34	22	127	36	232	126	69	137
27	1.2	13	27	31	34	23	125	32	313	106	65	91
28	1.3	e15	27	31	34	22	120	29	287	84	60	86
29	1.3	16	22	32	34	25	114	26	219	80	61	76
30	1.4	18	27	33	---	84	111	24	197	75	56	71
31	1.3	---	28	34	---	152	---	22	---	67	51	---
MEAN	1.31	4.39	20.9	30.7	33.5	35.9	246	67.7	142	109	89.3	38.7
MAX	1.4	18	28	35	35	152	520	139	547	252	142	137
MIN	1.2	1.4	15	14	30	22	86	22	12	30	51	14
AC-FT	81	261	1,290	1,890	1,930	2,210	14,660	4,170	8,460	6,700	5,490	2,300

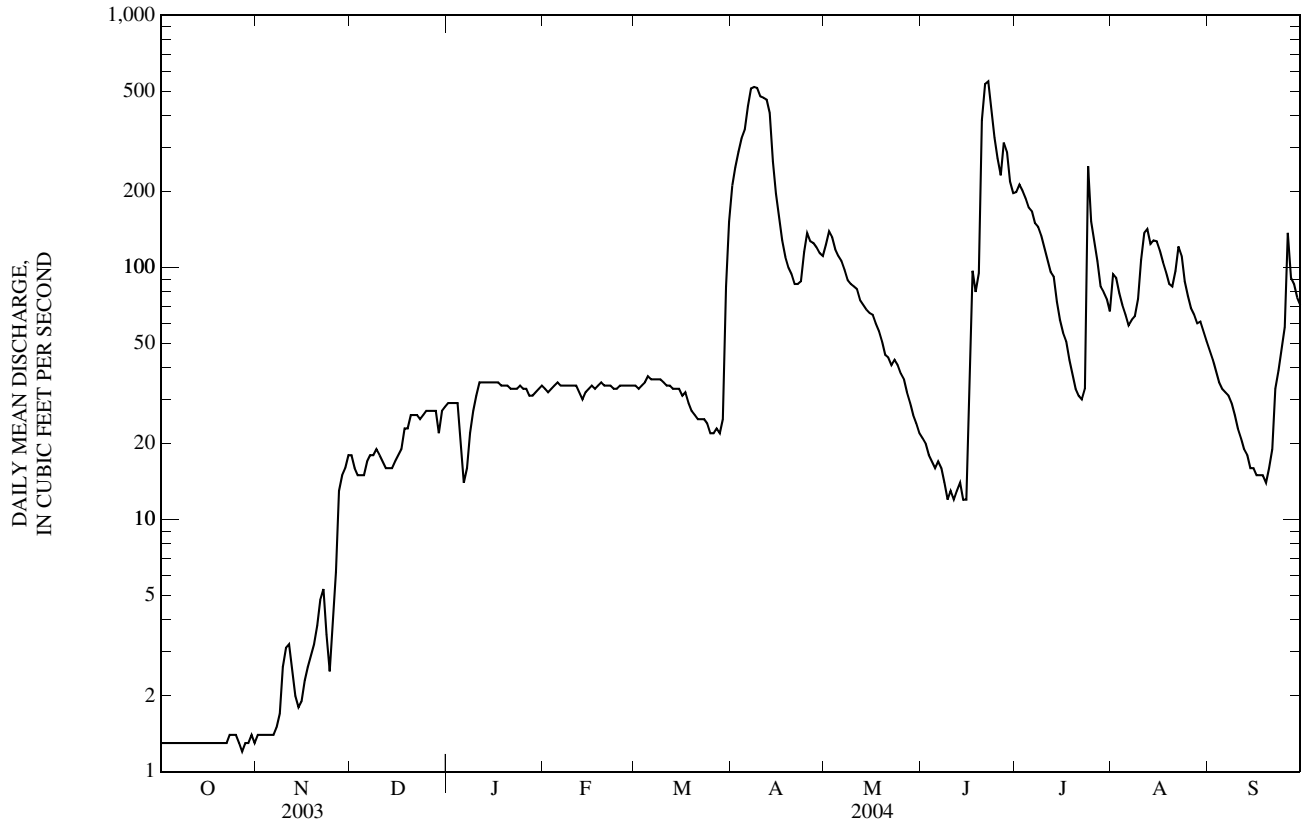
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2004, BY WATER YEAR (WY)

MEAN	190	148	148	160	164	143	291	445	779	445	477	236
MAX	2,401	1,200	669	1,100	976	641	5,962	5,070	9,499	3,030	4,365	1,720
(WY)	(1924)	(1942)	(1924)	(1924)	(1924)	(1998)	(1942)	(1942)	(1921)	(1921)	(1923)	(1923)
MIN	0.31	0.75	0.69	1.19	0.98	1.70	3.24	5.42	7.04	2.10	0.50	0.19
(WY)	(1975)	(1975)	(1975)	(1979)	(1978)	(1978)	(1979)	(1937)	(1954)	(1940)	(1974)	(1974)

07138000 ARKANSAS RIVER AT SYRACUSE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1903 - 2004	
ANNUAL MEAN	28.7		68.1		292	
HIGHEST ANNUAL MEAN					1,950	1942
LOWEST ANNUAL MEAN					14.0	1979
HIGHEST DAILY MEAN	148	Jun 12	547	Jun 22	109,000	Jun 18, 1965
LOWEST DAILY MEAN	1.2	Aug 26	1.2	Oct 27	0.03	Sep 27, 1974
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 22	1.3	Oct 1	0.06	Sep 21, 1974
MAXIMUM PEAK FLOW			864	Jun 21	174,000	Jun 17, 1965
MAXIMUM PEAK STAGE			6.24	Jun 21	19.75	Jun 17, 1965
INSTANTANEOUS LOW FLOW			1.1	Oct 27	0.00	Aug 17, 1946
ANNUAL RUNOFF (AC-FT)	20,800		49,430		211,600	
10 PERCENT EXCEEDS	57		151		511	
50 PERCENT EXCEEDS	27		34		126	
90 PERCENT EXCEEDS	1.3		1.4		7.0	

e Estimated



07138020 ARKANSAS RIVER AT KENDALL, KS

LOCATION.--Lat 37°55'48", long 101°32'56", in SW ¼ SE ¼ sec.25, T.24 S., R.39 W., Hamilton County, Hydrologic Unit 11030001, on left upstream side of county road bridge, 0.24 mi south of Kendall, and at mile 1,066.7.

DRAINAGE AREA.--26,028 mi^2, of which 1,886 mi^2 is probably noncontributing.

PERIOD OF RECORD.--April 1979 to September 1982, June 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,120.10 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.60	0.85	7.7	26	e20	34	109	113	23	167	66	47
2	0.59	0.93	9.1	26	e25	34	150	122	22	169	75	44
3	0.60	1.1	9.2	25	30	34	184	126	21	172	71	41
4	0.55	1.0	9.3	24	32	36	216	118	20	159	64	37
5	0.55	0.98	9.9	e24	32	37	244	110	19	151	60	34
6	0.54	1.1	8.8	e23	32	38	282	105	17	146	59	32
7	0.51	1.1	12	e23	32	37	346	99	16	138	56	30
8	0.52	0.92	13	e24	32	36	393	93	15	130	56	28
9	0.45	1.0	14	e25	32	36	403	88	14	124	56	26
10	0.41	1.0	e12	26	33	36	395	85	13	116	67	25
11	0.38	1.0	11	27	33	35	384	83	11	107	84	23
12	0.40	1.1	e10	30	30	36	385	79	11	98	100	22
13	0.35	1.2	e10	29	29	35	366	76	10	90	98	20
14	0.29	1.1	e17	29	31	34	283	72	9.9	83	95	18
15	0.25	1.1	e20	29	33	34	220	71	9.2	73	97	17
16	0.26	0.53	e21	28	34	32	186	69	11	65	93	16
17	0.25	0.50	e22	28	34	32	162	66	31	60	86	16
18	0.26	0.41	e23	28	35	32	144	62	61	54	81	15
19	0.25	0.44	e23	28	36	29	129	58	61	48	77	15
20	0.27	0.44	e23	28	35	27	122	52	132	44	73	17
21	0.25	0.45	e23	28	36	25	113	49	244	41	71	16
22	0.30	0.46	22	27	36	24	107	45	403	41	83	33
23	0.33	0.58	22	27	35	24	106	42	332	43	88	32
24	0.38	0.56	22	27	34	23	111	41	273	82	80	33
25	0.40	0.51	23	28	33	22	126	39	238	124	71	38
26	0.39	0.48	23	27	34	21	127	37	208	107	66	54
27	0.37	0.49	23	24	34	20	124	34	201	99	62	67
28	0.54	0.51	22	23	35	20	122	31	253	87	59	67
29	0.69	0.79	e22	18	35	19	116	28	199	77	57	65
30	0.60	5.5	e23	e17	---	26	110	26	181	73	54	60
31	0.62	---	24	e16	---	63	---	25	---	67	51	---
MEAN	0.42	0.94	17.2	25.5	32.5	31.3	209	69.2	102	97.9	72.8	32.9
MAX	0.69	5.5	24	30	36	63	403	126	403	172	100	67
MIN	0.25	0.41	7.7	16	20	19	106	25	9.2	41	51	15
AC-FT	26	56	1,060	1,570	1,870	1,930	12,430	4,250	6,070	6,020	4,470	1,960

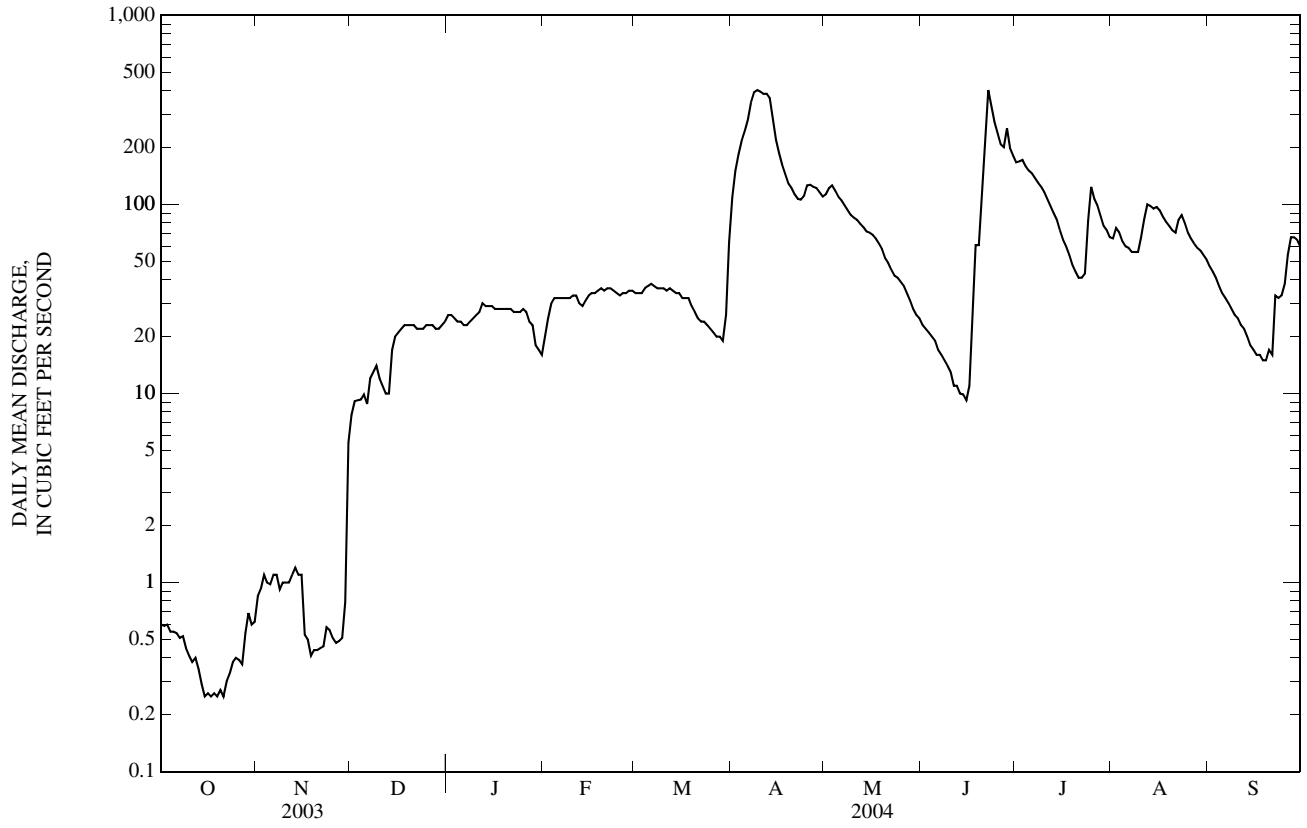
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

MEAN	64.6	61.4	68.3	70.8	73.8	73.0	92.9	90.5	204	286	195	90.5
MAX	276	220	196	186	201	186	209	241	592	637	466	171
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2004)	(2001)	(2000)	(2000)	(2000)	(2000)
MIN	0.00	0.00	0.00	0.00	5.24	19.8	16.9	22.7	17.6	19.1	1.38	0.69
(WY)	(1980)	(1980)	(1980)	(1980)	(1980)	(1980)	(1982)	(1982)	(1981)	(2003)	(2003)	(2003)

07138020 ARKANSAS RIVER AT KENDALL, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL MEAN	29.1		57.5		101	
HIGHEST ANNUAL MEAN					251	2001
LOWEST ANNUAL MEAN					37.6	2003
HIGHEST DAILY MEAN	125	Jun 15	403	Apr 9	984	Jul 19, 2000
LOWEST DAILY MEAN	0.25	Oct 15	0.25	Oct 15	0.00	Oct 1, 1979
ANNUAL SEVEN-DAY MINIMUM	0.26	Oct 15	0.26	Oct 15	0.00	Oct 1, 1979
MAXIMUM PEAK FLOW			506	Jun 22	1,220	Jul 13, 1982
MAXIMUM PEAK STAGE			8.13	Jun 22	9.75	Jul 13, 1982
INSTANTANEOUS LOW FLOW			0.19	Oct 14	0.00	many years
ANNUAL RUNOFF (AC-FT)	21,080		41,710		73,460	
10 PERCENT EXCEEDS	58		129		239	
50 PERCENT EXCEEDS	28		32		54	
90 PERCENT EXCEEDS	0.54		0.56		1.1	

e Estimated



07138050 AMAZON GREAT EASTERN DITCH NEAR LAKIN, KS

LOCATION.--Lat 37°53'50", long 101°26'27", in SW ¼ NW ¼ NE ¼ sec.12, T.25 S., R.38 W., Kearny County, Hydrologic Unit 11030001, about 0.45 mi downstream of the diversion structure on the Arkansas River and about 9.5 mi west and 2.3 mi south of Lakin.

PERIOD OF RECORD.--April to September 2004. Stage only May 1999 to September 2003.

GAGE.--Water-stage recorder. Datum of gage is 3,075.55 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. This ditch diverts water from the Arkansas River for irrigation use. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 327 ft^3/s June 22, 2004, no flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

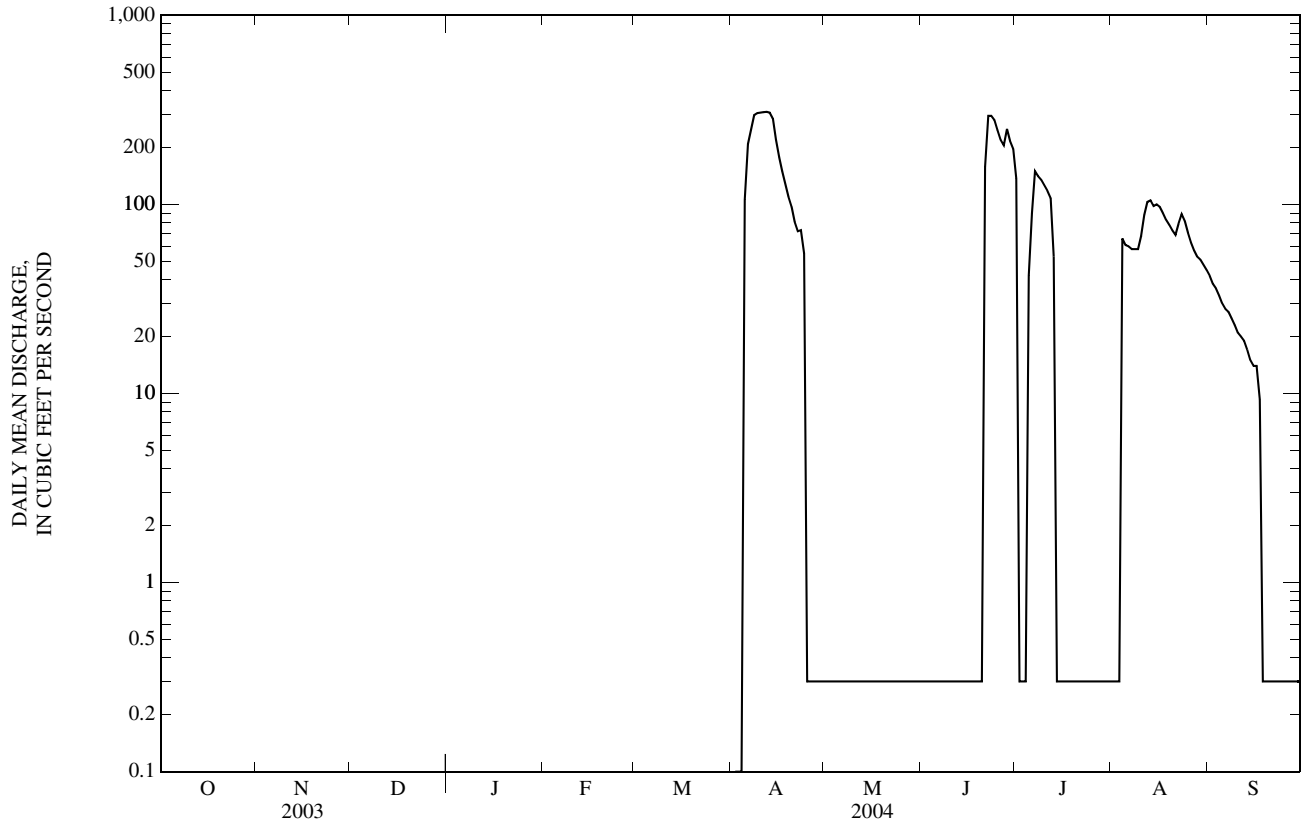
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e0.00	e0.30	e0.30	137	e0.30	42
2	---	---	---	---	---	---	0.00	e0.30	e0.30	e0.30	e0.30	38
3	---	---	---	---	---	---	0.00	e0.30	e0.30	e0.30	e0.30	36
4	---	---	---	---	---	---	0.00	e0.30	e0.30	e0.30	66	33
5	---	---	---	---	---	---	106	e0.30	e0.30	42	61	30
6	---	---	---	---	---	---	209	e0.30	e0.30	90	60	28
7	---	---	---	---	---	---	249	e0.30	e0.30	150	58	27
8	---	---	---	---	---	---	297	e0.30	e0.30	141	58	25
9	---	---	---	---	---	---	304	e0.30	e0.30	135	58	23
10	---	---	---	---	---	---	306	e0.30	e0.30	126	68	21
11	---	---	---	---	---	---	308	e0.30	e0.30	118	88	20
12	---	---	---	---	---	---	309	e0.30	e0.30	108	103	19
13	---	---	---	---	---	---	306	e0.30	e0.30	53	105	17
14	---	---	---	---	---	---	284	e0.30	e0.30	e0.30	98	15
15	---	---	---	---	---	---	220	e0.30	e0.30	e0.30	100	14
16	---	---	---	---	---	---	178	e0.30	e0.30	e0.30	97	14
17	---	---	---	---	---	---	150	e0.30	e0.30	e0.30	90	9.3
18	---	---	---	---	---	---	128	e0.30	e0.30	e0.30	83	e0.30
19	---	---	---	---	---	---	110	e0.30	e0.30	e0.30	78	e0.30
20	---	---	---	---	---	---	97	e0.30	e0.30	e0.30	73	e0.30
21	---	---	---	---	---	---	81	e0.30	158	e0.30	69	e0.30
22	---	---	---	---	---	---	72	e0.30	294	e0.30	79	e0.30
23	---	---	---	---	---	---	73	e0.30	294	e0.30	89	e0.30
24	---	---	---	---	---	---	55	e0.30	279	e0.30	82	e0.30
25	---	---	---	---	---	---	e0.30	e0.30	247	e0.30	71	e0.30
26	---	---	---	---	---	---	e0.30	e0.30	219	e0.30	63	e0.30
27	---	---	---	---	---	---	e0.30	e0.30	205	e0.30	57	e0.30
28	---	---	---	---	---	---	e0.30	e0.30	251	e0.30	53	e0.30
29	---	---	---	---	---	---	e0.30	e0.30	217	e0.30	51	e0.30
30	---	---	---	---	---	---	e0.30	e0.30	197	e0.30	48	e0.30
31	---	---	---	---	---	---	---	e0.30	---	e0.30	45	---
MEAN	---	---	---	---	---	---	128	0.30	78.9	35.7	66.2	13.8
MAX	---	---	---	---	---	---	309	0.30	294	150	105	42
MIN	---	---	---	---	---	---	0.00	0.30	0.30	0.30	0.30	0.30
AC-FT	---	---	---	---	---	---	7,620	18	4,690	2,190	4,070	824

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	128	0.30	78.9	35.7	66.2	13.8
MAX	---	---	---	---	---	---	128	0.30	78.9	35.7	66.2	13.8
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	128	0.30	78.9	35.7	66.2	13.8
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

e Estimated

07138050 AMAZON GREAT EASTERN DITCH NEAR LAKIN, KS—Continued



07138070 ARKANSAS RIVER AT DEERFIELD, KS

LOCATION.--Lat 37°58'11", long 101°07'42", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.24 S., R.35 W., Kearny County, Hydrologic Unit 11030001, on right downstream end of bridge on paved county road about 0.75 mi southwest of Deerfield and at mile 1,039.8.

DRAINAGE AREA.--26,964 mi^2.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,920.00 ft above NGVD of 1929.

REMARKS.--Records fair. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6	0.00	9.2	27	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	0.00	2.2	22	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.1	0.00	44	25	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	70	23	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	14	17	0.00	82	6.7	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	12	17	0.00	85	0.73	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	1.6	16	0.00	48	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	1.7	16	0.00	17	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	5.4	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.41	14	0.00	0.39	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.98	15	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	1.2	14	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	3.6	13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	3.3	13	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.64	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	0.65	5.4	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.8	0.06	9.4	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.7	4.7	9.5	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8	124	8.1	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.7	58	5.6	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.9	76	3.7	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	41	2.5	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	24	15	e0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	15	12	e0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	6.5	14	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	45	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	16	38	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	33	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	1.47	7.59	12.2	22.8	3.37	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	14	17	124	85	27	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	87	467	726	1,400	207	0.00

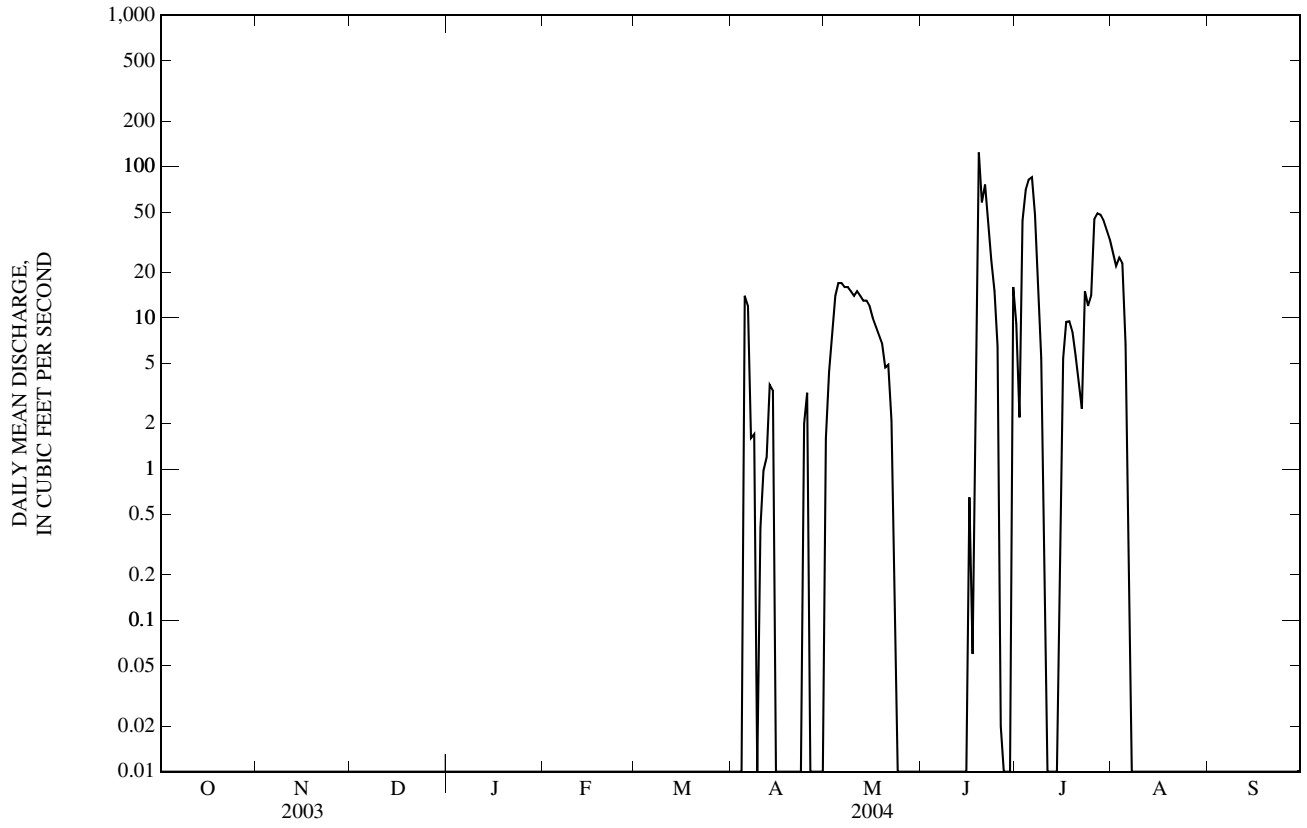
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	115	147	130	112	130	134	111	420	431	157	195	78.7
MAX	309	317	277	206	312	386	263	2,083	2,147	535	884	325
(WY)	(2000)	(1999)	(2000)	(2000)	(2000)	(2000)	(1999)	(1999)	(1999)	(1999)	(1999)	(1999)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.55	3.64	0.97	0.00	0.00	0.00
(WY)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2002)	(2003)	(2002)	(2002)

07138070 ARKANSAS RIVER AT DEERFIELD, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL MEAN	1.82		3.98		180	
HIGHEST ANNUAL MEAN					637	1999
LOWEST ANNUAL MEAN					3.59	2003
HIGHEST DAILY MEAN	31	Mar 7	124	Jun 19	2,630	Jun 13, 1999
LOWEST DAILY MEAN	0.00	Jan 16	0.00	Oct 1	0.00	May 28, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 31	0.00	Oct 1	0.00	May 28, 2002
MAXIMUM PEAK FLOW			303	Jun 19	2,740	May 24, 1999
MAXIMUM PEAK STAGE			7.88	Jun 19	12.32	May 24, 1999
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many years
ANNUAL RUNOFF (AC-FT)	1,320		2,890		130,600	
10 PERCENT EXCEEDS	5.7		13		323	
50 PERCENT EXCEEDS	0.00		0.00		82	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



07139000 ARKANSAS RIVER AT GARDEN CITY, KS

LOCATION.--Lat 37°57'21", long 100°52'37", in NW ¼ SE ¼ NW ¼ sec.19, T.24 S., R.32 W., Finney County, Hydrologic Unit 11030001, on left bank at downstream side of bridge on U.S. Highway 82, 0.5 mi south of Garden City, and at mile 1,024.2.

DRAINAGE AREA.--27,071 mi^2, of which 2,368 mi^2 is probably noncontributing.

PERIOD OF RECORD.--June 1922 to June 1970, October 1986 to current year. July 1970 to September 1986, flood hydrograph record.

GAGE.--Water-stage recorder. Datum of gage is 2,815.43 ft above NGVD of 1929. Prior to May 9, 1957, water-stage recorder at site 60 ft downstream at datum 9.0 ft higher. May 9, 1957, to July 9, 1964, water-stage recorder at present site at datum 9.0 ft higher. July 9, 1964, to Apr. 8, 1976, water-stage recorder at present site at datum 6.0 ft higher. Apr. 8, 1976, to Sept. 30, 1986, water-stage recorder at present site at datum 3.0 ft higher.

REMARKS.--Records poor. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 6	0530	*0.14	*5.40	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	e0.00	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2004, BY WATER YEAR (WY)

MEAN	123	115	120	134	129	110	171	266	462	189	251	106
MAX	2,751	1,023	673	843	850	903	5,556	4,693	6,859	1,696	3,949	1,611
(WY)	(1924)	(1942)	(1924)	(1998)	(1924)	(1924)	(1942)	(1942)	(1965)	(1947)	(1923)	(1923)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1938)	(1991)	(1991)	(1992)	(1992)	(1935)	(1935)	(1937)	(1934)	(1926)	(1924)	(1926)

07139000 ARKANSAS RIVER AT GARDEN CITY, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1923 - 2004	
ANNUAL MEAN	0.00		0.00		182	
HIGHEST ANNUAL MEAN					1,690	1942
LOWEST ANNUAL MEAN					0.00	1992
HIGHEST DAILY MEAN	0.10	Jun 5	0.00	Oct 1	104,000	Jun 19, 1965
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1922
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1922
MAXIMUM PEAK FLOW			0.14	Aug 6	130,000	Jun 19, 1965
MAXIMUM PEAK STAGE					16.30	Jun 19, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	0.2		0.00		132,000	
10 PERCENT EXCEEDS	0.00		0.00		330	
50 PERCENT EXCEEDS	0.00		0.00		19	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

07139500 ARKANSAS RIVER AT DODGE CITY, KS

LOCATION.--Lat 37°44'41", long 100°01'57", in SW $^1/_4$ SW $^1/_4$ NW $^1/_4$ sec.35, T.26 S., R.25 W., Ford County, Hydrologic Unit 11030003, on left bank at downstream side of bridge on Fourteenth Avenue in Dodge City, and at mile 970.9.

DRAINAGE AREA.--30,600 mi^2, of which 5,583 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1902 to September 1906 (published as "near Dodge"), September 1944 to current year. Monthly discharge only for some periods, published in WSP 1311. Gage-height records collected at same site at different datum 1909-32 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1341: 1903(M), 1904, 1905(M), 1947(M).

GAGE.--Water-stage recorder. Datum of gage is 2,468.71 ft above NGVD of 1929. Nov. 28, 1902, to Aug. 10, 1906, nonrecording gage at site 0.7 mi downstream at datum about 4.00 ft higher. Sept. 1 to Nov. 5, 1944, nonrecording gage and Nov. 6, 1944, to Sept. 30, 1975, recording gage at site 0.7 mi downstream and datum 1.00 ft lower. Oct. 1, 1975, to March 16, 1981, recording gage at site 0.7 mi downstream at datum 4.00 ft lower.

REMARKS.--Records fair. Flow moderately regulated since Oct. 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
No peak greater than base discharge							

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2004, BY WATER YEAR (WY)

MEAN	90.0	76.6	80.1	90.4	109	111	142	235	383	134	97.0	68.4
MAX	1,986	455	351	651	590	502	3,130	5,771	5,370	1,848	851	1,146
(WY)	(1905)	(1947)	(1966)	(1998)	(1998)	(1966)	(1905)	(1905)	(1965)	(1947)	(1965)	(1965)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1904)	(1977)	(1977)	(1977)	(1977)	(1977)	(1981)	(1981)	(1981)	(1983)	(1976)	(1903)

07139500 ARKANSAS RIVER AT DODGE CITY, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1903 - 2004	
ANNUAL MEAN	1.31		0.00		134	
HIGHEST ANNUAL MEAN					1,354	1905
LOWEST ANNUAL MEAN					0.00	1990
HIGHEST DAILY MEAN	227	Aug 29	0.00	Oct 1	70,300	Jun 20, 1965
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Apr 8, 1903
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Apr 10, 1903
MAXIMUM PEAK FLOW			0.00	Oct 1	82,000	Jun 19, 1965
MAXIMUM PEAK STAGE			6.01	Oct 1	14.68	Jun 19, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many years
ANNUAL RUNOFF (AC-FT)	950		0.00		97,400	
10 PERCENT EXCEEDS	0.00		0.00		260	
50 PERCENT EXCEEDS	0.00		0.00		32	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

07140000 ARKANSAS RIVER NEAR KINSLEY, KS

LOCATION.--Lat 37°55'40", long 99°22'29", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.26, T.24 S., R.19 W., Edwards County, Hydrologic Unit 11030004, on right bank at downstream side of bridge on U.S. Highway 50, 2.0 mi east of Kinsley, and at mile 920.3.

DRAINAGE AREA.--31,066 mi^2, of which 5,660 mi^2 is probably noncontributing.

PERIOD OF RECORD.--September 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,141.64 ft above NGVD of 1929. Prior to Nov. 10, 1944, nonrecording gage, and Nov. 10, 1944, to Dec. 31, 1975, water-stage recorder, both at present site and datum 3.00 ft higher.

REMARKS.--Records poor. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 23	2215	*8.7	*5.01	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.02	e0.04	e0.00	e0.01	e0.00	e0.02	e0.01	e0.30	e0.00	e0.02	e0.23	e0.08
2	e0.02	e0.04	e0.00	e0.01	e0.00	e0.02	e0.01	e0.28	e0.00	e0.01	e0.18	e0.08
3	e0.02	e0.03	e0.00	e0.01	e0.00	e0.02	e0.01	e0.27	e0.00	e0.01	e0.14	e0.05
4	e0.02	e0.03	e0.00	e0.01	e0.00	e0.05	e0.01	e0.20	e0.01	e0.01	e0.09	e0.05
5	e0.02	e0.00	e0.00	e0.00	e0.00	e0.13	e0.01	e0.19	e0.01	e0.01	e0.02	e0.08
6	e0.02	e0.01	e0.00	e0.01	e0.00	e0.30	e0.01	e0.16	e0.01	e0.03	e0.02	e0.05
7	e0.02	e0.03	e0.00	e0.01	e0.00	e0.20	e0.01	e0.14	e0.00	e0.02	e0.02	e0.05
8	e0.02	e0.03	e0.00	e0.01	e0.00	e0.20	e0.02	e0.11	e0.00	e0.02	e0.02	e0.05
9	e0.03	e0.01	e0.00	e0.01	e0.00	e0.20	e0.02	e0.10	e0.00	e0.01	e0.02	e0.05
10	e0.03	e0.05	e0.00	e0.01	e0.00	e0.20	e0.07	e0.08	e0.00	e0.01	e0.02	e0.05
11	e0.03	e0.05	e0.00	e0.01	e0.00	e0.20	e0.09	e0.06	e0.00	e0.00	e0.03	e0.05
12	e0.03	e0.04	e0.00	e0.01	e0.00	e0.15	e0.13	e0.05	e0.00	e0.00	e0.02	e0.04
13	e0.03	e0.04	e0.00	e0.01	e0.00	e0.10	e0.13	e0.03	e0.00	e0.00	e0.02	e0.03
14	e0.03	e0.04	e0.01	e0.01	e0.00	e0.09	e0.13	e0.02	e0.00	e0.00	e0.04	e0.02
15	e0.03	e0.03	e0.01	e0.01	e0.00	e0.09	e0.13	e0.02	e0.00	e0.00	e0.03	e0.02
16	e0.03	e0.03	e0.01	e0.01	e0.00	e0.09	e0.13	e0.01	e0.00	e0.00	e0.02	e0.02
17	e0.04	e0.03	e0.01	e0.01	e0.00	e0.09	e0.10	e0.01	e0.01	e0.00	e0.02	e0.01
18	e0.04	e0.03	e0.01	e0.01	e0.00	e0.09	e0.10	e0.01	e0.01	e0.01	e0.02	e0.00
19	e0.04	e0.03	e0.01	e0.01	e0.00	e0.09	e0.10	e0.01	e0.02	e0.00	e0.02	e0.00
20	e0.04	e0.03	e0.01	e0.01	e0.00	e0.09	e0.10	e0.01	e0.03	e0.00	e0.03	e0.00
21	e0.06	e0.01	e0.01	e0.01	e0.00	e0.09	e0.10	e0.01	e0.03	e0.00	e0.07	e0.00
22	e0.06	e0.00	e0.01	e0.01	e0.00	e0.05	e0.10	e0.01	e0.02	e0.06	e0.12	e0.05
23	e0.06	e0.00	e0.01	e0.01	e0.00	e0.05	e0.24	e0.01	e0.02	e0.62	e0.12	e0.02
24	e0.06	e0.00	e0.01	e0.01	e0.00	e0.05	e0.17	e0.01	e0.02	e0.29	e0.06	e0.01
25	e0.06	e0.00	e0.01	e0.01	e0.00	e0.03	e0.15	e0.01	e0.02	e0.15	e0.06	e0.00
26	e0.06	e0.00	e0.01	e0.01	e0.00	e0.03	e0.13	e0.01	e0.02	e0.26	e0.06	e0.00
27	e0.06	e0.00	e0.01	e0.01	e0.00	e0.03	e0.01	e0.00	e0.02	e0.34	e0.05	e0.00
28	e0.06	e0.00	e0.01	e0.00	e0.00	e0.02	e0.07	e0.00	e0.02	e0.38	e0.05	e0.00
29	e0.05	e0.00	e0.01	e0.00	e0.01	e0.01	e0.14	e0.00	e0.02	e0.31	e0.05	e0.00
30	e0.04	e0.00	e0.01	e0.00	---	e0.01	e0.38	e0.00	e0.02	e0.42	e0.10	e0.00
31	e0.04	---	e0.01	e0.00	---	e0.01	---	e0.00	---	e0.30	e0.10	---
MEAN	0.04	0.02	0.01	0.01	0.00	0.09	0.09	0.07	0.01	0.11	0.06	0.03
MAX	0.06	0.05	0.01	0.01	0.01	0.30	0.38	0.30	0.03	0.62	0.23	0.08
MIN	0.02	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.02	0.00
AC-FT	2.3	1.2	0.4	0.5	0.02	5.6	5.6	4.2	0.6	6.5	3.7	1.7

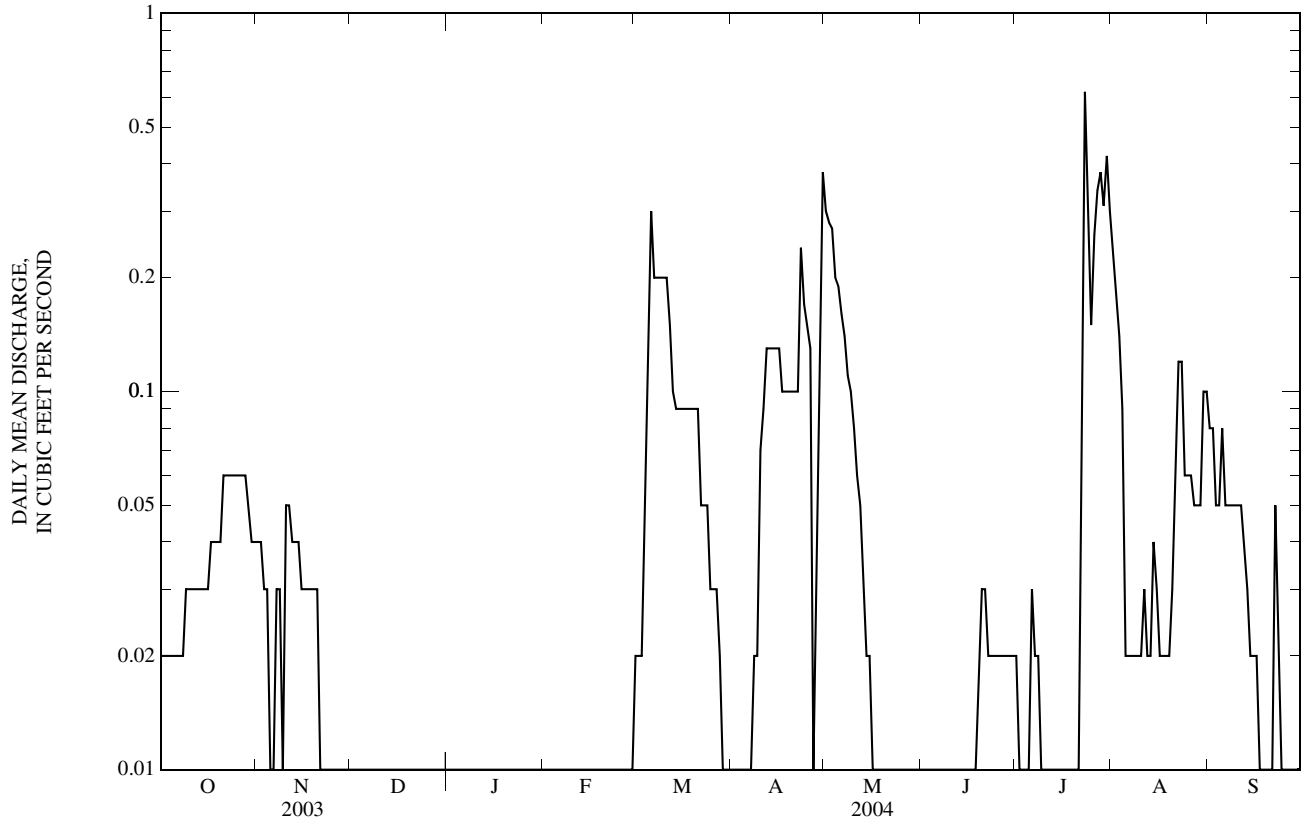
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	81.7	89.2	90.1	99.9	121	126	127	170	269	150	93.9	92.7
MAX	736	465	399	599	610	585	901	2,189	3,937	1,985	765	1,154
(WY)	(1966)	(1966)	(1966)	(1998)	(1998)	(1966)	(1973)	(1951)	(1965)	(1947)	(1965)	(1965)
MIN	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.00	0.03
(WY)	(2004)	(1995)	(1995)	(1995)	(1995)	(1995)	(1995)	(2004)	(2004)	(2003)	(2003)	(2004)

07140000 ARKANSAS RIVER NEAR KINSLEY, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004	
ANNUAL MEAN	0.05		0.04		126	
HIGHEST ANNUAL MEAN					608	1951
LOWEST ANNUAL MEAN					0.04	2004
HIGHEST DAILY MEAN	0.50	Sep 11	0.62	Jul 23	36,000	Jun 21, 1965
LOWEST DAILY MEAN	0.00	Jun 22	0.00	Nov 5	0.00	Aug 31, 1982
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 22	0.00	Nov 22	0.00	Aug 31, 1982
MAXIMUM PEAK FLOW			8.7	Jul 23	49,800	Jun 21, 1965
MAXIMUM PEAK STAGE			5.01	Jul 23	17.60	Jun 21, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 22	0.00	Jul 28, 1977
ANNUAL RUNOFF (AC-FT)	38		32		91,100	
10 PERCENT EXCEEDS	0.13		0.13		269	
50 PERCENT EXCEEDS	0.03		0.02		50	
90 PERCENT EXCEEDS	0.00		0.00		0.51	

e Estimated



07140850 PAWNEE RIVER NEAR BURDETT, KS

LOCATION.--Lat 38°12'24", long 99°38'35", in NW ¼ SW ¼ SW ¼ sec.21, T.21 S., R.21 W., Hodgeman County, Hydrologic Unit 11030006, on right bank at downstream side of county highway bridge, 3.2 mi north of Gray, 6.5 mi west and 1.2 mi north of Burdett.

DRAINAGE AREA.--1,091 mi^2.

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,102.55 ft above NGVD of 1929.

REMARKS.--Records fair. Natural flow affected by ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

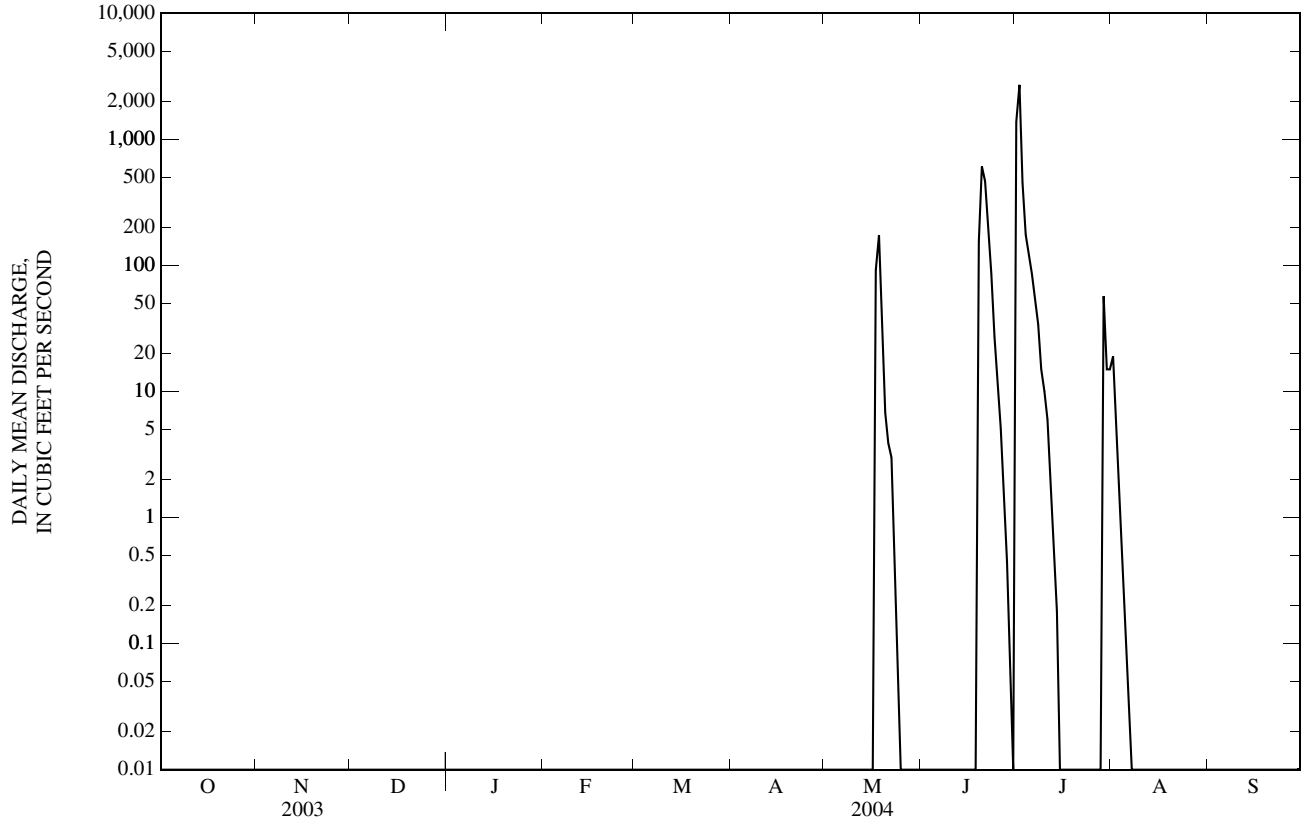
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,380	19	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,710	7.4	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	453	2.9	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	175	1.1	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125	0.35	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85	0.08	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.0	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	174	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	156	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.8	611	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	466	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	182	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	86	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	27	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	57	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	15	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	15	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.88	51.6	166	0.99	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	174	611	2,710	19	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	608	3,070	10,190	61	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

MEAN	1.72	2.33	1.15	1.30	4.17	7.52	9.32	6.72	12.8	44.1	21.1	12.7
MAX	10.9	31.5	8.79	10.1	71.1	100	106	55.0	89.1	539	166	73.8
(WY)	(1994)	(1997)	(1998)	(1998)	(1993)	(1993)	(1987)	(1996)	(1996)	(1993)	(1997)	(2001)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1982)	(1982)	(1982)	(1982)	(1982)	(1983)	(1982)	(1982)	(1982)	(1983)	(1983)	(1982)

07140850 PAWNEE RIVER NEAR BURDETT, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1982 - 2004	
ANNUAL MEAN	0.00		19.2		10.5	
HIGHEST ANNUAL MEAN					72.3	1993
LOWEST ANNUAL MEAN					0.00	1988
HIGHEST DAILY MEAN	0.00	Jan 1	2,710	Jul 2	3,830	Jul 21, 1993
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1981
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1981
MAXIMUM PEAK FLOW			4,220	Jul 2	4,290	Jul 21, 1993
MAXIMUM PEAK STAGE			26.21	Jul 2	27.38	Jul 21, 1993
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many days
ANNUAL RUNOFF (AC-FT)	0.00		13,920		7,580	
10 PERCENT EXCEEDS	0.00		0.50		9.0	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



07141175 BUCKNER CREEK NEAR BURDETT, KS

LOCATION.--Lat 38°09'45", long 99°38'33", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.22 S., R.21 W., Hodgeman County, Hydrologic Unit 11030006, on right bank at downstream side and 100 ft south of bridge 4 mi east of Hanson and 0.2 mi north or 7 mi west of Burdett and 0.2 north, and at mile 8.5.

