06910800 MARAIS DES CYGNES RIVER NEAR READING, KS

LOCATION.--Lat 38°34'01", long 95°57'41", in NE ¼ SE ¼ SW ¼ sec.15, T.17 S., R.13 E., Lyon County, Hydrologic Unit 10290101, on left bank at downstream side of county highway bridge, 1.9 mi downstream from confluence of One Hundred and Fortytwo Mile Creek and Elm Creek, 4.3 mi upstream from Duck Creek, 3.0 mi north of Reading, and at mile 467.0.

DRAINAGE AREA.--177 mi^2.

PERIOD OF RECORD.--May 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,048.32 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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)
May 13	1400	*14,000	*24.12
Jun 4	0500	3,970	16.26
Jun 9	0800	6,550	21.59
Jun 11	1600	6,830	21.92
Jun 13	0200	8,040	22.44
Aug 26	1500	4,210	17.05
Sep 15	0900	3,290	14.44

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	6.7	59	31	116	56	34	21	25	57	8.1	45
2	2.4	23	55	30	100	52	32	19	25	54	6.6	40
3	2.2	28	50	372	73	51	30	17	1,140	40	5.4	36
4	2.2	34	46	715	61	48	29	15	2,700	163	4.9	34
5	2.2	66	60	1,020	56	45	29	14	1,180	91	4.2	29
6	2.5	35	311	254	463	42	584	13	318	52	3.7	24
7	4.2	26	161	197	1,340	40	403	12	158	37	3.5	20
8	3.4	17	91	110	400	39	190	12	253	30	3.2	16
9	3.1	13	69	120	194	39	120	15	3,920	26	3.0	14
10	3.5	17	57	390	163	37	89	12	1,280	23	2.5	12
11	3.4	250	51	213	260	35	73	11	4,710	19	2.3	9.9
12	3.5	104	46	126	470	34	73	21	3,450	18	2.4	8.9
13	8.4	57	42	e90	1,320	32	61	7,290	4,120	19	118	9.0
14	6.0	43	38	e70	506	30	51	1,860	749	13	166	31
15	2.8	37	36	58	236	29	45	459	434	11	67	1,370
16	1.9	33	35	44	158	29	41	264	258	10	33	369
17	1.4	32	35	40	122	29	38	177	180	9.1	22	125
18	1.5	31	35	40	106	28	35	121	138	8.0	14	70
19	1.1	31	34	54	104	28	34	97	109	796	9.2	50
20	1.1	30	32	382	159	26	33	77	89	336	414	41
21	0.85	29	32	614	171	31	31	62	76	114	201	34
22	0.72	26	30	217	121	125	29	53	66	57	76	29
23	0.76	27	28	136	98	149	26	45	57	39	52	25
24	2.0	62	25	81	85	97	25	43	50	29	57	23
25	1.9	126	23	62	75	72	25	44	45	24	969	19
26	31	197	24	61	69	60	26	41	40	20	3,210	16
27	150	128	26	66	64	52	26	35	36	34	575	14
28	43	81	27	59	61	47	26	32	33	26	209	14
29	26	62	28	52	---	43	25	43	31	16	106	11
30	18	58	30	67	---	40	23	29	32	12	71	11
31	9.6	---	31	100	---	37	---	27	---	10	53	---
MEAN	11.0	57.0	53.1	189	255	48.5	76.2	354	857	70.7	209	85.0
MAX	150	250	311	1,020	1,340	149	584	7,290	4,710	796	3,210	1,370
MIN	0.72	6.7	23	30	56	26	23	11	25	8.0	2.3	8.9
AC-FT	679	3,390	3,270	11,650	14,180	2,980	4,530	21,780	50,980	4,350	12,840	5,060

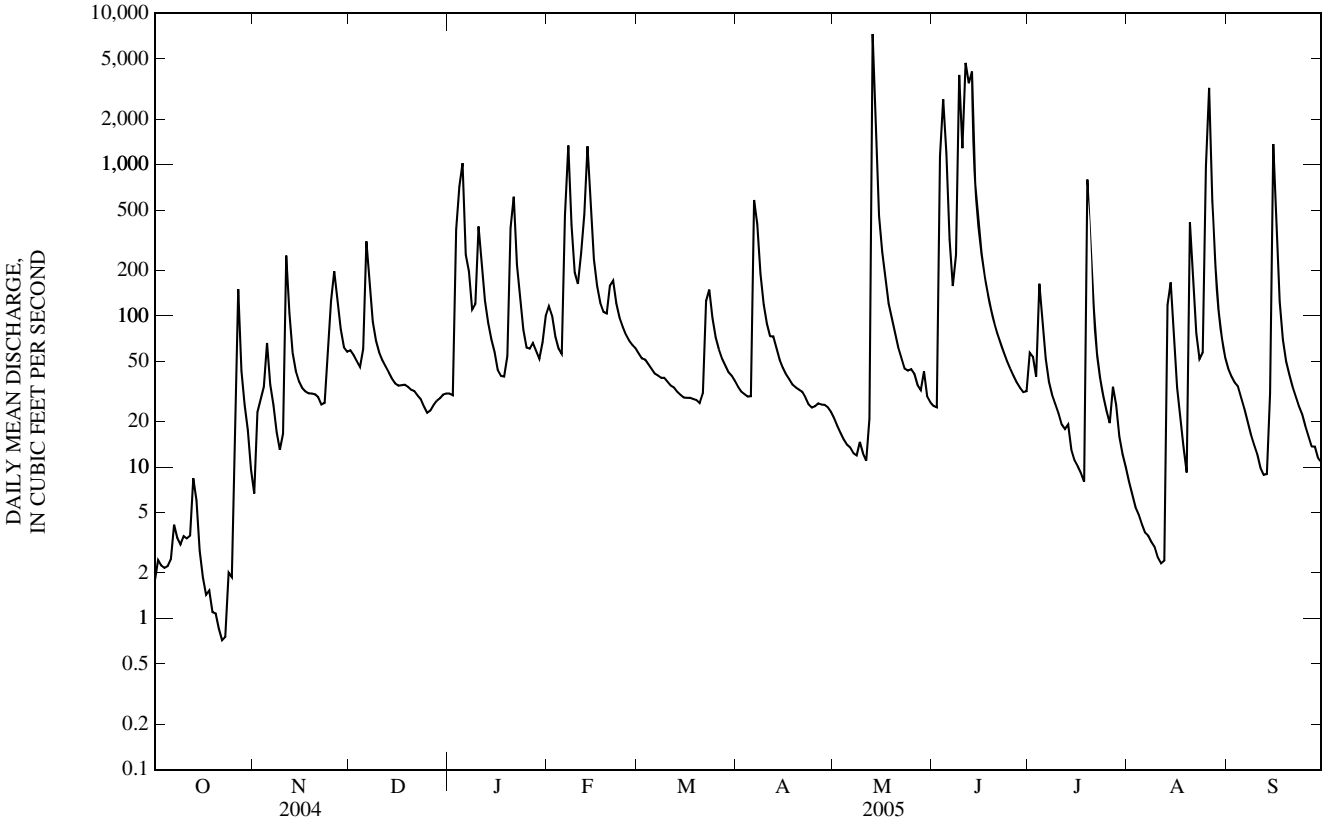
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005, BY WATER YEAR (WY)