DRAINAGE AREA.--735 mi^2.

PERIOD OF RECORD.--October1995 to current year.

GAGE.--Water-stage recorders. Datum of gage is 2,098.21 ft above NGVD of 1929.

REMARKS.--Records fair. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 4	2145	*3.9	*4.71	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

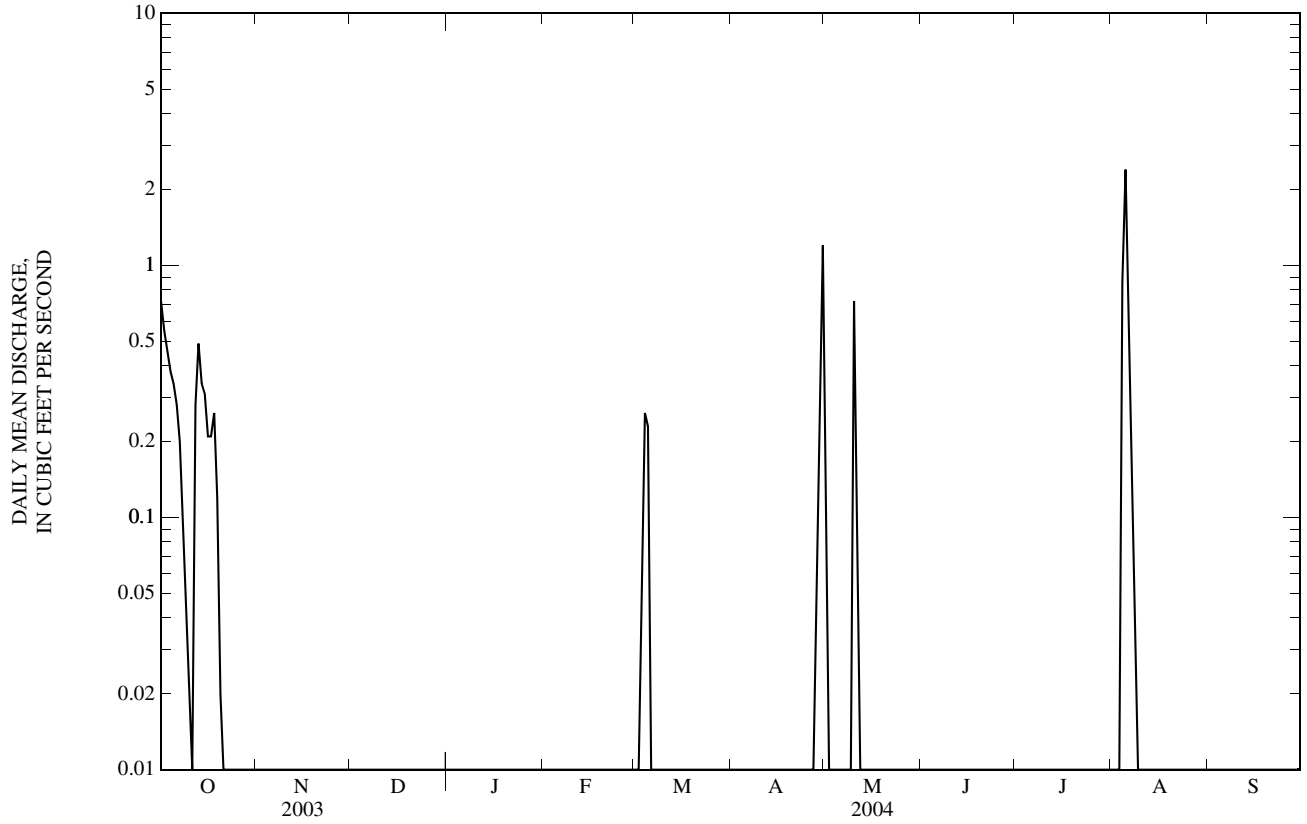
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
2	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.46	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
4	0.38	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.86	0.00
5	0.34	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	2.4	0.00
6	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00
7	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00
8	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
9	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
12	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	1.2	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
MEAN	0.17	0.00	0.00	0.00	0.00	0.02	0.06	0.04	0.00	0.00	0.13	0.00
MAX	0.72	0.00	0.00	0.00	0.00	0.26	1.2	0.72	0.00	0.00	2.4	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	11	0.00	0.00	0.00	0.00	1.1	3.6	2.3	0.00	0.00	7.7	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	13.6	26.1	6.73	7.80	8.32	11.8	11.8	17.6	18.0	15.7	50.7	52.8
MAX	81.8	198	27.5	29.6	32.5	57.1	41.9	44.4	63.6	93.8	286	362
(WY)	(1998)	(1997)	(1997)	(1998)	(1998)	(1998)	(1998)	(1996)	(1997)	(1996)	(1996)	(1996)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1996)	(1996)	(1996)	(1996)	(2002)	(2002)	(1996)	(2002)	(2003)	(2002)	(2003)	(2000)

07141175 BUCKNER CREEK NEAR BURDETT, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL MEAN	5.62		0.03		20.1	
HIGHEST ANNUAL MEAN					68.7	1996
LOWEST ANNUAL MEAN					0.03	2004
HIGHEST DAILY MEAN	362	Sep 13	2.4	Aug 5	2,160	Sep 21, 1996
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 11	0.00	Oct 1, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 21	0.00	Oct 1, 1995
MAXIMUM PEAK FLOW			3.9	Aug 4	2,360	Nov 17, 1996
MAXIMUM PEAK STAGE			4.71	Aug 4	24.39	Nov 17, 1996
INSTANTANEOUS LOW FLOW			0.00	Oct 11	0.00	most years
ANNUAL RUNOFF (AC-FT)	4,070		25		14,550	
10 PERCENT EXCEEDS	0.34		0.00		28	
50 PERCENT EXCEEDS	0.00		0.00		0.97	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



07141200 PAWNEE RIVER AT ROZEL, KS

LOCATION.--Lat 38°12'27", long 99°24'21", in SW $^1/_4$ SW $^1/_4$ sec.22, T.21 S., R.19 W., Pawnee County, Hydrologic Unit 11030005, on left bank at downstream side of highway bridge, 1.2 mi north of U.S. Highway 156 on county road at west edge of Rozel, 16.6 mi west of Larned, and at mile 30.6.

DRAINAGE AREA.--2,148 mi^2, of which 138 mi^2 is probably noncontributing.

PERIOD OF RECORD.--April to September 1924 (gage heights and discharge measurements only), October 1924 to September 1995 published as "near Larned," and October 1995 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1177: 1949. WSP 1241: 1927-28(M), 1935, 1940, 1943. WSP 1341: Drainage area.

GAGE.--Water-stage recorders. Datum of gage is 2,040.24 ft above NGVD of 1929. June 3, 1959, to June 6, 1990, at site 5.8 mi downstream at datum 0.66 ft higher. See WSP 1921 for history of changes prior to June 2, 1959.

REMARKS.--Records fair. Natural flow affected by ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 21	0915	929	20.07	Jul 3	0800	*2,310	*25.68

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

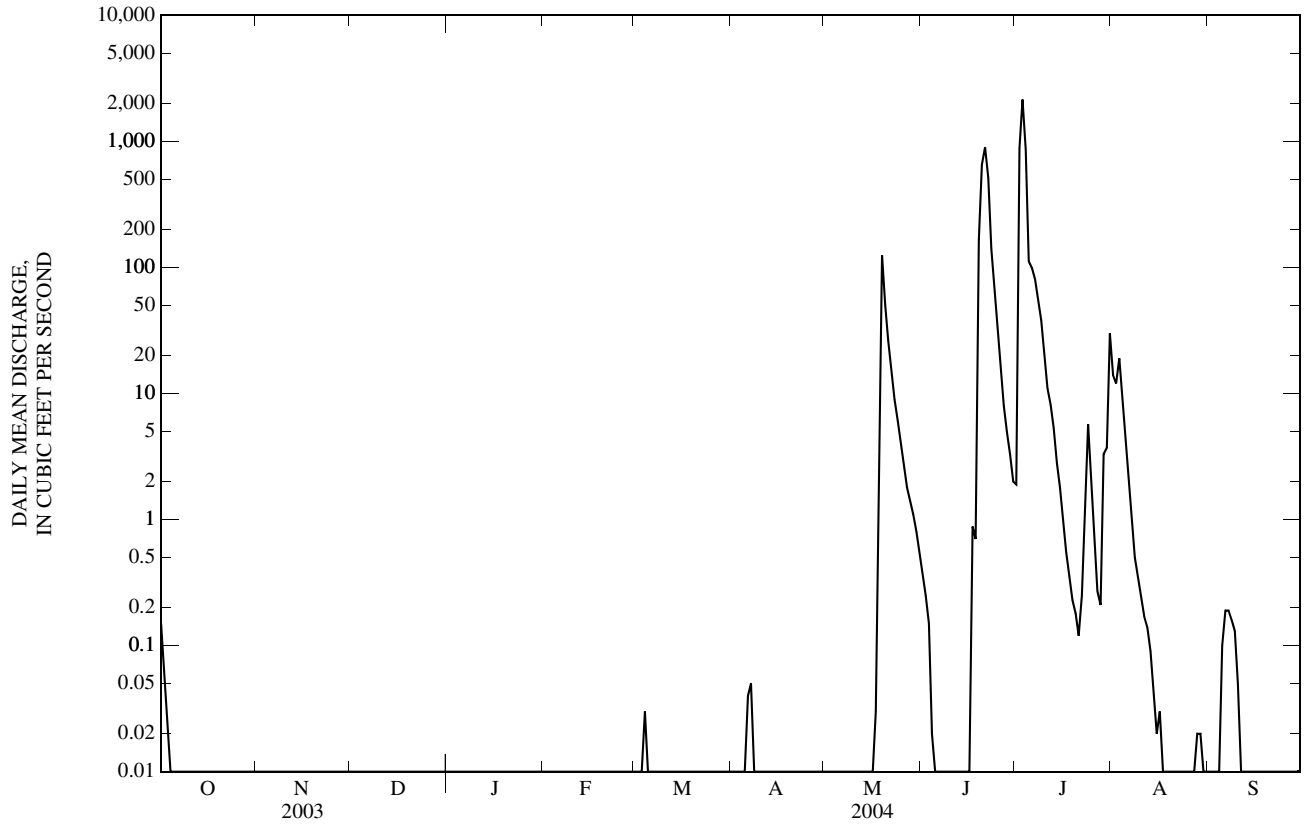
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	1.9	14	0.00
2	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	890	12	0.00
3	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	2,150	19	0.00
4	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.02	867	8.7	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	112	4.3	0.10
6	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	99	2.1	0.19
7	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	81	0.96	0.19
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54	0.50	0.16
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38	0.34	0.13
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	0.24	0.05
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.17	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.1	0.14	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.09	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.04	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.02	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.0	0.03	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.88	0.55	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.0	0.70	0.35	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	125	166	0.23	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50	652	0.18	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	901	0.12	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	513	0.25	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	141	1.3	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.1	68	5.7	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	31	1.7	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	15	0.59	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	8.0	0.27	0.01	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	4.9	0.21	0.02	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	3.3	3.3	0.02	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.80	2.0	3.7	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.54	---	30	0.00	---
MEAN	0.01	0.00	0.00	0.00	0.00	0.00	0.00	8.02	83.6	142	2.02	0.03
MAX	0.15	0.00	0.00	0.00	0.00	0.03	0.05	125	901	2,150	19	0.19
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
AC-FT	0.5	0.00	0.00	0.00	0.00	0.08	0.2	493	4,970	8,710	124	1.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

MEAN	47.8	16.6	6.96	6.84	11.1	28.9	46.7	93.2	148	154	104	52.5
MAX	1,185	320	63.5	59.7	304	552	640	1,286	2,298	2,264	2,536	447
(WY)	(1947)	(1997)	(1974)	(1952)	(1949)	(1960)	(1973)	(1935)	(1951)	(1958)	(1950)	(1962)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1940)	(1940)	(1955)	(1956)	(1957)	(1957)	(1935)	(1956)	(1966)	(1976)	(1946)	(1939)

07141200 PAWNEE RIVER AT ROZEL, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL MEAN	7.22		19.7		60.3	
HIGHEST ANNUAL MEAN					549	1951
LOWEST ANNUAL MEAN					0.00	1991
HIGHEST DAILY MEAN	397	Sep 14	2,150	Jul 3	14,300	Jul 28, 1958
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 5	0.00	May 5, 1926
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 5	0.00	Jul 10, 1930
MAXIMUM PEAK FLOW			2,310	Jul 3	16,300	Jul 28, 1958
MAXIMUM PEAK STAGE			25.68	Jul 3	33.75	Jul 22, 1993
INSTANTANEOUS LOW FLOW			0.00	Oct 4	0.00	most years
ANNUAL RUNOFF (AC-FT)	5,230		14,310		43,660	
10 PERCENT EXCEEDS	0.24		4.1		56	
50 PERCENT EXCEEDS	0.00		0.00		3.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



07141220 ARKANSAS RIVER NEAR LARNED, KS

LOCATION.--Lat 38°12'13", long 99°00'07", in SE ¼ SE ¼ SE ¼ sec.19, T.21 S., R.15 W., Pawnee County, Hydrologic Unit 11030004, on right bank at downstream side of county bridge, 1 mi north and 5.1 mi east of Larned, and at mile 904.5.

DRAINAGE AREA.-34,002 mi^2, of which 5,871 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,943.33 ft above NGVD of 1929.

REMARKS.--Records fair. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 22	0300	1,320	9.06	Jul 5	0100	*1,470	*9.40

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

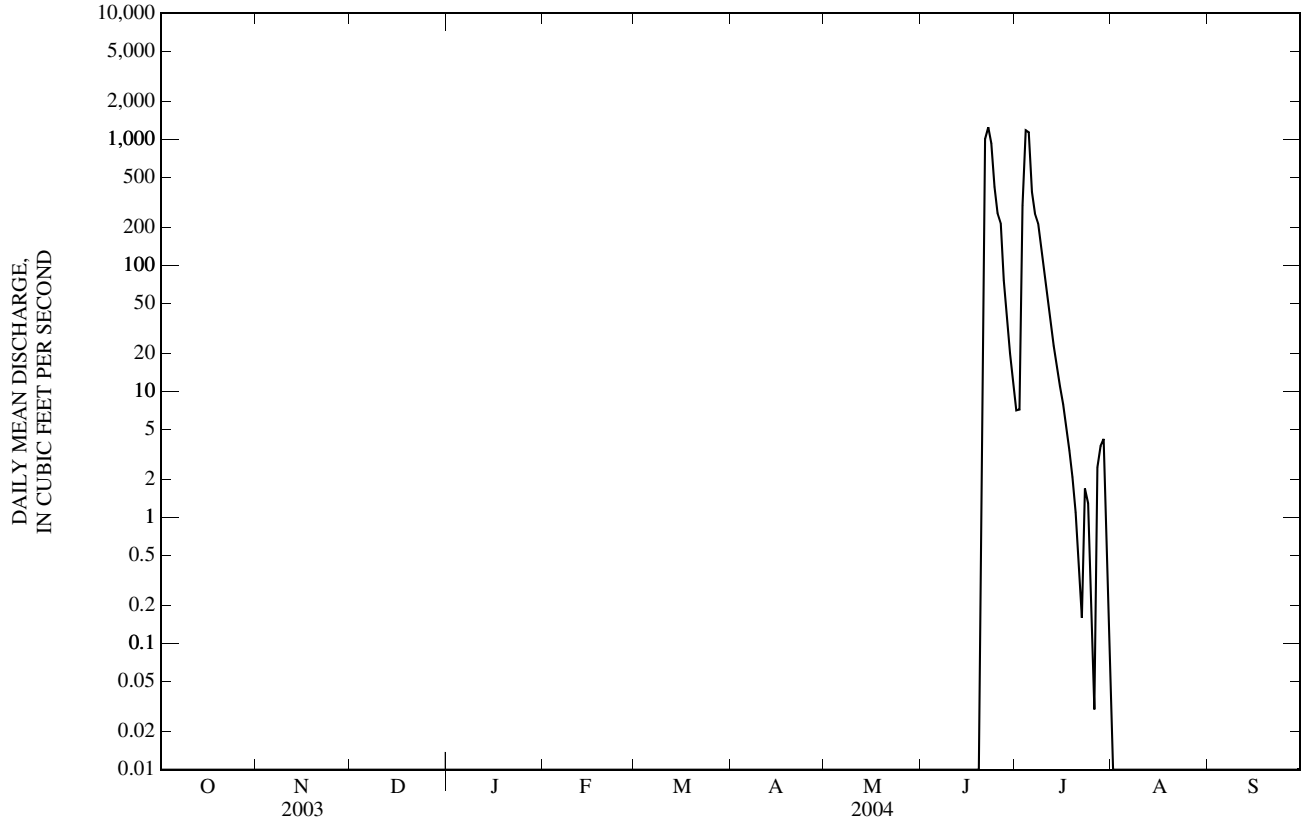
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.1	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.2	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	299	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,180	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,140	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	382	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	258	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	215	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	132	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.9	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78	1.1	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,010	0.41	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,250	0.16	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	929	1.7	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	420	1.3	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	260	0.15	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	216	0.03	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76	2.5	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	3.7	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20	4.2	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	12	1.2	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.18	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	144	125	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,250	1,180	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,540	7,680	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	38.7	51.1	43.9	40.2	52.3	90.7	110	217	357	158	84.4	73.3
MAX	154	175	140	134	150	347	307	911	1,662	678	449	222
(WY)	(2000)	(1999)	(2000)	(2000)	(1999)	(2000)	(1999)	(1999)	(1999)	(1999)	(1999)	(2001)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2002)

07141220 ARKANSAS RIVER NEAR LARNED, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL MEAN	2.19		22.3		110	
HIGHEST ANNUAL MEAN					413	1999
LOWEST ANNUAL MEAN					1.70	2002
HIGHEST DAILY MEAN	160	Sep 16	1,250	Jun 22	2,100	Sep 20, 2001
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Apr 18, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Apr 18, 2002
MAXIMUM PEAK FLOW			1,470	Jul 5	2,340	Sep 20, 2001
MAXIMUM PEAK STAGE			9.40	Jul 5	10.90	Sep 20, 2001
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Apr 20, 2002
ANNUAL RUNOFF (AC-FT)	1,580		16,220		79,500	
10 PERCENT EXCEEDS	0.00		1.1		273	
50 PERCENT EXCEEDS	0.00		0.00		4.8	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



07141300 ARKANSAS RIVER AT GREAT BEND, KS

LOCATION.--Lat 38°21'11", long 98°45'50", in SW ¼ NW ¼ SE ¼ sec.33, T.19 S., R.13 W., Barton County, Hydrologic Unit 11030004, on left bank, top of levee, at downstream side of bridge on U.S. Highway 281, 0.5 mi south of Great Bend, 4.5 mi upstream from Walnut Creek, and at mile 873.2.

DRAINAGE AREA.--34,356 mi^2, of which 6,002 mi^2 is probably noncontributing.

PERIOD OF RECORD.--September 1940 to current year. Fragmentary gage-height records collected at same site, at datum 3.0 ft higher, 1906, 1908-12, are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1341: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,835.19 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1975, at datum 4.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow moderately regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow of stream affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 5	1400	*1,180	*5.52	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.10	e0.05	e0.02	e0.03	e0.02	e0.54	e0.31	e0.10	e0.10	16	12	0.60
2	e0.10	e0.05	e0.02	e0.03	e0.02	e0.88	e0.30	e0.10	e0.10	11	5.4	0.59
3	e0.10	e0.20	e0.02	e0.03	e0.02	e1.4	e0.30	e0.10	e0.10	7.9	3.9	0.50
4	e0.10	e0.50	e0.02	e0.02	e0.02	e5.8	e0.30	e0.10	e0.10	542	3.0	0.49
5	e0.10	e0.40	e0.02	e0.02	e0.02	e5.2	e0.30	e0.10	e0.10	1,090	2.7	2.1
6	e0.10	e0.26	e0.02	e0.02	e0.02	e2.4	e0.30	e0.10	e0.10	507	2.8	1.8
7	e0.10	e0.21	e0.02	e0.02	e0.02	e1.9	e0.29	e0.10	e0.10	226	2.9	1.1
8	e0.10	e0.17	e0.02	e0.03	e0.02	e2.2	e0.30	e0.10	e0.10	174	3.0	0.83
9	e0.30	e0.12	e0.02	e0.03	e0.02	e1.2	e0.30	e0.10	e0.10	124	3.5	0.74
10	e0.30	e0.10	e0.02	e0.03	e0.02	e0.41	e0.40	e0.10	e0.10	85	6.0	0.64
11	e0.30	e0.09	e0.02	e0.03	e0.02	e0.23	e0.40	e0.10	e0.10	58	5.3	0.61
12	e0.25	e0.07	e0.02	e0.03	e0.02	e0.16	e0.40	e0.10	e0.10	39	3.4	0.56
13	e0.25	e0.06	e0.02	e0.03	e0.02	e0.15	e0.40	e0.10	e0.10	24	2.6	0.52
14	e0.25	e0.05	e0.02	e0.03	e0.02	e0.14	e0.40	e0.10	e0.10	17	2.3	e0.50
15	e0.20	e0.05	e0.03	e0.02	e0.02	e0.12	e0.40	e0.10	e0.10	13	2.1	e0.49
16	e0.20	e0.04	e0.04	e0.02	e0.03	e0.11	e0.40	e0.20	e0.20	10	2.2	e0.47
17	e0.20	e0.04	e0.05	e0.02	e0.03	e0.11	e0.40	e0.10	e0.50	7.9	1.9	e0.46
18	e0.15	e0.03	e0.05	e0.02	e0.03	e0.10	e0.30	e0.10	e1.0	6.4	1.7	e0.45
19	e0.15	e0.03	e0.04	e0.02	e0.04	e0.10	e0.30	e0.10	e1.0	5.1	2.1	e0.45
20	e0.10	e0.03	e0.04	e0.02	e0.04	e0.10	e0.30	e0.10	e1.0	4.2	1.9	e0.45
21	e0.08	e0.02	e0.04	e0.02	e0.05	e0.10	e0.30	e0.10	83	3.5	1.3	e0.45
22	e0.07	e0.02	e0.04	e0.02	e0.05	e0.09	e0.20	e0.10	883	3.1	1.2	e1.7
23	e0.07	e0.02	e0.04	e0.02	e0.06	e0.09	e0.20	e0.10	949	9.1	4.0	4.5
24	e0.05	e0.02	e0.04	e0.02	e0.06	e0.08	e0.20	e0.10	498	6.5	2.1	1.8
25	e0.05	e0.02	e0.04	e0.02	e0.07	e0.08	e0.20	e0.10	220	3.9	1.8	1.2
26	e0.05	e0.02	e0.04	e0.02	e0.09	e0.08	e0.10	e0.10	203	2.9	1.3	0.82
27	e0.05	e0.02	e0.04	e0.02	e0.10	e0.40	e0.10	e0.10	117	1.9	1.0	0.68
28	e0.05	e0.02	e0.04	e0.02	e0.19	e0.40	e0.10	e0.10	71	1.7	0.99	e0.60
29	e0.05	e0.02	e0.03	e0.02	e0.60	e0.31	e0.10	e0.10	38	4.2	0.80	e0.54
30	e0.05	e0.02	e0.03	e0.02	---	e0.31	e0.20	e0.10	24	92	0.67	e0.50
31	e0.05	---	e0.03	e0.02	---	e0.31	---	e0.10	---	47	0.66	---
MEAN	0.13	0.09	0.03	0.02	0.06	0.82	0.28	0.10	103	101	2.79	0.90
MAX	0.30	0.50	0.05	0.03	0.60	5.8	0.40	0.20	949	1,090	12	4.5
MIN	0.05	0.02	0.02	0.02	0.02	0.08	0.10	0.10	0.10	1.7	0.66	0.45
AC-FT	8.1	5.5	1.9	1.4	3.5	51	17	6.3	6,130	6,230	172	54

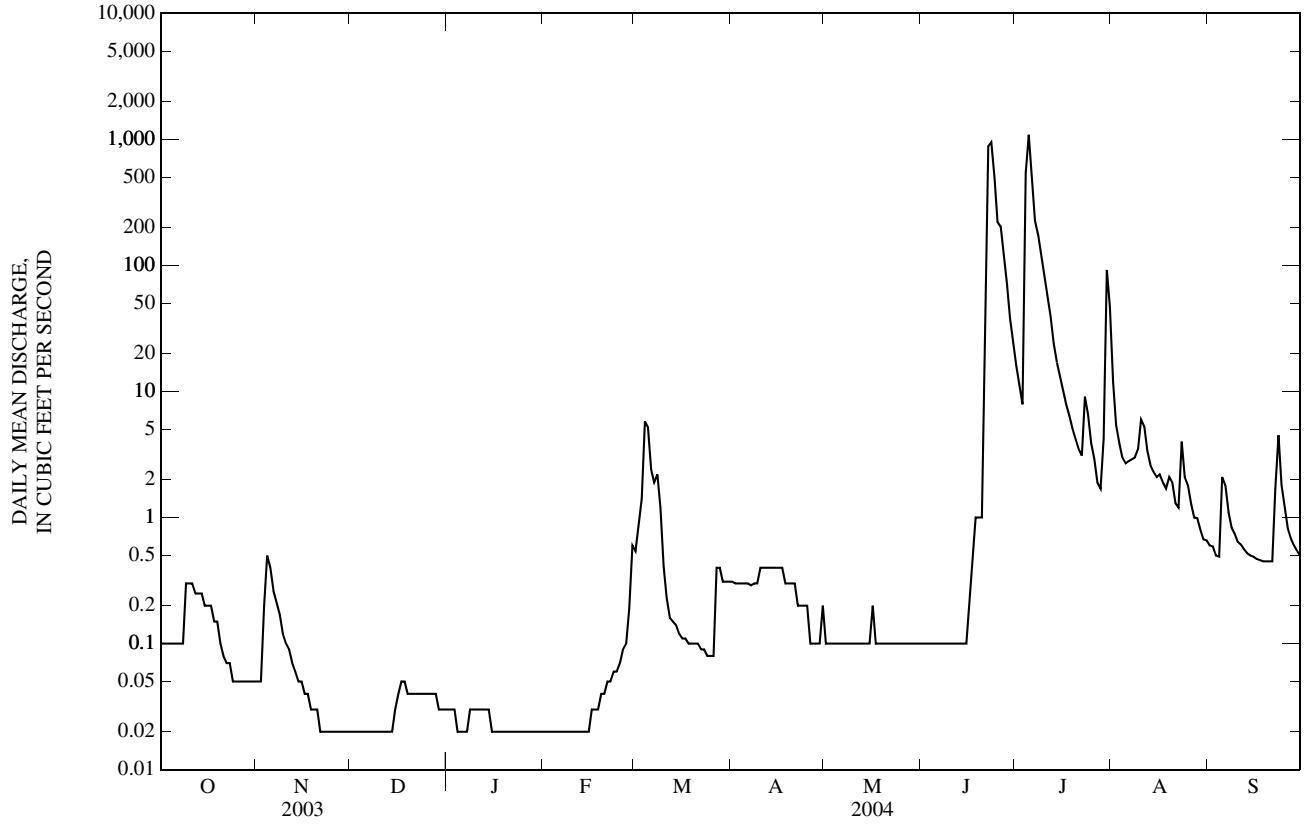
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)

MEAN	168	159	125	130	166	215	261	374	556	449	276	207
MAX	1,304	1,170	589	707	843	1,560	2,646	6,047	4,089	4,033	3,247	1,347
(WY)	(1974)	(1997)	(1942)	(1943)	(1949)	(1973)	(1973)	(1942)	(1951)	(1951)	(1950)	(1950)
MIN	0.13	0.09	0.03	0.02	0.06	0.82	0.28	0.10	3.05	1.22	0.13	0.38
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(1991)	(2003)	(1946)	(1984)

07141300 ARKANSAS RIVER AT GREAT BEND, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL MEAN	2.10		17.5		257	
HIGHEST ANNUAL MEAN					1,565	1942
LOWEST ANNUAL MEAN					2.46	1985
HIGHEST DAILY MEAN	20	Sep 18	1,090	Jul 5	21,800	Jun 23, 1965
LOWEST DAILY MEAN	0.02	Nov 21	0.02	Nov 21	0.00	Oct 25, 1940
ANNUAL SEVEN-DAY MINIMUM	0.02	Nov 21	0.02	Nov 21	0.00	Aug 2, 1946
MAXIMUM PEAK FLOW			1,180	Jul 5	27,800	Jun 23, 1965
MAXIMUM PEAK STAGE			5.52	Jul 5	17.70	Jun 15, 1981
INSTANTANEOUS LOW FLOW			0.00	Oct 26	0.00	at times
ANNUAL RUNOFF (AC-FT)	1,520		12,690		186,400	
10 PERCENT EXCEEDS	4.3		5.3		521	
50 PERCENT EXCEEDS	2.0		0.10		75	
90 PERCENT EXCEEDS	0.04		0.02		2.9	

e Estimated



07141750 WET WALNUT WATERSHED STRUCTURE NO. 39 NEAR BAZINE, KS

LOCATION.--Lat 38°29'48", long 99°47'06", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.08, T.18 S., R.22 W., Ness County, Hydrologic Unit 11030008, on upstream face of dam, 5.7 mi northwest of Bazine.

DRAINAGE AREA.--17 mi^2.

PERIOD OF RECORD.--November 1994 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Natural Resources Conservation Service).

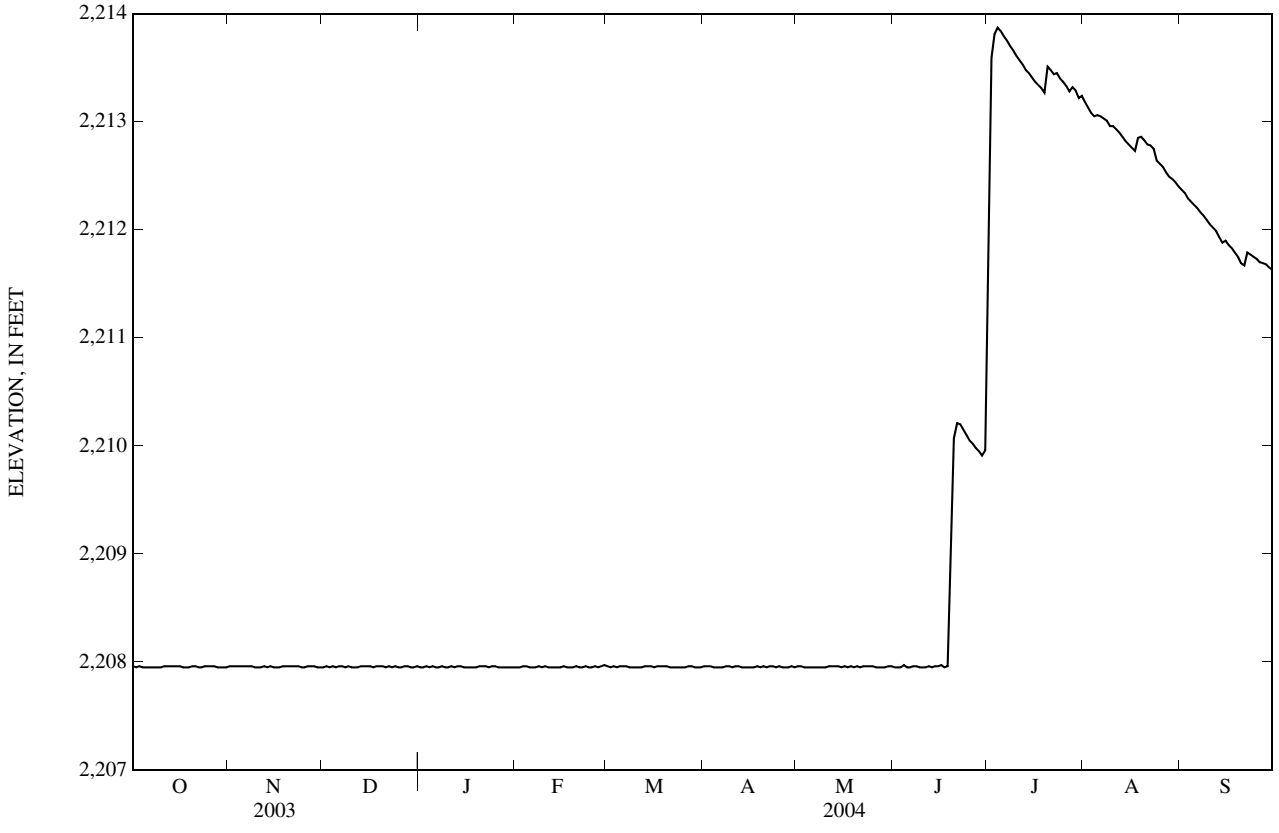
REMARKS.--Water elevation not recorded below 2,207.96 ft. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,221.58 ft, Aug. 3, 1999, contents, 571 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,213.90 ft, July 4, contents, 73.7 acre-ft; minimum elevation, less than 2,207.96 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on field survey by Natural Resources Conservation Service)

Elevation	Contents	Elevation	Contents	Elevation	Contents
2,207	1.20	2,209	4.06	2,214	76.8



07141750 WET WALNUT WATERSHED STRUCTURE NO. 39 NEAR BAZINE, KS—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.96	<2,207.96	<2,207.96	<2,207.95	2,211.93	2,213.18	2,212.37
2	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.96	<2,207.96	<2,207.95	2,213.59	2,213.13	2,212.34
3	<2,207.96	<2,207.96	<2,207.95	<2,207.96	<2,207.96	<2,207.96	<2,207.96	<2,207.95	<2,207.95	2,213.81	2,213.08	2,212.29
4	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.97	2,213.87	2,213.05	2,212.26
5	<2,207.95	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	2,213.84	2,213.06	2,212.23
6	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	2,213.79	2,213.05	2,212.20
7	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.96	2,213.75	2,213.03	2,212.16
8	<2,207.95	<2,207.96	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.96	2,213.70	2,213.01	2,212.13
9	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	2,213.66	2,212.96	2,212.09
10	<2,207.95	<2,207.95	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.95	2,213.61	2,212.96	2,212.05
11	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.96	<2,207.95	2,213.57	2,212.93	2,212.02
12	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.95	<2,207.96	<2,207.96	<2,207.96	2,213.53	2,212.90	2,211.99
13	<2,207.96	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.96	<2,207.95	2,213.48	2,212.86	2,211.93
14	<2,207.96	<2,207.96	<2,207.96	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.96	<2,207.96	2,213.45	2,212.82	2,211.88
15	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.96	2,213.41	2,212.79	2,211.90
16	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.97	2,213.37	2,212.76	2,211.86
17	<2,207.95	<2,207.95	<2,207.95	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	2,213.34	2,212.73	2,211.83
18	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.96	<2,207.96	<2,207.96	2,213.31	2,212.85	2,211.79
19	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	2,209.06	2,213.27	2,212.86	2,211.75
20	<2,207.96	<2,207.96	<2,207.96	<2,207.96	<2,207.96	<2,207.96	<2,207.96	<2,207.96	2,210.07	2,213.51	2,212.83	2,211.69
21	<2,207.96	<2,207.96	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.95	2,210.21	2,213.48	2,212.79	2,211.67
22	<2,207.95	<2,207.96	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.96	2,210.20	2,213.44	2,212.78	2,211.79
23	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.96	<2,207.96	2,210.15	2,213.45	2,212.75	2,211.77
24	<2,207.96	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.95	<2,207.96	2,210.10	2,213.40	2,212.64	2,211.75
25	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.96	2,210.05	2,213.37	2,212.61	2,211.73
26	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	<2,207.95	2,210.02	2,213.33	2,212.58	2,211.70
27	<2,207.96	<2,207.96	<2,207.96	<2,207.95	<2,207.95	<2,207.96	<2,207.95	<2,207.95	2,209.98	2,213.28	2,212.53	2,211.69
28	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.96	<2,207.96	<2,207.95	<2,207.95	2,209.95	2,213.32	2,212.49	2,211.68
29	<2,207.95	<2,207.95	<2,207.95	<2,207.95	<2,207.97	<2,207.95	<2,207.96	<2,207.95	2,209.91	2,213.29	2,212.47	2,211.65
30	<2,207.95	<2,207.95	<2,207.95	<2,207.95	---	<2,207.95	<2,207.95	<2,207.96	2,209.96	2,213.22	2,212.44	2,211.63
31	<2,207.95	---	<2,207.96	<2,207.95	---	<2,207.95	---	<2,207.96	---	2,213.24	2,212.40	---
MEAN	2,207.95	2,207.96	2,207.95	2,207.95	2,207.95	2,207.95	2,207.95	2,207.95	2,208.76	2,213.44	2,212.82	2,211.93
MAX	2,207.96	2,207.96	2,207.96	2,207.96	2,207.97	2,207.96	2,207.96	2,207.96	2,210.21	2,213.87	2,213.18	2,212.37
MIN	2,207.95	2,207.95	2,207.95	2,207.95	2,207.95	2,207.95	2,207.95	2,207.95	2,207.95	2,211.93	2,212.40	2,211.63
(+)									8.02	56.4	40.0	26.2
(#)										+48.4	-16.4	-13.8

CAL YR 2003 ..... (#) not determined
WTR YR 2004 ..... (#) not determined

+ CONTENTS, IN ACRE-FEET, AT END OF MONTH.
# CHANGE IN CONTENTS, IN ACRE-FEET.

< Actual value is known to be less than the value shown

07141770 WALNUT CREEK NEAR ALEXANDER, KS

LOCATION.--Lat 38°27'53", long 99°37'20", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.18 S., R.21 W., Ness County, Hydrologic Unit 11030008, at right bank of downstream side of bridge, 3.6 mi west of Alexander, and at mile 105.0.

DRAINAGE AREA.--1,025 mi^2.

PERIOD OF RECORD.--November 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,068.19 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 20	0800	868	12.73	Jul 2	1100	*948	*13.38

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.32	0.37	0.53	1.2	e0.90	1.9	2.0	3.2	0.34	258	12	0.65
2	0.42	0.42	0.61	1.2	e0.90	1.3	1.9	2.3	0.34	903	8.1	0.53
3	0.32	0.48	0.53	1.2	e0.90	1.1	2.1	2.2	0.29	435	6.1	0.49
4	0.27	0.49	0.58	e1.1	e0.90	3.7	2.2	2.2	0.38	113	5.0	0.49
5	0.21	0.40	0.48	e1.0	e0.90	5.9	2.2	2.2	0.43	67	3.8	0.50
6	0.18	0.57	0.49	e1.1	e0.90	4.8	1.8	1.8	0.38	52	3.1	0.51
7	0.19	0.53	0.53	e1.2	e0.92	7.3	2.0	0.81	0.33	38	2.3	0.49
8	0.18	0.53	0.64	1.3	e0.98	6.5	1.1	1.2	0.27	30	2.8	0.49
9	0.21	0.50	e0.60	1.1	e1.1	4.5	0.97	1.5	0.36	26	2.8	0.50
10	0.22	0.51	e0.60	0.99	e1.2	4.0	1.1	1.5	0.46	22	2.7	0.51
11	0.25	0.40	e0.56	1.0	e1.4	3.1	2.3	2.1	0.40	17	3.0	0.53
12	0.36	0.46	e0.60	1.4	e1.4	3.1	2.3	2.2	0.37	15	2.7	0.60
13	0.41	0.53	e0.70	1.9	e1.3	2.7	2.3	2.3	0.34	12	3.1	0.63
14	0.18	0.48	0.78	1.6	e1.4	2.6	2.5	4.6	0.31	8.6	2.9	0.55
15	0.29	0.57	1.0	1.8	e1.5	2.5	2.2	4.9	0.46	6.5	2.7	0.48
16	0.28	0.48	e1.1	2.0	1.6	2.4	2.1	3.2	0.62	5.4	2.8	0.43
17	0.24	0.40	1.3	2.9	2.0	2.3	1.8	4.1	0.65	3.7	2.1	0.38
18	0.21	0.42	1.6	1.9	2.3	2.2	1.7	44	1.6	2.8	3.6	0.37
19	0.23	0.44	1.6	2.1	3.5	2.2	1.0	17	316	2.5	148	0.42
20	0.22	0.39	1.7	1.6	4.4	2.0	1.7	6.2	774	2.2	17	0.48
21	0.20	0.40	1.7	1.5	4.4	1.8	1.6	3.6	328	24	4.1	0.44
22	0.24	0.52	1.8	1.5	3.7	2.0	1.5	2.6	161	48	2.9	0.65
23	0.27	0.52	1.8	1.3	2.8	2.3	1.6	2.0	70	15	2.2	2.1
24	0.29	0.50	1.7	1.3	1.7	1.8	3.1	1.5	40	7.7	1.8	1.8
25	0.25	0.53	1.8	e1.1	1.4	2.1	3.3	1.2	25	5.3	1.7	2.7
26	0.30	0.50	1.8	e1.0	1.0	2.2	2.4	1.0	15	4.8	1.6	3.3
27	0.30	0.53	1.5	e0.93	0.97	2.1	3.3	0.91	9.7	3.8	1.5	2.3
28	0.29	0.52	1.4	e0.90	1.0	1.9	4.2	0.49	6.5	5.3	1.4	1.8
29	0.33	0.56	1.2	e0.90	1.5	1.6	2.9	0.57	4.4	60	1.3	1.7
30	0.33	0.55	1.2	e0.90	---	1.7	3.1	0.45	3.2	78	0.89	1.5
31	0.34	---	1.2	e0.90	---	1.8	---	0.37	---	20	0.79	---
MEAN	0.27	0.48	1.08	1.35	1.69	2.82	2.14	4.01	58.7	73.9	8.28	0.94
MAX	0.42	0.57	1.8	2.9	4.4	7.3	4.2	44	774	903	148	3.3
MIN	0.18	0.37	0.48	0.90	0.90	1.1	0.97	0.37	0.27	2.2	0.79	0.37
AC-FT	17	29	67	83	97	173	127	246	3,490	4,550	509	56

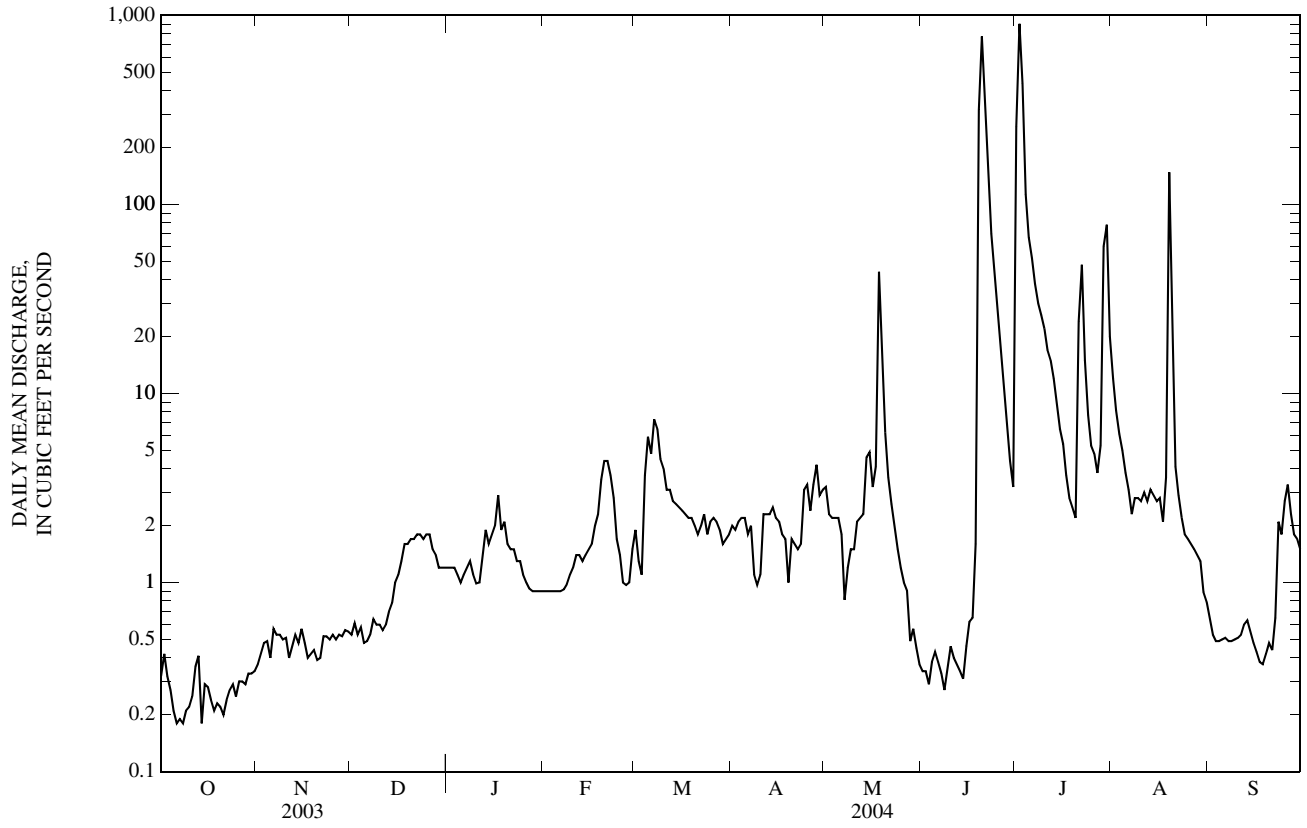
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	7.18	13.9	7.83	7.94	9.20	15.5	12.2	14.8	41.8	36.3	38.3	17.3
MAX	22.6	67.5	18.4	13.7	16.5	50.2	26.7	49.1	148	87.3	116	100
(WY)	(1997)	(1997)	(1997)	(1997)	(1998)	(2000)	(1998)	(1996)	(1996)	(1999)	(1999)	(1996)
MIN	0.27	0.48	0.82	1.35	1.69	2.82	2.14	4.01	4.25	0.35	0.23	0.39
(WY)	(2004)	(2004)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)

07141770 WALNUT CREEK NEAR ALEXANDER, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL MEAN	2.34		13.0		18.6	
HIGHEST ANNUAL MEAN					37.7	1996
LOWEST ANNUAL MEAN					2.57	2003
HIGHEST DAILY MEAN	16	Mar 21	903	Jul 2	1,550	Jun 1, 1996
LOWEST DAILY MEAN	0.08	Aug 16	0.18	Oct 6	0.08	Aug 16, 2003
ANNUAL SEVEN-DAY MINIMUM	0.09	Aug 16	0.21	Oct 5	0.09	Aug 16, 2003
MAXIMUM PEAK FLOW			948	Jul 2	3,070	Jun 1, 1996
MAXIMUM PEAK STAGE			13.38	Jul 2	21.19	Jun 1, 1996
INSTANTANEOUS LOW FLOW			0.13	Oct 5	0.07	Aug 16, 2003
ANNUAL RUNOFF (AC-FT)	1,700		9,440		13,450	
10 PERCENT EXCEEDS	5.2		7.4		24	
50 PERCENT EXCEEDS	1.4		1.5		7.6	
90 PERCENT EXCEEDS	0.21		0.36		0.90	

e Estimated



07141778 WET WALNUT WATERSHED STRUCTURE NO. 17 NEAR NEKOMA, KS

LOCATION.--Lat 38°24'58", long 99°28'40", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.12, T.19 S., R.20 W., Rush County, Hydrologic Unit 11030008, on upstream face of dam, 4.8 mi southwest of Nekoma.

DRAINAGE AREA.--9.1 mi^2.

PERIOD OF RECORD.--November 1994 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Natural Resources Conservation Service).

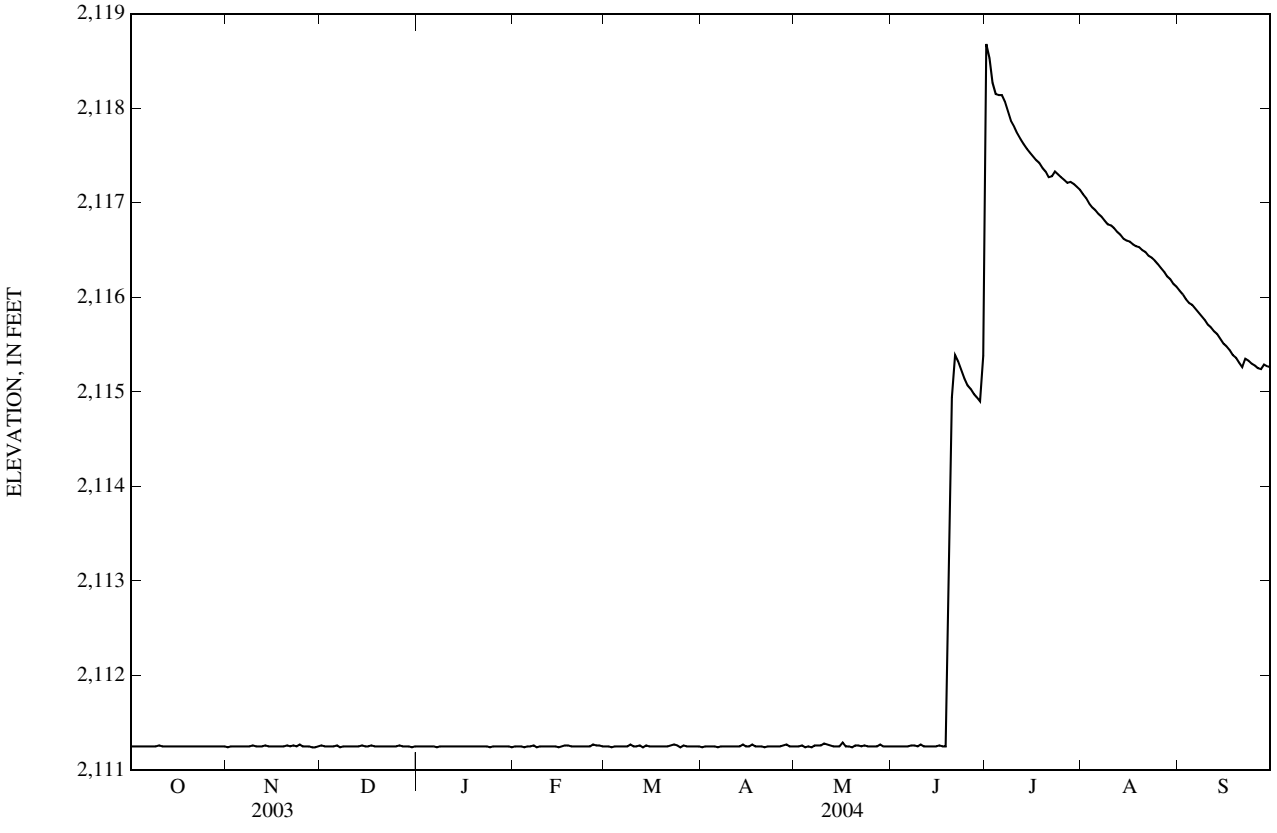
REMARKS.--Water elevation not recorded below 2,111.28 ft. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,126.24 ft, Nov. 11, 1997, contents, 740 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,118.73 ft, July 2, contents, 211 acre-ft; no minimum elevation less than 2,111.28 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on field survey by Natural Resources Conservation Service)

Elevation	Contents	Elevation	Contents	Elevation	Contents
2,110	15.1	2,115	79.6	2,120	279



07141778 WET WALNUT WATERSHED STRUCTURE NO. 17 NEAR NEKOMA, KS—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	<2,111.25	<2,111.24	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.25	<2,111.25	2,118.68	2,117.09	2,116.07
2	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	2,118.53	2,117.05	2,116.03
3	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.25	<2,111.26	<2,111.25	2,118.27	2,116.99	2,115.98
4	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.25	<2,111.25	<2,111.24	<2,111.25	2,118.15	2,116.95	2,115.94
5	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	2,118.14	2,116.92	2,115.92
6	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.24	<2,111.25	2,118.14	2,116.88	2,115.88
7	<2,111.25	<2,111.25	<2,111.24	<2,111.24	<2,111.26	<2,111.25	<2,111.25	<2,111.26	<2,111.26	2,118.07	2,116.85	2,115.84
8	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.25	<2,111.25	<2,111.26	<2,111.26	2,117.96	2,116.81	2,115.80
9	<2,111.25	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.27	<2,111.25	<2,111.26	<2,111.25	2,117.86	2,116.77	2,115.76
10	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.28	<2,111.27	2,117.80	2,116.76	2,115.71
11	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.27	<2,111.25	2,117.73	2,116.73	2,115.68
12	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.26	<2,111.25	2,117.67	2,116.69	2,115.64
13	<2,111.25	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.25	<2,111.25	<2,111.25	2,117.62	2,116.66	2,115.61
14	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.25	<2,111.26	<2,111.27	<2,111.25	<2,111.25	2,117.57	2,116.62	2,115.56
15	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.25	<2,111.25	<2,111.25	<2,111.25	2,117.53	2,116.60	2,115.51
16	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.29	<2,111.26	2,117.49	2,116.59	2,115.48
17	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.26	<2,111.25	<2,111.27	<2,111.25	<2,111.25	2,117.45	2,116.56	2,115.44
18	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.25	2,117.42	2,116.54	2,115.39
19	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.24	2,113.05	2,117.37	2,116.53	2,115.36
20	<2,111.25	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.26	2,114.94	2,117.33	2,116.50	2,115.31
21	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.26	2,115.39	2,117.27	2,116.48	2,115.26
22	<2,111.25	<2,111.26	<2,111.25	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.25	2,115.32	2,117.28	2,116.44	2,115.35
23	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.27	<2,111.25	<2,111.26	2,115.23	2,117.33	2,116.42	2,115.33
24	<2,111.25	<2,111.27	<2,111.25	<2,111.24	<2,111.25	<2,111.26	<2,111.25	<2,111.25	2,115.14	2,117.30	2,116.39	2,115.30
25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.24	<2,111.25	<2,111.25	2,115.07	2,117.27	2,116.35	2,115.28
26	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.27	<2,111.26	<2,111.25	<2,111.25	2,115.03	2,117.24	2,116.31	2,115.25
27	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.26	<2,111.25	2,114.98	2,117.21	2,116.27	2,115.24
28	<2,111.25	<2,111.24	<2,111.25	<2,111.25	<2,111.26	<2,111.25	<2,111.27	<2,111.27	2,114.94	2,117.22	2,116.22	2,115.29
29	<2,111.25	<2,111.24	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	<2,111.25	2,114.90	2,117.20	2,116.19	2,115.27
30	<2,111.25	<2,111.25	<2,111.24	<2,111.25	---	<2,111.25	<2,111.25	<2,111.25	2,115.38	2,117.17	2,116.14	2,115.26
31	<2,111.25	---	<2,111.25	<2,111.24	---	<2,111.25	---	<2,111.25	---	2,117.14	2,116.11	---
MEAN	2,111.25	2,111.25	2,111.25	2,111.25	2,111.25	2,111.25	2,111.25	2,111.26	2,112.73	2,117.63	2,116.59	2,115.56
MAX	2,111.26	2,111.27	2,111.26	2,111.25	2,111.27	2,111.27	2,111.27	2,111.29	2,115.39	2,118.68	2,117.09	2,116.07
MIN	2,111.25	2,111.24	2,111.24	2,111.24	2,111.24	2,111.24	2,111.24	2,111.24	2,111.25	2,117.14	2,116.11	2,115.24
(+)									89.7	146	112	86.4
(#)										+56.3	-34	-25.6

CAL YR 2003 ..... (#) not determined
WTR YR 2004 ..... (#) not determined

+ CONTENTS, IN ACRE-FEET, AT END OF MONTH.
# CHANGE IN CONTENTS, IN ACRE-FEET.

< Actual value is known to be less than the value shown

07141780 WALNUT CREEK AT NEKOMA, KS

LOCATION.--Lat 38°28'38", long 99°26'16", in SW ¼ NW ¼ NW ¼ sec.21, T.18 S., R.19 W., Rush County, Hydrologic Unit 11030008, on right bank at downstream side of bridge 1,000 ft north of State Highway 96, 7.0 mi west of Rush Center.

DRAINAGE AREA.--1,256 mi^2, of which 104 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1969 to current year. Published as "near Rush Center" October 1969 to September 1995.

GAGE.--Water-stage recorder. Datum of gage is 2,004.27 ft above NGVD of 1988.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Natural flow affected by ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 3	0645	*861	*18.10	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.95	e1.0	1.8	1.3	1.8	0.04	160	25	2.1
2	0.00	0.00	0.00	0.99	e1.0	1.8	1.2	2.2	0.00	550	13	1.7
3	0.00	0.00	0.00	0.93	e1.1	1.8	1.2	2.0	0.00	784	8.9	0.99
4	0.00	0.00	0.00	0.61	e1.2	2.6	1.2	1.9	0.00	260	6.5	0.79
5	0.00	0.00	0.00	0.61	e1.2	3.2	1.1	1.7	0.00	118	4.8	0.90
6	0.00	0.00	0.00	0.32	e1.1	3.4	1.2	1.5	0.00	78	3.8	0.81
7	0.00	0.00	0.00	0.45	e1.0	3.4	1.3	1.3	0.00	59	3.2	0.39
8	0.00	0.00	0.00	0.71	e1.1	2.7	1.2	0.90	0.00	46	2.5	0.11
9	0.00	0.00	0.00	1.2	e1.2	4.1	1.3	0.53	0.00	36	2.0	0.05
10	0.00	0.00	0.00	1.2	e1.9	3.8	1.4	0.60	0.00	29	2.0	0.00
11	0.00	0.00	0.00	1.2	e2.6	2.9	1.4	0.85	0.00	23	2.5	0.00
12	0.00	0.00	0.00	1.3	e3.5	2.3	1.3	0.83	0.00	19	2.3	0.00
13	0.00	0.00	0.00	1.3	e4.0	2.3	1.1	0.45	0.00	15	2.2	0.00
14	0.00	0.00	0.43	1.3	4.5	2.0	1.2	0.21	0.00	13	1.9	0.00
15	0.00	0.00	0.83	1.6	e4.3	1.9	1.7	0.14	0.00	10	2.2	0.00
16	0.00	0.00	0.70	1.9	4.2	1.7	1.7	0.33	0.00	7.8	2.7	0.00
17	0.00	0.00	0.60	1.9	4.3	1.6	1.6	1.9	0.02	6.2	2.7	0.00
18	0.00	0.00	0.66	e1.7	4.6	1.5	1.7	1.7	8.9	5.6	10	0.00
19	0.00	0.00	0.82	1.7	4.5	1.7	1.4	28	2.9	4.0	148	0.00
20	0.00	0.00	0.91	1.7	4.6	1.6	1.4	27	466	3.3	141	0.00
21	0.00	0.00	1.0	e1.6	e4.0	1.4	1.4	11	526	3.3	26	0.00
22	e0.00	0.00	1.2	1.5	3.6	1.4	1.0	4.5	227	17	11	0.00
23	e0.00	0.00	1.3	1.5	e3.4	1.4	0.76	2.1	96	56	6.6	0.00
24	e0.00	0.00	1.2	e1.3	e3.2	1.5	1.2	1.1	46	21	5.1	0.00
25	e0.00	0.00	1.1	e1.1	e3.2	1.4	1.2	0.76	27	10	3.8	0.00
26	e0.00	0.00	1.2	e1.0	3.1	1.5	1.1	0.49	17	6.6	3.3	0.96
27	e0.00	0.00	1.1	e1.0	2.1	1.4	1.3	0.34	8.4	5.5	3.3	1.6
28	e0.00	0.00	0.97	e1.0	1.8	1.4	1.7	0.34	5.5	4.8	2.8	2.7
29	0.00	0.00	0.94	e1.0	1.8	1.4	1.0	0.22	3.4	7.9	2.7	2.1
30	0.00	0.00	0.92	e1.0	---	1.4	1.1	0.20	3.3	74	2.5	1.7
31	0.00	---	0.96	e1.0	---	1.3	---	0.12	---	81	2.3	---
MEAN	0.00	0.00	0.54	1.18	2.73	2.05	1.29	3.13	47.9	81.1	14.7	0.56
MAX	0.00	0.00	1.3	1.9	4.6	4.1	1.7	28	526	784	148	2.7
MIN	0.00	0.00	0.00	0.32	1.0	1.3	0.76	0.12	0.00	3.3	1.9	0.00
AC-FT	0.00	0.00	33	73	157	126	77	192	2,850	4,990	906	34

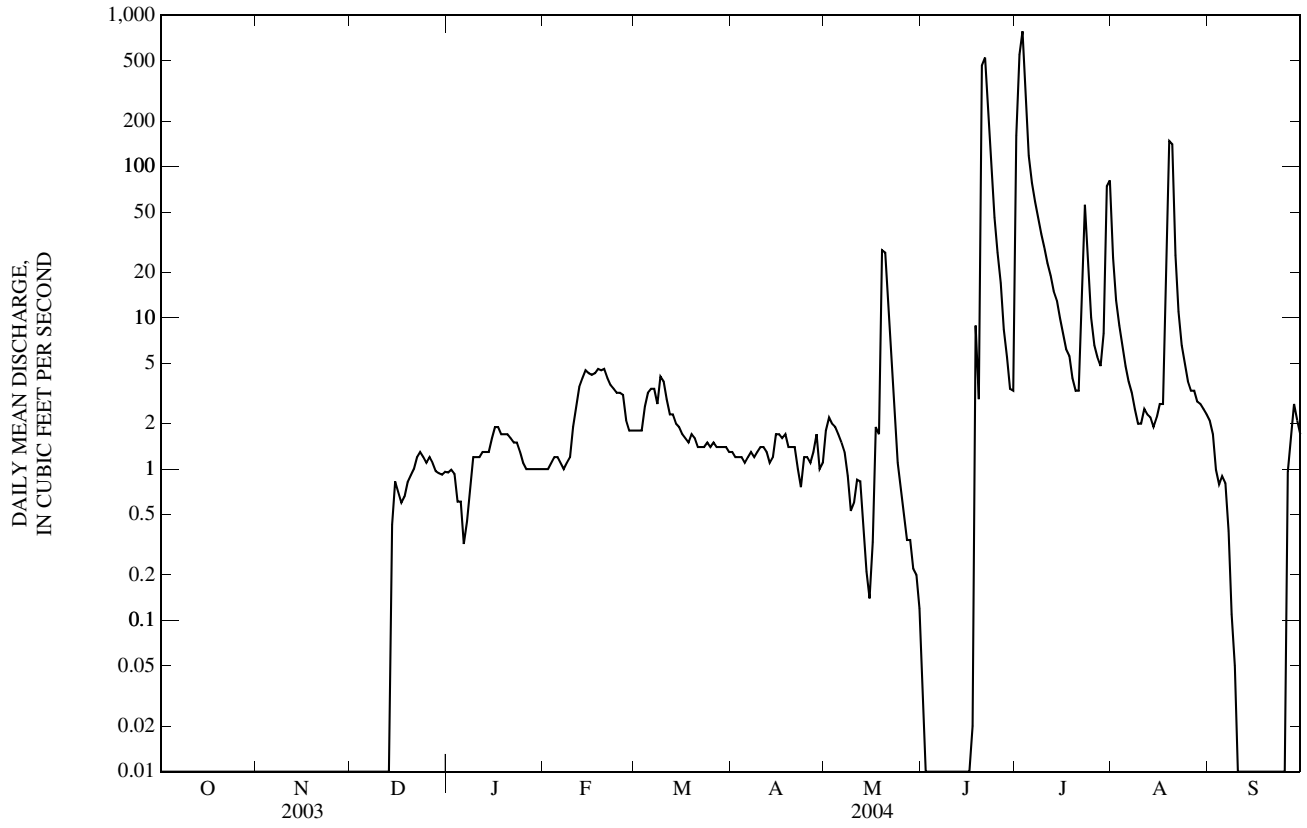
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	6.47	8.53	5.17	6.21	9.42	34.6	37.3	17.7	46.2	69.3	26.4	16.0
MAX	60.4	125	29.5	61.1	88.0	349	553	96.2	308	969	164	150
(WY)	(1974)	(1997)	(1974)	(1974)	(1993)	(1973)	(1987)	(1973)	(2001)	(1993)	(1999)	(1972)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1971)	(1971)	(1971)	(1971)	(1978)	(1978)	(1972)	(1983)	(1977)	(1977)	(1970)	(1970)

07141780 WALNUT CREEK AT NEKOMA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL MEAN	2.83		13.0		23.7	
HIGHEST ANNUAL MEAN					129	1993
LOWEST ANNUAL MEAN					0.00	1983
HIGHEST DAILY MEAN	15	Mar 23	784	Jul 3	5,690	Jul 22, 1993
LOWEST DAILY MEAN	0.00	Jul 19	0.00	Oct 1	0.00	May 21, 1970
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 19	0.00	Oct 1	0.00	Jul 24, 1970
MAXIMUM PEAK FLOW			861	Jul 3	5,790	Jul 21, 1993
MAXIMUM PEAK STAGE			18.10	Jul 3	34.00	Jul 21, 1993
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many years
ANNUAL RUNOFF (AC-FT)	2,050		9,430		17,160	
10 PERCENT EXCEEDS	6.2		10		28	
50 PERCENT EXCEEDS	2.2		1.2		1.7	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



07141890 WET WALNUT WATERSHED STRUCTURE NO. 2 NEAR OTIS, KS

LOCATION.--Lat 38°30'40", long 99°04'25", in SE ¼ SE ¼ NW ¼ sec.03, T.18 S., R.16 W., Rush County, Hydrologic Unit 11030008, on upstream face of dam, 1.5 mi south and 1 mi west of Otis.

DRAINAGE AREA.--5.9 mi^2.

PERIOD OF RECORD.--November 1994 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Natural Resources Conservation Service).

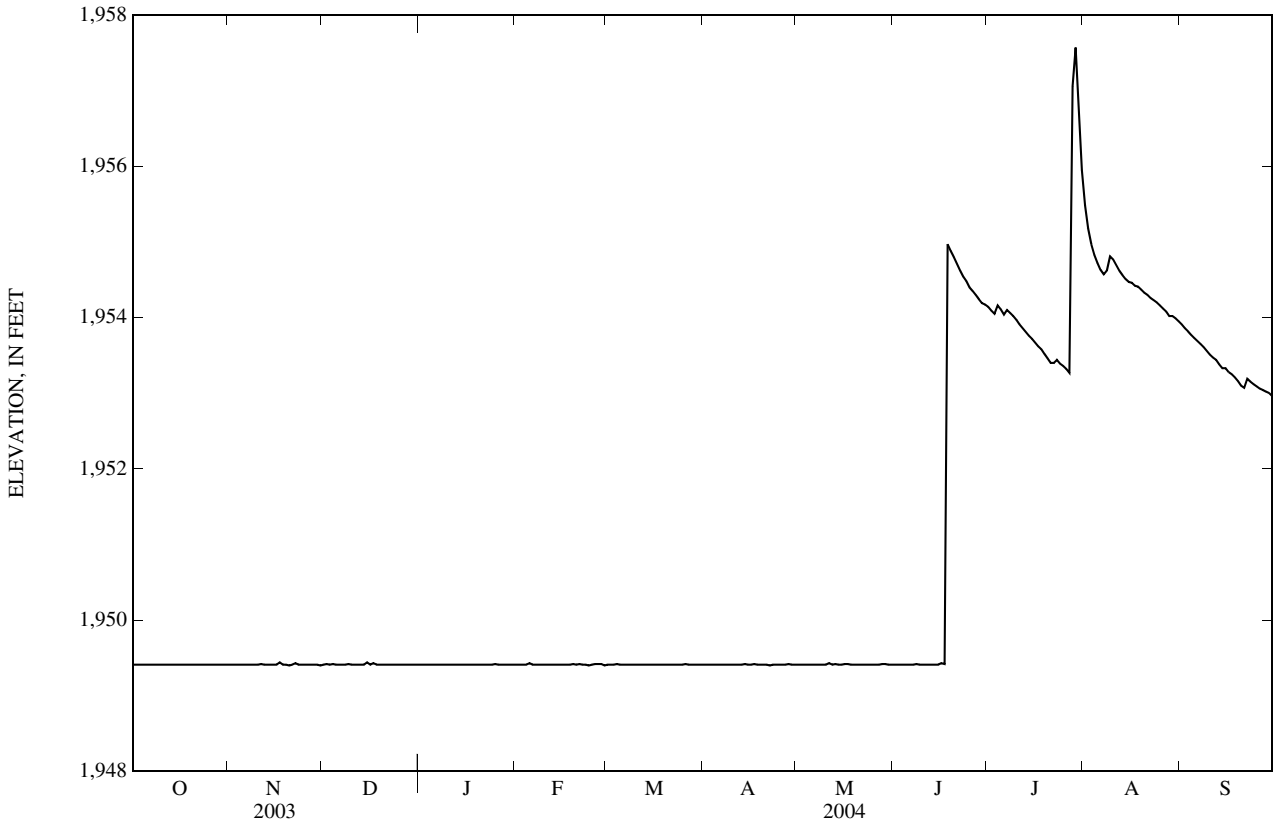
REMARKS.--Water elevations are not recorded below 1,949.42 ft, Oct. 1, 2002 to May 23, 2003, and July 24, 2003, to Sept. 30, 2003. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation 1,962.11 ft, Nov. 16, 1997, contents, 543 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,958.13 ft, July 29, contents, 260 acre-ft; minimum elevation, less than 1,949.42 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on field survey by Natural Resources Conservation Service)

Elevation	Contents	Elevation	Contents	Elevation	Contents
1,949	10.2	1,953	70.2	1,959	311



07141890 WET WALNUT WATERSHED STRUCTURE NO. 2 NEAR OTIS, KS—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.14	1,955.48	1,953.91
2	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.09	1,955.18	1,953.86
3	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.05	1,954.97	1,953.82
4	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	1,954.16	1,954.83	1,953.77
5	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.43	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.11	1,954.72	1,953.73
6	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.04	1,954.63	1,953.69
7	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.10	1,954.57	1,953.65
8	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	1,954.06	1,954.62	1,953.61
9	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.02	1,954.81	1,953.56
10	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,953.97	1,954.77	1,953.51
11	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.43	<1,949.41	1,953.91	1,954.69	1,953.47
12	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,953.86	1,954.62	1,953.44
13	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.41	1,953.81	1,954.56	1,953.38
14	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	1,953.76	1,954.51	1,953.33
15	<1,949.41	<1,949.41	<1,949.44	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,953.72	1,954.47	1,953.33
16	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.43	1,953.67	1,954.46	1,953.28
17	<1,949.41	<1,949.44	<1,949.43	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.42	<1,949.42	1,953.62	1,954.42	1,953.25
18	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.97	1,953.58	1,954.41	1,953.21
19	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	1,954.88	1,953.52	1,954.37	1,953.16
20	<1,949.41	<1,949.40	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.80	1,953.46	1,954.33	1,953.10
21	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	1,954.71	1,953.40	1,954.30	1,953.07
22	<1,949.41	<1,949.43	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.40	<1,949.41	1,954.62	1,953.40	1,954.26	1,953.19
23	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.54	1,953.44	1,954.23	1,953.15
24	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.40	<1,949.41	<1,949.41	<1,949.41	1,954.48	1,953.39	1,954.20	1,953.12
25	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	<1,949.41	1,954.40	1,953.36	1,954.16	1,953.09
26	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.42	<1,949.41	<1,949.41	1,954.35	1,953.32	1,954.12	1,953.06
27	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.41	<1,949.41	1,954.30	1,953.27	1,954.08	1,953.04
28	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.42	<1,949.41	<1,949.42	<1,949.42	1,954.24	1,957.06	1,954.02	1,953.02
29	<1,949.41	<1,949.41	<1,949.41	<1,949.41	<1,949.40	<1,949.41	<1,949.41	<1,949.42	1,954.19	1,957.57	1,954.02	1,953.00
30	<1,949.41	<1,949.40	<1,949.41	<1,949.41	---	<1,949.41	<1,949.41	<1,949.41	1,954.17	1,956.69	1,953.99	1,952.96
31	<1,949.41	---	<1,949.41	<1,949.41	---	<1,949.41	---	<1,949.41	---	1,955.95	1,953.95	---
MEAN	1,949.41	1,949.41	1,949.41	1,949.41	1,949.41	1,949.41	1,949.41	1,949.41	1,951.62	1,954.14	1,954.48	1,953.36
MAX	1,949.41	1,949.44	1,949.44	1,949.42	1,949.43	1,949.42	1,949.42	1,949.43	1,954.97	1,957.57	1,955.48	1,953.91
MIN	1,949.41	1,949.40	1,949.41	1,949.41	1,949.40	1,949.41	1,949.40	1,949.41	1,949.41	1,953.27	1,953.95	1,952.96
(+)									102	166	95.4	69.3
(#)										+64	-70.6	-26.1

CAL YR 2003 ..... (#) not determined
WTR YR 2004 ..... (#) not determined

+ CONTENTS, IN ACRE-FEET, AT END OF MONTH.
# CHANGE IN CONTENTS, IN ACRE-FEET.

< Actual value is known to be less than the value shown

07141900 WALNUT CREEK AT ALBERT, KS

LOCATION.--Lat 38°27'42", long 99°00'52", in SW ¼ NW ¼ NW ¼ sec.29, T.18 S., R.15 W., Barton County, Hydrologic Unit 11030008, on left bank at downstream side of county highway bridge, 0.2 mi north of Albert, 14 mi northwest of Great Bend, and at mile 43.0.

DRAINAGE AREA.--1,410 mi^2, approximately, of which 104 mi^2 is probably noncontributing.

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,897.37 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good. Natural flow affected by ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1927 reached a stage of 21.3 ft, from floodmark and information by local residents (discharge not determined, but due to levees built in 1934 is substantially greater than indicated by current rating).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 29	0400	*1,000	*13.97	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

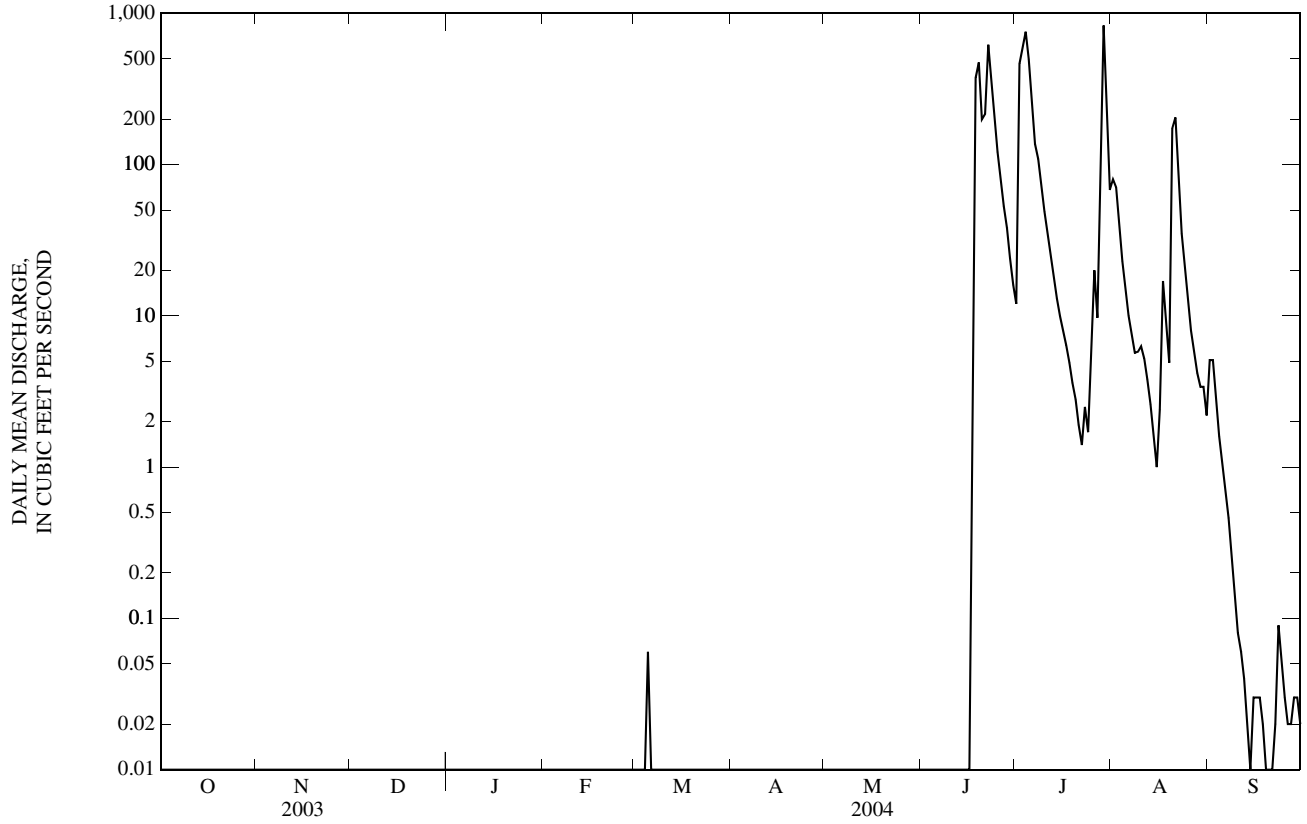
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	80	5.1
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	465	71	5.1
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	583	38	2.8
4	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	756	23	1.6
5	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	497	15	1.1
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	239	10	0.70
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137	7.5	0.46
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109	5.7	0.26
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75	5.8	0.15
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49	6.3	0.08
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	5.2	0.06
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	3.8	0.04
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18	2.6	0.02
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	1.7	0.01
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	1.0	0.03
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0	2.4	0.03
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.1	6.4	17	0.03
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	375	4.9	9.5	0.02
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	474	3.6	4.9	0.01
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	199	2.8	173	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	216	1.9	205	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	620	1.4	78	0.02
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	370	2.5	35	0.09
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	212	1.7	22	0.05
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121	7.1	13	0.03
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78	20	8.0	0.02
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53	9.7	5.7	0.02
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38	67	4.2	0.03
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	831	3.4	0.03
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	16	256	3.4	0.02
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	68	2.2	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.3	139	27.8	0.60
MAX	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	620	831	205	5.1
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	1.0	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	5,550	8,560	1,710	36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	30.3	20.9	10.2	10.8	17.9	56.4	54.9	43.3	97.9	97.7	57.3	75.4
MAX	492	352	89.7	116	271	576	779	248	1,015	1,038	508	1,370
(WY)	(1960)	(1997)	(1974)	(1974)	(1993)	(1960)	(1987)	(2001)	(1967)	(1993)	(1961)	(1959)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1965)	(1967)	(1967)	(1978)	(1981)	(1967)	(1981)	(1966)	(1985)	(1980)	(1983)	(1964)

07141900 WALNUT CREEK AT ALBERT, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL MEAN	4.02		21.8		47.8	
HIGHEST ANNUAL MEAN					189	1993
LOWEST ANNUAL MEAN					0.09	1983
HIGHEST DAILY MEAN	124	May 25	831	Jul 29	10,300	Sep 23, 1959
LOWEST DAILY MEAN	0.00	Jul 17	0.00	Oct 1	0.00	Jul 29, 1961
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 17	0.00	Oct 1	0.00	Jul 5, 1963
MAXIMUM PEAK FLOW			1,000	Jul 29	12,700	Sep 22, 1959
MAXIMUM PEAK STAGE			13.97	Jul 29	25.75	Sep 22, 1959
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	2,910		15,860		34,640	
10 PERCENT EXCEEDS	8.2		21		59	
50 PERCENT EXCEEDS	2.5		0.00		2.8	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



07142020 WALNUT CREEK BELOW CHEYENNE BOTTOMS DIVERSION NEAR GREAT BEND, KS

LOCATION.--Lat 38°25'08", long 98°45'53", in SW ¼ NW ¼ NE ¼ sec.09, T.19 S., R.13 W., Barton County, Hydrologic Unit 11030008, on left bank at downstream side of Cheyenne Bottoms diversion gate structure, 3 mi north of Great Bend, and at mile 13.5.

DRAINAGE AREA.--1,500 mi^2, does not include Dry Walnut Creek Basin, or any portion of the Arkansas River Basin above the Dundee diversion.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,826.00 ft above NGVD of 1929.

REMARKS.--Records poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

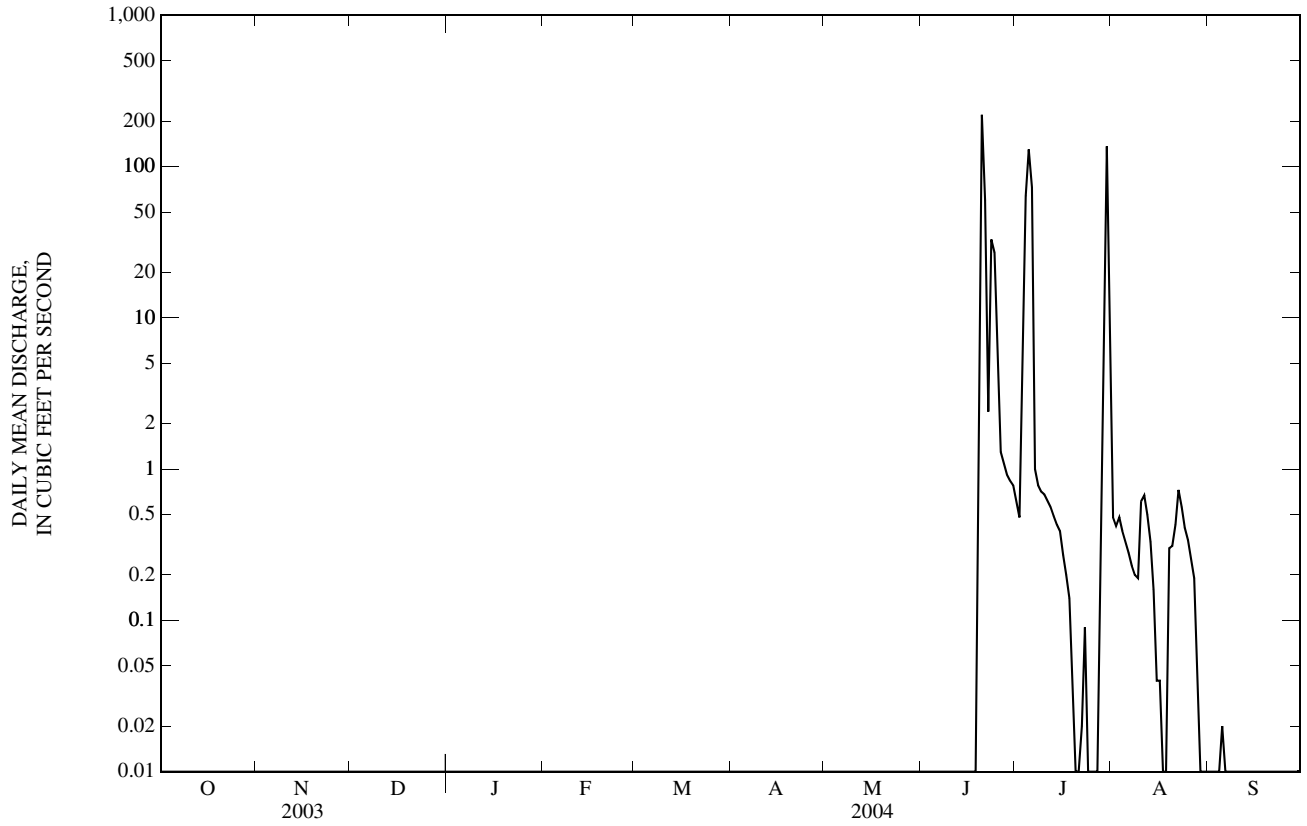
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.48	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.42	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.8	0.48	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64	0.39	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130	0.33	0.02
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73	0.28	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0	0.23	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.20	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.19	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.61	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.67	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.50	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.33	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.16	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.04	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.6	0.04	0.30	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	220	0.00	0.31	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60	0.00	0.43	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.4	0.02	0.73	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33	0.09	0.56	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	0.01	0.41	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.8	0.00	0.34	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.26	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.19	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.08	0.06	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.55	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.78	136	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	12	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.0	13.8	0.29	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	220	136	0.73	0.02
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	716	849	18	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

MEAN	10.2	24.8	9.10	10.0	14.7	27.3	38.3	64.7	82.1	58.9	69.3	28.7
MAX	30.0	169	56.5	37.8	59.2	103	122	195	360	238	201	153
(WY)	(1997)	(1997)	(1997)	(1997)	(1998)	(2000)	(1998)	(1995)	(2001)	(1999)	(1999)	(1996)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.02	0.00	0.00
(WY)	(2004)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2002)	(2003)	(2004)

07142020 WALNUT CREEK BELOW CHEYENNE BOTTOMS DIVERSION NEAR GREAT BEND, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL MEAN	0.14		2.18		36.6	
HIGHEST ANNUAL MEAN					69.7	1999
LOWEST ANNUAL MEAN					0.26	2003
HIGHEST DAILY MEAN	3.1	May 26	220	Jun 20	809	Jun 11, 2001
LOWEST DAILY MEAN	0.00	Apr 10	0.00	Oct 1	0.00	Oct 1, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 10	0.00	Oct 1	0.00	Jul 8, 2002
MAXIMUM PEAK FLOW			398	Jun 20	1,170	Sep 18, 2001
MAXIMUM PEAK STAGE			15.82	Jun 20	21.58	Sep 18, 2001
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1995
ANNUAL RUNOFF (AC-FT)	99		1,580		26,520	
10 PERCENT EXCEEDS	0.38		0.43		74	
50 PERCENT EXCEEDS	0.03		0.00		2.1	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



07142300 RATTLESNAKE CREEK NEAR MACKSVILLE, KS

LOCATION.--Lat 37°52'18", long 98°52'33", in SW $^1/_4$ SW $^1/_4$ sec.16, T.25 S., R.14 W., Stafford County, Hydrologic Unit 11030009, on left bank at downstream side of county highway bridge, 8 mi southeast of Macksville, and at mile 87.5.

DRAINAGE AREA.--784 mi^2, of which about 428 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,963.46 ft above NGVD of 1929 (Stafford County bench mark). Prior to July 14, 1960, nonrecording gage and crest-stage gages at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 27	1615	*7.2	*3.30	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	e0.20	e0.17	2.0	0.59	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	e0.20	e0.14	2.2	0.53	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	e0.20	0.46	1.7	0.20	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	e0.20	1.0	1.3	0.21	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	e0.20	4.6	1.3	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	e0.20	2.8	1.2	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	e0.20	1.2	1.6	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	e0.20	0.58	1.3	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	e0.20	0.35	1.5	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	e0.20	0.44	1.7	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	e0.20	0.37	1.7	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	e0.20	0.42	1.4	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	e0.20	0.49	1.1	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	e0.20	0.43	0.95	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	e0.20	0.49	0.82	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	e0.20	0.49	0.66	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	e0.20	0.51	0.43	1.9	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	e0.67	0.52	0.10	1.7	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	e0.21	0.54	0.15	1.6	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	e0.15	0.54	0.90	0.09	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	e0.11	0.50	0.88	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	e0.13	0.55	0.92	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	e0.09	0.56	1.1	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	e0.07	0.57	1.4	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	e0.10	0.59	1.5	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	e0.09	e0.07	1.0	0.90	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	e0.18	e0.11	3.6	0.51	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	e0.20	e0.14	3.8	0.11	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	e0.20	e0.28	3.4	0.08	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	e0.20	---	2.1	0.16	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	e0.20	---	2.0	---	0.00	---	0.00	0.00	---
MEAN	0.00	0.00	0.00	0.03	0.19	1.14	1.05	0.22	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.20	0.67	4.6	2.2	1.9	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.07	0.14	0.08	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	2.1	11	70	63	14	0.00	0.00	0.00	0.00

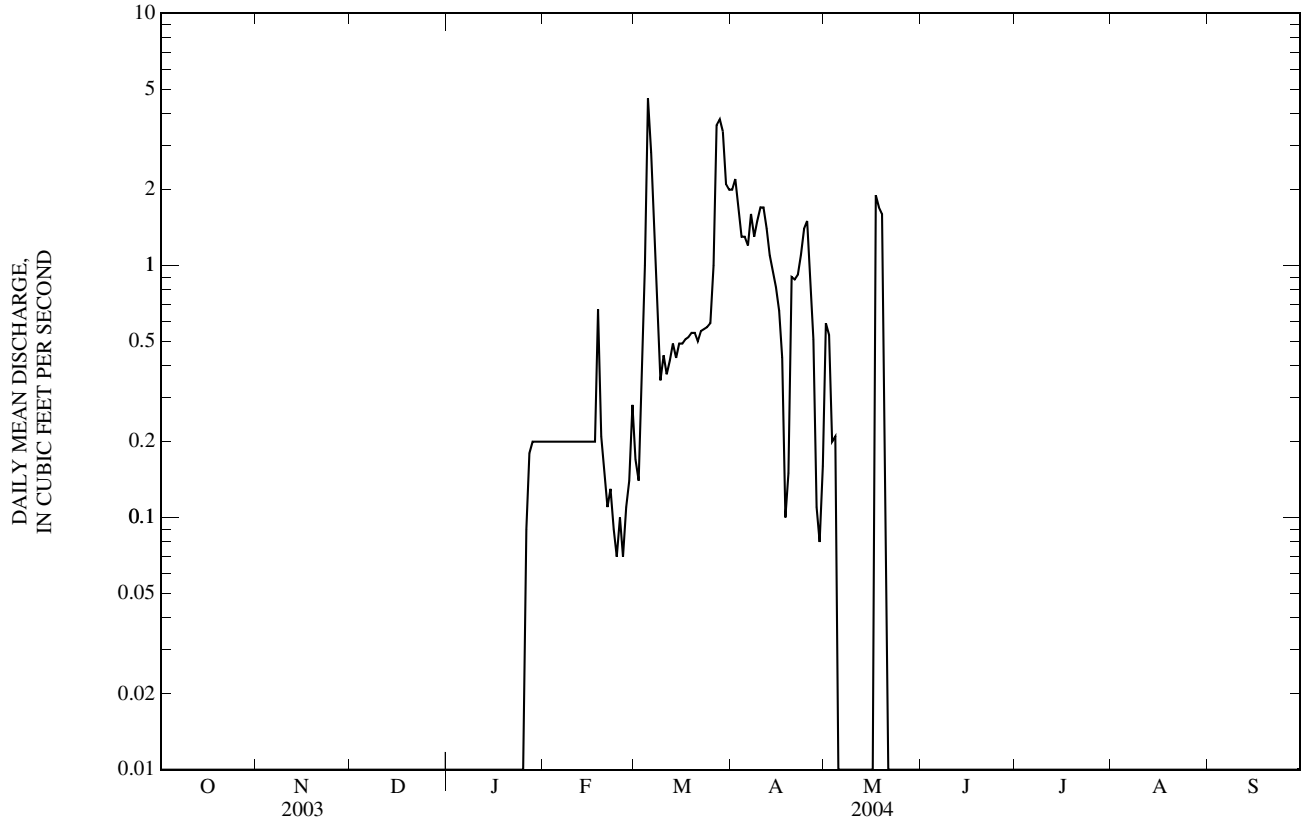
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	21.7	17.6	17.5	17.2	19.1	29.1	27.7	32.6	36.0	21.5	15.6	33.8
MAX	322	118	124	94.1	89.7	188	247	156	248	179	68.4	671
(WY)	(1974)	(1974)	(1974)	(1974)	(1974)	(1973)	(1973)	(1995)	(1975)	(1993)	(1975)	(1973)
MIN	0.00	0.00	0.00	0.03	0.09	0.10	0.19	0.07	0.00	0.00	0.00	0.00
(WY)	(1992)	(2004)	(2004)	(2004)	(1992)	(1992)	(1992)	(1992)	(2004)	(2004)	(1991)	(1991)

07142300 RATTLESNAKE CREEK NEAR MACKSVILLE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL MEAN	2.78		0.22		24.1	
HIGHEST ANNUAL MEAN					110	1973
LOWEST ANNUAL MEAN					0.22	2004
HIGHEST DAILY MEAN	17	Jun 7	4.6	Mar 5	7,330	Sep 27, 1973
LOWEST DAILY MEAN	0.00	Jul 12	0.00	Oct 1	0.00	Sep 5, 1982
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 12	0.00	Oct 1	0.00	Aug 12, 1988
MAXIMUM PEAK FLOW			7.2	Mar 27	17,700	Sep 26, 1973
MAXIMUM PEAK STAGE			3.30	Mar 27	11.02	Sep 26, 1973
INSTANTANEOUS LOW FLOW			0.00	Apr 18	0.00	at times
ANNUAL RUNOFF (AC-FT)	2,010		159		17,470	
10 PERCENT EXCEEDS	6.7		0.66		39	
50 PERCENT EXCEEDS	0.97		0.00		14	
90 PERCENT EXCEEDS	0.00		0.00		0.59	

e Estimated



07142575 RATTLESNAKE CREEK NEAR ZENITH, KS

LOCATION.--Lat 38°05'37", long 98°32'45", in SW ¼ SW ¼ NW ¼ sec.33, T.22 S., R.11 W., Stafford County, Hydrologic Unit 11030009, on left bank at downstream side of county highway bridge, 3.0 mi west and 9.5 mi north of Zenith, and at mile 19.3.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--1,047 mi^2, of which 519 mi^2 is noncontributing.