MEAN	73.0	78.4	53.0	48.3	99.1	151	171	235	218	97.2	30.5	63.7
MAX	773	978	276	208	424	744	778	1,766	1,173	875	209	828
(WY)	(1986)	(1999)	(1993)	(1974)	(1985)	(1973)	(1983)	(1982)	(1977)	(1993)	(2005)	(1973)
MIN	0.00	0.00	0.00	0.00	0.01	0.66	0.74	13.6	0.58	0.27	0.00	0.00
(WY)	(1989)	(1989)	(1992)	(1992)	(1992)	(1989)	(1981)	(1980)	(1989)	(1980)	(1991)	(1991)

06910800 MARAIS DES CYGNES RIVER NEAR READING, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005	
ANNUAL MEAN	138		187		110	
HIGHEST ANNUAL MEAN					296	1999
LOWEST ANNUAL MEAN					8.37	1991
HIGHEST DAILY MEAN	4,940	Mar 5	7,290	May 13	25,000	May 29, 1982
LOWEST DAILY MEAN	0.72	Oct 22	0.72	Oct 22	0.00	Sep 8, 1976
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 17	1.1	Oct 17	0.00	Sep 8, 1976
MAXIMUM PEAK FLOW			14,000	May 13	67,400	May 29, 1982
MAXIMUM PEAK STAGE			24.12	May 13	27.47	May 29, 1982
INSTANTANEOUS LOW FLOW			0.53	Oct 22	0.00	many years
ANNUAL RUNOFF (AC-FT)	99,920		135,700		79,500	
10 PERCENT EXCEEDS	193		314		167	
50 PERCENT EXCEEDS	31		40		14	
90 PERCENT EXCEEDS	4.1		7.5		0.20	

e Estimated



06910997 MELVERN LAKE NEAR MELVERN, KS

LOCATION.--Lat 38°30'34", long 95°42'34", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.1, T.18 S., R.15 E., Osage County, Hydrologic Unit 10290101, in control tower of Melvern Dam on Marais des Cygnes River, 4.0 mi west of Melvern, and at mile 447.7.

DRAINAGE AREA.--349 mi^2.

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Army Corps of Engineers).

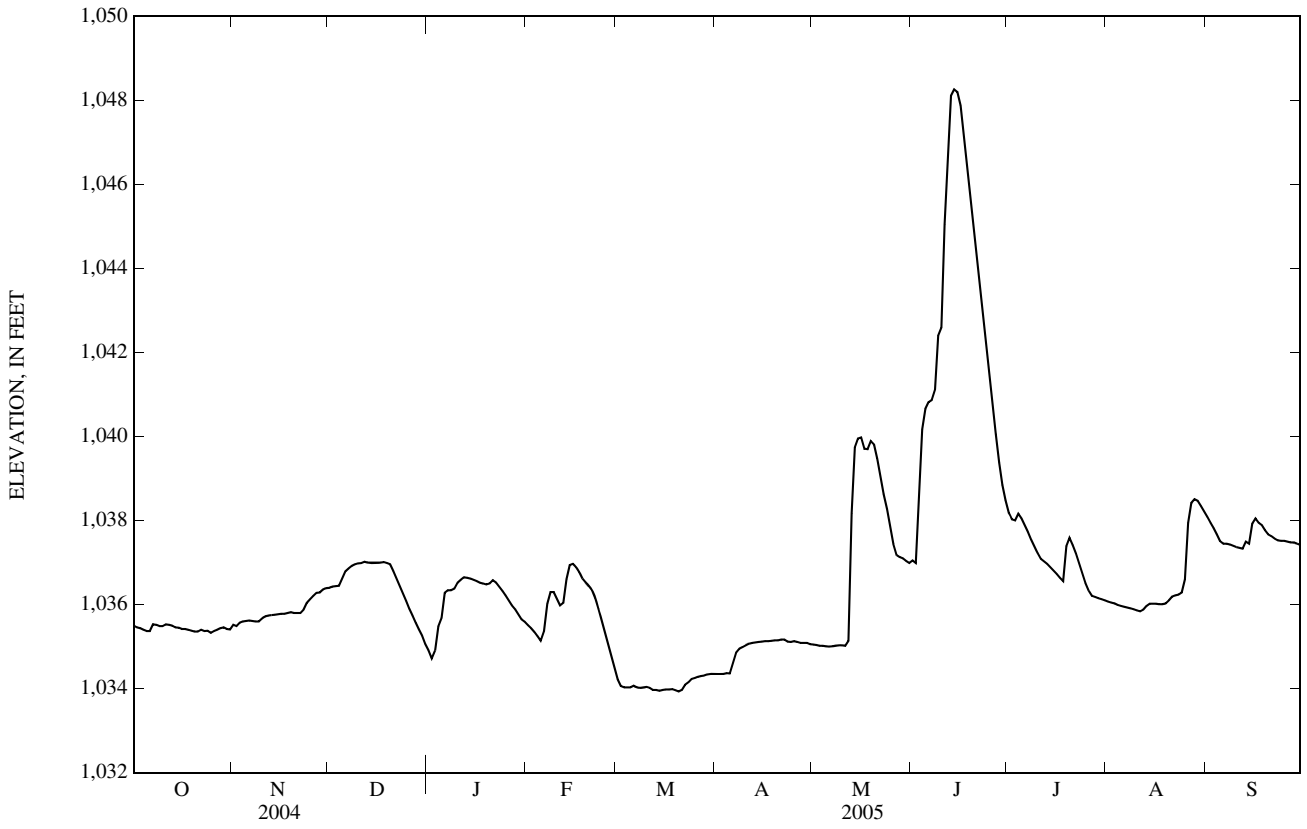
REMARKS.--Records good. Reservoir is formed by compacted earthfill dam. Storage began in July 1972. Conservation pool elevation first reached Apr. 4, 1975. Total capacity, 920,600 acre-ft, consisting of the following: Dead storage, 26 acre-ft below elevation 962.0 ft; conservation pool, 154,400 acre-ft between elevations 962.0 ft and 1,036.0 ft; flood-control pool, 258,600 acre-ft between elevations 1,036.0 ft and 1,057.0 ft; and surcharge pool, 507,600 acre-ft between elevations 1,057.0 ft and 1,073.0 ft. Reservoir is used to store water for flood control, irrigation, and recreation. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,053.45 ft, June 13, 1995, contents, 316,300 acre-ft; minimum elevation since conservation pool first reached, 1,029.86 ft, Feb. 11, 1992, contents, 115,800 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,048.31 ft, June 15, contents, 258,800 acre-ft; minimum elevation, 1,033.90 ft, Mar. 21, contents, 140,300 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Computed by U.S. Army Corps of Engineers in 1963)

Elevation	Contents	Elevation	Contents	Elevation	Contents
1,030	116,600	1,040	184,000	1,050	276,600



06910997 MELVERN LAKE NEAR MELVERN, KS—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,035.50	1,035.52	1,036.40	1,034.91	1,035.51	1,034.22	1,034.35	1,035.05	1,037.05	1,038.19	1,036.07	1,038.09
2	1,035.46	1,035.49	1,036.43	1,034.72	1,035.44	1,034.06	1,034.35	1,035.04	1,036.99	1,038.03	1,036.05	1,037.95
3	1,035.44	1,035.57	1,036.44	1,034.91	1,035.35	1,034.03	1,034.35	1,035.02	1,038.37	1,038.00	1,036.03	1,037.82
4	1,035.40	1,035.60	1,036.45	1,035.48	1,035.25	1,034.03	1,034.37	1,035.02	1,040.17	1,038.16	1,035.99	1,037.67
5	1,035.37	1,035.61	1,036.62	1,035.68	1,035.14	1,034.03	1,034.36	1,035.01	1,040.66	1,038.05	1,035.97	1,037.51
6	1,035.37	1,035.62	1,036.79	1,036.28	1,035.36	1,034.07	1,034.61	1,035.00	1,040.82	1,037.89	1,035.95	1,037.45
7	1,035.53	1,035.61	1,036.86	1,036.34	1,036.02	1,034.03	1,034.86	1,035.01	1,040.87	1,037.73	1,035.93	1,037.45
8	1,035.52	1,035.60	1,036.92	1,036.34	1,036.30	1,034.02	1,034.95	1,035.02	1,041.11	1,037.55	1,035.91	1,037.43
9	1,035.49	1,035.60	1,036.96	1,036.38	1,036.30	1,034.03	1,034.99	1,035.03	1,042.40	1,037.39	1,035.89	1,037.40
10	1,035.49	1,035.67	1,036.98	1,036.52	1,036.14	1,034.04	1,035.03	1,035.03	1,042.59	1,037.23	1,035.86	1,037.37
11	1,035.53	1,035.72	1,036.99	1,036.59	1,035.98	1,034.02	1,035.07	1,035.02	1,045.05	1,037.09	1,035.84	1,037.35
12	1,035.52	1,035.74	1,037.02	1,036.65	1,036.04	1,033.97	1,035.09	1,035.14	1,046.59	1,037.03	1,035.88	1,037.33
13	1,035.50	1,035.75	1,037.00	1,036.64	1,036.61	1,033.97	1,035.10	1,038.17	1,048.11	1,036.97	1,035.97	1,037.50
14	1,035.46	1,035.76	1,037.00	1,036.62	1,036.94	1,033.95	1,035.11	1,039.74	1,048.26	1,036.89	1,036.02	1,037.45
15	1,035.45	1,035.77	1,037.00	1,036.59	1,036.97	1,033.97	1,035.12	1,039.95	1,048.20	1,036.81	1,036.02	1,037.93
16	1,035.42	1,035.78	1,037.00	1,036.56	1,036.89	1,033.98	1,035.13	1,039.98	1,047.88	1,036.73	1,036.02	1,038.05
17	1,035.42	1,035.78	1,037.00	1,036.52	1,036.77	1,033.98	1,035.13	1,039.71	1,047.28	1,036.64	1,036.01	1,037.95
18	1,035.40	1,035.80	1,037.01	1,036.50	1,036.62	1,033.99	1,035.14	1,039.70	1,046.64	1,036.56	1,036.01	1,037.89
19	1,035.38	1,035.82	1,036.99	1,036.48	1,036.53	1,033.96	1,035.15	1,039.89	1,046.01	1,037.39	1,036.03	1,037.77
20	1,035.36	1,035.80	1,036.96	1,036.50	1,036.44	1,033.93	1,035.15	1,039.81	1,045.36	1,037.59	1,036.10	1,037.67
21	1,035.36	1,035.80	1,036.80	1,036.58	1,036.34	1,033.97	1,035.17	1,039.47	1,044.66	1,037.42	1,036.19	1,037.63
22	1,035.40	1,035.80	1,036.62	1,036.53	1,036.15	1,034.09	1,035.17	1,039.06	1,043.93	1,037.22	1,036.22	1,037.57
23	1,035.37	1,035.88	1,036.45	1,036.43	1,035.90	1,034.15	1,035.12	1,038.63	1,043.18	1,036.99	1,036.24	1,037.53
24	1,035.38	1,036.04	1,036.27	1,036.33	1,035.63	1,034.23	1,035.11	1,038.28	1,042.41	1,036.75	1,036.29	1,037.52
25	1,035.33	1,036.13	1,036.09	1,036.22	1,035.35	1,034.25	1,035.13	1,037.85	1,041.65	1,036.51	1,036.60	1,037.52
26	1,035.37	1,036.21	1,035.90	1,036.10	1,035.07	1,034.28	1,035.11	1,037.44	1,040.86	1,036.33	1,037.94	1,037.50
27	1,035.40	1,036.28	1,035.74	1,035.98	1,034.79	1,034.30	1,035.09	1,037.18	1,040.06	1,036.21	1,038.42	1,037.48
28	1,035.44	1,036.29	1,035.57	1,035.89	1,034.50	1,034.31	1,035.09	1,037.13	1,039.38	1,036.18	1,038.51	1,037.48
29	1,035.46	1,036.36	1,035.41	1,035.77	---	1,034.34	1,035.09	1,037.10	1,038.85	1,036.15	1,038.47	1,037.45
30	1,035.42	1,036.39	1,035.26	1,035.65	---	1,034.35	1,035.06	1,037.04	1,038.48	1,036.13	1,038.35	1,037.42
31	1,035.41	---	1,035.06	1,035.59	---	1,034.35	---	1,036.99	---	1,036.10	1,038.22	---
MEAN	1,035.43	1,035.83	1,036.52	1,036.14	1,035.94	1,034.09	1,034.95	1,037.21	1,042.80	1,037.09	1,036.48	1,037.60
MAX	1,035.53	1,036.39	1,037.02	1,036.65	1,036.97	1,034.35	1,035.17	1,039.98	1,048.26	1,038.19	1,038.51	1,038.09
MIN	1,035.33	1,035.49	1,035.06	1,034.72	1,034.50	1,033.93	1,034.35	1,035.00	1,036.99	1,036.10	1,035.84	1,037.33
(+)	150,300	157,100	148,000	151,600	144,300	143,300	148,000	161,300	172,300	155,100	170,300	164,500
(#)	-700	+6,800	-9,100	+3,600	-7,300	-1,000	+4,700	+13,300	+11,000	-17,200	+15,200	-5,800

CAL YR 2004 ..... (#) +2,500
WTR YR 2005 ..... (#) +13,500

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

06911490 SALT CREEK AT LYNDON, KS

LOCATION.--Lat 38°36'05", long 95°41'04", in SE ¼ SE ¼ NW ¼ sec.06, T.17 S., R.16 E., Osage County, Hydrologic Unit 10290101, on left bank at upstream side of U.S. Highway 75 bridge, 0.25 mi south of Lyndon, and at mile 16.6.