PERIOD OF RECORD.--May 1973 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,790 ft above sea level, from topographic map. Prior to Aug. 9, 1995, water- stage recorder at site 2.8 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow affected by ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	2000	*119	*13.29	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	5.6	6.9	9.1	e8.2	12	15	14	6.7	7.7	22	11
2	4.0	5.7	7.2	9.1	e7.0	12	14	13	6.7	8.0	16	10
3	4.7	6.0	7.2	9.0	e6.0	13	14	13	7.1	7.4	13	9.4
4	4.7	6.3	7.9	9.0	e7.0	29	13	12	6.8	8.4	11	8.7
5	4.7	6.5	7.5	e8.0	e6.7	106	13	12	7.6	9.3	9.4	9.1
6	4.5	6.5	7.3	e5.0	e6.0	84	13	11	9.7	23	8.7	9.5
7	4.4	6.5	8.0	e5.6	e5.0	47	13	11	8.3	30	8.4	6.3
8	6.7	6.5	7.8	e6.4	e6.0	34	13	11	7.4	20	8.2	6.2
9	26	6.4	e7.4	e6.0	e7.0	28	13	10	6.8	15	8.7	5.9
10	27	6.5	e7.0	e5.4	e8.0	26	14	10	7.0	13	8.9	5.3
11	15	6.5	e6.6	e8.0	e8.0	24	14	11	6.9	11	11	4.7
12	9.0	6.2	e7.0	11	e7.4	22	14	10	6.4	9.9	11	5.0
13	7.4	6.2	e6.6	10	e7.0	22	14	11	6.1	9.0	9.7	5.0
14	6.9	6.3	e9.0	10	e7.6	21	14	12	6.2	8.4	8.5	4.8
15	6.8	6.2	e11	12	e7.4	20	13	11	6.0	7.8	7.8	4.7
16	6.5	6.3	e10	14	e9.0	20	12	11	6.0	7.4	32	4.6
17	6.4	6.7	e9.0	12	e10	19	12	34	7.0	7.4	36	4.5
18	6.3	6.3	e10	11	12	17	12	80	7.7	7.1	17	4.6
19	6.1	6.3	e10	9.8	12	17	12	49	9.7	6.7	17	5.0
20	5.8	6.2	11	11	12	16	13	27	13	6.2	25	4.6
21	5.5	6.1	10	12	12	16	13	19	18	5.8	67	5.1
22	5.5	6.3	10	11	11	16	13	15	19	6.0	81	5.8
23	5.5	6.7	9.8	10	11	16	13	13	14	14	41	9.8
24	5.3	e6.6	9.9	10	10	15	14	11	12	88	33	8.9
25	5.2	7.1	10	11	10	14	14	10	10	105	34	8.0
26	5.3	7.4	9.7	e9.9	10	14	13	9.8	9.7	69	25	7.7
27	5.4	7.2	9.4	e7.0	11	16	13	9.2	9.3	34	21	7.1
28	5.4	7.0	9.2	e8.2	10	16	12	8.4	8.7	22	18	7.0
29	5.5	7.2	9.2	e7.6	11	16	12	8.0	8.1	19	16	7.1
30	5.4	7.0	9.3	e7.0	---	15	13	7.7	7.6	25	14	7.1
31	5.3	---	9.2	e7.8	---	15	---	7.0	---	31	12	---
MEAN	7.29	6.48	8.71	9.13	8.80	24.5	13.2	15.8	8.85	20.7	21.0	6.75
MAX	27	7.4	11	14	12	106	15	80	19	105	81	11
MIN	3.8	5.6	6.6	5.0	5.0	12	12	7.0	6.0	5.8	7.8	4.5
AC-FT	448	385	536	561	506	1,500	783	974	527	1,270	1,290	402

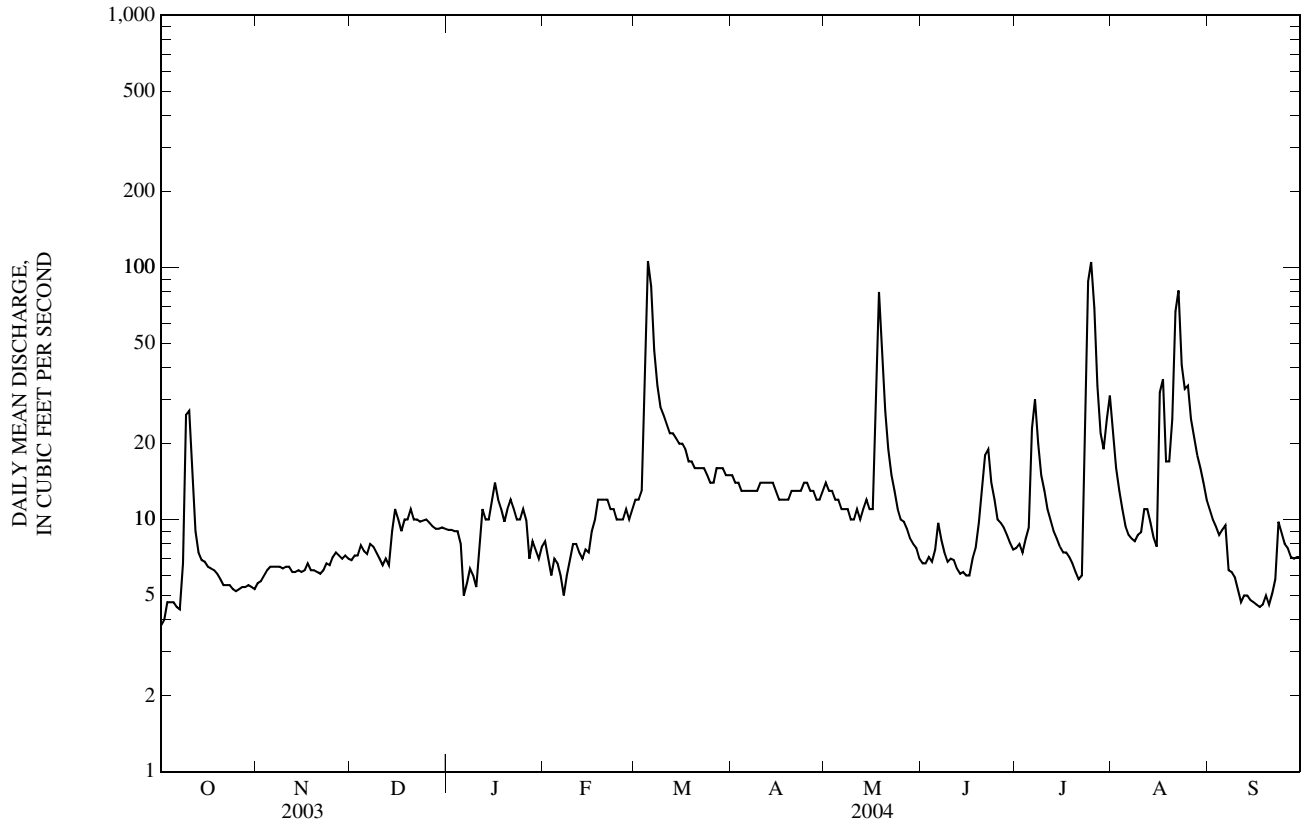
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

MEAN	40.5	31.1	36.5	35.2	42.0	61.1	61.5	71.9	74.6	69.1	20.3	16.7
MAX	691	185	270	192	141	207	272	371	596	1,099	79.5	93.3
(WY)	(1974)	(1974)	(1974)	(1974)	(1974)	(1987)	(1976)	(1995)	(1993)	(1993)	(1975)	(1996)
MIN	0.05	3.27	5.56	6.48	6.64	7.78	6.47	5.24	8.85	1.54	0.88	0.09
(WY)	(1992)	(1985)	(1992)	(1992)	(1992)	(1992)	(1992)	(1992)	(2004)	(1991)	(1991)	(1991)

07142575 RATTLESNAKE CREEK NEAR ZENITH, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL MEAN	15.7		12.7		46.8	
HIGHEST ANNUAL MEAN					186	1993
LOWEST ANNUAL MEAN					6.59	1991
HIGHEST DAILY MEAN	244	Mar 20	106	Mar 5	13,600	Jul 19, 1993
LOWEST DAILY MEAN	1.7	Aug 22	3.8	Oct 1	0.00	Sep 14, 1984
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 22	4.4	Oct 1	0.00	Sep 11, 1991
MAXIMUM PEAK FLOW			119	Mar 5	29,300	Jul 18, 1993
MAXIMUM PEAK STAGE			13.29	Mar 5	17.18	Jul 2, 1999
INSTANTANEOUS LOW FLOW			3.7	Oct 1	0.00	Sep 14, 1984
ANNUAL RUNOFF (AC-FT)	11,360		9,190		33,870	
10 PERCENT EXCEEDS	27		21		79	
50 PERCENT EXCEEDS	10		9.4		26	
90 PERCENT EXCEEDS	3.2		5.8		4.6	

e Estimated



07142575 RATTLESNAKE CREEK NEAR ZENITH, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1998 to November 2003 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1998 to November 2003 (discontinued).
pH: November 1998 to November 2003 (discontinued) .
WATER TEMPERATURE: November 1998 to November 2003 (discontinued).
DISSOLVED OXYGEN: November 1998 to November 2003 (discontinued).
TURBIDITY (YSI 6026 sensor): November 1998 to November 2003 (discontinued).

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions or malfunction of the recording instrument or sensors. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs International (YSI) 6026 sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 12,000 microsiemens/cm, Aug. 23, 2003; minimum, 164 microsiemens/cm, Mar. 25, 2000.
pH: Maximum, 9.4 standard units, Aug. 4, 2000; minimum, 7.2 standard units, June 10, 2001.
WATER TEMPERATURE: Maximum, 36.5°C, July 29, 2001; minimum, -0.3°C, Nov. 28, 2003.
DISSOLVED OXYGEN: Maximum, 19.3 mg/L, Aug. 6, 1999; minimum, 1.1 mg/L, Aug. 23, 2003.
TURBIDITY (YSI 6026 sensor): Maximum, 950 FNU, Feb. 26, 2001; minimum, 4 FNU, Sept. 15, 2000.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 9,730 microsiemens/cm, Nov. 24; minimum, 2,780 microsiemens/cm, Oct. 9.
pH: Maximum, 9.0 standard units, Nov. 11; minimum, 7.6 standard units, Oct. 9.
WATER TEMPERATURE: Maximum, 26.1°C, Oct. 6; minimum, -0.3°C, Nov. 23.
DISSOLVED OXYGEN: Maximum, 17.2 mg/L, Nov. 11; minimum, 5.0 mg/L, Oct. 9.
TURBIDITY (YSI 6026 sensor): Maximum, 230 FNU, Oct. 8; minimum, 4.3 FNU, Oct. 18.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9,250	8,920	9,100	8,670	8,580	8,630	---	---	---	---	---	---
2	9,240	8,760	9,100	8,600	8,450	8,530	---	---	---	---	---	---
3	9,010	8,340	8,530	8,480	8,370	8,410	---	---	---	---	---	---
4	8,610	8,390	8,550	8,370	8,050	8,270	---	---	---	---	---	---
5	8,610	8,460	8,530	8,320	8,200	8,250	---	---	---	---	---	---
6	8,590	8,430	8,510	8,260	7,910	8,130	---	---	---	---	---	---
7	8,630	8,420	8,510	8,250	7,990	8,160	---	---	---	---	---	---
8	8,520	4,660	7,230	8,260	8,120	8,170	---	---	---	---	---	---
9	4,960	2,780	3,730	8,200	8,120	8,150	---	---	---	---	---	---
10	4,050	3,330	3,540	8,170	8,050	8,110	---	---	---	---	---	---
11	4,720	3,350	3,910	8,170	8,060	8,100	---	---	---	---	---	---
12	6,330	4,720	5,790	8,320	8,090	8,220	---	---	---	---	---	---
13	6,520	6,330	6,470	8,410	8,240	8,330	---	---	---	---	---	---
14	6,660	6,370	6,510	8,440	---	---	---	---	---	---	---	---
15	7,000	6,550	6,740	---	---	---	---	---	---	---	---	---
16	7,680	7,000	7,440	8,530	8,380	8,470	---	---	---	---	---	---
17	8,100	7,660	7,920	8,470	6,940	8,090	---	---	---	---	---	---
18	8,380	8,100	8,280	8,470	8,120	8,330	---	---	---	---	---	---
19	8,370	8,170	8,250	8,540	8,340	8,440	---	---	---	---	---	---
20	8,520	8,310	8,430	8,650	8,450	8,580	---	---	---	---	---	---
21	8,630	8,440	8,540	8,740	8,510	8,620	---	---	---	---	---	---
22	8,660	8,440	8,520	8,660	8,520	8,600	---	---	---	---	---	---
23	8,940	8,500	8,720	9,570	7,800	8,710	---	---	---	---	---	---
24	8,950	8,780	8,870	9,730	7,940	9,190	---	---	---	---	---	---
25	8,980	8,840	8,910	9,280	8,300	8,720	---	---	---	---	---	---
26	8,920	8,830	8,870	8,800	8,030	8,600	---	---	---	---	---	---
27	8,890	8,790	8,830	8,570	8,400	8,490	---	---	---	---	---	---
28	8,850	8,720	8,790	9,070	7,950	8,490	---	---	---	---	---	---
29	8,790	8,610	8,720	8,720	8,050	8,360	---	---	---	---	---	---
30	8,720	8,520	8,640	8,390	8,230	8,310	---	---	---	---	---	---
31	8,680	8,550	8,620	---	---	---	---	---	---	---	---	---
MONTH	9,250	2,780	7,780	9,730	6,940	8,410	---	---	---	---	---	---

07142575 RATTLESNAKE CREEK NEAR ZENITH, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.5	8.0	8.1	8.6	8.2	8.4	---	---	---	---	---	---
2	8.5	8.0	8.2	8.5	8.1	8.3	---	---	---	---	---	---
3	8.6	8.0	8.2	8.6	8.1	8.3	---	---	---	---	---	---
4	8.5	8.0	8.3	8.7	8.2	8.4	---	---	---	---	---	---
5	8.6	8.0	8.3	8.5	8.2	8.4	---	---	---	---	---	---
6	8.6	8.0	8.3	8.6	8.2	8.4	---	---	---	---	---	---
7	8.6	8.0	8.3	8.6	8.2	8.4	---	---	---	---	---	---
8	8.3	7.8	8.1	8.6	8.2	8.3	---	---	---	---	---	---
9	7.9	7.6	7.8	8.7	8.2	8.3	---	---	---	---	---	---
10	8.0	7.7	7.8	8.8	8.1	8.3	---	---	---	---	---	---
11	8.2	7.8	7.9	9.0	8.1	8.4	---	---	---	---	---	---
12	8.3	7.8	8.0	9.0	8.1	8.6	---	---	---	---	---	---
13	8.3	7.9	8.1	8.8	8.3	8.5	---	---	---	---	---	---
14	8.5	8.0	8.1	8.8	8.3	8.5	---	---	---	---	---	---
15	8.6	8.0	8.2	8.9	8.2	8.5	---	---	---	---	---	---
16	8.6	8.0	8.2	8.8	8.2	8.5	---	---	---	---	---	---
17	8.6	8.0	8.3	8.8	8.2	8.5	---	---	---	---	---	---
18	8.6	8.0	8.3	8.6	8.2	8.4	---	---	---	---	---	---
19	8.6	8.0	8.3	8.6	8.0	8.3	---	---	---	---	---	---
20	8.6	8.0	8.3	8.6	8.0	8.2	---	---	---	---	---	---
21	8.6	8.0	8.3	8.5	8.0	8.2	---	---	---	---	---	---
22	8.6	8.0	8.3	8.4	8.0	8.2	---	---	---	---	---	---
23	8.6	8.0	8.3	8.3	8.0	8.2	---	---	---	---	---	---
24	8.7	8.1	8.4	8.2	8.0	8.1	---	---	---	---	---	---
25	8.5	8.2	8.4	8.3	8.0	8.2	---	---	---	---	---	---
26	8.5	8.2	8.3	8.3	8.0	8.1	---	---	---	---	---	---
27	8.6	8.1	8.3	8.3	8.0	8.1	---	---	---	---	---	---
28	8.7	8.1	8.4	8.3	8.0	8.1	---	---	---	---	---	---
29	8.6	8.2	8.4	8.4	8.0	8.1	---	---	---	---	---	---
30	8.6	8.2	8.4	8.5	8.0	8.1	---	---	---	---	---	---
31	8.6	8.2	8.4	---	---	---	---	---	---	---	---	---
MAX	8.7	8.2	8.4	9.0	8.3	8.6	---	---	---	---	---	---
MIN	7.9	7.6	7.8	8.2	8.0	8.1	---	---	---	---	---	---

07142575 RATTLESNAKE CREEK NEAR ZENITH, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.8	6.9	14.1	10.5	6.2	8.2	---	---	---	---	---	---
2	15.6	9.3	12.5	11.8	8.1	10.2	---	---	---	---	---	---
3	22.8	11.4	15.6	10.0	7.9	8.6	---	---	---	---	---	---
4	17.6	10.3	14.0	11.2	5.1	7.7	---	---	---	---	---	---
5	25.0	10.5	16.8	5.1	2.9	4.1	---	---	---	---	---	---
6	26.1	12.2	18.0	9.8	2.1	4.7	---	---	---	---	---	---
7	25.6	13.4	18.6	11.4	1.1	5.5	---	---	---	---	---	---
8	19.5	15.5	17.0	7.3	3.8	5.4	---	---	---	---	---	---
9	23.5	15.6	18.9	11.8	5.1	7.6	---	---	---	---	---	---
10	22.8	18.0	19.6	15.0	7.8	10.6	---	---	---	---	---	---
11	20.9	14.8	17.7	17.8	11.3	13.7	---	---	---	---	---	---
12	20.8	10.7	15.1	12.4	6.6	9.4	---	---	---	---	---	---
13	19.4	11.5	14.5	8.0	5.2	6.4	---	---	---	---	---	---
14	20.4	8.7	13.8	12.0	3.8	7.2	---	---	---	---	---	---
15	20.9	9.5	14.6	15.6	6.8	10.1	---	---	---	---	---	---
16	19.6	10.3	14.1	14.5	4.8	9.1	---	---	---	---	---	---
17	19.2	8.5	13.1	18.1	9.0	13.3	---	---	---	---	---	---
18	23.9	10.0	16.0	12.6	5.8	9.0	---	---	---	---	---	---
19	24.6	12.4	17.8	14.2	3.5	8.2	---	---	---	---	---	---
20	25.6	13.8	18.5	12.9	5.2	8.7	---	---	---	---	---	---
21	23.5	12.5	17.5	11.0	3.2	6.7	---	---	---	---	---	---
22	25.0	12.8	18.1	9.8	3.2	5.5	---	---	---	---	---	---
23	24.4	13.3	18.0	3.3	-0.3	0.9	---	---	---	---	---	---
24	18.6	11.0	15.1	2.8	-0.3	0.4	---	---	---	---	---	---
25	14.7	8.2	10.4	5.6	-0.3	2.0	---	---	---	---	---	---
26	15.5	4.8	9.9	8.3	-0.3	3.2	---	---	---	---	---	---
27	18.2	7.4	12.5	7.6	0.6	3.1	---	---	---	---	---	---
28	18.0	10.3	13.2	6.5	-0.3	2.0	---	---	---	---	---	---
29	19.1	8.5	13.2	9.2	-0.3	3.5	---	---	---	---	---	---
30	13.6	8.6	11.0	12.0	1.7	6.0	---	---	---	---	---	---
31	12.0	6.7	9.0	---	---	---	---	---	---	---	---	---
MONTH	26.1	4.8	15.1	18.1	-0.3	6.7	---	---	---	---	---	---

07142575 RATTLESNAKE CREEK NEAR ZENITH, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.8	6.9	10.3	12.5	9.3	10.9	---	---	---	---	---	---
2	12.1	7.2	9.5	10.9	8.9	9.8	---	---	---	---	---	---
3	11.8	6.6	9.2	12.6	9.7	10.6	---	---	---	---	---	---
4	12.3	6.6	9.0	13.1	9.8	11.2	---	---	---	---	---	---
5	12.2	6.8	9.2	13.5	10.7	12.0	---	---	---	---	---	---
6	12.2	6.2	8.8	13.7	11.4	12.4	---	---	---	---	---	---
7	10.9	6.2	8.1	13.9	10.9	12.3	---	---	---	---	---	---
8	10.6	6.4	7.7	13.9	10.9	12.1	---	---	---	---	---	---
9	6.8	5.0	6.2	14.6	10.1	11.9	---	---	---	---	---	---
10	7.4	5.0	6.2	14.4	8.7	11.1	---	---	---	---	---	---
11	9.6	6.2	7.8	17.2	8.2	11.4	---	---	---	---	---	---
12	10.6	7.4	8.7	15.4	8.2	11.6	---	---	---	---	---	---
13	10.9	7.8	9.1	15.6	10.4	12.2	---	---	---	---	---	---
14	12.0	8.0	9.9	14.4	10.0	12.2	---	---	---	---	---	---
15	12.3	7.6	9.7	15.2	9.4	11.5	---	---	---	---	---	---
16	13.1	7.6	9.9	13.9	9.5	11.2	---	---	---	---	---	---
17	13.0	8.7	10.5	12.1	8.1	9.9	---	---	---	---	---	---
18	13.0	7.0	9.9	11.9	8.2	10.0	---	---	---	---	---	---
19	12.7	6.7	9.2	12.8	9.0	10.6	---	---	---	---	---	---
20	11.9	6.2	8.5	12.4	8.9	10.3	---	---	---	---	---	---
21	11.8	6.3	8.6	12.5	9.1	10.8	---	---	---	---	---	---
22	12.2	6.5	8.7	12.6	9.8	10.9	---	---	---	---	---	---
23	11.4	6.5	8.2	12.9	10.6	12.0	---	---	---	---	---	---
24	10.3	6.5	8.4	12.5	11.4	11.9	---	---	---	---	---	---
25	11.7	8.3	9.9	12.8	11.0	11.9	---	---	---	---	---	---
26	11.8	8.8	10.3	12.6	10.5	11.6	---	---	---	---	---	---
27	11.8	7.8	9.7	12.9	10.8	11.7	---	---	---	---	---	---
28	11.8	7.9	9.5	13.3	11.3	12.1	---	---	---	---	---	---
29	11.0	7.7	9.2	---	---	---	---	---	---	---	---	---
30	11.8	8.0	9.8	---	---	---	---	---	---	---	---	---
31	12.4	9.2	10.7	---	---	---	---	---	---	---	---	---
MONTH	13.1	5.0	9.0	17.2	8.1	11.4	---	---	---	---	---	---

07142575 RATTLESNAKE CREEK NEAR ZENITH, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6026
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	28	8.2	17	9.2	4.9	6.9	---	---	---	---	---	---
2	17	10	13	13	6.6	9.4	---	---	---	---	---	---
3	28	12	19	12	6.5	8.1	---	---	---	---	---	---
4	18	10	14	11	5.9	7.5	---	---	---	---	---	---
5	24	10	16	8.0	5.8	6.7	---	---	---	---	---	---
6	22	10	16	14	5.7	9.6	---	---	---	---	---	---
7	22	11	16	16	10	13	---	---	---	---	---	---
8	230	11	56	21	12	15	---	---	---	---	---	---
9	220	73	120	23	15	19	---	---	---	---	---	---
10	100	50	70	17	12	15	---	---	---	---	---	---
11	50	26	40	14	8.9	12	---	---	---	---	---	---
12	27	12	17	14	7.0	9.4	---	---	---	---	---	---
13	18	10	13	13	5.2	8.0	---	---	---	---	---	---
14	18	10	12	16	6.8	10	---	---	---	---	---	---
15	16	8.1	11	25	8.2	13	---	---	---	---	---	---
16	11	5.3	7.8	16	7.6	11	---	---	---	---	---	---
17	14	4.4	6.9	160	9.0	26	---	---	---	---	---	---
18	14	4.3	7.0	17	7.9	13	---	---	---	---	---	---
19	14	5.5	8.4	17	6.6	11	---	---	---	---	---	---
20	14	6.5	9.0	16	7.9	12	---	---	---	---	---	---
21	14	6.8	9.3	12	7.4	10	---	---	---	---	---	---
22	15	7.5	10	12	6.5	8.3	---	---	---	---	---	---
23	14	7.5	10	18	6.8	11	---	---	---	---	---	---
24	13	6.8	10	17	5.3	10	---	---	---	---	---	---
25	13	6.0	8.1	27	7.0	12	---	---	---	---	---	---
26	13	5.0	7.5	20	10	15	---	---	---	---	---	---
27	14	5.9	9.1	---	---	---	---	---	---	---	---	---
28	13	7.6	9.4	---	---	---	---	---	---	---	---	---
29	14	6.7	9.8	---	---	---	---	---	---	---	---	---
30	16	7.2	8.9	---	---	---	---	---	---	---	---	---
31	9.1	5.1	7.0	---	---	---	---	---	---	---	---	---
MONTH	230	4.3	19	160	4.9	12	---	---	---	---	---	---

07142680 ARKANSAS RIVER NEAR NICKERSON, KS

LOCATION.--Lat 38°08'42", long 98°06'39", in SE ¼ SW ¼ SE ¼ sec.8, T.22 S., R.7 W., Reno County, Hydrologic Unit 11030010, on left bank at upstream side of State highway bridge, 1.5 mi west of Nickerson, and at mile 825.8.

DRAINAGE AREA.--36,015 mi^2, of which 6,571 mi^2 is probably noncontributing.

PERIOD OF RECORD.--July 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,581.63 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated since 1948 by John Martin Reservoir (station 07130000). Extensive diversions upstream from station for irrigation. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 7	0200	*834	*11.83	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	55	51	50	e51	55	85	75	50	174	137	61
2	43	55	51	50	e53	54	85	73	49	154	147	60
3	44	55	51	50	e55	58	82	72	50	134	126	58
4	42	55	50	49	56	119	81	71	49	133	113	57
5	41	54	50	49	51	215	79	70	51	118	102	59
6	41	54	50	e52	49	242	79	69	49	416	94	59
7	41	54	50	e54	47	261	79	67	48	730	90	57
8	67	54	51	e53	48	255	80	66	46	487	86	56
9	191	54	56	e51	48	197	81	66	46	367	85	55
10	155	55	53	50	49	156	81	67	46	302	93	53
11	119	55	52	50	49	135	80	68	44	253	89	52
12	95	54	52	49	48	123	79	67	43	215	97	51
13	85	53	53	49	48	116	78	70	42	185	101	50
14	79	53	53	49	48	110	78	66	41	163	93	48
15	74	54	53	48	49	107	78	64	46	143	86	49
16	71	54	53	48	48	103	78	64	41	126	100	48
17	68	59	52	49	49	102	77	68	45	113	105	48
18	66	55	53	47	51	100	77	74	52	104	125	47
19	65	54	53	46	54	97	76	75	54	96	141	46
20	64	54	53	46	53	94	84	72	55	88	124	45
21	62	53	53	47	52	90	79	70	67	81	96	46
22	61	52	54	47	51	88	77	67	67	81	92	47
23	60	51	56	47	51	88	82	65	67	169	89	73
24	58	51	57	47	50	88	86	63	203	219	84	62
25	56	51	55	48	49	87	80	60	438	214	81	58
26	56	52	54	48	49	87	77	59	361	205	77	55
27	56	51	54	46	49	95	76	58	278	167	73	52
28	56	51	52	47	50	93	74	56	242	154	69	52
29	56	51	51	46	56	90	73	54	211	149	66	52
30	56	51	51	e48	---	87	75	54	185	141	64	50
31	55	---	50	e50	---	85	---	51	---	131	63	---
MEAN	68.6	53.5	52.5	48.7	50.4	119	79.2	65.8	102	200	96.4	53.5
MAX	191	59	57	54	56	261	86	75	438	730	147	73
MIN	41	51	50	46	47	54	73	51	41	81	63	45
AC-FT	4,220	3,180	3,230	3,000	2,900	7,290	4,710	4,050	6,080	12,320	5,930	3,190

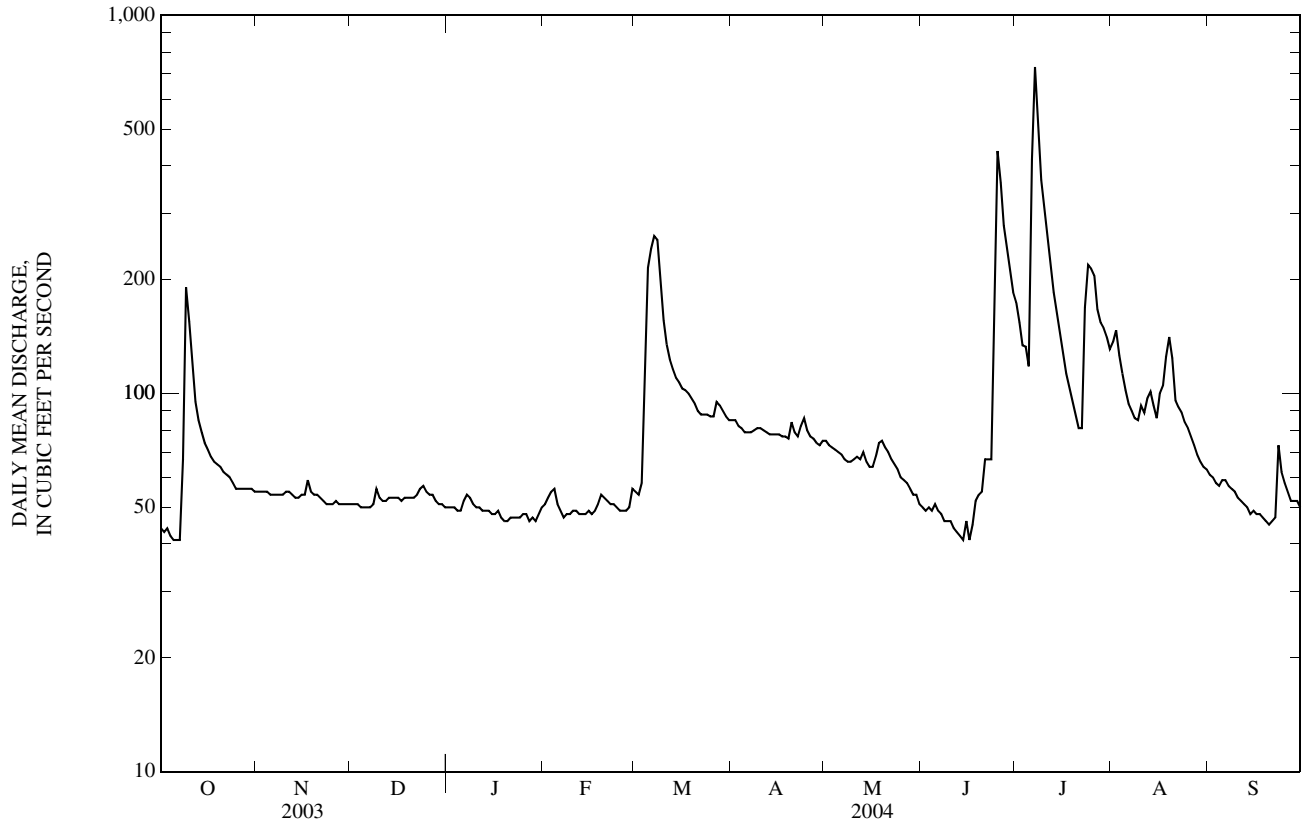
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	172	197	169	198	281	409	480	434	592	381	266	165
MAX	299	412	378	604	892	977	1,414	957	1,935	1,455	895	372
(WY)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1999)	(1999)	(1999)	(1999)	(1999)
MIN	68.6	53.5	52.5	48.7	50.4	73.1	75.2	65.8	94.9	56.4	41.8	50.8
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2002)	(2004)	(2002)	(2003)	(2003)	(2003)

07142680 ARKANSAS RIVER NEAR NICKERSON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1998 - 2004	
ANNUAL MEAN	92.9		82.8		312	
HIGHEST ANNUAL MEAN					682	1999
LOWEST ANNUAL MEAN					82.8	2004
HIGHEST DAILY MEAN	711	Mar 22	730	Jul 7	3,760	Jun 12, 2001
LOWEST DAILY MEAN	33	Aug 25	41	Oct 5	33	Aug 25, 2003
ANNUAL SEVEN-DAY MINIMUM	34	Aug 22	42	Oct 1	34	Aug 22, 2003
MAXIMUM PEAK FLOW			834	Jul 7	3,870	Jun 12, 2001
MAXIMUM PEAK STAGE			11.83	Jul 7	15.50	Jun 12, 2001
INSTANTANEOUS LOW FLOW			39	Jun 14	32	Aug 26, 2003
ANNUAL RUNOFF (AC-FT)	67,280		60,090		225,800	
10 PERCENT EXCEEDS	175		141		701	
50 PERCENT EXCEEDS	67		58		168	
90 PERCENT EXCEEDS	44		48		55	

e Estimated



07143300 COW CREEK NEAR LYONS, KS

LOCATION.--Lat 38°18'30", long 98°11'30", in SW ¼ NW ¼ SE ¼ sec.15, T.20 S., R.8 W., Rice County, Hydrologic Unit 11030011, on left bank near downstream side of Missouri Pacific Railroad bridge, 500 ft downstream from Little Cow Creek, 3.0 mi south of Lyons, and at mile 33.0.

DRAINAGE AREA.--728 mi^2, includes 229 mi^2 in Cheyenne Bottoms, closed basin.

PERIOD OF RECORD.--October 1937 to September 1951. Occasional low-flow measurements, water years 1954-60. Annual maximum, water years 1960-61. October 1961 to current year. Prior to April 1938, monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938(M). WSP 1117: Drainage area. WSP 1177: 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 1,628.16 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 3, 1938, nonrecording gage at present site and datum. July 3, 1938, to Sept. 30, 1951, water-stage recorder at site 60 ft upstream at same datum. October 1959 to Mar. 12, 1962, crest-stage gage at present site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Natural flow affected by releases from Cheyenne Bottoms, which in turn are affected by diversions from Arkansas River and Walnut Creek, and by periodic discharges from salt plant immediately upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1928, 22.75 ft, July 11, 1929, from information by Missouri Pacific Railroad Co.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	2200	*949	*13.45	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.6	5.7	6.0	8.3	e9.6	8.9	7.9	3.4	12	20	2.6
2	2.4	4.8	5.8	6.3	9.2	9.9	8.4	8.3	3.6	14	11	2.5
3	2.6	4.7	6.1	6.1	9.1	11	8.1	7.6	3.5	17	7.7	2.3
4	2.9	4.6	5.7	5.5	9.4	84	7.6	7.4	3.2	34	5.7	2.2
5	3.0	5.2	5.5	5.7	10	762	7.6	7.0	3.7	12	4.5	2.2
6	2.4	7.2	5.7	6.1	10	814	7.5	6.2	4.4	40	4.0	2.6
7	2.1	5.7	5.4	5.9	10	414	7.1	5.9	4.2	403	3.7	2.9
8	73	4.8	5.5	6.1	10	140	7.0	5.6	3.4	331	3.5	3.2
9	758	4.7	6.3	6.1	10	51	7.3	5.7	3.2	199	3.9	3.2
10	243	4.9	7.2	6.3	10	27	7.8	5.9	3.2	99	7.0	3.2
11	33	5.4	6.9	6.4	9.8	19	8.1	6.5	3.2	50	11	2.9
12	13	5.6	7.1	6.4	9.4	15	7.8	7.1	3.0	27	15	2.4
13	9.8	5.5	7.5	6.2	9.4	13	7.5	7.6	2.9	16	16	2.3
14	6.9	5.3	7.4	5.9	9.3	11	7.3	6.9	2.7	12	9.2	2.4
15	5.5	5.2	7.3	6.1	9.2	11	7.2	6.0	4.3	8.8	6.8	2.3
16	4.5	5.2	7.2	6.2	9.5	10	6.9	6.3	3.2	7.2	7.9	2.2
17	4.3	6.0	7.3	6.4	9.3	10	6.7	11	5.5	6.2	6.0	2.2
18	4.7	5.6	7.3	7.0	9.3	9.5	7.7	8.6	6.9	5.7	4.7	2.0
19	4.6	4.8	7.4	7.2	11	8.9	7.3	7.7	164	5.4	4.2	1.9
20	4.3	5.0	7.4	6.1	13	8.6	7.0	7.6	562	5.0	4.5	1.8
21	4.3	4.9	7.6	5.5	13	8.0	7.0	6.6	427	4.6	3.8	2.0
22	4.5	4.7	7.5	5.5	11	7.7	7.2	5.8	598	4.4	3.5	2.1
23	4.5	4.7	7.5	5.6	8.8	7.7	7.3	5.1	358	14	5.2	6.0
24	4.2	4.8	7.2	5.7	8.0	7.5	8.2	4.9	133	20	4.9	16
25	4.0	4.8	6.9	5.9	7.0	7.5	7.8	4.5	49	19	4.0	22
26	4.2	4.9	6.9	5.9	6.6	7.6	8.1	4.0	24	20	3.6	37
27	4.1	5.4	6.9	7.1	6.2	11	7.6	4.0	15	15	3.4	15
28	4.0	5.5	6.7	7.0	6.3	13	7.0	3.9	12	9.7	3.2	8.3
29	4.2	5.6	6.7	6.9	6.8	14	6.1	3.6	9.7	7.5	2.9	5.6
30	4.4	5.7	6.6	7.1	---	12	7.0	4.4	9.0	9.6	2.6	4.1
31	4.6	---	6.1	7.4	---	10	---	3.6	---	29	2.7	---
MEAN	39.7	5.19	6.72	6.25	9.27	82.1	7.47	6.23	80.9	47.0	6.33	5.58
MAX	758	7.2	7.6	7.4	13	814	8.9	11	598	403	20	37
MIN	2.1	4.6	5.4	5.5	6.2	7.5	6.1	3.6	2.7	4.4	2.6	1.8
AC-FT	2,440	309	413	384	533	5,050	445	383	4,820	2,890	389	332

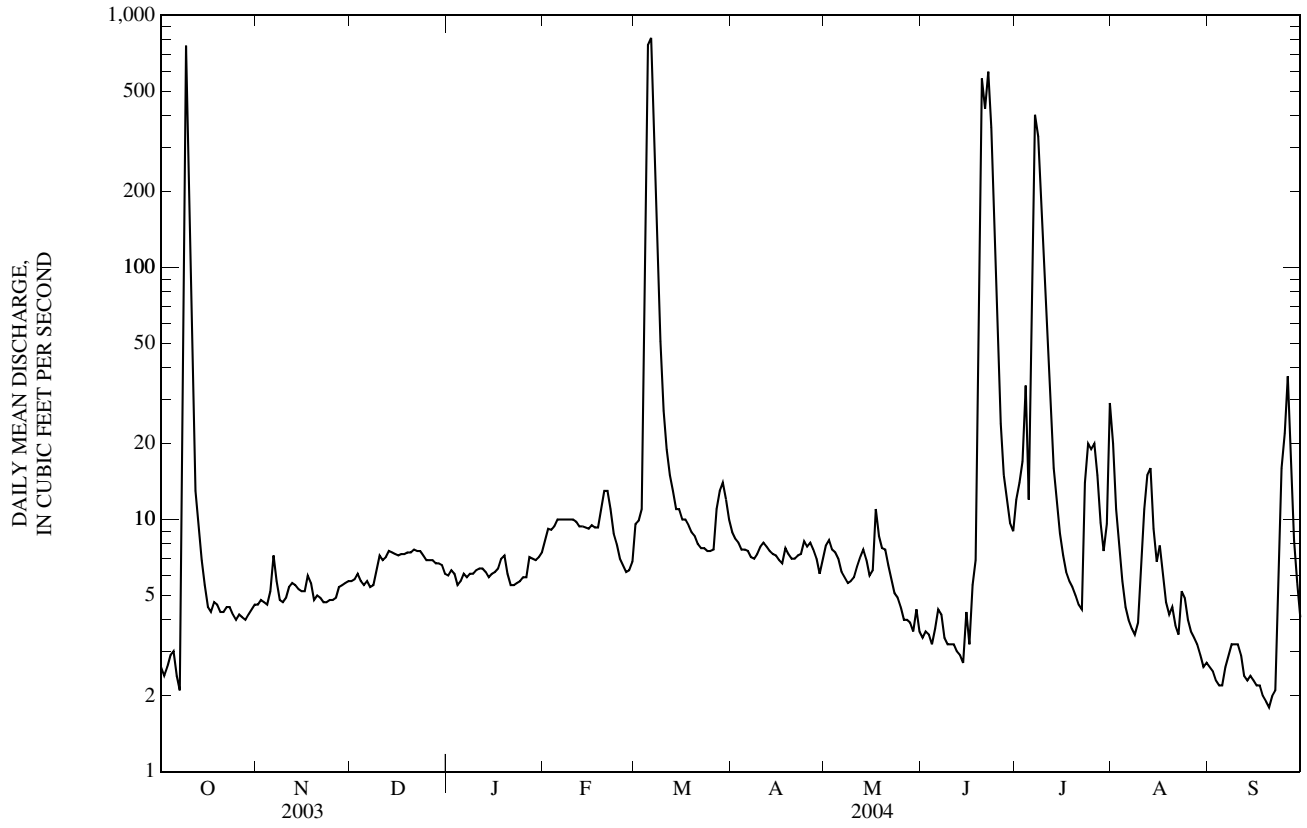
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	71.0	28.0	19.6	20.6	47.3	84.7	82.4	126	147	128	86.0	90.4
MAX	1,025	244	281	343	480	954	766	1,038	1,491	1,503	794	1,895
(WY)	(1974)	(1974)	(1974)	(1974)	(1993)	(1973)	(1973)	(1995)	(1965)	(1993)	(1950)	(1973)
MIN	0.31	1.65	2.13	1.00	1.97	3.82	2.36	2.30	3.90	1.79	0.65	0.34
(WY)	(1992)	(1992)	(1940)	(1940)	(1940)	(1991)	(1992)	(1992)	(1940)	(1991)	(1991)	(1991)

07143300 COW CREEK NEAR LYONS, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL MEAN	49.7		25.3		78.4	
HIGHEST ANNUAL MEAN					377	1973
LOWEST ANNUAL MEAN					10.1	1946
HIGHEST DAILY MEAN	3,110	Mar 20	814	Mar 6	16,800	Sep 27, 1973
LOWEST DAILY MEAN	1.3	Aug 26	1.8	Sep 20	0.00	Jul 13, 1938
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 20	2.0	Sep 16	0.14	Aug 16, 1946
MAXIMUM PEAK FLOW			949	Mar 5	24,100	Sep 26, 1973
MAXIMUM PEAK STAGE			13.45	Mar 5	20.38	Sep 26, 1973
INSTANTANEOUS LOW FLOW			1.5	Sep 18	0.00	at times
ANNUAL RUNOFF (AC-FT)	36,000		18,380		56,770	
10 PERCENT EXCEEDS	37		16		130	
50 PERCENT EXCEEDS	7.4		6.8		12	
90 PERCENT EXCEEDS	2.9		3.2		3.3	

e Estimated



07143330 ARKANSAS RIVER NEAR HUTCHINSON, KS

LOCATION.--Lat 37°56'47", long 97°46'29", in SW ¼ NW ¼ SW ¼ sec.21, T.24 S., R.4 W., Reno County, Hydrologic Unit 11030010, on right bank at downstream side of county highway bridge, 3.0 mi north of Haven, 4.5 mi downstream from Cow Creek, 11 mi southeast of Hutchinson, and at mile 800.3.

DRAINAGE AREA.--38,910 mi^2, of which 7,186 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WDR KS-74-1: 1973(M).