DRAINAGE AREA.--97.8 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 979.79 ft above NGVD of 1929. Prior to Oct. 1, 1999, recording gage at site 0.5 mi north and 2.5 mi east of present site at datum 24.01 ft lower.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 13	2100	*6,580	*12.33

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

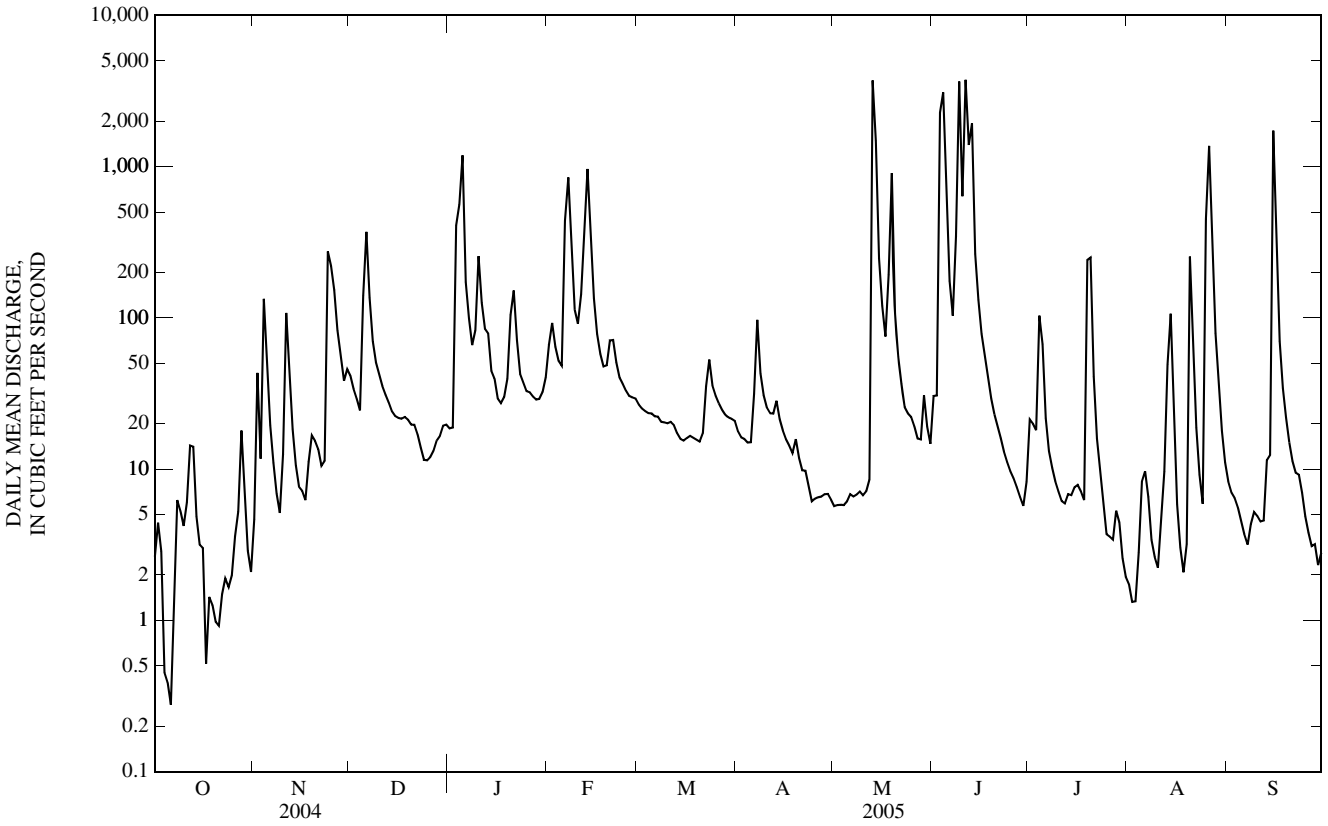
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.7	42	19	66	27	18	5.7	30	21	1.7	8.3
2	4.4	43	34	19	93	25	16	5.8	31	20	1.3	7.0
3	2.9	12	29	409	65	24	16	5.8	2,270	18	1.3	6.4
4	0.45	134	24	564	52	23	15	5.8	3,090	103	2.8	5.6
5	0.39	44	140	1,190	48	23	15	6.1	707	67	8.3	4.6
6	0.28	20	371	173	439	22	31	6.8	175	22	9.7	3.7
7	1.5	11	136	100	849	22	97	6.6	103	13	6.5	3.2
8	6.2	6.9	70	66	260	21	43	6.8	347	10	3.4	4.3
9	5.3	5.1	51	83	113	20	31	7.1	3,650	8.3	2.6	5.2
10	4.2	13	42	256	92	20	26	6.7	637	7.1	2.2	4.9
11	6.0	108	35	126	143	21	23	7.1	3,750	6.1	5.0	4.5
12	14	45	31	85	426	20	23	8.5	1,390	5.9	9.6	4.6
13	14	18	28	79	965	17	28	3,720	1,930	6.8	49	11
14	4.9	11	24	45	310	16	21	1,480	265	6.7	107	12
15	3.2	7.6	22	40	135	15	18	247	132	7.6	19	1,730
16	3.0	7.2	22	29	78	16	16	120	78	7.9	5.9	255
17	0.52	6.2	22	27	58	17	14	75	56	7.1	3.0	70
18	1.4	11	22	30	48	16	13	193	40	6.2	2.1	34
19	1.3	17	21	40	48	16	16	907	29	241	3.2	22
20	0.98	15	20	105	71	15	12	107	23	250	254	15
21	0.92	14	20	152	71	17	9.8	55	19	41	83	11
22	1.5	11	17	71	51	35	9.8	37	16	16	19	9.5
23	1.9	11	14	43	40	53	7.7	26	13	9.4	9.2	9.2
24	1.7	274	12	38	37	36	6.1	23	11	5.8	5.9	7.0
25	2.0	221	11	33	33	31	6.4	22	9.7	3.7	450	4.9
26	3.6	152	12	32	31	27	6.5	19	8.7	3.6	1,370	3.8
27	5.2	83	13	30	30	25	6.6	16	7.6	3.4	316	3.1
28	18	55	15	29	29	23	6.8	16	6.5	5.3	79	3.2
29	6.9	38	17	29	---	22	6.9	31	5.7	4.4	38	2.3
30	2.9	46	19	32	---	22	6.3	19	8.2	2.6	18	2.8
31	2.1	---	20	41	---	21	---	15	---	1.9	11	---
MEAN	4.01	48.2	43.7	130	167	22.8	18.8	232	628	30.1	93.4	75.6
MAX	18	274	371	1,190	965	53	97	3,720	3,750	250	1,370	1,730
MIN	0.28	4.7	11	19	29	15	6.1	5.7	5.7	1.9	1.3	2.3
AC-FT	246	2,870	2,690	7,960	9,280	1,400	1,120	14,290	37,370	1,850	5,750	4,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	2.21	10.3	28.0	24.9	62.9	66.7	43.2	101	163	39.2	30.8	27.9
MAX	4.62	48.2	105	130	167	231	103	275	628	199	93.4	77.1
(WY)	(2002)	(2005)	(2000)	(2005)	(2005)	(2004)	(2003)	(2002)	(2005)	(2004)	(2005)	(2001)
MIN	0.00	0.02	0.06	0.09	1.22	1.51	8.72	7.12	2.71	0.77	0.11	0.00
(WY)	(2001)	(2001)	(2001)	(2001)	(2003)	(2003)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)

06911490 SALT CREEK AT LYNDON, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL MEAN	63.4		123		49.8	
HIGHEST ANNUAL MEAN					123	2005
LOWEST ANNUAL MEAN					18.6	2003
HIGHEST DAILY MEAN	2,870	Mar 5	3,750	Jun 11	3,750	Jun 11, 2005
LOWEST DAILY MEAN	0.28	Oct 6	0.28	Oct 6	0.00	Aug 25, 2000
ANNUAL SEVEN-DAY MINIMUM	1.2	Oct 17	1.2	Oct 17	0.00	Aug 25, 2000
MAXIMUM PEAK FLOW			6,580	May 13	6,580	May 13, 2005
MAXIMUM PEAK STAGE			12.33	May 13	12.33	May 13, 2005
INSTANTANEOUS LOW FLOW			0.13	Oct 6	0.00	Aug 28, 2000
ANNUAL RUNOFF (AC-FT)	46,010		89,330		36,070	
10 PERCENT EXCEEDS	98		182		64	
50 PERCENT EXCEEDS	14		19		4.4	
90 PERCENT EXCEEDS	2.5		3.4		0.07	



06911900 DRAGOON CREEK NEAR BURLINGAME, KS

LOCATION.--Lat 38°42'38", long 95°50'09", in SE $^1/_4$ SE $^1/_4$ sec.27, T.15 S., R.14 E., Osage County, Hydrologic Unit 10290101, on left bank 110 ft downstream from city of Burlingame pumping station and dam, 0.2 mi downstream from bridge on U.S. Highway 56, 2.0 mi downstream from Plum Creek, and 3.0 mi south of Burlingame.

DRAINAGE AREA.--114 mi^2.

PERIOD OF RECORD.--March 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,016.06 ft above NGVD of 1929. Prior to June 8, 1960, nonrecording gage at bridge 180 ft upstream at present datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900, 23.4 ft, June 26, 1946, from information by local residents.

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)
May 13	1615	*4,870	*17.43	Jun 13	0400	4,740	17.18
Jun 4	0700	2,040	9.56	Aug 25	2300	1,590	7.82
Jun 11	1900	3,680	14.74				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	15	55	24	75	44	31	17	15	160	3.2	15
2	3.4	55	51	22	63	41	27	15	13	56	2.7	15
3	3.5	35	44	301	51	40	26	14	1,030	33	2.4	15
4	3.5	61	40	378	45	38	26	13	1,400	347	1.9	13
5	3.3	57	69	e520	43	36	27	13	320	106	1.6	8.5
6	3.4	32	298	e200	385	35	297	13	133	43	1.4	4.4
7	4.4	24	137	e160	853	35	265	12	70	25	1.2	e4.1
8	4.4	20	75	e77	259	34	113	11	e195	19	1.3	3.8
9	7.9	18	57	e110	139	33	67	12	e1,390	16	1.2	3.4
10	5.8	35	48	214	116	33	53	11	250	12	1.2	3.0
11	5.5	310	41	141	180	31	47	11	2,280	10	1.1	3.4
12	6.2	83	38	82	295	30	54	18	1,760	9.3	1.3	2.7
13	5.9	44	34	e60	828	28	53	3,190	2,470	8.6	11	6.9
14	5.3	32	30	e40	303	26	41	557	272	7.7	76	13
15	4.2	27	28	e34	182	25	36	187	155	7.2	15	450
16	3.8	26	28	31	117	25	32	103	96	7.3	5.6	204
17	3.3	26	28	29	89	25	30	73	73	7.8	3.6	55
18	3.3	27	28	30	76	26	29	60	59	8.2	2.5	33
19	3.3	31	26	37	76	25	28	72	48	51	3.7	24
20	3.6	30	25	254	133	24	26	48	41	187	509	16
21	3.4	26	24	351	123	25	25	38	35	38	92	13
22	4.3	23	22	119	82	88	22	31	30	18	31	10
23	5.3	23	20	70	69	93	19	26	26	12	116	8.1
24	5.0	127	17	53	61	65	17	23	22	8.0	47	6.9
25	5.7	192	17	45	56	55	18	22	18	6.1	412	6.2
26	133	273	18	50	51	49	19	20	16	7.3	767	5.8
27	144	122	19	54	49	44	19	17	14	9.4	215	5.0
28	40	70	21	44	48	41	19	16	12	6.0	69	5.0
29	23	53	22	39	---	40	18	15	11	5.1	39	4.8
30	15	54	23	58	---	39	18	13	21	4.8	25	4.4
31	13	---	24	70	---	35	---	13	---	3.9	18	---
MEAN	15.5	65.0	45.4	119	173	39.0	50.1	151	409	40.0	79.9	32.1
MAX	144	310	298	520	853	93	297	3,190	2,470	347	767	450
MIN	3.3	15	17	22	43	24	17	11	11	3.9	1.1	2.7
AC-FT	950	3,870	2,790	7,330	9,610	2,400	2,980	9,290	24,350	2,460	4,910	1,910

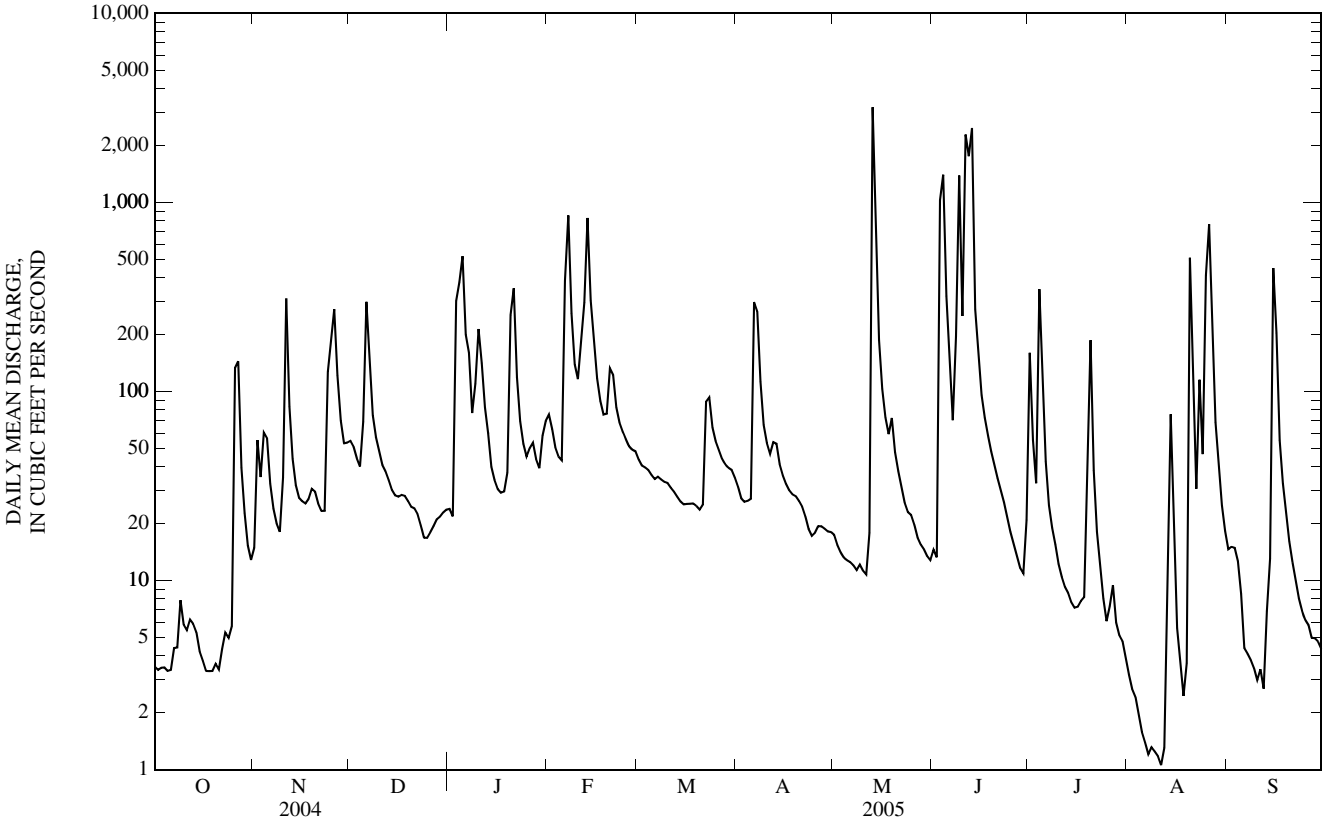
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