GAGE.--Water-stage recorder. Datum of gage is 1,454.10 ft above NGVD of 1929. Prior to June 22, 1960, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated since 1948 by John Martin Reservoir (station 07130000). Extensive diversions upstream from station for irrigation. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 9	0700	2,180	5.90	Jul 2	1700	1,960	5.69
Mar 5	0700	*3,040	*6.56	Jul 24	2300	2,710	6.32

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	124	104	104	e105	134	191	167	110	312	312	190
2	94	125	103	101	e109	116	190	155	115	1,250	312	185
3	99	126	106	100	e110	133	189	147	114	1,020	303	175
4	94	126	105	97	e113	607	185	147	112	526	280	167
5	88	118	101	89	e117	2,540	184	147	110	427	264	164
6	84	119	99	e84	119	1,850	188	147	111	382	252	166
7	81	120	99	e120	e124	1,420	177	143	108	563	242	158
8	126	120	102	e110	e130	1,130	176	142	106	685	234	159
9	1,550	120	126	e120	137	687	180	137	109	764	230	156
10	1,160	123	120	128	129	445	185	133	119	618	533	150
11	1,130	122	111	118	124	347	174	132	106	490	416	144
12	619	119	109	113	112	292	169	132	100	409	289	139
13	310	115	111	111	107	275	167	323	120	346	273	136
14	225	112	111	112	111	259	165	245	103	304	256	132
15	191	111	118	114	110	248	164	160	116	270	242	141
16	173	108	114	111	111	232	163	143	124	245	527	140
17	158	110	109	120	111	228	162	138	122	229	580	133
18	151	112	111	111	113	229	160	141	641	213	440	128
19	148	108	107	102	119	227	154	149	400	203	339	120
20	144	107	107	105	123	225	170	153	370	191	332	116
21	145	109	112	104	119	218	174	145	517	174	280	119
22	140	106	115	105	116	216	167	140	702	166	254	126
23	137	105	108	105	118	215	173	137	585	616	247	148
24	133	101	111	105	113	205	186	132	525	2,040	233	160
25	127	104	109	108	109	204	175	131	472	2,580	220	141
26	127	106	103	112	108	199	163	126	465	1,660	213	135
27	126	106	94	e107	108	237	158	125	384	803	204	142
28	127	103	102	e103	104	283	157	120	524	508	199	159
29	126	103	103	e99	117	217	156	115	572	415	196	157
30	125	102	103	e100	---	203	159	112	357	376	207	140
31	125	---	105	e101	---	194	---	109	---	344	196	---
MEAN	263	113	108	107	115	452	172	148	281	617	294	148
MAX	1,550	126	126	128	137	2,540	191	323	702	2,580	580	190
MIN	81	101	94	84	104	116	154	109	100	166	196	116
AC-FT	16,190	6,720	6,620	6,580	6,640	27,800	10,240	9,070	16,700	37,940	18,060	8,780

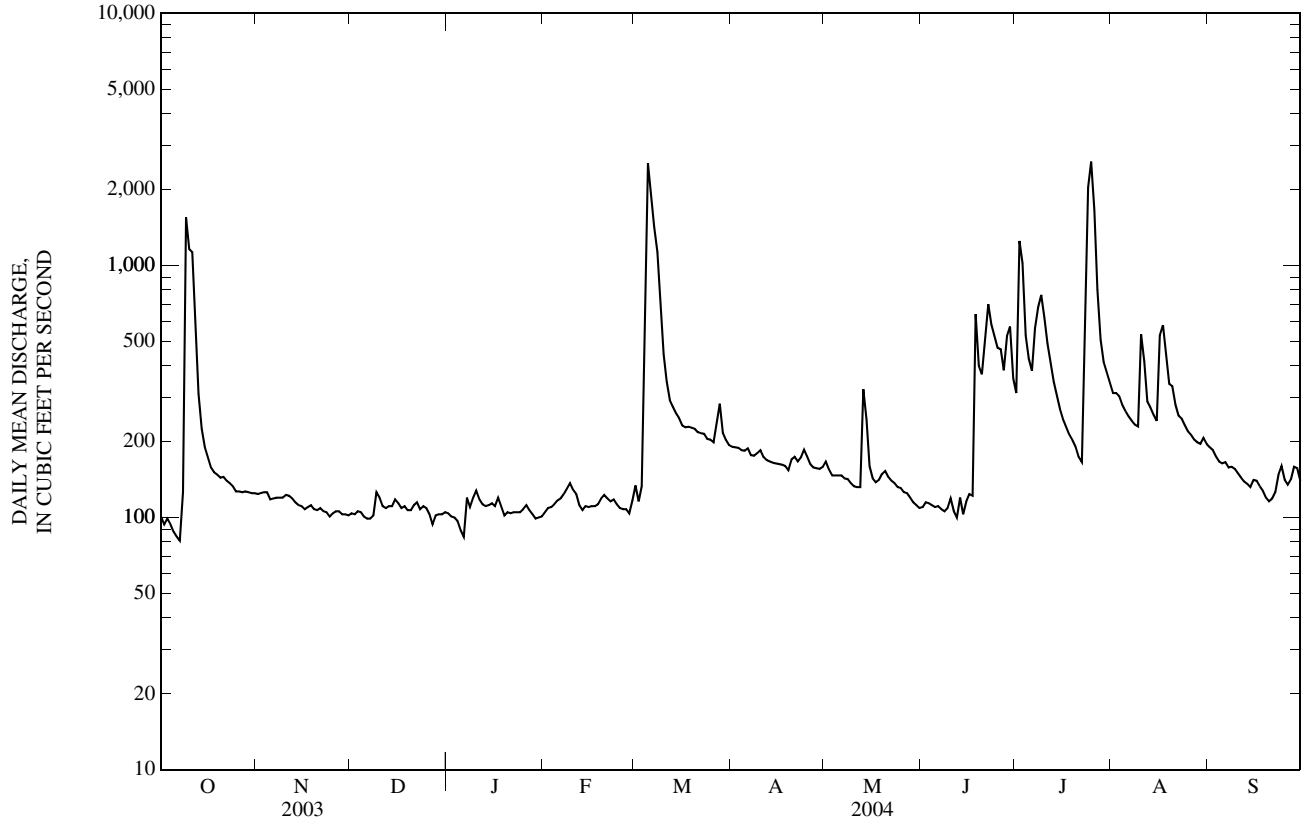
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	530	354	279	267	379	660	691	647	859	758	488	484
MAX	7,342	1,586	1,841	1,520	1,868	4,086	5,865	2,727	5,299	6,279	1,749	3,345
(WY)	(1974)	(1974)	(1974)	(1974)	(1993)	(1973)	(1973)	(1995)	(1965)	(1993)	(1993)	(1973)
MIN	40.8	52.1	59.6	69.2	64.2	80.7	73.3	56.5	167	62.0	53.1	51.5
(WY)	(1965)	(1992)	(1992)	(1992)	(1992)	(1992)	(1989)	(1992)	(1988)	(1991)	(1991)	(1964)

07143330 ARKANSAS RIVER NEAR HUTCHINSON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL MEAN	248		236		533	
HIGHEST ANNUAL MEAN					1,667	1974
LOWEST ANNUAL MEAN					108	1991
HIGHEST DAILY MEAN	5,130	Mar 22	2,580	Jul 25	24,200	Sep 30, 1973
LOWEST DAILY MEAN	55	Aug 27	81	Oct 7	28	Oct 14, 1980
ANNUAL SEVEN-DAY MINIMUM	58	Aug 22	92	Oct 1	33	Oct 9, 1980
MAXIMUM PEAK FLOW			3,040	Mar 5	24,700	Sep 28, 1973
MAXIMUM PEAK STAGE			6.56	Mar 5	12.95	Sep 28, 1973
INSTANTANEOUS LOW FLOW			77	Oct 7	27	Oct 13, 1980
ANNUAL RUNOFF (AC-FT)	179,800		171,300		386,400	
10 PERCENT EXCEEDS	425		451		1,120	
50 PERCENT EXCEEDS	133		140		266	
90 PERCENT EXCEEDS	87		104		97	

e Estimated



07143375 ARKANSAS RIVER NEAR MAIZE, KS

LOCATION.--Lat 37°46'53", long 97°23'33", in NW ¼ NE ¼ NE ¼ sec.23, T.26 S., R.1 W., Sedgwick County, Hydrologic Unit 11030010, on right bank at downstream side of county highway bridge, 4.0 mi east of Maize, 3.5 mi south-southwest of Valley Center, 2.8 mi downstream from Little Arkansas River Floodway Diversion channel, and at mile 772.2.

DRAINAGE AREA.--39,110 mi^2, of which 7,186 mi^2 is probably noncontributing.

PERIOD OF RECORD.--March 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1317.08 ft above NGVD of 1929 (Wichita-Valley Center Flood Control Project).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow slightly regulated since Oct. 1948 by John Martin Reservoir (station 07130000). Extensive diversions upstream from station for irrigation. Natural flow is significantly altered, since May 1957, by diversion during high-flow events from the Little Arkansas River into the stream upstream from station. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 9	1915	*20,800	13.90	Jul 25	1200	9,740	11.83
Mar 5	1345	18,600	*14.35				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	152	102	136	e90	116	213	201	141	485	456	214
2	95	155	106	137	e80	114	213	188	145	492	414	206
3	103	155	117	134	e84	118	214	181	150	1,300	405	197
4	88	155	125	130	e90	964	213	176	149	963	386	187
5	79	146	125	e100	e90	16,100	e210	176	155	1,540	363	184
6	73	159	135	e70	e88	12,300	e210	172	150	1,100	344	190
7	70	159	137	e47	e80	7,740	209	165	142	601	328	181
8	100	150	136	e50	e76	5,050	219	160	140	727	303	183
9	11,300	142	e160	e60	e84	1,550	224	159	146	769	306	183
10	14,700	148	e150	e80	e90	809	228	155	260	803	302	179
11	7,750	149	e140	e100	e100	608	223	155	243	703	546	171
12	4,700	139	e140	e100	e90	522	215	153	156	618	421	166
13	1,030	134	e140	e105	e95	465	210	1,020	245	548	334	160
14	562	141	e140	e110	124	424	213	908	315	474	302	155
15	429	142	e150	e107	106	389	212	335	213	419	283	156
16	357	138	e140	97	110	352	211	257	178	388	296	156
17	310	134	130	123	110	326	208	224	176	371	657	151
18	281	129	129	112	121	307	210	209	428	366	572	142
19	260	125	119	97	125	282	201	208	1,210	355	461	134
20	242	124	120	97	121	268	214	202	1,070	328	391	126
21	226	121	123	95	120	268	208	203	715	305	361	130
22	216	118	134	92	118	267	208	199	721	288	321	134
23	197	109	138	89	113	266	219	186	762	829	301	154
24	198	107	135	89	109	256	241	177	659	4,600	284	152
25	186	113	141	91	108	243	220	171	591	e8,950	267	159
26	189	109	146	e90	104	232	206	173	568	e6,560	246	142
27	188	105	141	e86	101	255	194	170	549	4,730	231	135
28	179	100	128	e84	101	279	193	158	501	2,500	227	140
29	175	105	132	e82	111	266	182	157	595	e700	216	153
30	170	106	134	e83	---	223	189	155	593	604	213	150
31	160	---	131	e82	---	205	---	147	---	521	222	---
MEAN	1,442	132	133	95.3	101	1,663	211	235	402	1,417	347	162
MAX	14,700	159	160	137	125	16,100	241	1,020	1,210	8,950	657	214
MIN	70	100	102	47	76	114	182	147	140	288	213	126
AC-FT	88,690	7,870	8,180	5,860	5,830	102,300	12,560	14,480	23,930	87,150	21,340	9,660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	412	594	272	241	511	816	593	1,130	1,223	1,290	624	408
MAX	1,442	4,999	756	775	2,831	2,998	2,076	6,416	4,603	12,920	1,995	1,393
(WY)	(2004)	(1999)	(1997)	(1998)	(1993)	(2000)	(1998)	(1993)	(1995)	(1993)	(1993)	(1996)
MIN	7.65	41.6	45.5	58.3	53.1	72.8	64.3	49.6	138	23.9	16.2	31.7
(WY)	(1992)	(1992)	(1992)	(1992)	(1992)	(1991)	(1989)	(1992)	(1991)	(1991)	(1991)	(1991)

07143375 ARKANSAS RIVER NEAR MAIZE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL MEAN	435		534		677	
HIGHEST ANNUAL MEAN					2,756	1993
LOWEST ANNUAL MEAN					83.6	1991
HIGHEST DAILY MEAN	14,700	Oct 10	16,100	Mar 5	42,500	Jul 15, 1993
LOWEST DAILY MEAN	24	Aug 28	47	Jan 7	3.5	Oct 17, 1991
ANNUAL SEVEN-DAY MINIMUM	28	Aug 22	72	Jan 5	4.0	Oct 14, 1991
MAXIMUM PEAK FLOW			20,800	Oct 9	45,900	Nov 1, 1998
MAXIMUM PEAK STAGE			14.35	Mar 5	16.93	Nov 1, 1998
INSTANTANEOUS LOW FLOW			47	Jan 7	3.4	Oct 16, 1991
ANNUAL RUNOFF (AC-FT)	314,600		387,800		490,400	
10 PERCENT EXCEEDS	552		630		1,150	
50 PERCENT EXCEEDS	142		178		266	
90 PERCENT EXCEEDS	77		99		67	

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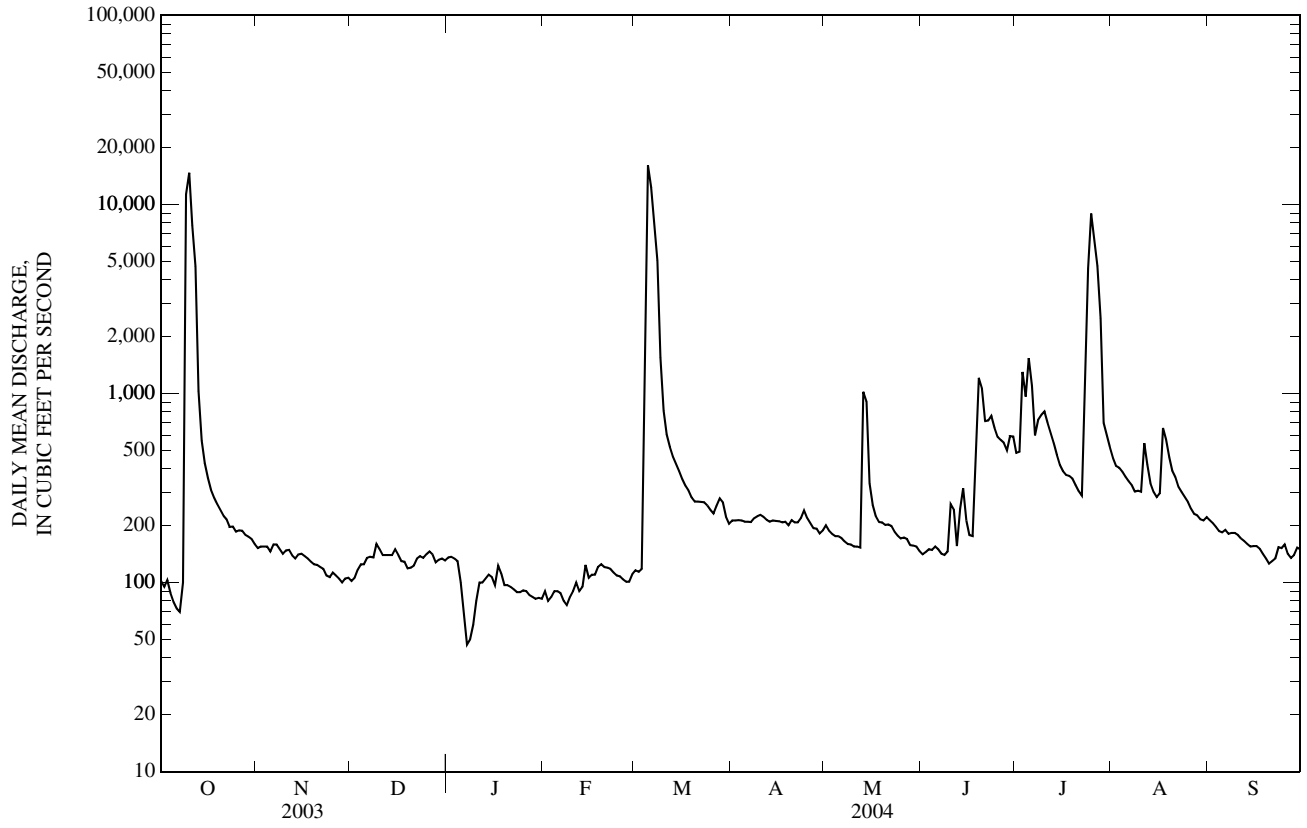


07143665 LITTLE ARKANSAS RIVER AT ALTA MILLS, KS

LOCATION.--Lat 38°06'44", long 97°35'30", in SW ¼ NW ¼ NW ¼ sec.30, T.22 S., R.2 W., Harvey County, Hydrologic Unit 11030012, on right bank at downstream side of county highway bridge, 0.4 mi south of Alta Mills, 0.8 mi downstream from Sand Creek, and at mile 50.1.

DRAINAGE AREA.--736 mi^2, of which 55 mi^2 is probably noncontributing.

PERIOD OF RECORD.--June 1973 to current year.

REVISED RECORDS.--WDR KS-74-1: 1974(M). KS-80-1: 1980(M). KS-86-1: 1986(M).

GAGE.--Water-stage recorder. Datum of gage is 1,391.40 ft above NGVD of 1929.

REMARKS.--Records good. Natural flow of stream affected by ground-water withdrawals for irrigation and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 9	1800	8,140	23.92	Jul 4	1400	1,580	11.21
Mar 6	0300	*9,780	*24.38	Jul 26	0600	6,980	23.54

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

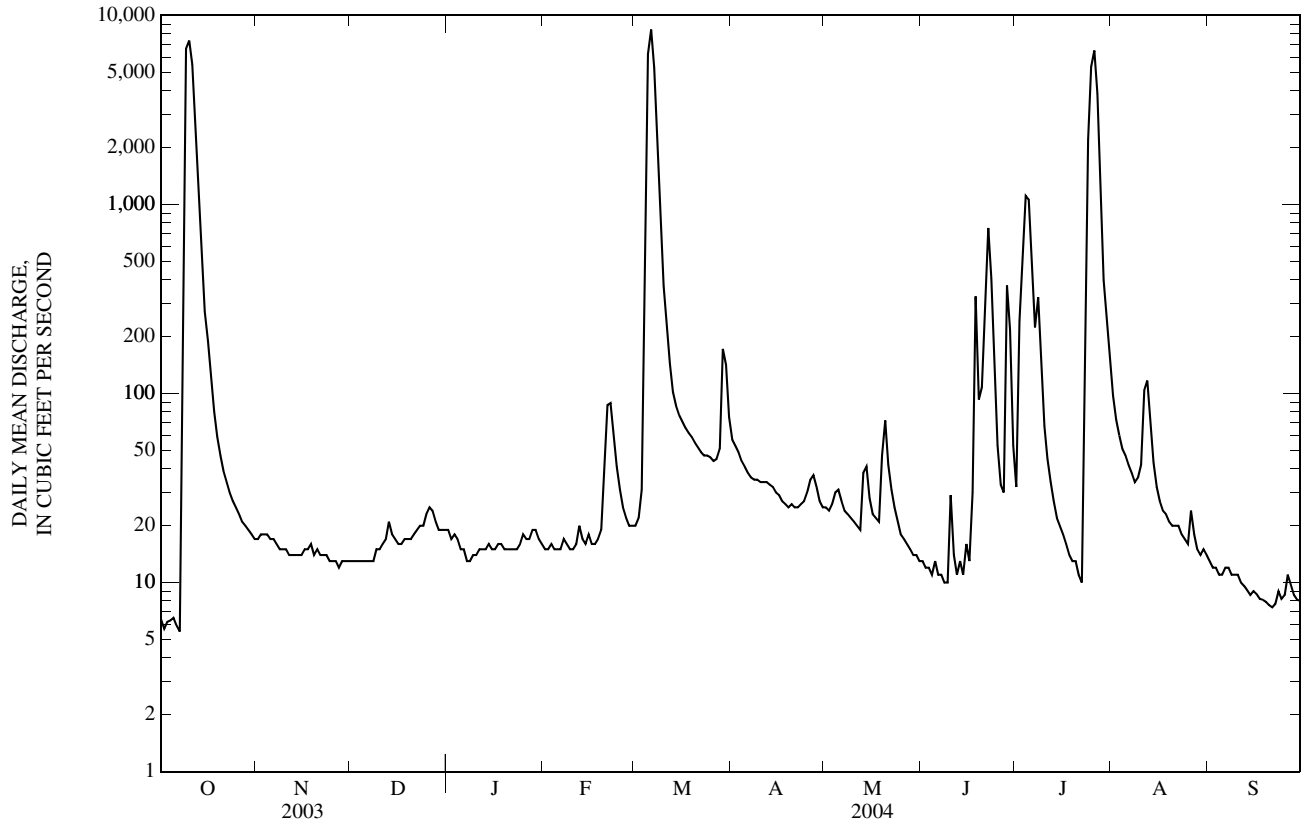
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	17	13	19	15	20	57	25	13	32	97	13
2	5.7	18	13	17	15	22	53	24	12	242	73	12
3	6.2	18	13	18	16	31	49	26	12	531	60	12
4	6.3	18	13	17	15	1,080	44	30	11	1,110	51	11
5	6.5	17	13	15	15	6,240	41	31	13	1,060	47	11
6	5.9	17	13	15	15	8,410	38	27	11	449	42	12
7	5.5	16	13	13	17	5,290	36	24	11	224	38	12
8	238	15	13	13	16	1,930	35	23	10	323	34	11
9	6,660	15	15	14	15	770	35	22	10	146	36	11
10	7,360	15	15	14	15	371	34	21	29	67	42	11
11	5,500	14	16	15	16	227	34	20	14	45	104	10
12	1,840	14	17	15	20	144	34	19	11	34	117	9.6
13	808	14	21	15	17	102	33	38	13	27	73	9.1
14	433	14	18	16	16	86	32	41	11	22	43	8.6
15	271	14	17	15	18	77	30	28	16	20	32	9.0
16	190	15	16	15	16	71	29	23	13	18	27	8.7
17	120	15	16	16	16	66	27	22	30	16	24	8.2
18	80	16	17	16	17	62	26	21	326	14	23	8.1
19	59	14	17	15	19	59	25	47	93	13	21	7.9
20	47	15	17	15	40	55	26	72	108	13	20	7.6
21	39	14	18	15	87	52	25	42	300	11	20	7.4
22	34	14	19	15	89	49	25	31	751	10	20	7.7
23	30	14	20	15	61	47	26	25	408	171	18	9.0
24	27	13	20	16	41	47	27	21	129	2,200	17	8.2
25	25	13	23	18	31	46	30	18	53	5,350	16	8.6
26	23	13	25	17	25	44	35	17	33	6,520	24	11
27	21	12	24	17	22	45	37	16	30	3,860	18	9.7
28	20	13	21	19	20	51	32	15	372	1,050	15	8.6
29	19	13	19	19	20	172	27	14	218	398	14	8.1
30	18	13	19	17	---	142	25	14	53	226	15	8.0
31	17	---	19	16	---	75	---	13	---	147	14	---
MEAN	772	14.8	17.2	15.9	25.7	835	33.6	26.1	104	785	38.5	9.64
MAX	7,360	18	25	19	89	8,410	57	72	751	6,520	117	13
MIN	5.5	12	13	13	15	20	25	13	10	10	14	7.4
AC-FT	47,450	879	1,060	976	1,480	51,340	2,000	1,610	6,180	48,300	2,370	573

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

MEAN	237	173	54.2	38.5	144	396	250	382	385	310	182	110
MAX	2,314	1,983	505	340	1,240	2,489	990	2,496	1,816	3,900	1,032	868
(WY)	(1974)	(1999)	(1974)	(1974)	(1993)	(1987)	(1974)	(1995)	(1977)	(1993)	(1987)	(1977)
MIN	0.19	3.92	3.76	4.98	4.02	6.11	4.63	7.58	10.8	2.13	2.59	1.79
(WY)	(1992)	(1991)	(1991)	(1991)	(1992)	(1991)	(1992)	(1992)	(1994)	(1991)	(1984)	(1984)

07143665 LITTLE ARKANSAS RIVER AT ALTA MILLS, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL MEAN	191		226		222	
HIGHEST ANNUAL MEAN					935	1993
LOWEST ANNUAL MEAN					16.2	1991
HIGHEST DAILY MEAN	7,360	Oct 10	8,410	Mar 6	15,300	Nov 2, 1998
LOWEST DAILY MEAN	1.1	Aug 24	5.5	Oct 7	0.00	Aug 15, 1991
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 21	6.1	Oct 1	0.02	Oct 7, 1991
MAXIMUM PEAK FLOW			9,780	Mar 6	30,100	Oct 12, 1973
MAXIMUM PEAK STAGE			24.38	Mar 6	27.42	Oct 12, 1973
INSTANTANEOUS LOW FLOW			5.1	Oct 8	0.00	Aug 15, 1991
ANNUAL RUNOFF (AC-FT)	138,500		164,200		161,100	
10 PERCENT EXCEEDS	242		198		311	
50 PERCENT EXCEEDS	16		20		21	
90 PERCENT EXCEEDS	5.9		11		5.0	



07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS

LOCATION.--Lat 38°01'43", long 97°32'25", in NW ¼ NE ¼ NE ¼ sec.28, T.23 S., R.02 W., Harvey County, Hydrologic Unit 11030012, on left bank at downstream side of State Highway 50, 3.4 mi upstream of Black Kettle Creek, 2 mi north and 1.3 mi west of Halstead, and at mile 41.4.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--759 mi^2, of which about 74 mi^2 is probably noncontributing.

PERIOD OF RECORD.--May 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,370.55 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by ground-water withdrawals for irrigation and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 10	0600	6,890	25.81	Jul 4	1900	1,600	13.87
Mar 6	1500	*7,070	*26.03	Jul 26	1800	6,410	24.96

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	21	18	23	21	25	82	27	17	41	152	15
2	10	21	18	23	20	25	71	26	15	92	111	14
3	11	22	18	21	20	39	68	27	15	596	88	14
4	11	22	18	21	20	915	59	30	15	961	75	14
5	9.8	21	17	18	20	5,910	52	37	20	1,260	67	15
6	10	20	17	18	20	6,940	47	33	18	610	61	15
7	11	20	18	18	20	6,340	44	28	17	258	56	14
8	86	19	18	18	20	2,930	42	26	15	299	49	14
9	5,220	19	19	18	20	1,060	41	24	16	210	48	14
10	6,860	19	18	18	20	531	40	22	43	103	83	14
11	6,410	18	19	19	20	327	39	22	26	63	116	13
12	2,980	18	20	19	19	222	39	22	17	43	161	13
13	987	18	23	19	21	161	38	94	17	31	126	12
14	571	19	23	20	21	e130	38	73	16	25	71	12
15	346	19	22	20	20	e112	35	e40	19	24	51	12
16	257	19	21	20	20	97	34	30	20	23	39	11
17	182	20	20	24	21	87	33	25	25	21	32	11
18	128	21	21	21	22	78	32	24	375	20	29	10
19	92	20	20	20	25	75	29	37	163	19	28	10
20	72	21	21	20	34	68	30	110	158	17	26	10
21	61	21	22	20	104	63	29	74	312	16	24	11
22	50	19	23	20	138	57	29	46	745	16	25	11
23	43	19	23	20	97	53	31	33	498	331	23	12
24	37	19	24	21	75	52	32	27	205	2,000	22	11
25	32	18	26	23	51	59	33	e22	86	4,690	20	11
26	29	18	30	22	36	55	39	e20	43	6,270	24	11
27	27	18	30	19	29	60	47	e19	26	5,100	24	13
28	25	18	27	23	26	65	41	e18	257	1,460	19	12
29	24	19	24	24	26	174	33	18	317	517	17	12
30	23	18	24	22	---	230	28	17	92	277	17	12
31	21	---	23	21	---	120	---	17	---	199	17	---
MEAN	795	19.5	21.5	20.4	34.7	873	41.2	34.5	120	826	54.9	12.4
MAX	6,860	22	30	24	138	6,940	82	110	745	6,270	161	15
MIN	9.8	18	17	18	19	25	28	17	15	16	17	10
AC-FT	48,870	1,160	1,320	1,260	2,000	53,670	2,450	2,120	7,160	50,760	3,370	740

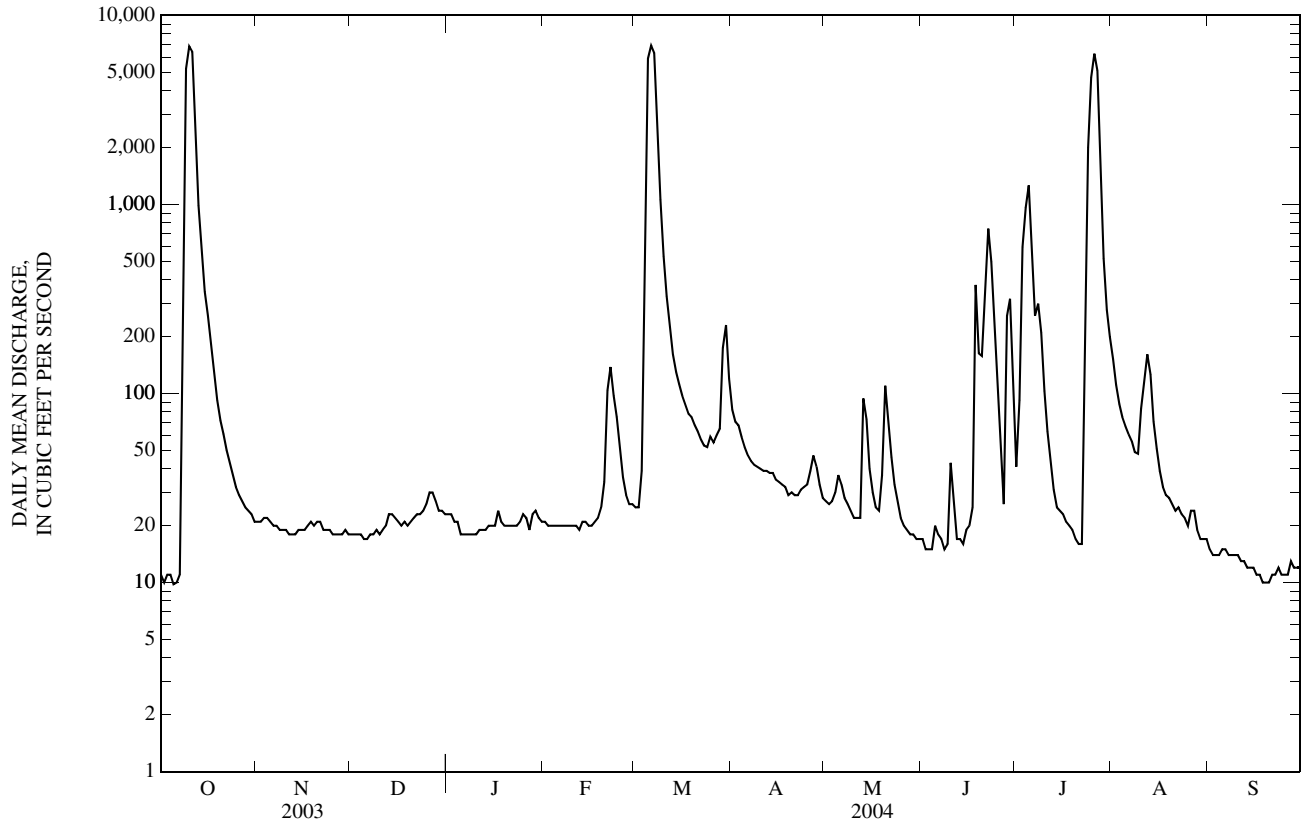
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	237	254	54.0	40.6	177	514	257	220	376	288	167	127
MAX	795	1,818	247	122	636	1,551	815	366	1,030	876	620	360
(WY)	(2004)	(1999)	(1998)	(1999)	(2001)	(2000)	(1999)	(2003)	(2001)	(1999)	(1999)	(1997)
MIN	13.2	15.4	15.6	14.8	18.4	15.7	14.8	34.5	41.1	7.75	9.63	4.78
(WY)	(1997)	(1996)	(2002)	(2003)	(2003)	(1996)	(1996)	(2004)	(1998)	(2003)	(2001)	(2002)

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL MEAN	208		241		226	
HIGHEST ANNUAL MEAN					528	1999
LOWEST ANNUAL MEAN					88.7	2002
HIGHEST DAILY MEAN	6,860	Oct 10	6,940	Mar 6	9,570	Nov 3, 1998
LOWEST DAILY MEAN	5.0	Aug 28	9.8	Oct 5	1.2	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	5.5	Aug 22	11	Oct 1	1.5	Sep 6, 2002
MAXIMUM PEAK FLOW			7,070	Mar 6	10,300	Nov 2, 1998
MAXIMUM PEAK STAGE			26.03	Mar 6	27.13	Nov 2, 1998
INSTANTANEOUS LOW FLOW			9.6	Oct 2	0.98	Aug 7, 2002
ANNUAL RUNOFF (AC-FT)	150,500		174,900		163,600	
10 PERCENT EXCEEDS	327		238		396	
50 PERCENT EXCEEDS	20		24		29	
90 PERCENT EXCEEDS	6.4		15		11	

e Estimated



07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1998 to current year.
pH: May 1998 to current year.
WATER TEMPERATURE: May 1998 to current year.
DISSOLVED OXYGEN: October 1998 to current year.
TURBIDITY (YSI 6026 sensor): October 1998 to current year.
TURBIDITY (YSI 6136 sensor): July to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions or malfunction of the recording instrument or sensors. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs International (YSI) 6026 and 6136 sensors.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,290 microsiemens/cm, May 11, 2002; minimum, 57 microsiemens/cm, Oct. 9, 2003.
pH: Maximum, 9.0 standard units, July 8, 2001; minimum, 6.6 standard units, Oct. 5, 1998.
WATER TEMPERATURE: Maximum, 33.1°C, Aug. 1, 2002; minimum, 0.0°C, Jan. 3, 1999.
DISSOLVED OXYGEN: Maximum, 21.9 mg/L, July 10, 2001; minimum, 3.2 mg/L, Aug. 31, 1999.
TURBIDITY (YSI 6026 sensor): Maximum, 2,110 FNU, Aug. 12, 2004; minimum, 1.0 FNU, Jan. 8, 2002.
TURBIDITY (YSI 6136 sensor): Maximum, >1,110 FNU, Aug. 12, 2004; minimum, 17 FNU, Sept. 11, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,270 microsiemens/cm, Feb. 22; minimum, 57 microsiemens/cm, Oct. 9.
pH: Maximum, 9.0 standard units, July 21; minimum, 6.7 standard units, Oct. 9.
WATER TEMPERATURE: Maximum, 30.1°C, July 15; minimum, 0.0°C, Jan. 27.
DISSOLVED OXYGEN: Maximum, 16.9 mg/L, Aug. 17; minimum, 4.9 mg/L, July 27.
TURBIDITY (YSI 6026 sensor): Maximum, 2,110 FNU, Aug. 12; minimum, <2.0 FNU, Dec. 23.
TURBIDITY (YSI 6136 sensor): Maximum, >1,100 FNU, Aug. 12; minimum, 17 FNU, Sept. 11.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	800	750	772	1,080	1,020	1,050	1,640	1,630	1,640	1,840	1,760	1,800
2	834	799	824	1,120	1,070	1,090	1,640	1,600	1,620	1,760	1,670	1,720
3	828	747	772	1,120	1,100	1,110	1,630	1,600	1,610	1,670	1,610	1,640
4	747	720	730	1,170	1,120	1,150	1,660	1,630	1,650	1,620	1,600	1,610
5	809	744	771	1,180	1,170	1,170	1,680	1,660	1,670	1,620	1,590	1,610
6	915	809	863	1,210	1,160	1,180	1,660	1,620	1,640	1,600	1,560	1,580
7	951	915	941	1,290	1,210	1,250	1,620	1,590	1,610	1,560	1,520	1,550
8	942	153	812	1,300	1,280	1,300	1,630	1,600	1,620	1,520	1,470	1,490
9	610	57	107	1,330	1,290	1,310	1,630	1,590	1,600	1,520	1,470	1,500
10	106	74	86	1,370	1,330	1,360	1,660	1,590	1,640	1,570	1,520	1,550
11	134	106	126	1,380	1,360	1,370	1,630	1,600	1,610	1,580	1,550	1,570
12	153	134	145	1,420	1,360	1,390	1,610	1,580	1,600	1,570	1,520	1,540
13	163	147	154	1,430	1,400	1,410	1,690	1,590	1,610	1,580	1,520	1,550
14	210	163	189	1,420	1,410	1,410	1,790	1,690	1,750	1,640	1,580	1,620
15	239	210	224	1,440	1,420	1,430	1,870	1,790	1,840	1,670	1,620	1,650
16	270	239	254	1,460	1,410	1,430	1,900	1,860	1,880	1,630	1,560	1,600
17	315	270	290	1,420	1,390	1,410	1,860	1,790	1,820	1,560	1,490	1,520
18	377	315	346	1,500	1,390	1,450	1,810	1,780	1,790	1,570	1,500	1,540
19	466	377	417	1,530	1,500	1,520	1,810	1,750	1,770	1,610	1,560	1,590
20	566	466	519	1,570	1,520	1,550	1,830	1,740	1,790	1,640	1,610	1,630
21	629	566	598	1,640	1,570	1,610	1,870	1,820	1,840	1,650	1,620	1,640
22	692	629	660	1,650	1,600	1,640	1,900	1,860	1,880	1,680	1,620	1,640
23	743	691	713	1,600	1,530	1,550	1,900	1,880	1,890	1,740	1,680	1,710
24	774	738	752	1,660	1,580	1,640	1,890	1,840	1,870	1,770	1,710	1,740
25	802	774	786	1,670	1,660	1,670	1,890	1,840	1,870	1,780	1,710	1,750
26	845	802	835	1,670	1,660	1,660	1,890	1,710	1,820	1,750	1,710	1,720
27	901	844	877	1,660	1,650	1,660	1,810	1,650	1,700	1,790	1,710	1,760
28	944	895	909	1,650	1,600	1,630	1,960	1,810	1,920	1,710	1,590	1,650
29	978	944	952	1,600	1,580	1,590	1,980	1,950	1,960	1,590	1,560	1,570
30	1,010	978	1,000	1,630	1,600	1,620	1,950	1,910	1,930	1,690	1,570	1,640
31	1,020	1,010	1,020	---	---	---	1,920	1,840	1,880	1,840	1,680	1,750
MONTH	1,020	57	595	1,670	1,020	1,420	1,980	1,580	1,750	1,840	1,470	1,630

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1,960	1,840	1,890	907	870	896	936	806	876	1,620	1,400	1,500
2	1,980	1,950	1,970	924	906	916	881	810	851	1,400	1,290	1,340
3	1,950	1,880	1,920	912	883	903	934	833	897	1,290	1,250	1,260
4	1,880	1,810	1,830	919	136	613	904	829	884	1,260	1,250	1,250
5	1,890	1,810	1,840	---	100	---	---	841	---	1,380	1,260	1,320
6	1,950	1,890	1,930	143	120	136	998	---	---	1,490	1,380	1,430
7	1,930	1,810	1,860	167	132	148	1,040	998	1,020	1,560	1,490	1,520
8	1,810	1,740	1,760	196	166	177	1,080	1,040	1,070	1,630	1,560	1,610
9	1,740	1,720	1,730	278	196	224	1,130	1,080	1,100	1,610	1,430	1,520
10	1,780	1,720	1,750	376	278	328	1,150	1,130	1,140	1,430	---	---
11	1,790	1,720	1,770	453	376	414	1,170	1,150	1,160	---	1,300	---
12	1,720	1,660	1,680	562	453	506	1,210	1,170	1,190	1,300	1,250	1,290
13	1,690	1,650	1,660	685	562	622	---	1,210	---	1,250	555	906
14	1,710	1,660	1,680	760	685	729	1,360	---	---	1,250	967	1,190
15	1,800	1,710	1,760	848	760	801	1,360	1,350	1,360	1,050	875	916
16	1,810	1,720	1,780	926	848	885	1,390	1,360	1,380	1,270	1,050	1,190
17	1,720	1,610	1,660	999	926	967	1,440	1,390	1,420	1,090	980	1,010
18	1,640	1,590	1,620	1,080	999	1,030	1,410	1,310	1,350	992	964	975
19	1,640	1,600	1,620	1,100	1,080	1,090	1,310	1,300	1,310	1,160	992	1,070
20	1,640	1,550	1,580	1,160	1,100	1,140	1,320	1,300	1,310	2,080	1,070	1,400
21	2,230	1,640	1,820	1,170	1,160	1,170	1,340	1,310	1,330	2,160	1,570	1,860
22	2,270	1,250	1,450	1,200	1,170	1,190	1,340	1,320	1,340	1,580	1,190	1,360
23	1,290	1,140	1,210	1,220	1,200	1,210	1,370	1,340	1,350	1,190	1,110	1,150
24	1,320	1,150	1,260	1,240	1,220	1,230	1,380	1,340	1,370	1,110	1,000	1,050
25	1,150	999	1,060	1,270	1,240	1,250	1,410	1,340	1,380	1,000	926	966
26	1,000	943	978	1,270	1,090	1,150	1,460	1,370	1,420	928	894	910
27	943	892	916	1,100	1,040	1,080	1,630	1,460	1,550	896	848	878
28	892	865	876	1,120	1,030	1,080	1,650	1,540	1,610	860	839	852
29	875	866	869	1,680	1,100	1,300	1,630	1,570	1,600	853	790	839
30	---	---	---	1,800	1,160	1,420	1,710	1,620	1,670	849	830	844
31	---	---	---	1,160	936	1,020	---	---	---	843	792	827
MONTH	2,270	865	1,580	1,800	100	854	1,710	806	1,270	2,160	555	1,180

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	858	789	828	269	217	245	481	403	437	1,160	1,100	1,130
2	866	841	861	399	269	301	582	481	528	1,180	1,130	1,160
3	872	863	868	429	108	184	677	582	636	1,240	1,180	1,210
4	879	868	873	357	95	162	718	677	695	1,240	1,240	1,240
5	897	868	883	149	101	127	755	718	739	1,240	1,100	1,200
6	932	891	915	198	126	154	794	755	779	1,140	1,030	1,090
7	950	924	934	357	198	263	807	792	799	1,110	1,020	1,080
8	962	931	948	943	357	576	844	805	821	1,020	962	987
9	958	917	938	534	332	371	853	839	845	962	913	938
10	1,010	806	924	344	331	335	852	622	751	921	896	910
11	1,030	934	975	393	344	369	938	796	840	896	865	876
12	1,040	805	954	437	393	414	1,120	391	711	865	839	849
13	805	652	699	473	437	457	788	419	584	839	812	824
14	680	641	658	---	472	---	856	717	825	812	790	797
15	808	680	733	---	---	---	898	834	871	792	778	784
16	965	808	912	578	---	---	1,150	897	1,020	795	780	786
17	999	940	969	597	578	589	1,280	1,150	1,230	806	795	802
18	1,030	192	527	---	595	---	1,180	---	---	811	804	808
19	497	268	364	654	---	---	---	996	---	818	809	813
20	1,250	497	752	663	647	655	1,000	969	990	826	817	821
21	631	211	358	672	624	654	969	860	922	823	813	818
22	613	208	327	670	623	640	865	819	838	816	810	813
23	430	238	327	670	169	378	839	822	833	816	801	809
24	470	316	346	288	133	187	855	838	848	838	807	820
25	342	315	325	155	101	118	845	825	837	846	838	843
26	382	342	364	131	101	112	826	806	812	857	845	848
27	409	377	397	153	131	137	853	825	844	892	857	876
28	467	118	324	203	153	180	929	853	888	---	---	---
29	206	134	164	299	203	249	1,070	929	1,010	---	---	---
30	217	179	200	356	299	329	1,070	1,050	1,060	---	---	---
31	---	---	---	403	356	382	1,150	1,050	1,110	---	---	---
MONTH	1,250	118	655	943	95	330	1,280	391	831	1,240	778	923

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.8	7.7	7.8	7.8	7.8	7.8	8.2	8.0	8.1	8.3	8.2	8.3
2	7.8	7.7	7.8	7.9	7.8	7.8	8.1	8.1	8.1	8.4	8.2	8.3
3	7.8	7.7	7.8	7.8	7.7	7.8	8.1	8.0	8.0	8.4	8.2	8.3
4	7.8	7.8	7.8	7.9	7.8	7.8	8.2	8.0	8.0	8.3	8.2	8.3
5	8.0	7.8	7.8	7.9	7.8	7.8	8.2	8.1	8.1	8.3	8.2	8.3
6	8.0	7.8	7.9	7.9	7.8	7.8	8.2	8.1	8.2	8.3	8.3	8.3
7	8.2	8.0	8.0	7.9	7.8	7.9	8.2	8.1	8.2	8.3	8.2	8.3
8	8.2	7.5	8.1	7.9	7.8	7.9	8.2	8.1	8.2	8.3	8.2	8.2
9	7.6	6.7	6.8	7.9	7.8	7.9	8.2	8.1	8.2	8.2	8.2	8.2
10	6.8	6.7	6.7	7.9	7.8	7.9	8.2	8.2	8.2	8.2	8.2	8.2
11	6.9	6.8	6.9	7.9	7.8	7.9	8.2	8.2	8.2	8.2	8.1	8.2
12	7.0	6.9	7.0	8.0	7.8	7.9	8.2	8.2	8.2	8.2	8.1	8.2
13	7.1	7.0	7.1	8.0	7.9	8.0	8.2	8.2	8.2	8.2	8.1	8.2
14	7.2	7.1	7.2	8.1	8.0	8.0	8.2	8.1	8.2	8.2	8.1	8.2
15	7.3	7.2	7.3	8.1	8.0	8.0	8.2	8.1	8.2	8.3	8.1	8.2
16	7.3	7.3	7.3	8.1	8.0	8.0	8.2	8.1	8.2	8.2	8.2	8.2
17	7.4	7.3	7.3	8.1	8.0	8.0	8.2	8.1	8.2	8.2	8.1	8.2
18	7.4	7.4	7.4	8.1	7.9	8.0	8.2	8.1	8.2	8.4	8.1	8.2
19	7.5	7.4	7.4	8.1	8.0	8.0	8.2	8.1	8.2	8.4	8.3	8.3
20	7.5	7.5	7.5	8.1	7.9	8.0	8.2	8.1	8.2	8.4	8.2	8.3
21	7.6	7.5	7.5	8.1	8.0	8.1	8.3	8.1	8.2	8.3	8.1	8.2
22	7.6	7.6	7.6	8.1	8.0	8.1	8.2	8.1	8.2	8.2	8.1	8.2
23	7.6	7.6	7.6	8.2	8.1	8.1	8.3	8.1	8.2	8.2	8.1	8.2
24	7.7	7.6	7.6	8.2	8.1	8.1	8.3	8.2	8.2	8.2	8.1	8.2
25	7.7	7.6	7.6	8.1	8.1	8.1	8.3	8.2	8.2	8.2	8.1	8.2
26	7.7	7.6	7.7	8.1	8.1	8.1	8.3	8.2	8.3	8.3	8.1	8.2
27	7.7	7.6	7.7	8.1	8.0	8.1	8.3	8.2	8.3	8.3	8.2	8.2
28	7.8	7.7	7.7	8.1	8.0	8.1	8.3	8.2	8.3	8.3	8.2	8.2
29	7.8	7.7	7.8	8.1	8.0	8.1	8.3	8.2	8.3	8.3	8.2	8.3
30	7.9	7.7	7.8	8.1	8.0	8.1	8.3	8.2	8.3	8.3	8.2	8.2
31	7.9	7.8	7.8	---	---	---	8.4	8.2	8.3	8.2	8.2	8.2
MAX	8.2	8.0	8.1	8.2	8.1	8.1	8.4	8.2	8.3	8.4	8.3	8.3
MIN	6.8	6.7	6.7	7.8	7.7	7.8	8.1	8.0	8.0	8.2	8.1	8.2

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.2	8.2	8.2	8.2	8.0	8.0	7.9	7.8	7.8	8.2	7.9	8.1
2	8.2	8.2	8.2	8.2	8.0	8.1	8.0	7.8	7.9	8.2	8.0	8.1
3	8.2	8.1	8.2	8.1	7.9	8.0	8.2	7.9	8.0	8.3	8.0	8.2
4	8.2	8.1	8.2	8.0	7.6	7.9	8.2	7.8	8.0	8.3	8.0	8.2
5	8.2	8.1	8.2	7.6	7.2	7.2	8.3	7.9	8.1	8.2	8.0	8.1
6	8.2	8.1	8.2	7.2	7.2	7.2	8.4	7.9	8.2	8.3	8.0	8.1
7	8.2	8.1	8.1	7.2	7.1	7.2	8.5	8.0	8.2	8.2	8.0	8.1
8	8.1	8.0	8.0	7.2	7.1	7.2	8.5	8.1	8.4	8.2	8.0	8.1
9	8.1	8.0	8.0	7.3	7.2	7.2	8.5	8.2	8.2	8.2	7.9	8.1
10	8.1	8.0	8.0	7.4	7.3	7.4	8.3	8.0	8.1	8.2	7.9	8.1
11	8.1	8.0	8.0	7.5	7.4	7.4	8.4	8.0	8.2	8.2	8.0	8.1
12	8.1	8.0	8.1	7.5	7.5	7.5	8.5	8.1	8.3	8.2	8.0	8.1
13	8.1	8.0	8.0	7.6	7.5	7.6	8.4	8.1	8.3	8.2	7.6	7.9
14	8.1	8.0	8.1	7.6	7.6	7.6	8.4	8.2	8.3	8.0	7.7	7.9
15	8.1	8.1	8.1	7.7	7.6	7.6	8.4	8.1	8.3	7.8	7.7	7.8
16	8.1	8.0	8.1	7.7	7.7	7.7	8.4	8.1	8.3	7.9	7.8	7.8
17	8.1	8.0	8.1	7.8	7.7	7.7	8.4	8.1	8.3	7.9	7.7	7.8
18	8.2	8.0	8.1	7.8	7.7	7.8	8.3	8.1	8.2	7.8	7.7	7.8
19	8.2	8.0	8.1	7.8	7.8	7.8	8.3	---	8.2	8.1	7.8	7.8
20	8.2	8.0	8.1	7.9	7.8	7.8	8.2	8.0	8.1	8.3	8.0	8.1
21	8.2	8.1	8.1	8.0	7.8	7.9	8.2	8.0	8.1	8.1	8.0	8.1
22	8.1	8.0	8.0	8.1	7.8	8.0	8.1	7.9	8.0	8.0	7.9	7.9
23	8.1	8.0	8.1	8.2	7.9	8.0	8.0	7.9	8.0	8.0	7.8	7.9
24	8.2	8.0	8.1	8.1	7.9	8.0	8.1	7.9	8.0	7.9	7.8	7.9
25	8.1	8.0	8.0	8.2	7.9	8.0	8.2	7.9	8.0	8.0	7.8	7.9
26	8.2	8.0	8.0	8.1	7.9	8.0	8.2	8.0	8.1	7.9	7.8	7.8
27	8.2	8.0	8.0	7.9	7.8	7.9	8.3	8.0	8.1	7.9	7.8	7.8
28	8.2	8.0	8.1	8.1	7.8	7.9	8.3	8.0	8.2	8.0	7.8	7.9
29	8.1	7.9	8.0	8.0	7.8	7.9	8.2	8.0	8.1	8.1	7.9	8.0
30	---	---	---	7.9	7.8	7.9	8.2	8.0	8.1	8.1	8.0	8.1
31	---	---	---	7.9	7.8	7.8	---	---	---	8.4	8.1	8.2
MAX	8.2	8.2	8.2	8.2	8.0	8.1	8.5	8.2	8.4	8.4	8.1	8.2
MIN	8.1	7.9	8.0	7.2	7.1	7.2	7.9	7.8	7.8	7.8	7.6	7.8