MEAN	47.7	47.5	30.7	28.4	53.1	95.3	115	135	149	55.6	17.6	35.3
MAX	447	621	186	182	249	511	600	1,008	856	652	186	339
(WY)	(1986)	(1999)	(1974)	(1962)	(1985)	(1973)	(1983)	(1995)	(1977)	(1993)	(1968)	(1973)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.01	0.00	0.00
(WY)	(1965)	(1967)	(1967)	(1977)	(1992)	(1967)	(1977)	(1989)	(1989)	(1991)	(1966)	(1966)

06911900 DRAGOON CREEK NEAR BURLINGAME, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL MEAN	80.5		101		67.5	
HIGHEST ANNUAL MEAN					175	1999
LOWEST ANNUAL MEAN					5.54	1989
HIGHEST DAILY MEAN	3,590	Mar 5	3,190	May 13	13,400	May 29, 1982
LOWEST DAILY MEAN	3.3	Sep 29	1.1	Aug 11	0.00	Aug 14, 1962
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 29	1.2	Aug 6	0.00	Aug 14, 1962
MAXIMUM PEAK FLOW			4,870	May 13	34,400	May 29, 1982
MAXIMUM PEAK STAGE			17.43	May 13	22.80	May 17, 1995
INSTANTANEOUS LOW FLOW			0.87	Aug 11	0.00	many years
ANNUAL RUNOFF (AC-FT)	58,460		72,850		48,870	
10 PERCENT EXCEEDS	112		197		92	
50 PERCENT EXCEEDS	22		29		8.1	
90 PERCENT EXCEEDS	4.5		4.4		0.00	

e Estimated



06912490 POMONA LAKE NEAR QUENEMO, KS

LOCATION.--Lat 38°38'51", long 95°33'50", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.19, T.16 S., R.17 E., Osage County, Hydrologic Unit 10290101, in control tower at dam on Hundred and Ten Mile Creek, 5.0 mi northwest of Quenemo, and at mile 7.9.

DRAINAGE AREA.--322 mi^2.

PERIOD OF RECORD.--April 1964 to current year. Prior to October 1971, published as "Pomona Reservoir."

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

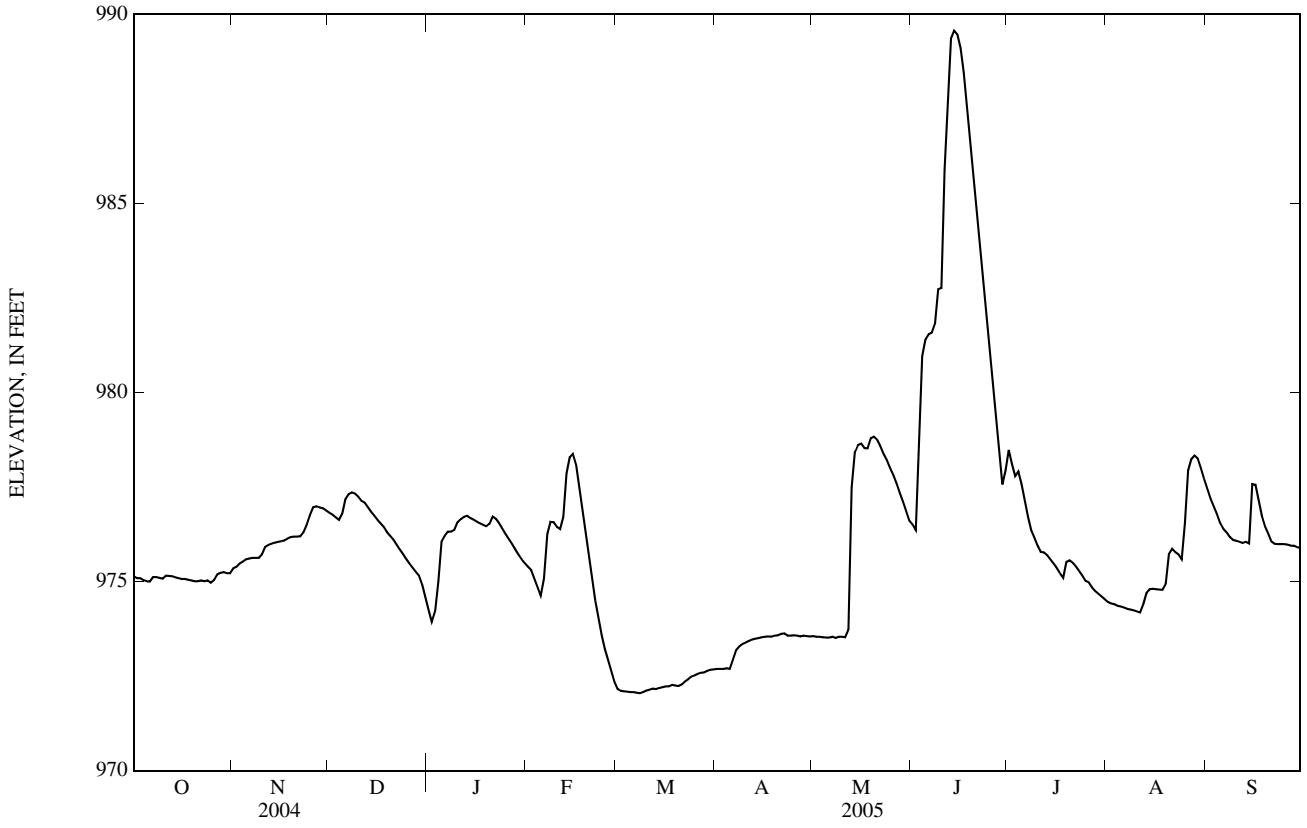
REMARKS.--Records good. Reservoir is formed by compacted earthfill dam. Storage began Oct. 18, 1963. Conservation pool elevation was first reached on June 4, 1965. Total capacity, 498,500 acre-ft, consisting of the following: Sedimentation, 25,610 acre-ft below elevation 960.5 ft; conservation pool, 41,030 acre-ft between elevations 960.5 ft and 974.0 ft; flood-control pool, 176,500 acre-ft between elevations 974.0 ft and 1,003.0 ft; and surcharge pool, 255,400 acre-ft between elevations 1,003.0 ft and 1,025.4 ft. Reservoir is used for flood control, conservation, and recreation. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 998.40 ft, June 12, 1995, contents, 203,200 acre-ft; minimum elevation since conservation pool was first filled, 969.60 ft, Mar. 29, 30, 1967, contents, 54,260 acre-ft, from capacity table then in use.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 989.61 ft, June 15, contents, 142,800 acre-ft; minimum elevation, 972.03 ft, Mar. 8, contents, 56,880 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Computed by U.S. Army Corps of Engineers on basis of resurvey made in 1989)
Note.--Effective date of new capacity table, Apr. 1, 1990.