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.3	8.0	8.2	7.4	7.3	7.3	7.6	7.6	7.6	8.3	8.2	8.2
2	8.2	8.0	8.1	7.6	7.4	7.4	7.7	7.6	7.6	8.2	8.1	8.2
3	8.3	8.1	8.2	7.6	7.1	7.2	7.9	7.7	7.8	8.2	8.1	8.2
4	8.4	8.1	8.2	7.4	6.9	7.2	8.0	7.8	7.8	8.2	8.1	8.1
5	8.3	8.1	8.3	7.0	6.9	7.0	8.1	7.8	7.9	8.1	8.0	8.1
6	8.4	8.2	8.3	7.3	7.0	7.1	8.2	7.9	8.0	8.2	8.0	8.1
7	8.4	8.1	8.3	7.5	7.3	7.4	8.3	7.9	8.0	8.3	8.1	8.2
8	8.3	8.1	8.2	7.7	7.5	7.6	8.4	7.9	8.1	8.2	8.2	8.2
9	8.2	8.1	8.1	7.6	7.6	7.6	8.5	8.0	8.3	8.2	8.1	8.2
10	8.3	7.9	8.1	7.6	7.6	7.6	8.4	8.0	8.2	8.2	8.1	8.2
11	8.3	8.0	8.1	7.7	7.6	7.6	8.4	8.0	8.2	8.3	8.1	8.2
12	8.4	8.1	8.2	7.8	7.6	7.7	8.0	7.6	7.8	8.4	8.2	8.2
13	8.1	7.8	7.9	7.9	7.7	7.8	7.8	7.6	7.7	8.3	8.2	8.2
14	8.1	7.8	7.8	8.2	7.8	7.9	8.0	7.7	7.8	8.3	8.2	8.2
15	8.4	7.9	8.0	8.4	7.9	8.0	8.2	7.8	7.9	8.3	8.1	8.2
16	8.6	8.4	8.5	8.4	7.9	8.2	8.4	7.9	8.1	8.2	8.1	8.1
17	8.6	8.2	8.4	8.6	8.2	8.4	8.7	8.1	8.4	8.2	8.1	8.1
18	8.2	7.1	7.5	8.6	8.2	8.5	8.8	8.3	8.6	8.2	8.0	8.1
19	7.5	7.2	7.4	8.4	8.0	8.3	8.7	8.3	8.5	8.2	8.0	8.1
20	7.6	7.5	7.6	8.5	8.1	8.2	8.6	8.2	8.4	8.2	8.1	8.1
21	7.6	7.3	7.5	9.0	8.4	8.6	8.5	8.3	8.4	8.2	8.0	8.1
22	7.6	7.3	7.3	9.0	8.5	8.7	8.6	8.2	8.4	8.2	8.0	8.1
23	7.5	7.3	7.4	8.7	7.2	7.7	8.6	8.3	8.5	8.2	8.0	8.1
24	7.6	7.5	7.5	7.4	7.0	7.2	8.5	8.3	8.4	8.2	8.0	8.0
25	7.6	7.6	7.6	7.1	6.9	6.9	8.4	8.3	8.4	8.2	8.0	8.1
26	7.6	7.6	7.6	7.0	6.8	6.9	8.4	8.2	8.3	8.2	8.1	8.1
27	7.6	7.6	7.6	7.1	7.0	7.0	8.4	8.1	8.3	8.3	8.1	8.2
28	7.7	7.0	7.6	7.2	7.1	7.2	8.4	8.2	8.3	8.2	8.1	8.2
29	7.2	7.0	7.1	7.4	7.2	7.3	8.3	8.2	8.3	8.3	8.1	8.2
30	7.3	7.2	7.3	7.5	7.4	7.5	8.3	8.2	8.2	8.3	8.2	8.2
31	---	---	---	7.6	7.5	7.5	8.3	8.2	8.2	---	---	---
MAX	8.6	8.4	8.5	9.0	8.5	8.7	8.8	8.3	8.6	8.4	8.2	8.2
MIN	7.2	7.0	7.1	7.0	6.8	6.9	7.6	7.6	7.6	8.1	8.0	8.0

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	12.3	13.7	11.8	10.9	11.3	6.3	5.5	6.0	6.0	4.6	5.4
2	15.0	13.6	14.4	14.0	11.8	12.9	5.8	5.1	5.4	6.9	5.6	6.2
3	15.8	14.4	15.1	13.1	11.9	12.4	6.0	5.8	5.9	6.8	4.6	5.7
4	15.4	14.5	15.1	11.9	9.9	10.9	6.6	5.6	6.1	4.6	2.4	3.5
5	17.6	15.1	16.2	9.9	8.6	9.1	6.2	3.8	4.8	2.4	0.4	1.2
6	18.3	16.1	17.2	9.0	7.9	8.5	4.0	3.2	3.7	0.9	0.2	0.5
7	18.7	16.7	17.7	8.7	7.4	8.1	5.3	3.7	4.5	0.9	0.3	0.5
8	18.2	16.2	17.6	8.4	7.9	8.2	6.1	5.1	5.7	2.0	0.7	1.3
9	17.0	16.0	16.4	9.5	7.7	8.5	6.1	2.4	4.6	2.2	1.5	1.8
10	17.8	17.0	17.4	10.1	9.3	9.5	2.4	0.9	1.6	2.4	1.2	1.9
11	18.0	17.1	17.5	11.8	10.1	11.0	2.4	1.4	1.9	3.6	2.3	2.9
12	17.1	15.6	16.5	11.7	9.6	10.7	2.1	0.9	1.8	3.8	2.8	3.3
13	16.0	14.8	15.6	9.6	8.9	9.2	1.7	0.3	1.0	3.9	2.8	3.4
14	15.3	14.7	14.9	9.4	8.5	9.0	1.9	0.8	1.4	4.3	3.0	3.7
15	14.7	13.6	14.2	11.4	9.4	10.3	3.1	1.9	2.5	4.4	3.6	4.0
16	14.8	13.9	14.4	10.8	9.6	10.3	2.8	1.7	2.3	6.0	4.4	5.3
17	14.4	13.4	14.0	13.0	10.2	11.6	2.4	1.1	1.7	6.0	4.0	5.3
18	15.0	13.2	13.9	13.0	10.4	11.9	3.2	2.3	2.7	4.0	2.7	3.4
19	16.4	13.5	14.7	10.6	9.3	10.1	3.0	2.2	2.6	2.7	1.5	2.1
20	17.4	14.6	15.9	11.1	9.9	10.6	3.4	2.2	2.8	3.2	2.5	2.9
21	17.8	15.2	16.5	11.0	9.6	10.1	4.0	3.2	3.6	4.1	2.5	3.4
22	18.1	15.7	17.0	9.6	8.6	9.1	4.2	3.6	4.0	3.9	3.0	3.5
23	18.0	15.9	17.2	8.6	5.2	6.9	3.6	2.6	3.2	4.1	2.4	3.3
24	17.8	16.3	17.0	5.2	3.9	4.6	3.5	2.5	3.1	4.6	3.8	4.2
25	16.5	14.1	14.9	5.7	4.4	5.1	4.3	2.7	3.5	4.6	3.8	4.2
26	14.4	12.5	13.5	6.2	5.0	5.6	5.8	3.8	4.5	3.8	0.6	2.3
27	14.0	12.1	13.3	5.5	4.5	5.1	7.2	5.8	6.5	1.2	0.0	0.5
28	13.9	12.8	13.4	4.5	3.5	4.0	6.0	4.3	4.9	1.0	0.3	0.6
29	14.0	12.0	13.1	5.0	3.1	4.1	5.0	3.9	4.6	0.7	0.2	0.5
30	13.8	12.7	13.4	6.4	4.8	5.6	5.0	3.7	4.4	0.8	0.1	0.4
31	12.7	11.5	11.9	---	---	---	5.0	4.2	4.7	0.4	0.2	0.3
MONTH	18.7	11.5	15.3	14.0	3.1	8.8	7.2	0.3	3.7	6.9	0.0	2.8

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.4	0.7	8.3	6.1	7.3	15.9	11.9	13.6	17.2	13.7	15.4
2	0.9	0.1	0.4	8.3	6.7	7.6	16.4	11.9	14.0	16.9	14.3	15.9
3	0.9	0.1	0.5	8.2	7.2	7.8	15.9	12.3	14.1	17.3	13.6	15.6
4	1.7	0.6	1.1	7.9	5.2	6.6	16.3	12.1	14.2	18.5	14.9	16.8
5	2.3	1.5	1.9	5.2	4.8	4.9	15.7	12.6	14.2	20.8	15.8	18.2
6	2.1	1.0	1.6	7.2	4.6	5.3	16.3	13.5	14.9	22.5	17.6	20.1
7	1.3	0.2	0.7	8.0	7.0	7.3	17.7	14.4	15.9	23.6	19.5	21.8
8	1.3	0.1	0.6	8.9	8.0	8.3	17.8	14.2	16.2	24.4	20.7	22.8
9	2.5	0.6	1.6	10.5	8.9	10	17.3	13.9	15.0	24.3	21.4	22.9
10	3.0	1.9	2.5	10.3	8.9	9.6	13.9	12.8	13.4	23.5	20.8	22.1
11	3.0	2.0	2.6	10.2	9.0	9.6	14.5	10.3	12.4	22.7	21.0	21.9
12	2.0	0.4	1.1	10.3	8.7	9.5	14.0	10.7	11.9	23.2	21.0	22.1
13	2.1	0.2	1.1	9.8	9.4	9.7	14.4	10.4	12.3	23.1	16.1	18.0
14	3.5	2.0	2.7	11.2	8.7	9.8	15.4	10.6	13.4	18.7	15.5	16.9
15	2.7	1.1	1.8	12.2	9.5	10.5	17.5	12.4	14.8	18.7	13.8	16.0
16	2.9	1.8	2.2	11.4	9.3	10.2	20.0	14.7	17.4	20.5	16.3	18.5
17	4.4	2.5	3.5	12.7	9.0	10.7	21.4	17.0	19.4	22.6	18.5	20.5
18	5.6	3.6	4.6	14.0	10.0	11.8	20.9	18.3	19.1	22.6	20.0	21.0
19	7.5	5.3	6.3	13.7	11.2	12.4	21.1	---	---	25.0	20.7	22.5
20	7.2	5.5	6.4	14.0	12.0	13.0	21.0	18.2	19.1	26.3	21.6	23.9
21	6.8	3.3	5.3	14.0	10.9	12.4	19.0	16.7	18.0	26.4	22.8	24.6
22	5.4	3.2	4.1	13.0	10.1	11.7	19.0	16.7	17.4	26.4	22.3	24.4
23	7.6	4.8	6.2	14.8	10.2	12.4	16.8	15.0	15.7	26.0	22.3	24.4
24	6.9	5.2	6.0	14.4	12.4	13.4	16.7	14.9	15.8	25.7	23.0	24.5
25	6.1	4.9	5.4	16.2	14.3	15.1	17.7	13.4	15.6	25.0	21.5	22.7
26	6.6	3.5	5.2	17.3	15.0	16.1	18.2	14.7	16.7	22.5	21.1	21.7
27	7.6	4.2	6.0	16.8	15.6	16.2	20.1	14.8	17.4	24.3	21.6	22.9
28	7.7	5.8	6.8	17.8	14.4	16.0	19.9	16.4	18.4	24.7	22.5	23.8
29	7.9	7.3	7.6	16.7	14.0	15.1	19.2	16.5	17.5	24.8	23.0	24.1
30	---	---	---	14.8	13.3	14.1	17.4	14.8	15.7	24.4	22.6	23.6
31	---	---	---	15.3	12.7	13.7	---	---	---	22.6	20.4	21.6
MONTH	7.9	0.1	3.3	17.8	4.6	10.9	21.4	10.3	15.6	26.4	13.6	21.0

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.4	20.4	21.9	24.4	21.9	23.0	26.9	23.9	25.2	24.8	23.1	23.9
2	22.6	20.1	21.5	25.8	22.1	23.5	28.3	25.0	26.3	25.1	23.2	24.1
3	22.7	19.0	20.8	23.8	21.5	22.7	29.0	25.1	26.9	24.4	22.9	23.8
4	23.8	21.3	22.4	23.8	20.2	22.2	28.1	25.4	26.7	24.6	22.7	23.7
5	23.1	21.8	22.6	23.9	21.4	22.9	27.3	24.7	26.0	24.4	23.1	23.8
6	26.0	22.7	24.2	25.6	23.6	24.5	26.1	23.3	24.6	23.4	21.4	22.4
7	25.3	24.2	24.8	25.5	---	---	25.1	22.4	23.8	23.6	21.1	22.2
8	24.8	23.3	24.1	26.0	23.7	25.0	25.4	22.6	24.1	23.3	21.0	22.0
9	24.1	22.8	23.5	25.9	24.4	25.0	26.5	22.6	24.6	22.7	20.7	21.7
10	24.4	22.3	23.2	27.1	23.8	25.1	26.2	22.3	24.7	22.5	20.7	21.7
11	26.6	22.8	24.6	29.0	24.4	26.4	25.6	22.7	23.9	22.8	21.0	21.8
12	27.3	25.4	26.4	29.5	25.0	27.2	22.8	21.2	22.1	23.8	21.7	22.7
13	26.5	23.9	25.2	29.9	25.9	28.1	23.0	20.8	21.7	24.0	22.4	23.3
14	27.9	24.5	26.1	29.8	26.7	28.3	23.5	19.6	21.4	24.0	22.4	23.3
15	27.3	25.6	26.5	30.1	27.1	28.8	23.1	19.8	21.6	24.9	22.7	23.6
16	26.5	25.1	26.0	30.1	27.1	28.2	23.2	20.5	21.9	23.3	21.6	22.5
17	27.0	24.9	25.8	27.4	25.9	26.7	25.2	21.5	23.3	23.1	21.2	22.2
18	26.6	20.9	22.4	27.8	25.0	26.4	25.6	22.6	24.3	24.8	22.3	23.5
19	21.9	20.9	21.3	29.2	26.3	27.7	25.6	21.1	23.0	24.6	23.3	23.9
20	21.9	20.1	20.9	29.8	26.9	28.3	22.6	20.1	21.3	23.5	21.8	22.5
21	22.4	20.5	21.5	30.0	27.3	28.4	23.4	21.3	22.4	22.1	21.1	21.6
22	22.5	20.6	21.7	30.1	27.0	28.2	23.8	22.1	23.0	22.5	20.9	21.7
23	23.2	21.4	22.3	27.7	21.3	23.5	24.6	22.9	23.8	22.6	21.0	21.8
24	24.4	21.7	22.9	21.3	19.6	20.3	25.8	23.9	24.9	22.3	20.1	21.1
25	24.8	21.9	23.1	19.6	18.9	19.1	26.1	25.3	25.7	22.5	19.9	21.1
26	24.1	20.7	22.3	21.5	19.5	20.3	27.1	24.6	25.7	22.3	20.0	21.0
27	23.5	21.2	22.5	22.3	21.5	22.0	27.2	25.0	26.4	22.3	20.0	21.0
28	22.5	21.0	21.6	22.8	21.7	22.3	26.9	24.2	25.3	20.9	19.9	20.6
29	23.1	20.7	21.8	21.9	21.6	21.7	24.5	22.6	23.7	19.9	18.3	19.2
30	24.4	22.2	23.1	22.9	21.2	22.0	24.5	23.4	23.9	19.6	18.2	19.0
31	---	---	---	24.8	22.1	23.3	24.0	23.0	23.6	---	---	---
MONTH	27.9	19.0	23.2	30.1	18.9	24.7	29.0	19.6	24.1	25.1	18.2	22.2

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.9	7.8	8.3	10.3	8.9	9.6	13.4	11.0	12.3	14.4	11.2	13.0
2	8.7	7.7	8.2	10.8	8.6	9.7	13.0	11.5	12.1	14.5	11.1	12.9
3	8.4	7.8	8.1	9.6	8.5	9.0	11.7	10.4	11.0	14.1	10.9	12.6
4	8.3	7.4	7.9	10.4	8.7	9.5	13.3	10.2	11.8	13.6	10.9	12.4
5	9.1	7.8	8.4	10.3	9.2	9.8	13.8	11.2	12.6	14.6	11.6	13.2
6	9.3	7.6	8.4	11.2	9.6	10.4	14.2	11.9	13.2	15.2	12.8	14.1
7	9.5	8.1	8.9	11.7	9.9	10.7	13.8	11.8	13.0	15.1	12.8	14.1
8	9.5	7.7	8.4	11.6	10.1	10.9	13.8	11.3	12.7	14.8	12.7	13.9
9	8.0	6.3	6.7	12.2	10.2	11.2	13.2	11.4	11.9	14.9	12.2	13.7
10	6.3	5.5	5.8	11.1	9.9	10.5	14.6	11.8	13.2	15.2	12.8	14.1
11	5.5	5.4	5.5	11.3	9.4	10.3	14.8	12.8	13.8	15.2	12.4	13.8
12	6.3	5.5	5.8	11.8	9.2	10.5	14.3	12.5	13.5	15.3	12.4	13.9
13	6.8	6.3	6.5	12.4	10.0	11.2	15.7	12.5	14.0	14.9	12.4	13.7
14	7.6	6.8	7.1	12.5	10.2	11.4	15.9	13.0	14.6	14.8	12.1	13.5
15	8.2	7.6	8.0	12.3	9.7	11.1	15.1	12.7	14.0	15.3	12.0	13.7
16	8.2	7.9	8.1	12.6	9.7	11.1	15.2	12.5	13.9	14.5	11.9	12.7
17	8.7	8.1	8.4	12.0	9.6	10.9	15.6	13.1	14.4	12.4	10.8	11.5
18	8.7	8.5	8.7	11.7	9.0	10.4	15.3	12.6	14.0	15.3	11.0	13.0
19	8.8	8.3	8.6	11.8	9.4	10.6	15.4	12.6	14.1	16.0	12.3	14.2
20	8.4	7.9	8.3	11.5	9.4	10.5	15.4	12.8	14.1	14.8	11.9	13.2
21	8.3	7.8	8.1	11.2	9.0	10.2	15.6	12.2	14.0	14.7	11.4	13.1
22	8.3	7.8	8.0	11.4	9.4	10.5	14.6	11.8	12.6	14.5	11.6	13.2
23	8.2	7.7	7.9	11.9	9.8	10.9	15.0	11.0	12.9	14.8	12.0	13.5
24	8.4	7.7	8.0	12.3	10.8	11.6	15.1	11.7	13.5	14.0	11.6	13.0
25	8.8	7.9	8.3	12.5	10.8	11.7	15.1	11.3	13.3	13.1	11.0	11.9
26	9.5	8.4	8.8	12.4	10.7	11.7	13.8	11.2	12.7	15.0	11.1	12.9
27	10.0	8.6	9.2	12.8	10.8	11.9	13.9	10.6	12.3	15.1	12.7	13.9
28	10.4	8.6	9.5	13.2	11.4	12.4	14.3	10.3	12.4	15.4	12.2	13.8
29	10.4	8.8	9.5	13.3	11.7	12.6	13.5	10.2	12.1	15.3	12.4	13.9
30	10.3	8.4	9.2	12.9	11.0	12.1	14.0	10.4	12.3	15.5	13.1	14.4
31	10.7	8.7	9.6	---	---	---	14.8	10.8	12.9	14.7	12.8	13.8
MONTH	10.7	5.4	8.1	13.3	8.5	10.8	15.9	10.2	13.1	16.0	10.8	13.4

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.9	12.2	13.2	14.0	10.7	12.1	10.0	8.5	9.1	14.0	8.0	10.7
2	15.9	12.7	14.2	14.4	10.5	12.3	10.9	8.5	9.4	14.2	8.4	11.2
3	16.1	13.3	14.6	12.3	10.6	11.4	11.6	8.4	9.8	14.4	8.7	11.4
4	15.0	12.4	13.8	12.5	11.0	11.8	12.3	8.3	10.2	13.9	8.5	11.0
5	14.9	12.3	13.7	---	12.2	---	13.5	8.3	10.6	12.9	8.0	10.2
6	15.8	12.7	14.2	12.3	11.6	12.0	14.1	8.2	10.9	12.8	7.4	9.7
7	15.8	13.1	14.4	11.6	11.0	11.3	16.0	8.3	11.8	11.7	6.8	9.0
8	15.9	12.9	14.3	11.0	10.6	10.7	15.8	8.7	12.1	10.8	6.3	8.4
9	15.7	12.4	14.0	10.7	10.2	10.4	12.2	8.6	10.0	9.8	5.7	7.8
10	15.4	12.5	13.9	11.1	10.6	10.8	13.8	8.3	10.8	13.3	5.5	9.0
11	15.8	12.5	14.1	---	10.9	---	15.4	9.2	12.0	9.5	---	---
12	16.0	13.1	14.5	---	---	---	16.4	9.9	12.9	10.6	6.2	8.1
13	16.2	13.1	14.7	---	---	---	15.9	10.0	12.8	8.7	7.0	7.6
14	15.8	12.4	14.1	---	---	---	14.6	10.0	12.3	9.2	7.7	8.2
15	16.4	12.8	14.6	---	9.2	---	14.4	9.4	11.6	9.4	7.7	8.5
16	16.3	12.8	14.6	9.4	9.2	9.3	14.2	8.9	11.2	9.3	7.7	8.4
17	15.9	12.6	14.3	9.8	9.2	9.5	12.8	8.3	10.4	9.0	6.9	7.9
18	16.2	12.3	14.2	9.8	9.1	9.4	10.1	7.6	8.9	8.3	6.2	7.3
19	15.2	11.5	13.4	9.7	8.9	9.2	11.7	7.1	9.2	10.3	6.6	8.2
20	15.4	10.8	12.9	10.3	8.7	9.4	10.3	7.1	8.6	11.8	8.1	9.4
21	13.5	11.7	12.4	11.0	8.9	9.8	11.8	7.5	9.5	9.1	6.5	7.7
22	12.8	11.9	12.5	11.8	8.9	10.2	10.0	7.3	8.7	7.7	5.9	6.7
23	12.1	11.2	11.7	12.4	9.2	10.6	10.4	7.6	8.9	8.1	5.7	6.7
24	12.7	11.1	11.7	11.3	8.8	9.9	11.9	7.8	9.7	7.9	5.6	6.7
25	12.8	10.8	11.6	11.6	8.3	9.7	13.4	8.4	10.6	8.5	5.8	7.1
26	13.6	11.1	12.1	11.1	7.9	9.4	14.1	8.4	10.8	7.6	6.0	6.9
27	14.1	11.0	12.3	8.6	7.6	8.0	14.1	8.5	10.8	8.3	6.0	7.1
28	13.8	10.9	12.2	10.8	7.5	8.9	13.9	8.0	10.6	9.6	6.2	7.8
29	12.1	10.6	11.3	9.8	7.9	8.6	12.1	7.6	9.7	10.6	6.6	8.5
30	---	---	---	9.1	8.1	8.5	11.3	7.7	9.6	10.1	6.4	8.3
31	---	---	---	9.3	8.4	8.8	---	---	---	12.8	7.3	10
MONTH	16.4	10.6	13.4	14.4	7.5	10.1	16.4	7.1	10.4	14.4	5.5	8.5

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.2	7.5	10.2	6.6	6.1	6.4	6.4	6.1	6.2	8.3	6.5	7.5
2	10.4	7.4	8.9	6.6	6.2	6.4	6.4	5.9	6.1	8.2	6.2	7.3
3	13.1	8.1	10.3	6.2	5.2	5.7	7.5	5.9	6.5	8.0	6.3	7.2
4	13.9	7.8	10.6	6.4	5.5	6.0	8.4	6.0	6.9	7.7	6.3	7.1
5	12.5	7.9	10.1	5.7	5.1	5.4	8.6	6.2	7.2	7.4	6.1	6.8
6	13.0	7.5	10.0	6.0	5.4	5.7	9.4	6.4	7.6	9.2	5.8	7.3
7	10.6	6.6	8.7	6.3	6.0	6.2	10.8	6.7	8.4	9.2	6.8	7.9
8	---	6.6	---	6.2	5.8	6.0	11.7	6.8	9.0	8.8	6.9	7.9
9	---	---	---	6.3	5.8	6.1	13.4	6.8	9.7	8.4	6.9	7.7
10	9.2	---	---	6.4	6.1	6.3	10.3	7.0	8.4	8.4	6.9	7.8
11	11.8	6.1	8.6	6.4	5.8	6.2	11.5	6.8	8.5	9.0	7.2	8.1
12	10.9	6.3	8.7	6.7	5.8	6.1	7.3	6.9	7.1	8.9	7.4	8.2
13	8.5	5.6	7.3	7.8	5.6	6.5	7.8	7.2	7.4	8.3	7.1	7.8
14	9.4	5.7	7.5	9.6	5.6	7.3	8.5	7.4	7.8	8.1	6.9	7.5
15	10.8	5.9	8.3	11.7	5.8	8.4	10.6	7.1	8.6	8.6	6.3	7.3
16	13.7	6.3	9.9	10.3	5.8	8.1	12.2	7.2	9.4	8.3	6.3	7.2
17	12.6	6.6	9.5	12.9	6.6	9.9	16.9	7.6	11.8	8.0	6.6	7.2
18	8.3	5.6	6.5	12.4	7.2	10.0	16.1	7.8	11.9	7.9	6.2	7.0
19	7.1	6.1	6.7	10.4	5.7	8.1	12.8	7.8	9.6	7.7	5.8	6.8
20	7.7	7.1	7.4	9.9	5.5	7.6	13.9	7.6	10.4	7.9	6.3	7.1
21	7.8	6.7	7.2	16.2	6.3	10.4	11.7	7.8	9.9	8.4	6.4	7.2
22	6.9	5.5	6.1	16.8	7.6	11.0	12.8	7.4	10.0	8.4	6.5	7.4
23	6.9	5.8	6.4	10.3	5.7	6.4	11.7	7.6	9.8	8.4	6.6	7.4
24	7.2	6.6	7.0	6.2	5.3	5.8	11.2	7.0	9.2	8.6	6.4	7.3
25	7.2	6.7	7.1	5.8	5.4	5.7	9.9	6.6	8.2	9.1	6.9	7.8
26	7.2	6.6	7.0	5.7	5.2	5.4	9.8	6.1	7.9	9.3	7.2	8.0
27	6.9	6.6	6.7	5.2	4.9	4.9	9.9	5.7	7.7	9.7	7.3	8.2
28	7.8	6.2	6.9	5.6	4.9	5.2	9.4	6.1	7.8	8.5	7.1	7.8
29	6.6	6.1	6.4	6.4	5.6	6.1	8.8	6.2	7.6	9.7	6.9	8.2
30	6.7	6.3	6.5	6.7	6.4	6.6	9.2	6.2	7.7	9.5	8.4	9.0
31	---	---	---	6.7	6.3	6.6	8.7	6.2	7.6	---	---	---
MONTH	13.9	5.5	8.0	16.8	4.9	6.9	16.9	5.7	8.4	9.7	5.8	7.6

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6026
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	140	110	120	41	28	30	8.1	4.8	6.2	8.2	5.0	6.0
2	110	92	98	33	28	31	39	4.3	6.8	11	5.6	7.8
3	110	96	100	32	26	28	9.2	5.2	6.8	10	4.5	7.5
4	110	77	91	27	26	26	8.5	5.2	6.3	5.6	4.5	5.3
5	78	58	68	28	27	28	8.5	3.6	5.1	7.4	5.1	5.8
6	66	49	58	27	24	26	4.1	3.4	3.6	7.0	4.1	4.9
7	54	38	45	24	19	21	6.3	3.7	4.1	4.1	3.2	3.6
8	1,130	34	170	22	16	19	9.1	5.0	5.9	4.4	3.3	3.8
9	>1,700	690	>1,600	22	16	18	22	6.1	9.4	4.2	3.2	3.7
10	>1,700	1,250	>1,500	22	18	20	7.2	3.3	4.5	4.0	2.9	3.4
11	>1,700	580	>920	26	20	21	3.6	2.8	3.1	6.1	3.0	3.5
12	960	530	670	24	17	20	4.0	3.1	3.5	6.7	2.7	3.7
13	670	530	570	20	16	17	4.5	3.5	4.0	4.9	3.0	3.9
14	690	490	580	18	16	17	4.6	3.3	3.7	6.3	3.8	4.9
15	860	510	570	17	15	16	3.8	3.0	3.3	7.4	3.9	5.7
16	520	430	460	17	10	13	5.3	3.6	4.1	12	6.8	8.7
17	430	360	400	16	12	14	5.3	2.6	3.1	20	10	13
18	400	330	350	16	10	13	3.1	2.5	2.8	10	6.4	7.6
19	390	290	330	12	8.1	9.7	3.9	2.1	2.7	8.4	6.4	7.7
20	310	180	230	12	8.8	10	5.0	2.0	2.8	10	7.8	9.0
21	180	---	---	12	9.0	11	4.8	2.2	3.3	9.6	6.3	7.9
22	---	93	---	11	6.1	7.9	4.8	3.1	4.0	8.6	4.7	6.3
23	130	76	93	8.5	6.9	7.5	4.3	<2.0	2.3	8.2	3.8	5.0
24	84	63	73	7.5	6.6	6.9	3.7	<2.0	2.4	8.3	6.3	7.4
25	63	50	56	7.1	5.6	6.1	4.5	2.5	3.4	15	7.4	8.7
26	53	43	47	5.9	5.1	5.4	7.7	3.5	4.8	7.5	5.6	6.1
27	44	35	39	7.3	5.2	5.7	14	5.4	6.9	10	5.9	6.8
28	39	32	35	6.4	4.5	5.0	6.9	3.9	5.1	7.5	5.3	5.9
29	35	32	34	5.8	4.5	4.9	8.0	6.0	6.8	7.9	4.9	6.0
30	47	33	36	8.2	5.1	6.1	8.2	5.7	6.8	6.5	4.7	5.3
31	65	28	34	---	---	---	12	3.9	5.8	6.0	4.7	5.2
MONTH	1,700	28	320	41	4.5	15	39	2.0	4.6	20	2.7	6.1

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6026—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.7	4.8	5.6	40	26	29	66	53	59	46	14	21
2	8.5	5.9	6.8	30	24	26	53	46	48	30	16	21
3	9.0	5.6	6.7	74	27	48	50	45	47	30	19	24
4	8.9	6.3	7.1	>1,700	53	>720	48	41	44	33	22	27
5	11	6.2	8.1	>1,700	1,200	>1,500	42	37	39	33	22	28
6	10	4.9	6.5	1,400	890	1,200	42	33	37	39	26	30
7	7.4	3.8	5.2	1,300	750	930	37	32	34	34	29	32
8	9.3	3.9	4.6	1,500	720	1,100	39	34	36	---	---	---
9	7.1	3.9	5.1	1,400	900	1,100	38	35	36	---	---	---
10	7.5	4.9	6.0	1,200	680	870	35	23	30	47	---	---
11	7.4	5.5	6.4	820	570	650	23	20	21	49	34	43
12	7.6	4.4	5.6	680	440	570	24	20	22	53	36	43
13	5.3	3.2	3.9	450	260	350	29	21	24	410	50	220
14	8.8	5.0	7.0	260	150	190	28	18	24	120	97	110
15	10	3.8	5.7	170	97	120	32	23	26	120	92	100
16	9.1	3.7	4.6	97	73	86	29	23	26	100	75	87
17	11	6.3	7.8	73	53	63	29	19	23	110	80	94
18	12	7.5	9.2	53	44	50	22	18	20	110	84	95
19	17	11	13	44	40	42	22	17	19	100	62	83
20	24	14	18	42	39	40	24	16	20	130	62	94
21	40	18	25	44	37	39	22	15	19	78	52	65
22	82	27	64	44	30	33	18	14	16	84	69	77
23	59	41	51	33	27	29	20	14	16	110	76	89
24	41	32	34	35	27	31	22	14	18	110	84	92
25	40	32	35	37	28	33	22	14	17	120	80	94
26	33	29	31	40	32	35	20	11	14	100	82	90
27	33	28	30	150	40	72	17	11	14	95	75	84
28	32	28	30	110	43	60	18	12	14	110	63	79
29	41	28	32	180	43	97	16	11	13	90	71	77
30	---	---	---	170	98	140	69	12	18	83	70	76
31	---	---	---	98	66	81	---	---	---	83	61	73
MONTH	82	3.2	16	1,700	24	330	69	11	26	410	14	73

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6026—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	83	60	71	250	190	210	130	110	120	52	35	44
2	110	64	80	720	170	230	110	80	92	50	36	44
3	75	55	65	1,490	430	820	89	64	77	50	36	43
4	72	49	61	1,120	320	660	74	58	66	64	34	42
5	62	53	58	680	430	560	70	59	64	83	40	46
6	58	40	49	430	250	330	68	52	61	50	34	40
7	74	43	53	260	190	210	59	46	53	58	27	34
8	72	48	56	350	150	250	55	35	45	50	30	34
9	73	51	61	400	290	330	51	31	40	34	28	33
10	86	59	69	310	220	260	270	38	92	41	30	34
11	77	57	68	220	140	180	120	53	68	36	26	32
12	83	62	70	160	110	140	2,110	120	700	38	30	33
13	98	81	91	120	85	100	1,940	230	670	44	33	37
14	99	70	86	89	62	78	250	120	150	51	39	43
15	86	56	72	91	50	66	120	67	93	50	38	43
16	62	48	55	69	45	57	100	42	62	62	37	45
17	69	50	60	52	37	44	54	32	40	50	40	44
18	1,510	55	730	48	36	42	44	28	36	52	42	47
19	1,030	330	570	58	37	44	44	31	38	50	38	46
20	440	150	300	72	39	54	43	31	36	46	36	42
21	780	360	470	52	30	41	42	29	33	45	36	41
22	1,170	380	860	46	31	39	45	30	36	46	36	39
23	670	500	550	720	35	330	43	30	38	56	35	40
24	660	430	520	700	520	580	39	32	36	52	34	41
25	460	330	410	580	440	520	48	33	40	65	40	52
26	400	230	300	440	220	300	48	39	43	63	32	---
27	240	190	210	220	200	210	55	37	46	57	37	45
28	990	190	490	280	220	260	58	37	47	65	45	51
29	660	360	530	240	220	230	55	37	46	67	36	---
30	370	250	290	220	170	200	51	36	45	46	36	40
31	---	---	---	170	130	150	57	37	45	---	---	---
MONTH	1,510	40	250	1,490	30	240	2,110	28	99	83	26	41

> Actual value is known to be greater than the value shown
< Actual value is known to be less than the value shown

07143672 LITTLE ARKANSAS RIVER AT HIGHWAY 50 NEAR HALSTEAD, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6136
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	96	77	84	34	22	28
2	---	---	---	---	---	---	77	57	68	44	24	29
3	---	---	---	---	---	---	66	45	54	31	23	28
4	---	---	---	---	---	---	51	40	46	29	22	26
5	---	---	---	---	---	---	46	40	43	44	26	30
6	---	---	---	---	---	---	47	35	41	34	23	27
7	---	---	---	---	---	---	40	31	36	29	18	23
8	---	---	---	---	---	---	37	24	31	36	19	25
9	---	---	---	---	---	---	34	21	27	26	19	21
10	---	---	---	---	---	---	160	26	57	24	20	22
11	---	---	---	---	---	---	80	35	44	24	17	21
12	---	---	---	---	---	---	>1,100	77	>390	24	19	21
13	---	---	---	---	---	---	>1,100	140	>470	31	22	24
14	---	---	---	---	---	---	150	72	93	30	25	28
15	---	---	---	---	---	---	77	42	57	32	25	28
16	---	---	---	---	31	---	47	26	38	29	23	27
17	---	---	---	41	25	30	30	20	25	32	26	28
18	---	---	---	34	24	28	29	22	25	34	27	30
19	---	---	---	39	25	29	28	22	24	32	24	29
20	---	---	---	46	27	36	26	19	23	28	23	26
21	---	---	---	35	20	27	25	19	21	28	22	25
22	---	---	---	31	21	26	25	20	22	25	21	23
23	---	---	---	420	22	190	27	20	24	28	20	24
24	---	---	---	430	320	360	26	21	23	27	21	24
25	---	---	---	370	270	320	31	22	26	26	20	23
26	---	---	---	270	150	190	33	25	28	27	22	24
27	---	---	---	160	140	150	35	24	30	29	23	25
28	---	---	---	190	160	180	37	24	30	28	22	25
29	---	---	---	160	150	160	36	23	29	25	20	23
30	---	---	---	150	120	140	32	24	29	30	22	24
31	---	---	---	130	96	110	36	24	29	---	---	---
MONTH	---	---	---	430	20	130	1,100	19	63	44	17	25

> Actual value is known to be greater than the value shown

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS

LOCATION.--Lat 37°52'59", long 97°25'27", in NE ¼ NW ¼ NW ¼ sec.15, T.25 S., R.01 W., Sedgwick County, Hydrologic Unit 11030012, on left bank at downstream side of county highway bridge, 2.1 mi south of Sedgwick, and at mile 23.7.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--1,239 mi^2, of which about 74 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,340.00 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by ground-water withdrawals, diversions for irrigation, and return flow from irrigated areas. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 10	0300	14,900	24.21	Jul 5	0800	2,790	11.58
Mar 5	1600	*15,500	*24.55	Jul 25	1200	9,880	20.86

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	60	e46	53	51	75	128	e44	37	161	e290	36
2	34	60	46	52	46	67	104	e42	36	132	222	35
3	e38	62	48	50	52	73	94	e39	35	513	e164	33
4	e40	64	50	48	50	2,270	85	38	34	799	133	31
5	e34	64	46	45	50	13,900	79	39	34	2,420	112	31
6	e32	59	46	41	48	11,400	75	40	37	1,600	100	37
7	e28	58	46	45	45	7,880	71	37	35	902	93	36
8	e430	56	47	45	48	4,960	68	35	34	558	86	33
9	e9,460	54	49	44	48	1,780	65	33	33	417	84	32
10	13,000	54	57	44	47	997	66	32	42	223	116	31
11	8,010	55	49	46	49	592	63	32	60	138	249	31
12	5,280	54	50	46	46	406	59	32	41	102	e242	31
13	1,730	51	53	46	47	314	57	982	53	83	222	29
14	1,030	50	59	46	50	260	55	653	42	66	137	29
15	592	51	58	47	49	224	54	200	41	54	94	29
16	428	51	59	48	50	197	52	102	54	48	86	29
17	325	51	54	e56	50	175	50	72	49	45	77	28
18	246	51	55	e86	59	155	49	60	809	40	65	28
19	187	49	54	e62	82	142	47	56	859	38	62	26
20	146	48	54	e54	104	131	47	79	452	32	65	25
21	121	48	56	50	115	116	48	97	635	26	56	25
22	107	50	58	48	181	108	45	71	1,110	22	53	26
23	97	47	60	47	156	102	47	61	939	1,220	53	29
24	89	46	59	47	109	99	60	55	452	4,790	49	32
25	79	e47	58	50	82	100	56	51	237	9,230	49	28
26	73	e47	59	62	66	97	51	49	152	6,520	45	29
27	72	e48	63	53	60	99	51	47	121	5,680	49	28
28	69	e47	60	54	57	161	50	45	324	3,030	45	28
29	67	e46	56	51	57	165	45	43	805	1,100	39	27
30	64	e47	54	49	---	270	42	41	301	e582	37	26
31	62	---	52	48	---	186	---	39	---	e394	37	---
MEAN	1,355	52.5	53.6	50.4	67.4	1,532	62.1	105	263	1,321	104	29.9
MAX	13,000	64	63	86	181	13,900	128	982	1,110	9,230	290	37
MIN	28	46	46	41	45	67	42	32	33	22	37	25
AC-FT	83,340	3,120	3,290	3,100	3,880	94,220	3,700	6,440	15,660	81,250	6,370	1,780

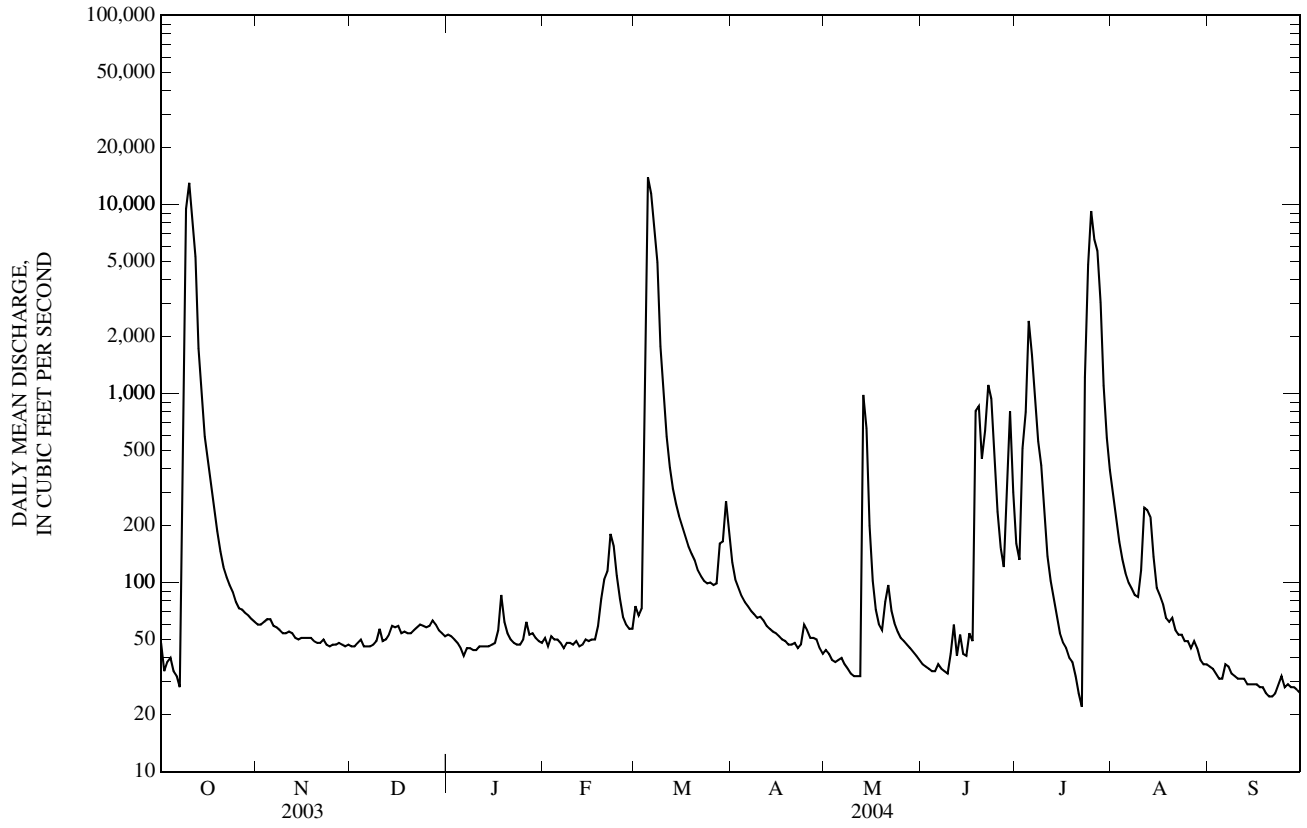
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	369	411	114	71.2	273	639	340	694	818	384	205	226
MAX	1,355	3,319	412	219	1,391	2,218	1,260	4,423	2,927	1,321	747	666
(WY)	(2004)	(1999)	(1998)	(1999)	(2001)	(2000)	(1999)	(1995)	(1995)	(2004)	(1999)	(2001)
MIN	8.92	19.9	18.8	21.4	19.5	34.5	38.6	53.5	50.6	17.9	15.8	9.13
(WY)	(1995)	(1995)	(1995)	(1995)	(1995)	(1996)	(1996)	(1994)	(1994)	(2003)	(1994)	(1994)