Elevation	Contents	Elevation	Contents	Elevation	Contents
970	49,820	980	90,000	990	145,200
975	68,150	985	115,800		



06912490 POMONA LAKE NEAR QUENEMO, KS—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	975.14	975.35	976.82	974.25	975.40	972.16	972.69	973.56	976.51	978.48	974.46	977.46
2	975.09	975.39	976.77	973.93	975.31	972.11	972.69	973.54	976.36	978.11	974.42	977.20
3	975.09	975.48	976.70	974.22	975.09	972.10	972.69	973.54	978.50	977.79	974.40	977.00
4	975.04	975.53	976.63	975.00	974.86	972.09	972.71	973.53	980.96	977.91	974.36	976.79
5	975.01	975.59	976.79	976.06	974.63	972.08	972.69	973.52	981.40	977.58	974.34	976.55
6	975.00	975.61	977.18	976.21	975.08	972.08	972.94	973.52	981.54	977.17	974.31	976.40
7	975.12	975.63	977.31	976.32	976.26	972.06	973.19	973.54	981.58	976.72	974.28	976.30
8	975.12	975.63	977.36	976.32	976.58	972.05	973.29	973.51	981.82	976.37	974.26	976.18
9	975.10	975.63	977.33	976.37	976.57	972.08	973.35	973.54	982.73	976.17	974.24	976.10
10	975.08	975.72	977.25	976.57	976.45	972.12	973.39	973.54	982.76	975.96	974.21	976.08
11	975.16	975.92	977.14	976.65	976.39	972.14	973.43	973.53	985.90	975.79	974.18	976.05
12	975.15	975.97	977.09	976.71	976.71	972.17	973.47	973.73	987.66	975.77	974.40	976.02
13	975.14	976.00	976.97	976.74	977.86	972.16	973.49	977.49	989.36	975.70	974.70	976.05
14	975.11	976.03	976.85	976.68	978.29	972.19	973.51	978.42	989.57	975.59	974.80	976.01
15	975.09	976.05	976.75	976.64	978.38	972.21	973.53	978.61	989.47	975.48	974.81	977.58
16	975.07	976.07	976.64	976.59	978.09	972.23	973.54	978.65	989.11	975.36	974.80	977.56
17	975.07	976.09	976.54	976.54	977.50	972.23	973.55	978.53	988.45	975.22	974.79	977.15
18	975.05	976.14	976.45	976.50	976.85	972.27	973.54	978.52	987.63	975.10	974.78	976.74
19	975.03	976.18	976.31	976.46	976.25	972.25	973.57	978.79	986.79	975.52	974.94	976.46
20	975.01	976.19	976.21	976.53	975.66	972.24	973.58	978.83	985.93	975.56	975.73	976.27
21	975.01	976.19	976.11	976.72	975.04	972.28	973.62	978.75	985.06	975.50	975.87	976.06
22	975.03	976.20	975.98	976.66	974.49	972.36	973.63	978.58	984.15	975.40	975.78	976.00
23	975.01	976.31	975.85	976.54	974.04	972.42	973.57	978.38	983.23	975.28	975.72	975.99
24	975.03	976.51	975.73	976.40	973.58	972.49	973.57	978.21	982.29	975.16	975.59	975.99
25	974.97	976.76	975.60	976.26	973.21	972.52	973.58	978.00	981.33	975.02	976.55	975.99
26	975.04	976.97	975.48	976.13	972.91	972.56	973.57	977.82	980.34	974.98	977.94	975.98
27	975.19	976.99	975.37	976.00	972.63	972.59	973.55	977.60	979.33	974.85	978.24	975.95
28	975.23	976.96	975.26	975.86	972.35	972.60	973.57	977.35	978.39	974.75	978.33	975.95
29	975.25	976.94	975.16	975.72	---	972.64	973.56	977.12	977.57	974.68	978.26	975.91
30	975.22	976.88	974.92	975.59	---	972.67	973.55	976.86	977.94	974.61	978.00	975.89
31	975.22	---	974.59	975.49	---	972.68	---	976.61	---	974.53	977.72	---
MEAN	975.09	976.10	976.36	976.09	975.59	972.28	973.35	976.31	983.12	975.87	975.46	976.39
MAX	975.25	976.99	977.36	976.74	978.38	972.68	973.63	978.83	989.57	978.48	978.33	977.58
MIN	974.97	975.35	974.59	973.93	972.35	972.05	972.69	973.51	976.36	974.53	974.18	975.89
(+)	69,050	75,960	66,530	70,150	58,050	59,250	62,500	74,810	80,570	66,300	79,610	71,790
(#)	+410	+6,910	-9,430	+3,620	-12,100	+1,200	+3,250	+12,310	+5,760	-14,270	+13,310	-7,820

CAL YR 2004 ..... (#) +6,590
WTR YR 2005 ..... (#) +3,150

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

06912500 HUNDRED AND TEN MILE CREEK NEAR QUENEMO, KS

LOCATION.--Lat 38°38'42", long 95°33'34", in NE ¼ NW ¼ SW ¼ sec.20, T.16 S., R.17 E., Osage County, Hydrologic Unit 10290101, on left bank 800 ft downstream from outlet works of Pomona Dam, 4.5 mi northwest of Quenemo, and at mile 7.7.

DRAINAGE AREA.--322 mi^2.

PERIOD OF RECORD.--September 1939 to current year. Prior to October 1941, published as "Dragoon Creek."

REVISED RECORDS.--WSP 1116: 1942.