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL MEAN	358		422		379	
HIGHEST ANNUAL MEAN					859	1999
LOWEST ANNUAL MEAN					69.3	1994
HIGHEST DAILY MEAN	13,000	Oct 10	13,900	Mar 5	17,600	Nov 2, 1998
LOWEST DAILY MEAN	2.9	Aug 25	22	Jul 22	2.9	Aug 25, 2003
ANNUAL SEVEN-DAY MINIMUM	3.7	Aug 22	27	Sep 16	3.7	Aug 22, 2003
MAXIMUM PEAK FLOW			15,500	Mar 5	17,600	Nov 1, 1998
MAXIMUM PEAK STAGE			24.55	Mar 5	25.82	Nov 1, 1998
INSTANTANEOUS LOW FLOW			21	Jul 23	2.8	Aug 24, 2003
ANNUAL RUNOFF (AC-FT)	259,300		306,100		274,500	
10 PERCENT EXCEEDS	650		526		656	
50 PERCENT EXCEEDS	52		54		60	
90 PERCENT EXCEEDS	9.2		34		20	

e Estimated



07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1998 to current year.
pH: May 1998 to current year.
WATER TEMPERATURE: May 1998 to current year.
DISSOLVED OXYGEN: October 1998 to current year.
TURBIDITY (YSI 6026 sensor): October 1998 to current year.
TURBIDITY (YSI 6136 sensor): July to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions or malfunction of the recording instrument or sensors. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs International (YSI) 6026 and 6136 sensors.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,780 microsiemens/cm, Feb. 23, 2004; minimum, 36 microsiemens/cm, Sept. 18, 2001.
pH: Maximum, 9.2 standard units, July 11, 2003; minimum, 6.5 standard units, Oct. 10, 2003.
WATER TEMPERATURE: Maximum, 35.3°C, July 4, 1998; minimum, -0.1°C, Feb. 12, 2004.
DISSOLVED OXYGEN: Maximum, 24.0 mg/L, July 11, 2003; minimum, 0.1 mg/L, Aug. 4, 1999.
TURBIDITY (YSI 6026 sensor): Maximum, >2,000 FNU, June 6, 2001; minimum, 1.1 FNU, Jan. 19, 2002.
TURBIDITY (YSI 6136 sensor): Maximum, 680 FNU, July 23, 2004; minimum, 10 FNU, Aug. 23, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,780 microsiemens/cm, Feb. 23; minimum, 75 microsiemens/cm, Oct. 10.
pH: Maximum, 8.8 standard units, Apr. 7; minimum, 6.5 standard units, Oct. 10.
WATER TEMPERATURE: Maximum, 31.7°C, July 13; minimum, -0.1°C, Feb. 12.
DISSOLVED OXYGEN: Maximum, 19.6 mg/L, Aug. 24; minimum, 5.2 mg/L, June 14.
TURBIDITY (YSI 6026 sensor): Maximum, >1,500 FNU, Oct. 8; minimum, 4.4 FNU, Dec. 6.
TURBIDITY (YSI 6136 sensor): Maximum, 680 FNU, July 23; minimum, 10 FNU, Aug. 23.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	903	723	808	799	795	797	1,140	1,090	1,120	1,280	1,240	1,250
2	943	903	926	822	798	811	1,160	1,140	1,150	1,340	1,280	1,310
3	950	842	892	841	819	828	1,140	1,130	1,140	1,340	1,330	1,340
4	965	906	939	841	820	830	1,140	1,100	1,120	1,350	1,310	1,330
5	964	937	951	862	836	855	1,110	1,100	1,100	1,350	1,310	1,320
6	957	901	925	881	861	873	1,120	1,100	1,110	1,420	1,310	1,350
7	901	840	868	884	875	879	1,130	1,100	1,110	1,340	1,290	1,320
8	840	305	755	895	880	886	1,120	1,100	1,110	1,290	1,210	1,260
9	318	80	---	911	895	904	1,110	1,080	1,100	1,220	1,180	1,200
10	93	75	83	915	910	912	1,150	1,090	1,120	1,200	1,150	1,180
11	127	93	111	925	914	917	1,170	1,120	1,140	1,210	1,140	1,160
12	169	127	141	944	925	932	1,210	1,100	1,150	1,160	1,110	1,140
13	190	169	181	961	944	954	1,170	1,080	1,140	1,150	1,090	1,110
14	219	182	197	967	961	965	1,170	1,100	1,130	1,140	1,070	1,100
15	266	219	246	984	967	974	1,160	1,110	1,140	1,120	1,080	1,100
16	301	266	283	1,000	984	994	1,160	1,120	1,140	1,120	1,100	1,110
17	337	301	322	1,010	1,000	1,000	1,190	1,120	1,130	1,120	1,040	1,080
18	---	334	---	1,020	1,010	1,020	1,200	1,100	1,130	1,040	897	990
19	---	---	---	1,040	1,020	1,030	1,220	1,150	1,180	1,010	897	936
20	499	---	---	1,040	1,040	1,040	1,240	1,180	1,210	1,090	1,000	1,040
21	538	488	501	1,040	1,030	1,040	1,260	1,230	1,250	1,130	1,070	1,090
22	583	538	---	1,060	1,040	1,050	1,270	1,240	1,250	1,150	1,070	1,100
23	623	583	603	1,070	1,060	1,060	1,240	1,220	1,230	1,110	1,070	1,090
24	654	623	639	1,100	1,070	1,080	1,230	1,210	1,220	1,110	1,090	1,100
25	686	654	664	1,110	1,090	1,100	1,250	1,230	1,240	1,120	1,110	1,110
26	705	686	692	1,100	1,090	1,100	1,300	1,250	1,270	1,140	1,100	1,110
27	720	705	714	1,120	1,100	1,110	1,340	1,300	1,320	1,140	1,060	1,100
28	739	720	733	1,130	1,100	1,120	1,360	1,340	1,350	1,180	1,090	1,150
29	755	737	748	1,110	1,070	1,090	1,350	1,330	1,340	1,260	1,180	1,210
30	769	755	764	1,090	1,070	1,080	1,350	1,310	1,330	1,300	1,250	1,270
31	795	763	779	---	---	---	1,310	1,230	1,260	1,340	1,260	1,310
MONTH	965	75	595	1,130	795	974	1,360	1,080	1,180	1,420	897	1,170

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1,310	1,270	1,290	898	806	872	1,160	951	1,050	1,220	1,160	1,200
2	1,270	1,140	1,230	806	777	789	966	885	915	1,160	1,140	1,150
3	1,210	1,120	1,170	827	774	810	885	856	866	1,160	1,140	1,150
4	1,200	1,170	1,180	777	143	477	867	856	858	1,190	1,160	1,180
5	1,210	1,180	1,190	143	102	117	879	867	873	1,200	1,130	1,160
6	1,240	1,210	1,220	138	102	120	881	853	868	1,130	1,060	1,100
7	1,280	1,240	1,260	153	136	141	865	840	853	1,080	1,020	1,050
8	1,370	1,270	1,320	192	153	171	863	843	852	1,050	1,030	1,040
9	1,410	1,290	1,350	238	192	216	868	855	863	1,070	1,040	1,060
10	1,320	1,240	1,280	324	238	280	887	867	879	1,110	1,070	1,090
11	1,290	1,250	1,260	414	324	367	914	887	906	1,140	1,110	1,130
12	1,310	1,270	1,290	480	414	446	932	911	923	1,160	1,090	1,150
13	1,340	1,250	1,290	553	480	516	949	932	942	1,100	219	507
14	1,360	1,260	1,300	631	553	593	963	949	958	473	351	411
15	1,280	1,240	1,260	695	631	667	983	963	972	430	339	371
16	1,260	1,190	1,230	736	695	718	999	981	990	617	430	523
17	1,260	1,170	1,210	789	736	764	1,030	995	1,010	716	617	674
18	1,170	1,050	1,120	832	785	808	1,040	1,030	1,030	720	692	703
19	1,060	943	998	874	832	855	1,050	1,030	1,040	790	696	736
20	1,020	932	989	915	874	889	1,050	1,020	1,030	925	790	869
21	1,150	1,020	1,050	933	915	928	1,060	1,030	1,040	1,110	922	992
22	1,590	1,150	1,350	960	933	947	1,040	1,010	1,030	1,320	1,030	1,120
23	1,780	1,220	1,510	975	960	968	1,010	970	1,000	1,540	1,320	1,480
24	1,220	1,110	1,140	977	965	969	988	968	981	1,530	1,230	1,390
25	1,110	1,010	1,050	995	977	984	984	927	942	1,240	1,090	1,170
26	1,090	1,020	1,060	1,000	993	998	1,010	942	980	1,090	976	1,040
27	1,080	1,040	1,060	1,000	963	990	1,080	1,000	1,040	992	---	---
28	1,040	957	975	973	748	882	1,140	1,080	1,120	---	895	---
29	960	886	920	833	772	789	1,170	1,130	1,150	895	861	879
30	---	---	---	1,380	833	1,100	1,200	1,170	1,190	861	825	843
31	---	---	---	1,480	1,110	1,260	---	---	---	835	816	827
MONTH	1,780	886	1,190	1,480	102	691	1,200	840	972	1,540	219	965

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	826	776	809	293	238	267	428	376	402	---	754	---
2	798	782	794	374	293	324	468	428	443	773	---	---
3	799	665	782	380	141	298	500	468	487	784	769	776
4	798	654	759	269	141	189	539	500	525	794	763	783
5	778	726	760	234	116	142	616	539	581	807	736	793
6	769	707	745	157	144	149	654	616	631	858	796	823
7	776	717	751	198	157	180	679	654	670	879	858	870
8	812	726	779	377	198	246	709	679	691	879	860	868
9	814	801	808	615	377	476	720	697	710	889	877	884
10	801	731	765	453	358	387	776	696	718	886	882	884
11	844	775	813	401	375	382	776	515	594	903	886	893
12	870	843	857	425	401	411	672	460	544	914	899	909
13	849	595	688	465	424	445	892	512	754	916	893	907
14	697	595	635	511	465	486	512	448	464	901	885	892
15	743	697	725	534	511	526	631	479	522	890	854	874
16	---	701	---	552	534	543	665	583	632	862	845	853
17	727	678	708	---	550	---	715	665	696	853	844	848
18	707	220	381	---	---	---	742	706	728	844	817	832
19	492	203	271	---	---	---	745	732	739	820	806	815
20	306	222	262	625	---	---	828	741	782	808	793	803
21	597	306	421	646	625	639	868	828	852	801	785	796
22	453	238	314	674	643	654	867	858	864	800	773	787
23	315	243	268	676	158	399	878	855	864	773	734	758
24	380	295	329	191	131	160	862	817	844	788	740	763
25	404	323	354	142	111	121	826	779	807	790	753	773
26	375	349	360	120	112	114	807	777	797	755	724	740
27	397	371	386	141	120	133	787	761	774	779	679	725
28	415	263	356	191	141	166	785	765	776	720	681	705
29	333	195	256	246	191	215	783	771	778	750	720	739
30	250	222	235	322	246	285	777	761	771	763	741	751
31	---	---	---	376	322	351	766	752	761	---	---	---
MONTH	870	195	565	676	111	322	892	376	684	916	679	816

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.9	7.6	7.8	7.8	7.8	7.8	8.1	7.8	7.9	8.2	8.0	8.1
2	7.8	7.6	7.7	7.9	7.7	7.8	8.0	7.8	7.9	8.2	8.0	8.1
3	7.7	7.6	7.6	7.9	7.8	7.8	7.9	7.8	7.9	8.3	8.0	8.1
4	7.8	7.6	7.7	7.9	7.8	7.8	8.1	7.8	7.9	8.2	8.0	8.2
5	7.9	7.7	7.7	7.9	7.8	7.8	8.1	7.8	8.0	8.2	8.0	8.1
6	8.0	7.7	7.8	7.9	7.8	7.8	8.1	7.9	8.0	8.2	7.9	8.0
7	8.2	7.8	7.9	7.8	7.8	7.8	8.1	7.9	8.0	8.0	7.9	8.0
8	8.1	7.6	7.9	7.8	7.7	7.8	8.1	7.8	8.0	8.1	7.9	8.0
9	7.6	6.7	---	8.0	7.7	7.8	8.0	7.9	8.0	8.1	7.9	8.0
10	6.7	6.5	6.6	7.9	7.8	7.8	8.1	7.9	7.9	8.1	7.9	8.0
11	6.7	6.6	6.6	8.0	7.8	7.8	8.0	7.9	8.0	8.1	7.9	8.0
12	6.9	6.7	6.8	8.1	7.8	7.9	8.0	7.9	7.9	8.1	7.9	8.0
13	7.1	6.9	7.0	8.0	7.8	7.9	8.0	7.8	7.9	8.1	7.9	8.0
14	7.2	7.1	7.1	8.1	7.8	8.0	8.0	7.9	8.0	8.2	7.9	8.1
15	7.3	7.2	7.2	8.0	7.8	7.9	8.1	7.9	8.0	8.2	8.0	8.1
16	7.3	7.3	7.3	8.0	7.8	7.9	8.1	7.9	8.0	8.1	8.0	8.1
17	7.4	7.3	7.4	8.0	7.8	7.9	8.1	7.9	8.0	8.0	7.9	8.0
18	7.5	7.4	7.4	8.1	7.8	8.0	8.1	7.9	8.0	8.1	8.0	8.0
19	7.5	7.5	7.5	8.1	7.8	8.0	8.1	7.8	8.0	8.1	7.9	8.0
20	7.6	---	---	8.1	7.8	8.0	8.1	7.8	8.0	8.1	8.0	8.0
21	7.6	7.6	7.6	8.1	7.8	8.0	8.1	7.9	8.0	8.2	8.0	8.1
22	7.6	7.6	7.6	8.1	7.8	8.0	8.0	7.9	8.0	8.3	8.0	8.2
23	7.6	7.6	7.6	8.1	7.8	8.0	8.2	7.9	8.0	8.4	8.1	8.2
24	7.7	7.6	7.7	8.0	7.8	7.9	8.2	7.9	8.0	8.4	8.1	8.3
25	7.7	7.7	7.7	8.0	7.8	7.9	8.2	8.0	8.1	8.4	8.2	8.2
26	7.7	7.7	7.7	8.0	7.8	7.9	8.2	8.0	8.1	8.4	8.1	8.3
27	7.7	7.7	7.7	8.0	7.8	7.9	8.2	8.0	8.1	8.3	8.1	8.2
28	7.8	7.7	7.7	8.0	7.8	7.9	8.3	8.0	8.1	8.2	8.0	8.1
29	7.8	7.7	7.8	8.0	7.8	7.9	8.2	8.0	8.1	8.1	8.0	8.1
30	7.9	7.8	7.8	8.0	7.8	7.9	8.2	8.0	8.1	8.1	8.0	8.0
31	7.9	7.7	7.8	---	---	---	8.3	8.0	8.1	8.0	8.0	8.0
MAX	8.2	7.8	7.9	8.1	7.8	8.0	8.3	8.0	8.1	8.4	8.2	8.3
MIN	6.7	6.5	6.6	7.8	7.7	7.8	7.9	7.8	7.9	8.0	7.9	8.0

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.0	7.9	8.0	8.4	8.0	8.2	8.2	8.0	8.1	8.4	8.1	8.2
2	8.0	7.9	8.0	8.2	8.0	8.1	8.3	8.0	8.1	8.4	8.1	8.2
3	8.0	7.9	8.0	8.2	8.0	8.1	8.4	8.0	8.2	8.3	8.1	8.2
4	8.0	7.9	8.0	8.1	7.6	8.0	8.6	8.1	8.3	8.4	8.1	8.2
5	8.1	7.9	8.0	7.6	7.2	7.4	8.7	8.2	8.4	8.4	8.1	8.3
6	8.2	8.0	8.1	7.2	7.2	7.2	8.7	8.3	8.5	8.5	8.1	8.3
7	8.1	8.0	8.0	7.2	7.2	7.2	8.8	8.2	8.4	8.5	8.1	8.3
8	8.1	8.0	8.0	7.3	7.2	7.2	8.8	8.3	8.6	8.5	8.0	8.3
9	8.1	8.0	8.0	7.4	7.3	7.4	8.6	8.3	8.4	8.5	8.0	8.3
10	8.1	8.0	8.0	7.5	7.4	7.4	8.5	8.1	8.3	8.3	8.0	8.2
11	8.2	8.0	8.1	7.6	7.5	7.6	8.6	8.2	8.4	8.3	8.0	8.2
12	8.2	8.1	8.1	7.7	7.6	7.7	8.5	8.2	8.4	8.3	8.0	8.2
13	8.2	8.0	8.1	7.7	7.7	7.7	8.5	8.2	8.4	8.2	7.5	7.6
14	8.2	8.0	8.1	7.8	7.7	7.8	8.6	8.2	8.4	7.8	7.7	7.8
15	8.2	8.0	8.1	7.8	7.8	7.8	8.7	8.2	8.4	7.7	7.7	7.7
16	8.2	8.0	8.1	7.8	7.8	7.8	8.7	8.2	8.5	7.8	7.7	7.8
17	8.2	8.0	8.1	7.9	7.8	7.8	8.7	8.2	8.5	7.9	7.8	7.9
18	8.2	8.1	8.1	7.9	7.8	7.9	8.6	8.3	8.5	7.9	7.8	7.8
19	8.2	8.1	8.1	8.0	7.9	7.9	8.6	8.2	8.4	8.0	7.8	7.9
20	8.3	8.1	8.2	8.1	7.9	8.0	8.5	8.2	8.3	8.2	7.9	8.0
21	8.3	8.1	8.2	8.2	8.0	8.1	8.5	8.2	8.4	8.2	7.9	8.0
22	8.3	8.1	8.2	8.3	8.0	8.1	8.4	8.1	8.2	8.4	8.0	8.2
23	8.2	8.0	8.1	8.4	8.1	8.2	8.2	8.0	8.1	8.5	8.1	8.2
24	8.2	8.0	8.1	8.4	8.1	8.3	8.3	8.1	8.2	8.4	8.1	8.3
25	8.2	8.0	8.1	8.5	8.1	8.3	8.2	8.1	8.1	8.4	8.1	8.3
26	8.2	8.0	8.1	8.6	8.2	8.4	8.4	8.2	8.2	8.3	8.0	8.2
27	8.3	8.0	8.1	8.4	8.1	8.2	8.6	8.2	8.4	8.5	8.0	8.2
28	8.3	8.0	8.1	8.1	8.0	8.1	8.6	8.2	8.4	8.6	8.1	8.4
29	8.2	8.0	8.1	8.1	8.0	8.0	8.5	8.2	8.3	8.6	8.1	8.4
30	---	---	---	8.2	8.1	8.1	8.3	8.1	8.3	8.5	8.1	8.4
31	---	---	---	8.1	8.0	8.1	---	---	---	8.5	8.0	8.3
MAX	8.3	8.1	8.2	8.6	8.2	8.4	8.8	8.3	8.6	8.6	8.1	8.4
MIN	8.0	7.9	8.0	7.2	7.2	7.2	8.2	8.0	8.1	7.7	7.5	7.6

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	8.0	8.3	7.6	7.5	7.5	7.4	7.3	7.3	8.3	7.9	8.2
2	8.4	8.0	8.1	8.0	7.6	7.6	7.5	7.3	7.4	8.3	7.8	8.2
3	8.3	7.9	8.0	7.7	7.4	7.6	7.7	7.4	7.5	8.3	7.9	8.2
4	8.4	7.9	8.2	7.5	7.3	7.4	8.0	7.6	7.6	8.2	7.9	8.1
5	8.4	8.0	8.2	7.5	7.2	7.2	8.2	7.7	7.8	8.0	7.8	8.0
6	8.6	8.0	8.3	7.3	7.0	7.2	8.2	7.8	8.0	8.0	7.7	7.9
7	8.5	8.1	8.3	7.2	7.1	7.2	8.4	7.8	8.0	8.0	7.7	7.9
8	8.5	8.0	8.3	7.5	7.2	7.3	8.5	7.9	8.2	8.0	7.7	7.9
9	8.4	8.1	8.2	7.5	7.4	7.5	8.5	7.9	8.3	8.0	7.7	7.9
10	8.3	8.0	8.1	7.5	7.4	7.5	8.5	7.9	8.2	8.0	7.7	7.9
11	8.5	8.0	8.2	7.5	7.4	7.5	8.2	7.7	7.9	8.0	7.7	7.9
12	8.4	8.0	8.2	7.6	7.5	7.5	8.2	7.7	7.8	8.1	7.7	7.9
13	8.3	7.8	8.0	7.8	7.5	7.6	8.2	7.7	8.0	8.1	7.7	8.0
14	8.3	7.8	7.8	8.0	7.6	7.7	7.7	7.6	7.6	8.1	7.8	8.0
15	8.4	7.9	8.1	8.3	7.6	7.9	7.7	7.6	7.6	8.0	7.7	7.9
16	8.5	8.0	8.2	8.2	7.7	7.9	7.8	7.7	7.7	7.9	7.7	7.8
17	8.4	7.9	8.2	8.3	7.7	8.0	8.1	7.7	7.8	8.0	7.7	7.9
18	8.3	7.4	7.6	8.4	7.7	8.0	8.4	7.8	8.0	8.1	7.8	8.0
19	7.5	7.3	7.4	8.5	7.8	8.2	8.3	8.0	8.1	8.2	7.8	8.1
20	7.5	7.4	7.5	8.6	7.8	8.3	8.4	7.8	8.1	8.1	7.9	8.0
21	7.6	7.5	7.6	8.6	7.9	8.3	8.6	7.9	8.2	8.1	7.8	8.0
22	7.6	7.5	7.6	8.5	8.0	8.3	8.5	7.9	8.2	8.1	7.8	8.0
23	7.5	7.4	7.5	8.2	7.0	7.6	8.5	7.9	8.2	8.1	7.7	8.0
24	7.6	7.5	7.6	7.0	6.9	6.9	8.6	8.0	8.3	8.1	7.6	7.9
25	7.6	7.6	7.6	6.9	6.7	6.7	8.6	8.0	8.3	8.0	7.6	7.9
26	7.6	7.6	7.6	6.7	6.7	6.7	8.5	7.9	8.3	8.0	7.6	7.9
27	7.7	7.6	7.6	6.8	6.7	6.8	8.6	7.9	8.3	8.0	7.6	7.8
28	7.7	7.5	7.6	7.0	6.8	6.9	8.4	8.0	8.3	7.9	7.6	7.8
29	7.7	7.4	7.5	7.3	7.0	7.2	8.3	7.9	8.2	7.8	7.6	7.7
30	7.5	7.4	7.5	7.3	7.1	7.2	8.3	7.9	8.1	7.9	7.5	7.7
31	---	---	---	7.3	7.2	7.2	8.3	7.9	8.2	---	---	---
MAX	8.6	8.1	8.3	8.6	8.0	8.3	8.6	8.0	8.3	8.3	7.9	8.2
MIN	7.5	7.3	7.4	6.7	6.7	6.7	7.4	7.3	7.3	7.8	7.5	7.7

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.8	11.8	13.7	11.2	10.5	10.8	6.8	5.6	6.3	7.1	5.0	6.1
2	15.2	12.9	14.2	14.4	11.1	12.8	6.4	5.7	6.1	8.4	6.7	7.5
3	16.1	14.0	15.0	14.8	13.5	14.1	6.4	6.3	6.4	8.3	5.9	7.1
4	16.0	13.9	15.2	13.9	10.5	12.3	7.0	5.8	6.4	5.9	2.3	4.1
5	18.6	14.8	16.6	10.5	8.0	9.2	6.4	4.3	4.9	2.3	0.1	0.9
6	19.3	16.0	17.8	8.5	7.1	7.7	4.3	3.1	3.8	1.0	0.0	0.4
7	20.0	16.8	18.6	8.6	6.5	---	5.2	3.2	4.2	0.8	0.1	0.4
8	19.5	17.0	18.2	8.3	7.7	8.0	6.4	4.7	5.5	1.7	0.3	0.9
9	17.0	---	---	10.0	7.8	8.8	6.4	3.2	5.1	1.8	0.4	1.1
10	17.6	16.4	17.0	10.9	9.6	10.1	3.2	1.1	2.0	2.2	0.4	1.5
11	17.7	17.1	17.5	12.7	10.9	11.9	2.0	0.8	1.5	3.2	1.4	2.3
12	17.1	16.3	16.7	12.4	10.7	11.7	1.7	0.1	1.0	3.8	2.1	3.0
13	16.3	15.4	15.8	10.7	9.4	9.9	1.3	0.1	0.7	4.1	2.6	3.4
14	15.7	14.4	15.1	9.5	8.3	8.8	1.9	0.2	1.1	4.9	2.8	3.9
15	15.4	14.1	14.8	11.0	8.9	9.9	3.1	1.4	2.2	5.0	3.5	4.3
16	15.3	13.6	14.5	11.0	9.2	10.2	3.1	1.9	2.5	6.9	5.0	5.9
17	14.7	13.0	14.0	13.7	10.6	12.1	3.0	1.2	2.1	7.0	5.2	6.5
18	15.5	13.3	14.4	13.7	11.4	12.6	3.3	1.8	2.7	5.2	3.0	4.3
19	---	14.5	---	11.4	9.6	10.6	3.4	1.9	2.7	3.0	1.0	1.9
20	17.7	---	---	11.0	9.4	10.3	3.9	2.2	3.1	2.2	1.4	1.8
21	17.9	15.5	16.8	10.8	9.3	10	4.8	3.2	4.0	3.6	1.1	2.4
22	18.3	15.6	17.1	9.6	8.3	8.9	5.2	4.7	4.9	3.9	2.4	3.2
23	18.5	16.2	17.4	8.6	5.1	6.6	4.7	3.5	4.2	4.8	2.2	3.6
24	18.0	16.4	17.2	5.1	3.3	4.1	4.1	2.9	3.6	5.0	3.7	4.4
25	16.7	13.5	14.5	4.9	3.3	4.1	4.4	2.6	3.5	4.8	4.3	4.5
26	13.5	11.4	12.5	5.9	3.9	4.9	6.8	4.1	5.1	4.4	0.4	2.6
27	13.7	11.3	12.7	5.7	4.6	5.2	9.1	6.8	8.1	1.0	0.0	0.3
28	14.5	13.1	13.8	5.1	3.6	4.3	8.0	5.5	6.5	0.9	0.0	0.4
29	14.5	12.3	13.5	5.2	3.0	4.2	5.5	3.9	4.5	0.6	0.0	0.2
30	14.2	13.0	13.7	6.6	4.6	5.6	4.5	2.8	3.8	0.9	0.0	0.4
31	13.0	11.2	12.0	---	---	---	5.3	3.7	4.5	0.4	0.0	0.2
MONTH	20.0	11.2	15.4	14.8	3.0	9.0	9.1	0.1	4.0	8.4	0.0	2.9

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.7	0.1	0.5	9.1	6.5	7.8	15.5	12.7	14.2	17.5	13.0	15.0
2	0.9	0.0	0.3	8.2	6.5	7.5	16.8	13.3	15.0	18.4	14.5	16.4
3	1.0	0.0	0.5	7.7	7.2	7.5	15.9	13.2	14.6	18.6	14.5	16.7
4	1.4	0.5	0.9	7.5	5.7	6.6	16.4	12.5	14.5	19.9	15.9	17.7
5	2.4	0.6	1.4	5.7	4.9	5.3	17.0	13.5	15.1	22.5	17.5	19.9
6	1.9	0.4	1.2	5.9	4.6	5.2	16.7	14.4	15.5	24.4	19.3	21.8
7	1.3	0.0	0.6	7.8	5.9	7.1	18.6	15.0	16.7	25.2	20.9	23.3
8	1.4	0.0	0.7	8.8	7.1	8.0	18.4	15.1	16.9	25.6	21.4	23.6
9	2.7	0.2	1.4	10.6	8.2	9.3	17.3	13.4	14.9	24.6	21.8	23.2
10	3.1	0.5	2.2	10.2	8.9	9.7	13.4	11.7	12.4	23.6	20.8	22.2
11	3.0	1.2	2.2	10.6	8.8	9.7	14.3	10.0	12.1	23.3	20.8	22.1
12	2.0	-0.1	0.9	10.6	8.3	9.6	13.6	11.8	12.9	24.4	20.9	22.5
13	2.4	0.0	1.2	10.4	9.3	9.6	15.0	10.9	12.8	22.9	14.9	17.5
14	3.7	0.9	2.3	11.2	8.5	9.9	16.6	11.8	14.2	16.9	14.0	15.3
15	2.8	0.2	1.8	11.7	9.9	10.7	18.4	13.6	15.8	18.5	14.6	16.4
16	3.0	1.2	2.1	10.6	9.4	10	21.4	16.2	18.7	21.1	16.6	18.7
17	4.8	1.8	3.3	12.6	9.3	10.9	22.4	18.6	20.6	23.9	19.0	21.3
18	6.3	2.6	4.4	14.2	11.2	12.6	21.4	18.9	19.6	23.2	21.0	21.7
19	8.6	5.1	6.8	13.5	11.8	12.7	20.9	17.4	19.2	25.8	20.9	23.1
20	8.2	6.0	7.2	14.9	12.6	13.6	20.3	18.6	19.4	27.6	22.8	25.2
21	7.3	5.1	6.4	13.6	11.1	12.5	19.8	17.0	18.5	26.8	23.5	25.1
22	8.4	6.1	7.2	13.1	10.2	11.7	18.9	16.3	17.3	27.4	22.6	24.9
23	8.3	6.3	7.2	15.1	10.5	12.9	16.3	14.6	15.2	27.4	22.7	25.1
24	6.7	5.5	6.0	15.0	13.7	14.4	16.6	14.4	15.3	26.4	23.3	25.0
25	6.4	4.9	5.5	16.4	14.7	15.5	18.6	13.9	16.2	25.5	21.6	22.8
26	7.2	3.9	5.6	18.2	15.7	16.9	19.6	16.0	17.9	22.5	20.4	21.4
27	8.5	4.8	6.7	17.7	15.6	16.7	20.8	16.0	18.5	25.6	20.9	23.1
28	9.0	6.7	7.9	16.8	14.1	15.5	21.3	17.4	19.4	26.8	22.5	24.8
29	9.0	8.1	8.5	16.6	14.2	15.5	19.9	17.1	17.9	26.4	23.0	24.9
30	---	---	---	15.9	13.3	14.9	17.3	14.1	15.5	25.3	22.4	23.7
31	---	---	---	15.4	12.4	14.1	---	---	---	23.4	19.4	21.7
MONTH	9.0	-0.1	3.5	18.2	4.6	11.1	22.4	10.0	16.2	27.6	13.0	21.5

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.5	19.8	22.3	24.9	22.9	23.8	27.3	23.8	---	26.1	22.5	24.4
2	24.1	20.1	21.4	26.7	22.6	24.4	28.0	25.3	26.6	25.9	22.8	24.5
3	23.9	18.7	21.1	25.5	23.5	24.5	29.3	25.9	---	25.1	22.4	24.0
4	24.2	20.8	22.7	24.6	22.4	23.5	28.8	26.0	27.3	25.4	22.2	23.9
5	24.5	21.4	23.0	24.0	20.9	22.3	27.5	24.8	26.1	24.4	22.8	23.8
6	27.5	22.7	25.0	25.3	23.4	24.2	26.0	23.2	24.5	24.1	20.8	22.6
7	26.9	23.7	24.9	26.0	23.5	24.7	26.1	22.2	24.1	23.6	20.1	22.4
8	25.5	23.0	24.2	27.9	24.1	25.9	27.1	23.4	25.3	23.4	20.1	22.0
9	24.6	22.7	23.3	27.2	24.5	25.3	27.6	23.4	25.6	23.1	19.8	21.7
10	24.1	21.8	22.8	28.1	24.0	25.9	27.7	24.1	26.1	23.1	20.0	21.8
11	28.6	22.7	25.4	29.1	25.6	27.3	25.8	23.0	24.1	23.3	20.4	22.0
12	28.8	25.1	27.1	30.6	25.6	28.0	24.5	22.0	23.2	24.5	21.2	22.9
13	27.9	22.2	24.9	31.7	26.2	28.9	24.6	21.9	23.3	24.4	21.6	23.2
14	29.6	23.8	26.5	31.0	26.7	29.1	24.0	21.0	22.5	24.6	21.7	23.3
15	29.0	24.9	26.7	31.6	26.9	29.3	24.4	20.6	22.5	23.9	22.1	23.2
16	28.0	24.7	26.4	30.8	26.9	28.1	23.6	20.8	22.3	23.3	20.9	22.3
17	27.5	24.5	26.3	28.0	24.9	26.7	26.6	21.6	24.0	23.5	21.0	22.4
18	27.1	21.2	22.9	29.2	24.2	26.8	27.1	23.2	25.2	25.3	22.4	23.9
19	22.5	21.3	21.9	30.1	25.3	27.8	26.1	21.0	23.3	24.6	22.5	23.7
20	22.7	20.3	21.5	30.4	26.1	28.4	23.1	19.5	21.2	23.2	20.7	22.0
21	23.6	21.2	22.4	29.8	26.5	28.3	24.6	19.9	22.2	22.8	20.6	21.7
22	23.8	21.7	22.6	30.1	26.2	27.9	25.0	21.7	23.4	23.0	20.8	21.9
23	24.3	21.1	22.6	28.0	22.0	23.9	25.9	22.9	24.4	22.6	20.5	21.6
24	25.8	22.0	23.8	22.2	20.1	21.2	27.3	23.7	25.5	22.3	19.4	21.0
25	24.8	21.9	23.5	20.1	19.6	19.8	27.5	24.9	26.3	22.2	19.5	21.1
26	25.1	22.0	23.5	20.6	19.2	19.9	27.8	24.0	26.1	22.4	19.8	21.2
27	24.8	21.8	23.3	22.6	20.4	21.5	28.8	24.9	26.9	21.9	19.5	21.0
28	24.6	21.8	23.1	22.3	21.5	21.9	28.1	24.1	25.8	21.6	20.0	20.7
29	23.4	21.5	22.4	22.2	21.6	21.8	25.6	21.9	24.0	20.0	18.0	19.2
30	24.0	21.6	22.8	23.9	21.3	---	25.0	22.5	24.0	19.7	18.1	19.1
31	---	---	---	25.9	22.0	---	25.2	22.2	23.9	---	---	---
MONTH	29.6	18.7	23.7	31.7	19.2	25.2	29.3	19.5	24.5	26.1	18.0	22.3

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.7	8.6	9.1	11.8	9.9	10.7	15.7	10.8	13.2	15.4	11.6	13.4
2	9.2	8.6	8.9	12.2	9.7	10.7	13.9	11.1	12.6	16.1	11.1	13.4
3	9.3	8.2	8.7	10.6	8.9	9.7	12.8	10.2	11.6	16.1	10.9	13.3
4	9.4	8.0	8.7	12.0	8.8	10.2	15.8	10.1	12.7	15.9	11.6	13.6
5	10.3	8.0	9.0	12.3	10.0	11.1	15.9	10.9	13.4	16.8	12.8	14.8
6	11.3	7.7	9.3	13.6	10.7	12.0	16.6	11.6	14.1	17.5	14.0	15.6
7	12.2	7.8	9.8	12.7	11.1	11.9	16.0	11.7	13.9	17.3	14.1	15.6
8	10.7	7.6	8.8	12.3	10.3	11.2	16.3	11.1	13.8	17.1	13.6	15.2
9	8.1	6.6	---	13.8	10.2	11.8	13.8	10.8	12.0	17.0	13.5	15.1
10	6.6	5.8	6.2	12.0	9.9	10.9	15.5	11.3	13.2	16.8	13.5	15.2
11	5.9	5.6	5.8	12.6	9.2	10.7	16.3	12.2	14.1	16.9	13.1	14.8
12	6.5	5.8	6.0	13.0	9.2	10.9	15.8	12.6	14.4	17.3	12.8	14.9
13	7.8	6.5	7.5	13.6	9.7	11.5	16.2	12.4	14.3	16.8	12.7	14.7
14	8.4	7.7	8.1	13.3	10.3	11.7	16.6	12.7	14.4	16.8	12.5	14.5
15	9.0	8.2	8.4	13.3	9.8	11.4	16.2	12.3	14.0	17.2	12.3	14.6
16	8.6	8.4	8.5	13.2	9.6	11.3	16.2	12.0	14.0	14.9	12.0	13.3
17	8.7	8.3	8.6	12.7	9.3	10.8	16.5	12.2	14.1	12.3	10.7	11.4
18	8.7	8.3	8.6	12.7	8.6	10.6	16.4	12.2	14.1	12.7	11.1	11.8
19	---	---	---	13.7	9.2	11.5	16.4	12.1	14.1	15.3	12.2	13.5
20	8.9	---	---	14.5	9.4	11.8	16.7	12.0	14.2	16.2	13.2	14.5
21	8.7	8.3	8.4	14.8	9.5	12.1	17.0	11.7	14.1	17.4	13.5	15.2
22	8.6	8.2	8.3	14.9	9.6	12.1	13.8	11.2	12.3	18.4	13.3	15.5
23	8.4	8.0	8.2	14.7	10.1	12.4	16.0	10.8	13.1	19.1	13.6	16.2
24	8.6	8.0	8.2	15.0	11.0	12.9	16.9	11.9	14.1	18.4	13.1	15.6
25	9.3	8.3	8.8	15.5	11.3	13.3	17.0	12.2	14.4	15.8	12.5	14.1
26	10.1	9.1	9.6	15.4	11.0	13.2	15.2	11.7	13.3	17.9	12.2	14.8
27	10.0	9.3	9.7	15.8	10.8	13.2	15.4	10.5	12.7	17.2	14.1	15.6
28	10.1	9.0	9.5	15.9	11.1	13.5	16.2	10.4	13.1	18.0	14.4	16.0
29	10.5	9.0	9.7	15.9	11.6	13.7	16.6	11.6	13.9	18.0	14.4	16.0
30	11.0	8.9	9.8	16.1	10.9	13.5	16.6	12.1	14.2	17.7	14.7	16.0
31	11.6	9.3	10.4	---	---	---	17.2	11.8	14.3	15.8	14.2	15.0
MONTH	12.2	5.6	8.6	16.1	8.6	11.7	17.2	10.1	13.6	19.1	10.7	14.6

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.7	13.2	14.0	13.3	9.4	11.0	11.4	8.6	9.8	14.6	8.1	11.0
2	16.1	13.0	14.4	12.3	9.4	10.7	11.9	8.5	10	14.3	8.1	11.0
3	16.9	13.6	15.0	11.6	9.9	10.7	12.8	8.5	10.5	12.7	7.9	10.4
4	16.8	13.6	15.0	10.5	9.9	10.2	14.7	8.8	11.5	13.9	7.7	10.5
5	16.9	13.3	14.9	10.5	10.3	10.4	15.4	8.6	11.7	13.6	7.3	10.3
6	17.6	13.4	15.2	10.5	10.2	10.4	15.2	8.5	11.5	13.5	6.6	9.8
7	17.6	14.0	15.6	10.2	9.6	9.8	---	---	---	15.0	6.1	10.7
8	17.5	14.1	15.5	9.7	9.1	9.3	---	---	---	14.6	6.1	10.2
9	17.2	13.7	15.2	9.8	9.3	9.6	---	---	---	13.3	5.8	9.4
10	17.2	13.3	15.1	9.6	9.3	9.5	---	---	---	12.2	5.8	9.0
11	17.2	13.0	14.9	9.7	9.5	9.6	---	---	---	11.6	6.3	8.8
12	17.1	13.5	15.2	9.8	9.5	9.6	14.4	---	---	12.3	6.4	9.0
13	17.2	13.8	15.2	9.6	9.4	9.5	14.6	9.4	11.8	9.0	7.1	7.4
14	16.9	13.2	14.8	9.8	9.4	9.6	14.4	8.9	11.5	8.0	7.2	7.8
15	17.0	13.0	14.8	9.6	9.3	9.4	16.6	8.3	12.0	7.9	7.3	7.8
16	16.4	12.8	14.4	9.8	9.2	9.5	17.5	7.9	12.4	7.4	6.8	7.3
17	16.8	12.6	14.4	9.7	9.2	9.5	16.4	7.2	11.5	7.3	6.5	7.0
18	15.8	12.4	13.7	9.6	9.0	9.2	12.4	7.0	9.7	6.8	6.2	6.4
19	12.5	10.4	11.5	9.7	8.9	9.3	15.7	6.9	10.8	7.8	6.3	7.0
20	12.4	10.0	11.0	10.8	8.9	9.7	13.9	7.1	10.2	9.5	6.3	7.6
21	13.3	10.5	11.7	11.8	9.2	10.4	14.7	7.4	10.8	9.9	6.4	7.9
22	12.0	10.5	11.2	12.7	9.6	11.0	11.3	7.4	9.1	11.2	6.5	8.5
23	12.2	10.2	11.2	13.6	9.8	11.5	10.9	7.6	9.0	13.8	6.3	9.4
24	12.4	10.3	11.2	13.1	9.1	10.9	11.6	8.1	9.7	12.6	6.5	9.3
25	12.6	10.5	11.4	14.0	8.9	11.1	9.6	8.0	8.9	12.7	6.6	9.5
26	13.7	10.6	11.9	15.2	8.6	11.5	11.8	8.1	9.8	12.7	6.9	9.5
27	13.7	10.4	11.8	10.4	8.1	9.0	14.3	8.0	10.9	16.4	7.3	11.4
28	12.9	9.8	11.1	8.8	8.0	8.4	13.8	7.6	10.5	17.3	7.1	11.7
29	11.6	9.3	10.2	9.5	8.1	8.7	11.7	7.1	9.2	14.5	6.6	10.2
30	---	---	---	10.4	8.6	9.4	11.9	7.4	9.6	14.9	5.5	9.8
31	---	---	---	10.4	8.8	9.5	---	---	---	15.2	6.6	10.5
MONTH	17.6	9.3	13.5	15.2	8.0	9.9	17.5	6.9	10.5	17.3	5.5	9.2

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.0	6.8	11.1	6.8	6.4	6.5	7.6	---	---	17.4	7.8	12.3
2	12.0	5.9	8.3	9.0	6.4	7.0	7.9	7.0	---	---	---	---
3	14.4	6.3	9.9	6.8	6.2	6.5	8.7	6.9	---	---	---	---
4	14.5	6.5	10.3	6.9	5.9	6.6	10.8	6.8	8.3	---	---	---
5	14.2	6.6	10.2	5.9	5.6	5.8	11.5	7.1	8.9	---	---	---
6	16.6	6.1	11.0	6.0	5.7	5.9	11.0	7.3	---	---	---	---
7	12.3	5.7	9.2	6.2	5.9	6.1	13.4	7.2	9.8	10.7	---	---
8	12.9	6.3	9.4	6.2	6.0	6.2	13.9	7.0	10.1	11.2	6.5	8.8
9	10.9	6.4	8.8	6.4	6.1	6.3	14.5	6.8	10.1	11.4	6.6	9.0
10	11.0	6.4	8.5	6.5	6.2	6.4	13.9	6.8	9.6	11.8	6.8	9.3
11	13.5	6.3	9.4	6.4	6.0	6.2	8.4	6.5	7.4	11.9	6.8	9.3
12	12.7	5.5	8.8	6.9	6.0	6.3	9.3	7.1	7.9	11.9	6.8	9.4
13	9.4	6.1	7.2	8.0	5.9	6.7	9.5	7.5	8.5	11.3	6.8	9.2
14	12.0	5.2	8.0	9.8	5.8	7.4	7.8	7.4	7.6	11.2	7.1	9.1
15	12.9	5.4	8.6	11.7	5.8	8.4	8.3	7.4	7.8	10.4	6.5	8.8
16	13.5	5.8	9.1	11.4	5.6	8.1	8.8	7.6	8.1	11.4	6.8	9.2
17	11.9	---	---	13.0	6.2	9.3	11.0	7.4	8.9	12.1	7.4	9.8
18	9.4	5.7	6.3	14.4	6.4	9.9	13.5	7.2	9.9	13.0	7.6	10.3
19	6.1	5.7	5.9	15.2	5.8	10.1	12.2	7.3	9.6	13.4	7.8	10.8
20	6.6	6.1	6.4	15.6	5.6	10.2	14.9	7.9	11.0	13.4	8.4	11.0
21	6.8	6.3	6.5	17.0	6.2	11.0	18.3	8.3	12.4	13.8	8.5	11.3
22	6.5	6.2	6.4	16.7	7.0	11.2	16.8	7.7	11.8	14.1	8.6	11.7
23	6.4	6.2	6.3	11.7	5.4	6.7	15.6	7.2	11.0	14.3	8.0	11.4
24	6.7	6.3	6.5	6.2	5.6	6.0	19.6	7.2	12.4	---	---	---
25	6.7	6.3	6.5	6.5	6.2	6.3	18.9	7.0	12.2	---	---	---
26	6.6	6.4	6.5	6.7	6.4	6.5	16.0	6.9	11.1	---	---	---
27	6.8	6.2	6.6	6.4	6.0	6.2	17.0	6.6	11.2	---	---	---
28	6.7	6.1	6.3	7.3	6.1	6.5	15.3	6.8	10.7	---	---	---
29	6.8	6.2	6.5	7.7	7.3	7.6	15.3	7.4	11.0	---	---	---
30	6.8	6.4	6.7	8.0	---	---	16.0	7.4	11.4	---	---	---
31	---	---	---	7.9	---	---	16.4	7.8	12.0	---	---	---
MONTH	16.6	5.2	8.0	17.0	5.4	7.4	19.6	6.5	10.0	17.4	6.5	10.0

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6026
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	62	51	56	20	16	18	8.6	6.5	7.4	13	9.2	11
2	52	39	44	26	18	21	7.5	6.2	6.7	15	9.6	12
3	57	41	48	26	19	21	8.3	6.3	7.3	23	6.8	12
4	58	42	50	31	19	25	8.4	5.9	6.5	12	6.6	8.1
5	44	31	38	22	12	16	6.8	4.5	5.7	21	6.4	8.7
6	40	29	34	15	13	14	5.7	4.4	5.0	8.4	7.3	7.8
7	40	26	33	18	13	15	5.8	4.6	5.0	10	7.3	8.0
8	>1,500	28	>200	16	13	14	6.7	4.7	5.3	7.7	6.3	7.0
9	>1,500	1,300	>1,500	15	13	14	10	5.6	6.7	6.8	6.0	6.3
10	>1,500	1,160	>1,400	18	14	16	8.2	5.1	6.5	6.8	5.8	6.1
11	>1,500	720	>1,200	19	16	17	6.5	5.3	6.0	6.2	5.7	6.0
12	830	540	660	18	12	15	17	5.5	6.6	6.4	5.3	5.7
13	690	510	630	14	10	12	13	6.2	7.5	8.0	5.5	6.2
14	670	470	530	16	10	12	8.6	6.0	7.1	16	6.1	7.8
15	560	470	500	17	12	14	9.4	5.7	6.5	47	7.9	14
16	510	410	460	17	12	14	6.9	5.2	6.0	16	8.7	11
17	440	310	370	16	14	15	6.4	5.2	5.8	19	10	13
18	340	290	310	17	11	14	6.5	5.6	6.1	31	18	26
19	290	200	250	11	7.3	9.0	6.6	5.3	5.8	29	14	22
20	210	170	---	10	7.1	8.4	6.6	5.3	5.7	14	8.7	11
21	180	130	160	9.9	7.2	8.3	7.9	5.7	6.5	11	7.5	8.6
22	130	94	120	9.4	6.6	7.7	9.5	7.0	7.7	13	9.2	10
23	97	75	87	8.2	6.3	7.0	11	5.4	7.8	17	8.7	11
24	76	61	68	9.2	6.2	6.8	6.4	5.5	5.8	17	11	13
25	61	45	54	8.9	6.0	7.0	6.9	5.4	5.9	14	9.8	12
26	45	35	40	10	5.8	7.5	9.5	6.7	8.4	12	9.7	11
27	55	32	36	7.4	5.1	6.1	12	8.5	10	21	12	16
28	41	29	32	7.7	4.8	5.4	12	6.1	8.7	20	11	15
29	29	24	26	6.4	5.0	5.6	7.1	5.3	6.3	12	8.6	9.9
30	29	22	24	7.7	5.5	6.2	8.5	5.5	6.7	11	7.9	8.6
31	23	18	20	---	---	---	11	6.8	8.0	8.6	7.5	7.9
MONTH	1,500	18	300	31	4.8	12	17	4.4	6.7	47	5.3	11

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6026—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11	6.8	7.8	55	35	38	59	47	54	22	16	19
2	11	7.5	9.4	60	35	47	55	47	52	26	19	22
3	9.7	7.6	8.2	50	32	39	53	41	49	30	22	25
4	8.7	7.0	7.5	>1,200	50	>730	44	32	40	40	25	30
5	10	6.8	7.9	>1,200	910	>1,100	38	32	35	40	22	28
6	11	7.9	9.1	1,140	900	1,020	40	34	37	33	15	21
7	8.7	7.4	8.1	1,160	760	890	38	34	36	33	14	18
8	11	8.1	8.7	920	700	780	38	34	37	34	15	24
9	10	7.9	8.6	1,010	820	920	38	32	35	39	25	34
10	12	7.1	8.3	890	650	770	33	22	28	48	27	37
11	12	8.4	9.6	660	540	580	38	23	28	45	36	40
12	16	9.1	11	580	410	470	42	27	32	190	35	52
13	16	8.1	9.9	410	220	320	29	21	25	>1,300	73	>920
14	15	7.5	9.9	230	130	170	26	22	24	590	450	490
15	12	7.7	9.1	130	92	110	28	23	25	470	290	380
16	14	9.5	11	100	74	87	40	25	32	290	190	240
17	14	9.0	11	74	59	67	32	22	27	220	140	170
18	16	12	14	59	49	55	28	20	23	190	130	160
19	44	16	27	49	40	46	25	18	21	150	90	130
20	46	27	35	43	38	41	25	20	22	120	79	100
21	33	24	29	39	33	36	28	17	23	110	51	84
22	40	28	33	33	30	31	27	20	23	83	52	70
23	40	29	35	32	29	30	27	18	22	74	29	52
24	47	34	41	34	25	29	29	18	24	55	32	45
25	34	30	32	30	24	26	29	21	25	62	35	46
26	31	21	25	28	25	27	31	16	23	47	29	39
27	28	21	25	63	27	34	31	17	20	41	24	33
28	41	27	33	180	62	130	34	---	---	40	26	33
29	42	28	32	100	66	89	---	16	---	40	29	37
30	---	---	---	140	93	110	27	17	20	43	36	40
31	---	---	---	110	59	82	---	---	---	48	39	44
MONTH	47	6.8	18	1,200	24	290	59	16	30	1,300	14	110

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6026—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	50	34	43	300	200	250	---	100	---	---	---	---
2	52	39	48	210	140	180	100	78	96	---	---	---
3	52	37	46	1,390	140	550	80	68	77	---	---	---
4	56	40	49	1,030	530	720	80	54	68	---	---	---
5	58	35	48	1,320	460	750	71	48	62	59	32	43
6	51	31	44	570	290	360	61	44	53	47	31	41
7	61	37	54	290	220	250	56	36	48	45	31	38
8	68	47	59	220	180	200	53	27	41	48	31	40
9	71	51	61	240	160	200	53	25	39	46	30	40
10	71	52	60	260	180	220	78	30	43	47	32	39
11	56	26	46	190	150	180	170	78	130	47	30	37
12	54	31	44	160	120	140	290	120	220	42	27	36
13	180	48	120	140	92	120	320	120	150	44	28	38
14	120	50	93	110	62	91	450	320	410	45	30	39
15	110	65	89	90	49	71	400	140	280	42	27	35
16	100	55	84	74	42	59	160	110	130	42	27	33
17	100	50	78	68	34	52	110	54	80	38	25	33
18	1,400	65	770	66	29	47	62	29	48	41	26	34
19	670	400	520	56	30	44	38	27	34	43	28	36
20	420	310	350	55	31	43	34	20	28	49	32	42
21	440	250	320	55	35	44	28	19	24	47	27	38
22	1,400	350	520	51	32	43	31	19	26	41	27	34
23	860	420	650	1,250	43	460	30	19	25	39	28	34
24	420	330	400	480	340	410	34	17	23	42	30	35
25	400	300	350	470	380	400	26	14	20	---	---	---
26	300	240	280	510	360	460	31	15	23	---	---	---
27	270	220	240	370	270	310	30	19	24	---	---	---
28	850	270	510	320	250	280	39	21	30	---	---	---
29	700	380	490	310	230	270	42	25	35	---	---	---
30	420	300	370	230	---	---	50	26	35	---	---	---
31	---	---	---	---	140	---	---	---	---	---	---	---
MONTH	1,400	26	230	1,390	29	250	450	14	79	59	25	37

> Actual value is known to be greater than the value shown

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6136
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	86	71	81	29	17	24
2	---	---	---	---	---	---	---	---	---	31	19	25
3	---	---	---	---	---	---	---	43	---	30	22	27
4	---	---	---	---	---	---	49	34	43	42	25	34
5	---	---	---	---	---	---	43	29	38	40	26	35
6	---	---	---	---	---	---	36	27	32	40	---	---
7	---	---	---	---	---	---	34	22	28	---	17	---
8	---	---	---	---	---	---	32	16	25	25	18	21
9	---	---	---	---	---	---	30	15	23	24	18	21
10	---	---	---	---	---	---	47	18	26	24	17	21
11	---	---	---	---	---	---	100	47	79	26	17	21
12	---	---	---	---	---	---	170	71	130	24	15	20
13	---	---	---	---	---	---	190	74	90	25	16	21
14	---	---	---	---	---	---	260	190	240	25	16	22
15	---	---	---	53	30	43	240	81	170	24	16	20
16	---	---	---	44	26	35	90	63	76	26	17	21
17	---	---	---	39	20	31	63	32	46	24	15	20
18	---	---	---	37	21	---	37	17	30	25	15	20
19	---	---	---	---	18	---	24	17	21	24	16	21
20	---	---	---	32	18	26	26	12	18	26	18	23
21	---	---	---	32	20	28	16	11	14	27	17	23
22	---	---	---	31	20	28	20	12	16	22	18	21
23	---	---	---	680	24	240	20	10	16	25	18	21
24	---	---	---	270	200	230	---	---	---	28	20	23
25	---	---	---	280	230	240	---	---	---	---	---	---
26	---	---	---	300	230	270	---	---	---	---	---	---
27	---	---	---	230	170	190	20	11	---	---	---	---
28	---	---	---	200	160	180	21	13	17	---	---	---
29	---	---	---	190	150	170	23	14	20	---	---	---
30	---	---	---	150	110	130	27	17	23	---	---	---
31	---	---	---	110	86	100	31	18	24	---	---	---
MONTH	---	---	---	680	18	130	260	10	53	42	15	23

07144200 LITTLE ARKANSAS RIVER AT VALLEY CENTER, KS

LOCATION.--Lat 37°49'56", long 97°23'16", river gage is in NE ¼ NW ¼ SW ¼ sec.36, T.25 S., R.1 W., Sedgwick County, Hydrologic Unit 11030012, on right bank at downstream side of county highway bridge, 0.5 mi west of Valley Center, and at mile 17.5. Little Arkansas River Floodway gage is in NE ¼ NE ¼ NE ¼ sec.34, T.25 S., R.1 W., on right bank at downstream side of county highway bridge, and 1.2 mi northwest of river gage.

DRAINAGE AREA.--1,327 mi^2, of which about 77 mi^2 is probably noncontributing.

PERIOD OF RECORD.--June 1922 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1037: 1944. WSP 1117: Drainage area. WSP 1241: 1923, 1924-26(M), 1928-29(M), 1930(M, m), 1931(M), 1932(M, m), 1933(M), 1934, 1937(M), 1949(M). WSP 1711: 1958.

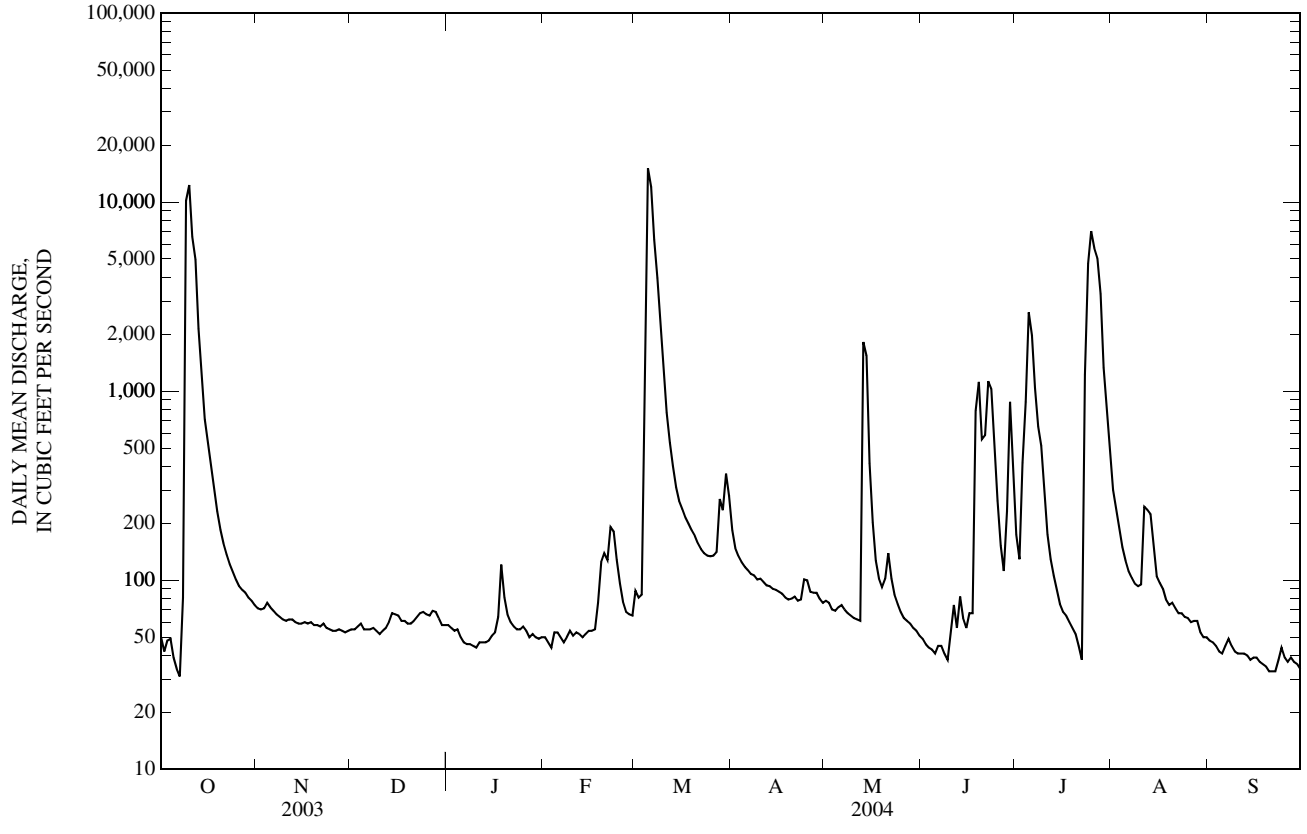
GAGE.--River gage is water-stage recorder. Datum of river gage is 1,325.66 ft above NGVD of 1929. Prior to Feb. 12, 1935, nonrecording gage at site 2.0 mi downstream at different datum. Feb. 12, 1935, to July 1, 1951, water-stage recorder, July 2, 1951, to Feb. 16, 1952, nonrecording gage, and Feb. 17, 1952, to Sept. 30, 1974, water-stage recorder at present site and at datum 2.00 ft higher. Floodway gage is water-stage recorder. Datum of floodway gage is 1,340.00 ft above NGVD of 1929 (levels by Wichita-Valley Center Flood Control Project).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow affected by diversions and ground-water withdrawals for irrigation and municipal supply. Satellite telemeter at river station and floodway station. Since May 1957, part of high-water flow bypasses river gage through floodway channel for which separate records are computed; figures representing combined discharge are given herein. Discharge through floodway occurred only on the days given in the following table:

Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)
Oct 9	7,110	Mar 4	714	Mar 9	105	Jul 23	287	Jul 28	778
Oct 10	8,810	Mar 5	11,900	May 13	365	Jul 24	1,970		
Oct 11	3,370	Mar 6	8,960	May 14	89	Jul 25	4,100		
Oct 12	2,010	Mar 7	3,610	Jul 5	441	Jul 26	2,800		
Oct 13	155	Mar 8	1,460	Jul 6	94	Jul 27	2,090		

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 9	1800	15,700	--	May 13	1900	3,180	--
Mar 5	2200	*16,700	--	Jul 25	1400	7,440	--



07144200 LITTLE ARKANSAS RIVER AT VALLEY CENTER, KS—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	71	55	58	e50	88	184	78	49	174	e300	48
2	42	70	55	56	e47	81	148	76	46	129	238	47
3	48	71	57	54	e44	84	134	70	44	417	186	45
4	49	76	59	55	53	1,730	125	69	43	878	150	42
5	39	e72	55	e50	53	15,100	118	72	41	2,610	127	41
6	34	e69	55	e47	e50	12,000	113	74	45	1,970	112	45
7	31	66	55	e46	e47	6,330	108	70	45	1,040	103	49
8	81	64	56	46	e50	3,970	106	67	41	649	96	45
9	10,200	62	e54	45	54	2,090	101	65	38	514	93	42
10	12,300	61	e52	e44	51	1,230	102	63	53	292	95	e41
11	6,550	62	e54	47	53	771	98	62	74	175	245	e41
12	4,970	62	e56	47	e52	534	94	61	56	129	236	e41
13	2,140	60	60	47	e50	402	93	1,820	82	106	224	40
14	1,190	59	67	48	e52	310	90	1,540	63	89	154	38
15	711	59	66	51	e54	263	89	416	56	75	105	39
16	529	60	65	53	e54	238	87	202	67	68	97	39
17	409	59	61	64	e55	215	85	127	67	65	90	37
18	301	60	61	121	76	199	81	102	788	60	79	36
19	231	58	59	81	125	184	79	92	1,120	56	74	35
20	185	58	59	66	139	172	80	102	556	52	76	33
21	157	57	61	60	128	157	82	139	585	45	71	33
22	137	59	64	57	191	146	78	102	1,130	38	67	33
23	122	56	67	55	181	139	79	84	1,030	1,220	67	38
24	111	55	68	55	128	135	101	75	537	4,740	64	44
25	101	54	66	57	96	134	100	68	263	7,020	63	39
26	93	54	65	e54	77	135	87	63	152	5,700	60	37
27	89	55	69	e50	68	141	86	61	112	5,050	61	39
28	86	54	68	e52	66	269	86	59	232	3,270	61	37
29	81	53	63	e50	65	235	80	56	879	1,330	53	36
30	78	54	58	e49	---	366	76	54	385	e800	50	34
31	74	---	58	e50	---	279	---	51	---	e500	50	---
MEAN	1,330	61.0	60.3	55.3	76.2	1,552	99.0	195	289	1,266	114	39.8
MAX	12,300	76	69	121	191	15,100	184	1,820	1,130	7,020	300	49
MIN	31	53	52	44	44	81	76	51	38	38	50	33
AC-FT	81,760	3,630	3,710	3,400	4,380	95,460	5,890	11,980	17,210	77,870	7,040	2,370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2004, BY WATER YEAR (WY)

MEAN	291	200	101	87.2	205	386	390	564	612	463	225	256
MAX	3,873	2,969	953	589	2,241	4,392	3,857	4,710	3,076	6,794	1,996	1,471
(WY)	(1974)	(1980)	(1945)	(1962)	(1993)	(1973)	(1944)	(1993)	(1965)	(1993)	(1950)	(1977)
MIN	5.06	10.9	11.2	9.37	11.8	17.0	17.1	17.0	12.5	7.14	4.29	3.49
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1956)	(1956)	(1956)	(1934)	(1991)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1923 - 2004	
ANNUAL MEAN	396		433		315	
HIGHEST ANNUAL MEAN					1,698	1993
LOWEST ANNUAL MEAN					24.9	1934
HIGHEST DAILY MEAN	12,300	Oct 10	15,100	Mar 5	28,600	Jul 15, 1993
LOWEST DAILY MEAN	6.6	Aug 26	31	Oct 7	1.1	Oct 6, 1956
ANNUAL SEVEN-DAY MINIMUM	7.2	Aug 22	35	Sep 17	1.9	Oct 5, 1956
MAXIMUM PEAK FLOW			16,700	Mar 5	32,000	Apr 16, 1945
MAXIMUM PEAK STAGE					22.05	Apr 16, 1945
INSTANTANEOUS LOW FLOW			29	Oct 7	0.00	Nov 19, 1992
ANNUAL RUNOFF (AC-FT)	286,400		314,700		228,400	
10 PERCENT EXCEEDS	836		565		494	
50 PERCENT EXCEEDS	59		68		59	
90 PERCENT EXCEEDS	13		45		21	

e Estimated

07144300 ARKANSAS RIVER AT WICHITA, KS

LOCATION.--Lat 37°38'41", long 97°20'06", river gage is in SE ¼ SE ¼ NE ¼ sec.5, T.28 S., R.1 E., Sedgwick County, Hydrologic Unit 11030013, on right bank at downstream side of bridge on Broadway Street in Wichita, 3.7 mi downstream from mouth of Little Arkansas River and at mile 759.7. Big Slough-Cowskin Floodway gage is in sec.11, T.27 S., R.1 W., Sedgwick County, on right bank at downstream side of bridge on Zoo Boulevard in Wichita, 1.0 mi downstream from control structure, and 6.5 mi northwest of Broadway Street gage.

DRAINAGE AREA.--40,490 mi^2, of which 7,263 mi^2 is probably noncontributing.

PERIOD OF RECORD.--July 1934 to current year. Gage-height records collected at site 3.2 mi upstream since 1897 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1241: 1940, 1944. WSP 1341: Drainage area.

GAGE.--River gage is water-stage recorder. Datum of river gage is 1,262.42 ft above NGVD of 1929. Prior to Oct. 1, 1985, at datum 5.00 ft higher than present datum. See WSP 1921 for history of changes prior to Oct. 1, 1968. Floodway gage is water-stage recorder. Datum of floodway gage is 1,300.00 ft above NGVD of 1929 (levels by Wichita-Valley Center Flood Control Project).

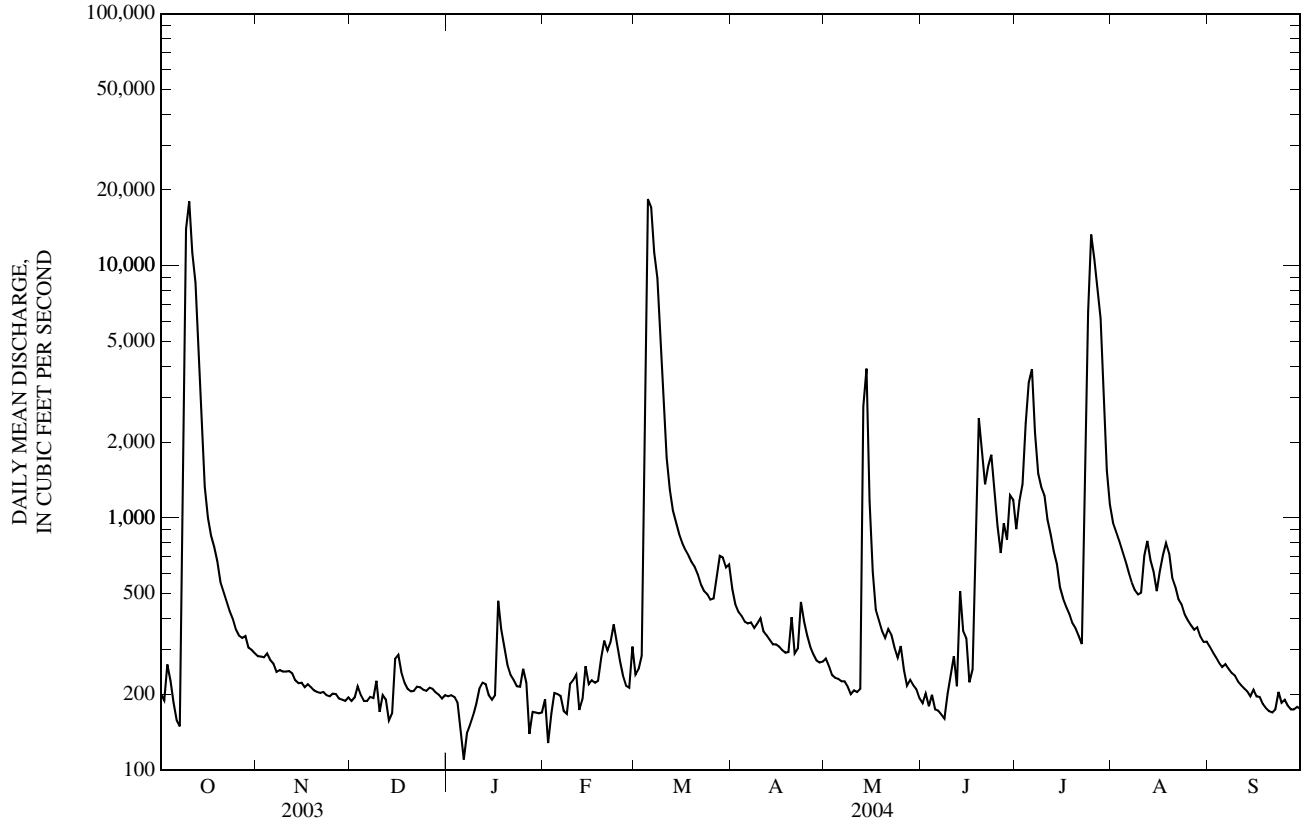
REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated since 1948 by John Martin Reservoir (station 07130000). Natural flow affected by transmountain diversions, storage reservoirs, power developments, ground-water withdrawals, diversions for irrigation, city of Wichita weir 2.2 mi upstream, and return flow from irrigated areas. Since May 1957, part of high-water flow bypasses river gage through floodway channel for which separate records are computed; figures representing floodway discharge and combined discharge are given herein. Satellite telemeter at station. Discharge through floodway occurred only on days given in the following table:

Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)	Date	Discharge (ft^3/s)
Oct 9	5,650	Oct 12	843	Mar 7	3,680	Jul 24	175	Jul 27	64
Oct 10	8,040	Mar 5	9,290	Mar 8	1,840	Jul 25	3,410		
Oct 11	2,720	Mar 6	8,140	Mar 9	12	Jul 26	1,420		

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of May 18, 1877, and July 8, 1904, reached stages of 21 ft and 20.3 ft, respectively, river gage site and datum then in use (from reports of U.S. Weather Bureau).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 9	2200	*21,700	--	Jul 4	0530	5,030	8.04
Mar 5	1600	21,100	--	Jul 6	0115	4,650	7.80
May 14	0100	5,740	8.47	Jul 25	1600	14,000	--



07144300 ARKANSAS RIVER AT WICHITA, KS—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	283	188	196	191	239	523	277	184	903	956	309
2	189	282	194	198	128	252	455	258	201	1,170	881	293
3	262	280	215	195	167	284	424	238	179	1,360	810	280
4	226	290	198	185	202	1,160	409	232	199	2,380	741	266
5	185	273	188	139	200	18,400	388	230	174	3,450	675	256
6	157	264	188	110	197	17,100	381	225	172	3,890	611	263
7	149	245	195	140	171	11,300	385	225	166	2,180	555	252
8	516	249	193	151	167	8,920	366	214	160	1,500	517	243
9	14,000	246	226	165	219	4,570	381	200	201	1,330	497	237
10	18,000	246	170	183	227	2,700	400	207	236	1,230	505	225
11	11,300	247	198	211	239	1,730	355	204	283	985	707	217
12	8,580	242	190	222	173	1,290	342	210	215	860	810	211
13	4,410	227	157	219	191	1,070	329	2,770	513	739	679	205
14	2,190	221	168	198	258	961	315	3,910	357	655	613	196
15	1,330	222	276	190	219	864	315	1,170	333	531	512	208
16	1,000	213	286	198	227	795	309	612	223	479	614	196
17	853	219	244	469	222	746	299	433	251	445	713	195
18	768	213	222	361	226	708	292	393	757	416	796	183
19	676	207	210	308	279	668	294	357	2,490	383	722	176
20	557	204	205	261	326	638	404	334	1,830	365	579	171
21	509	202	206	238	298	597	290	362	1,360	341	532	169
22	464	204	214	227	321	544	304	343	1,610	316	475	174
23	427	198	213	215	378	513	464	306	1,780	989	453	204
24	397	196	208	214	322	498	388	279	1,300	6,560	414	185
25	361	201	206	252	271	474	342	310	926	13,300	392	190
26	341	200	212	222	237	479	308	249	726	10,600	375	180
27	334	192	210	139	216	584	288	216	953	8,150	360	174
28	340	190	203	170	212	707	272	228	820	6,190	368	174
29	306	188	199	169	309	697	267	217	1,230	2,880	338	178
30	300	194	192	168	---	637	269	209	1,180	1,540	322	175
31	291	---	198	169	---	654	---	193	---	1,130	323	---
MEAN	2,246	228	206	209	234	2,606	352	504	700	2,492	576	213
MAX	18,000	290	286	469	378	18,400	523	3,910	2,490	13,300	956	309
MIN	149	188	157	110	128	239	267	193	160	316	322	169
AC-FT	138,100	13,560	12,640	12,860	13,470	160,200	20,940	30,960	41,670	153,200	35,400	12,660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	948	678	458	424	682	1,195	1,233	1,645	1,943	1,616	937	862
MAX	12,900	5,957	2,963	2,153	5,278	9,361	8,498	9,215	8,851	14,620	9,202	3,932
(WY)	(1974)	(1999)	(1974)	(1974)	(1949)	(1973)	(1973)	(1951)	(1951)	(1993)	(1950)	(1973)
MIN	10.2	30.7	23.4	18.8	53.7	63.2	58.1	119	119	46.8	14.2	7.90
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1935)	(1935)	(1992)	(1956)	(1991)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1935 - 2004	
ANNUAL MEAN	792		889		1,053	
HIGHEST ANNUAL MEAN					3,850	1993
LOWEST ANNUAL MEAN					151	1991
HIGHEST DAILY MEAN	18,000	Oct 10	18,400	Mar 5	41,100	Jul 15, 1993
LOWEST DAILY MEAN	55	Aug 26	110	Jan 6	5.0	Oct 5, 1956
ANNUAL SEVEN-DAY MINIMUM	63	Aug 21	153	Jan 4	5.4	Oct 2, 1956
MAXIMUM PEAK FLOW			21,700	Oct 9	48,400	Oct 31, 1979
INSTANTANEOUS LOW FLOW			70	Feb 2	3.0	Sep 3, 1934
ANNUAL RUNOFF (AC-FT)	573,100		645,700		762,900	
10 PERCENT EXCEEDS	1,440		1,290		2,240	
50 PERCENT EXCEEDS	249		284		432	
90 PERCENT EXCEEDS	132		184		108	

07144480 COWSKIN CREEK AT 119TH STREET AT WICHITA, KS

LOCATION.--Lat 37°42'06", long 97°28'50", in SW $^1/_4$ SW$^1/_4$ NW$^1/_4$ sec.18, T.27 S., R.1 W., Sedgwick County, Hydrologic Unit 11030013, at left downstream end of bridge on 119th St West and at mile 46.1.

DRAINAGE AREA.--86.0 mi^2.

PERIOD OF RECORD.--April 2001 to current year.

REVISED RECORDS.--2001(M).

GAGE.--Water-stage rcorder. Datum of gage is 1,312.40 ft above NGVD of 1929 (from city of Wichita bench mark).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	2.2	3.0	3.7	e4.5	3.9	8.2	4.4	2.5	30	13	4.8
2	3.4	2.7	3.0	3.3	e4.3	4.9	6.6	4.2	2.6	911	9.5	4.8
3	4.7	3.1	3.1	3.2	e4.0	7.0	5.5	4.1	2.8	336	8.4	4.5
4	4.1	3.0	2.9	3.1	e4.5	280	4.7	3.6	2.6	1,100	7.5	4.5
5	3.8	2.8	3.0	3.1	e5.0	e2,310	4.2	3.3	2.5	1,970	6.4	4.0
6	4.4	2.9	3.0	3.1	e5.0	e914	3.8	2.8	2.4	1,190	5.3	3.9
7	4.3	2.8	3.1	3.1	e4.7	181	3.6	2.2	2.2	334	4.8	3.9
8	45	3.1	3.3	3.1	e4.7	90	3.4	e2.0	2.1	88	4.8	4.4
9	2,440	3.0	4.3	3.1	e4.8	52	3.5	e1.9	3.5	54	5.0	4.5
10	1,310	3.0	3.5	3.1	e5.0	35	3.6	e1.8	120	43	5.3	4.2
11	360	2.9	3.4	3.2	e5.6	24	3.4	e1.8	186	31	5.8	4.1
12	105	2.4	3.6	3.2	e5.6	17	3.6	e1.8	70	20	6.4	3.8
13	62	2.8	4.4	3.3	e6.0	14	3.4	906	350	12	6.5	3.2
14	46	3.0	5.6	3.3	7.0	11	3.2	1,290	680	8.5	6.9	2.7
15	27	3.0	5.9	3.4	9.3	10	3.1	172	165	7.4	5.7	2.4
16	15	3.2	5.7	3.4	12	8.8	2.9	62	63	6.7	11	2.0
17	10	3.0	5.4	3.5	12	7.8	3.0	30	41	5.8	7.5	1.7
18	8.5	3.1	5.0	3.5	14	6.4	2.9	16	695	5.2	12	1.4
19	6.3	3.0	e5.1	3.5	22	8.6	2.8	11	678	4.9	12	1.3
20	4.7	2.9	4.6	3.5	e28	6.9	3.7	9.1	631	4.8	8.6	1.2
21	3.7	2.8	4.4	3.6	22	5.8	3.7	7.8	363	4.2	7.0	1.2
22	3.6	2.8	4.3	3.6	15	5.3	3.7	6.9	226	4.0	6.1	1.2
23	3.7	2.5	4.1	3.7	10	5.2	4.4	5.9	105	48	5.5	1.8
24	e3.1	2.5	4.2	3.7	7.1	5.1	59	5.1	54	697	4.9	1.6
25	2.6	2.5	4.3	3.7	5.8	5.0	69	4.8	41	485	4.7	1.4
26	2.3	2.5	4.2	3.7	4.6	4.8	24	3.2	29	115	4.6	1.4
27	2.2	2.3	4.0	4.1	4.1	7.2	9.8	2.9	21	56	4.1	1.3
28	2.0	2.6	3.8	e5.1	3.7	117	6.2	3.2	17	42	4.3	1.2
29	2.0	2.7	3.4	e4.9	4.3	47	5.0	3.1	12	32	4.8	1.2
30	2.0	2.9	3.2	e4.6	---	16	4.8	2.7	12	23	4.9	1.9
31	2.0	---	3.8	e4.6	---	10	---	2.6	---	18	4.7	---
MEAN	145	2.80	4.02	3.58	8.43	136	8.96	83.2	153	248	6.71	2.72
MAX	2,440	3.2	5.9	5.1	28	2,310	69	1,290	695	1,970	13	4.8
MIN	2.0	2.2	2.9	3.1	3.7	3.9	2.8	1.8	2.1	4.0	4.1	1.2
AC-FT	8,920	167	247	220	485	8,370	533	5,110	9,090	15,250	413	162

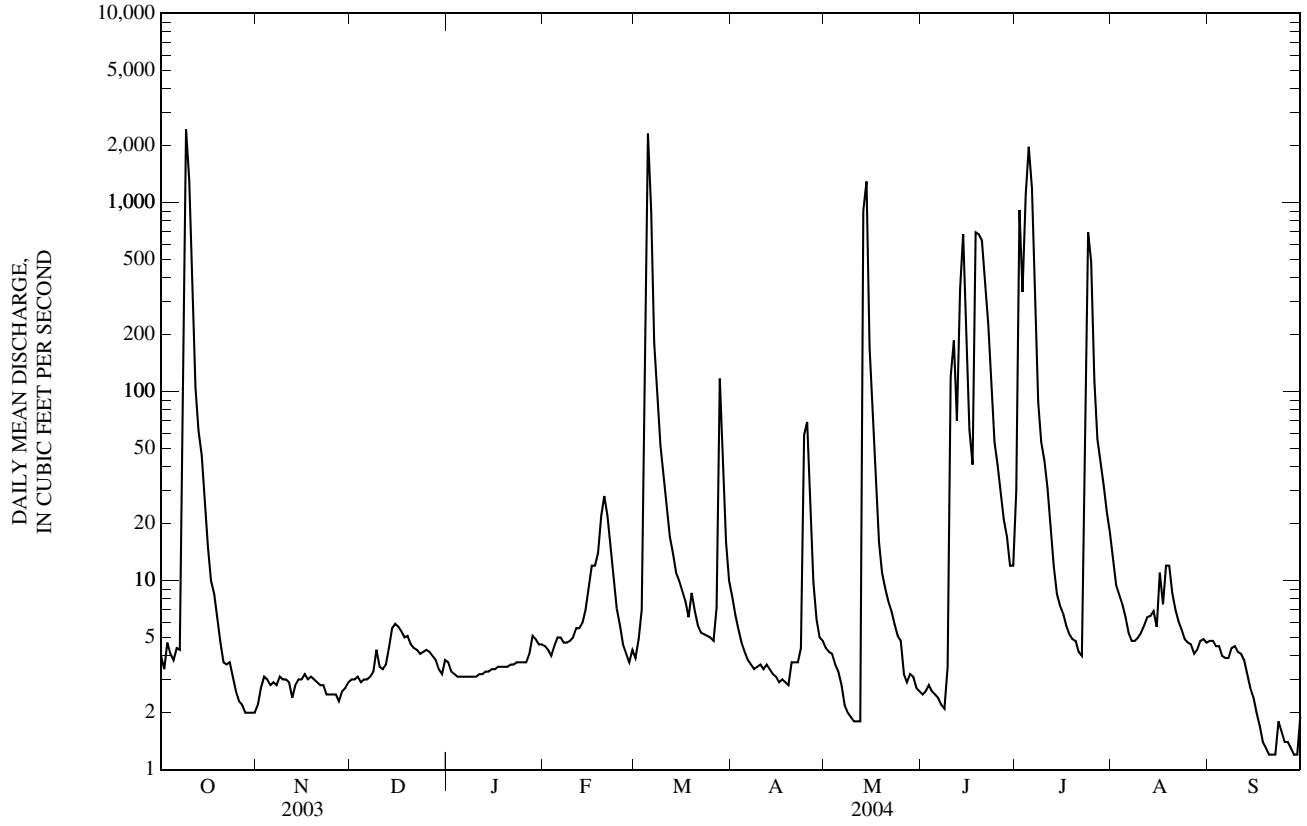
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	87.2	4.20	3.48	3.49	5.57	65.8	18.8	39.1	82.0	63.9	12.3	6.90
MAX	145	7.78	4.02	4.58	8.43	136	55.5	83.2	153	248	36.8	16.7
(WY)	(2004)	(2003)	(2004)	(2003)	(2004)	(2004)	(2003)	(2004)	(2004)	(2004)	(2002)	(2003)
MIN	1.35	2.02	2.47	2.30	1.67	2.47	3.87	3.48	17.5	1.50	1.77	2.72
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(2003)	(2001)	(2001)	(2004)

07144480 COWSKIN CREEK AT 119TH STREET AT WICHITA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL MEAN	29.6		67.5		37.6	
HIGHEST ANNUAL MEAN					67.5	2004
LOWEST ANNUAL MEAN					17.9	2002
HIGHEST DAILY MEAN	2,440	Oct 9	2,440	Oct 9	2,440	Oct 9, 2003
LOWEST DAILY MEAN	2.0	Oct 28	1.2	Sep 20	0.91	Feb 15, 2002
ANNUAL SEVEN-DAY MINIMUM	2.1	Oct 26	1.4	Sep 18	0.97	Feb 12, 2002
MAXIMUM PEAK FLOW			3,890	Oct 9	3,890	Oct 9, 2003
MAXIMUM PEAK STAGE			20.13	Oct 9	20.13	Oct 9, 2003
INSTANTANEOUS LOW FLOW			1.1	Sep 21	0.88	Feb 14, 2002
ANNUAL RUNOFF (AC-FT)	21,400		48,970		27,240	
10 PERCENT EXCEEDS	35		65		41	
50 PERCENT EXCEEDS	4.9		4.5		4.1	
90 PERCENT EXCEEDS	2.6		2.5		1.9	

e Estimated



07144485 COWSKIN CREEK AT MAPLE STREET AT WICHITA, KS

LOCATION.--Lat 37°40'45", long 97°27'27", in NE ¼ NW¼ NW¼ sec.29, T.27 S., R.1 W., Sedgwick County, Hydrologic Unit 11030013, at left downstream end of bridge on Maple Street West and at mile 42.8.

DRAINAGE AREA.--97.70 mi^2.

PERIOD OF RECORD.--March September 2004.

GAGE.--Water-stage rcorder. Datum of gage is 1,300.00 ft above NGVD of 1929 (from city of Wichita bench mark).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,980 ft^3/s, Mar. 5, gage height, 14.09 ft; minimum discharge, 0.00 ft^3/s, on several days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

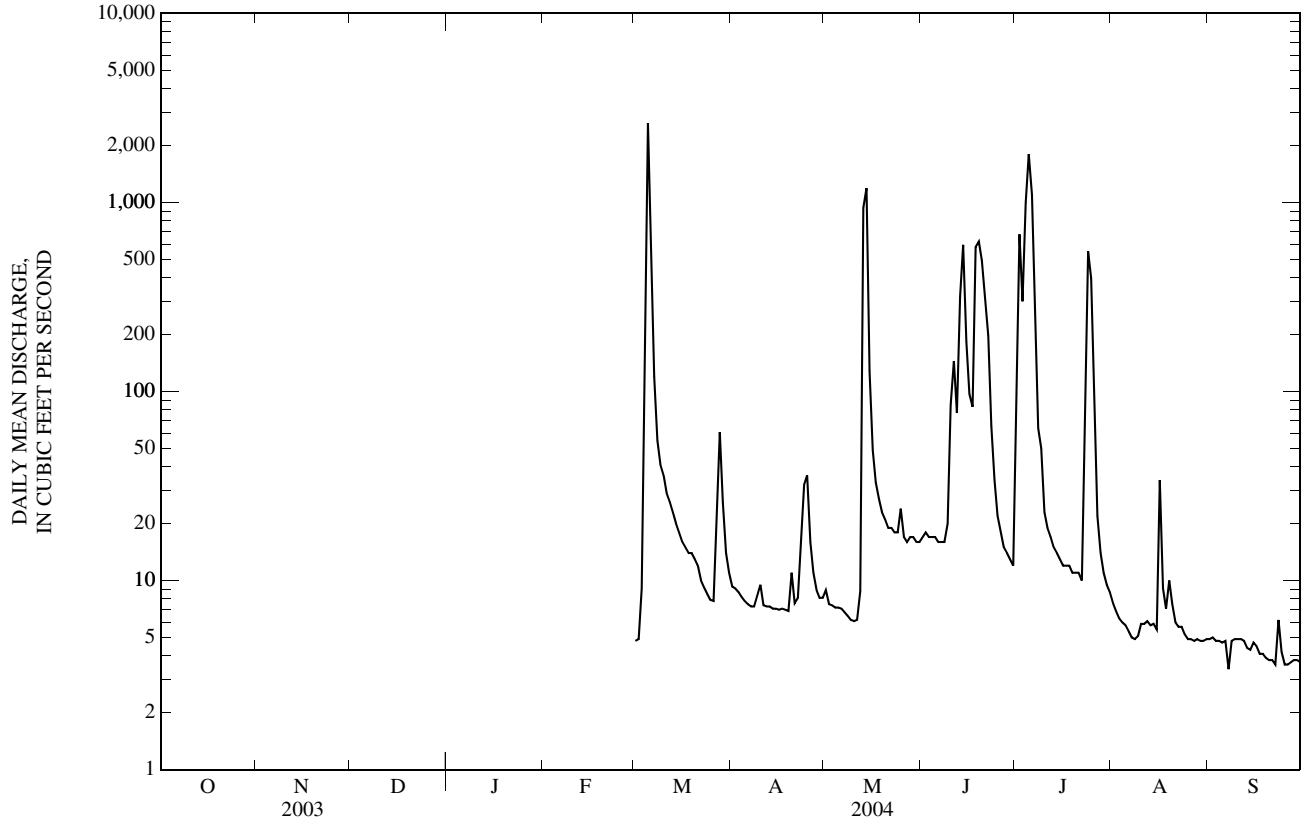
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e4.8	9.3	8.9	17	54	7.6	4.9
2	---	---	---	---	---	4.9	9.1	7.5	18	678	6.9	5.0
3	---	---	---	---	---	9.1	8.7	7.4	17	e300	6.3	4.8
4	---	---	---	---	---	296	8.2	7.2	17	e1,000	6.0	4.8
5	---	---	---	---	---	2,630	7.8	7.2	17	e1,800	5.8	4.7
6	---	---	---	---	---	777	7.5	7.1	16	e1,100	5.4	4.8
7	---	---	---	---	---	120	7.3	6.8	16	e250	5.0	3.4
8	---	---	---	---	---	55	7.3	6.5	16	e64	4.9	4.8
9	---	---	---	---	---	41	8.3	6.2	20	e50	5.1	4.9
10	---	---	---	---	---	e36	9.5	6.1	85	23	5.9	4.9
11	---	---	---	---	---	e29	7.4	6.2	145	19	5.9	4.9
12	---	---	---	---	---	26	7.3	8.8	77	17	6.1	4.8
13	---	---	---	---	---	23	7.3	935	319	15	5.8	4.4
14	---	---	---	---	---	20	7.1	1,190	596	14	5.9	4.3
15	---	---	---	---	---	18	7.1	128	184	13	5.5	4.7
16	---	---	---	---	---	16	7.0	49	97	12	34	4.5
17	---	---	---	---	---	15	7.1	33	83	12	9.1	4.1
18	---	---	---	---	---	14	7.0	27	582	12	7.1	4.1
19	---	---	---	---	---	14	6.9	23	621	11	10	3.9
20	---	---	---	---	---	13	11	21	492	11	7.5	3.8
21	---	---	---	---	---	12	7.6	19	297	11	6.0	3.8
22	---	---	---	---	---	10	8.1	19	197	10	5.7	3.6
23	---	---	---	---	---	9.2	16	18	66	74	5.7	6.2
24	---	---	---	---	---	8.5	32	18	34	551	5.2	4.2
25	---	---	---	---	---	7.9	36	24	22	397	4.9	3.6
26	---	---	---	---	---	7.8	16	17	18	61	4.9	3.6
27	---	---	---	---	---	19	11	16	15	22	4.8	3.7
28	---	---	---	---	---	61	8.9	17	14	14	4.9	3.8
29	---	---	---	---	---	26	8.1	17	13	11	4.8	3.8
30	---	---	---	---	---	14	8.1	16	12	9.5	4.8	3.7
31	---	---	---	---	---	11	---	16	---	8.7	4.9	---
MEAN	---	---	---	---	---	140	10.3	86.7	137	214	6.85	4.35
MAX	---	---	---	---	---	2,630	36	1,190	621	1,800	34	6.2
MIN	---	---	---	---	---	4.8	6.9	6.1	12	8.7	4.8	3.4
MED	---	---	---	---	---	16	8.1	17	28	19	5.8	4.3
AC-FT	---	---	---	---	---	8,620	615	5,330	8,180	13,140	421	259

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	140	10.3	86.7	137	214	6.85	4.35
MAX	---	---	---	---	---	140	10.3	86.7	137	214	6.85	4.35
(WY)	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	140	10.3	86.7	137	214	6.85	4.35
(WY)	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

e Estimated

07144485 COWSKIN CREEK AT MAPLE STREET AT WICHITA, KS—Continued



07144550 ARKANSAS RIVER AT DERBY, KS

LOCATION.--Lat 37°32'34", long 97°16'31", in SE ¼ SW ¼ NW ¼ sec.12, T.29 S., R.1 E., Sedgwick County, Hydrologic Unit 11030013, on left bank at downstream side of county highway bridge at west edge of Derby, 0.9 mi downstream from mouth of bypass channel, and at mile 749.5.

DRAINAGE AREA.--40,830 mi^2, of which 7,263 mi^2 is probably noncontributing.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,229.95 ft above NGVD of 1929 (city of Wichita bench mark).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated since 1948 by John Martin Reservoir (station 07130000). Low flow regulated by city of Wichita low-water dam. Natural flow affected by numerous diversions upstream from station. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 10	0300	23,100	11.92	Jun 21	0600	6,910	6.68
Mar 5	2015	*23,400	*11.99	Jun 27	2100	5,750	6.22
May 13	0900	14,800	9.66	Jul 4	0800	10,600	8.35
Jun 13	0900	5,140	5.68	Jul 25	1545	12,500	8.86
Jun 19	1300	5,990	6.21				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	319	299	e290	275	409	677	594	390	997	1,230	452
2	317	331	291	e276	235	332	594	487	464	2,910	1,080	434
3	566	340	405	295	240	416	547	466	433	2,360	1,020	419
4	445	352	318	278	292	3,140	526	454	425	5,250	e914	404
5	363	353	307	241	287	18,000	504	440	390	5,420	e801	392
6	321	357	289	187	284	18,300	499	425	379	5,320	743	401
7	294	342	290	230	253	11,800	514	435	374	3,030	737	392
8	531	344	299	248	251	9,100	509	409	368	1,790	640	387
9	16,200	350	391	262	317	5,140	560	390	459	1,650	618	377
10	18,800	349	318	274	344	2,870	678	406	636	1,460	697	366
11	11,700	357	289	305	375	1,810	544	396	746	1,150	837	354
12	8,750	352	299	330	284	1,300	476	386	594	933	1,100	346
13	5,080	339	272	327	245	1,020	462	8,120	2,730	820	895	339
14	2,400	322	260	294	326	865	450	7,040	2,640	759	794	332
15	1,520	330	400	287	305	764	450	2,570	1,180	656	667	372
16	1,100	324	491	292	317	697	443	1,230	626	638	1,110	347
17	892	377	399	1,110	304	664	426	832	654	573	940	334
18	740	354	348	1,020	301	632	408	710	2,410	503	1,050	329
19	628	336	334	486	345	601	427	618	4,420	500	1,130	313
20	551	335	320	379	434	594	1,090	563	3,450	491	879	308
21	515	332	322	328	394	546	633	565	4,140	463	672	302
22	470	329	336	306	374	530	557	571	2,640	439	605	309
23	439	322	347	286	449	532	1,350	509	2,360	2,920	668	405
24	421	314	328	272	399	541	1,610	478	1,850	7,980	573	356
25	373	323	317	341	340	549	809	740	1,360	11,700	517	350
26	345	324	316	333	301	554	627	487	1,010	10,600	502	336
27	343	313	328	220	271	690	526	431	1,710	8,210	479	329
28	358	296	316	246	257	1,220	500	427	1,590	6,440	537	325
29	333	292	306	241	488	1,010	487	428	1,330	3,870	492	322
30	327	298	298	232	---	794	487	518	1,440	2,000	467	323
31	330	---	e303	242	---	820	---	391	---	1,490	464	---
MEAN	2,447	334	327	337	320	2,782	612	1,049	1,440	3,010	770	358
MAX	18,800	377	491	1,110	488	18,300	1,610	8,120	4,420	11,700	1,230	452
MIN	294	292	260	187	235	332	408	386	368	439	464	302
AC-FT	150,500	19,850	20,100	20,740	18,420	171,100	36,440	64,500	85,680	185,100	47,320	21,330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

MEAN	1,211	964	568	479	803	1,639	1,577	1,747	1,881	1,453	924	933
MAX	13,000	6,293	2,916	2,190	3,965	9,439	8,949	8,939	6,640	13,450	2,774	3,640
(WY)	(1974)	(1999)	(1974)	(1974)	(1993)	(1973)	(1973)	(1993)	(1995)	(1993)	(1987)	(1973)
MIN	102	162	173	179	163	183	178	237	415	185	168	142
(WY)	(1992)	(1981)	(1991)	(1979)	(1989)	(1989)	(1989)	(1992)	(1991)	(1991)	(1984)	(1980)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1969 - 2004	
ANNUAL MEAN	996		1,158		1,183	
HIGHEST ANNUAL MEAN					3,621	1993
LOWEST ANNUAL MEAN					259	1991
HIGHEST DAILY MEAN	18,800	Oct 10	18,800	Oct 10	44,300	Nov 2, 1998
LOWEST DAILY MEAN	129	Aug 27	187	Jan 6	83	Oct 6, 1991
ANNUAL SEVEN-DAY MINIMUM	135	Aug 17	242	Jan 27	90	Oct 2, 1991
MAXIMUM PEAK FLOW			23,400	Mar 5	58,300	Nov 2, 1998
MAXIMUM PEAK STAGE			11.99	Mar 5	16.45	Nov 2, 1998
INSTANTANEOUS LOW FLOW			113	Aug 7	62	Oct 5, 1991
ANNUAL RUNOFF (AC-FT)	721,200		841,000		856,800	
10 PERCENT EXCEEDS	2,050		2,360		2,520	
50 PERCENT EXCEEDS	353		440		523	
90 PERCENT EXCEEDS	226		292		197	

e Estimated