GAGE.--Water-stage recorder. Datum of gage is 919.05 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). See WSP 1919 for history of changes prior to Apr. 11, 1963.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow completely regulated since 1964 by Pomona Lake (station 06912490), 0.2 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1919, that of July 11, 1951, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e18	253	749	389	367	17	17	526	466	110	642
2	17	e18	253	738	389	190	17	17	339	1,010	55	562
3	16	e18	253	642	484	109	16	16	e60	1,020	22	439
4	16	e18	252	469	596	109	17	16	e20	1,060	23	440
5	16	e18	257	212	593	108	17	16	e20	1,040	23	440
6	16	e18	116	31	604	108	17	16	20	1,030	22	318
7	17	e18	18	85	340	108	17	16	e20	1,030	22	207
8	17	e18	120	186	177	66	17	16	e20	767	22	207
9	17	e18	305	187	326	17	17	16	e20	431	22	143
10	17	e18	302	187	556	17	16	16	e20	435	22	22
11	17	e18	302	187	556	18	16	16	e20	346	22	22
12	17	e18	300	187	564	18	16	16	e20	219	23	22
13	17	18	299	187	363	18	16	e17	e20	219	25	22
14	17	18	302	186	28	18	16	e18	e20	220	24	22
15	17	18	300	186	255	18	16	20	602	219	23	27
16	17	18	302	185	900	18	17	130	1,280	220	23	496
17	17	19	298	185	1,550	18	17	403	2,130	220	23	1,040
18	17	19	298	185	1,540	18	17	467	2,620	219	23	1,040
19	17	19	298	185	1,540	18	18	160	2,610	221	23	678
20	17	19	298	184	1,510	17	18	16	2,590	220	26	444
21	17	19	298	321	1,490	17	18	300	2,570	221	24	442
22	e17	20	298	394	1,290	17	19	455	2,550	220	292	189
23	e17	21	295	397	1,010	17	19	453	2,540	221	468	26
24	e17	e21	295	393	1,000	17	19	449	2,510	220	469	27
25	e17	e21	297	393	774	17	18	453	2,490	221	231	27
26	e17	145	296	394	631	17	17	462	2,460	220	29	28
27	e17	256	296	391	629	17	18	487	2,440	217	23	28
28	e17	254	296	394	566	17	18	525	2,260	168	21	27
29	e17	251	295	389	---	17	18	522	1,850	109	256	27
30	e18	253	593	391	---	17	17	521	1,120	109	643	27
31	e18	---	746	393	---	17	---	520	---	109	646	---
MEAN	16.9	54.2	295	309	738	50.5	17.2	212	1,192	408	119	269
MAX	18	256	746	749	1,550	367	19	525	2,620	1,060	646	1,040
MIN	16	18	18	31	28	17	16	16	20	109	21	22
AC-FT	1,040	3,220	18,110	19,030	40,960	3,100	1,020	13,040	70,940	25,090	7,300	16,030

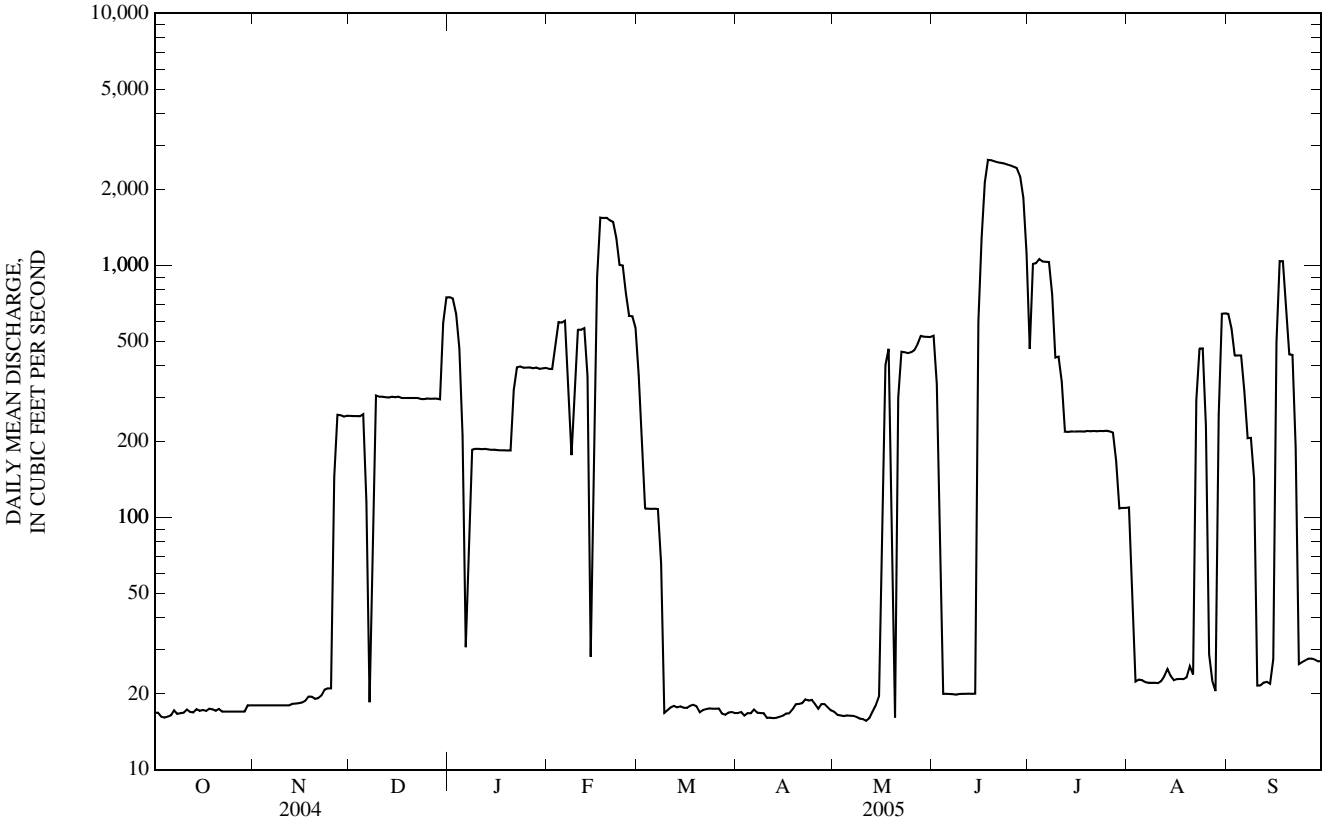
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	128	134	122	87.5	116	201	269	267	383	293	92.4	86.4
MAX	1,196	1,520	1,113	506	847	984	2,476	1,645	2,141	3,096	1,296	1,331
(WY)	(1942)	(1999)	(1999)	(1962)	(1973)	(1987)	(1944)	(1999)	(1982)	(1951)	(1993)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.03	5.04	1.22	0.02	0.00	0.00
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1940)	(1954)	(1954)	(1953)	(1954)	(1940)	(1953)

06912500 HUNDRED AND TEN MILE CREEK NEAR QUENEMO, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL MEAN	196		302		182	
HIGHEST ANNUAL MEAN					554	1999
LOWEST ANNUAL MEAN					3.65	1956
HIGHEST DAILY MEAN	2,150	Jul 29	2,620	Jun 18	27,700	Jul 11, 1951
LOWEST DAILY MEAN	14	Feb 6	16	Oct 3	0.00	Oct 1, 1939
ANNUAL SEVEN-DAY MINIMUM	15	Feb 3	16	May 3	0.00	Oct 1, 1939
MAXIMUM PEAK FLOW			2,640	Jun 18	38,600	Jul 11, 1951
MAXIMUM PEAK STAGE			11.95	Jun 18	28.47	Jul 11, 1951
INSTANTANEOUS LOW FLOW			15	Apr 12	0.00	some years
ANNUAL RUNOFF (AC-FT)	142,600		218,900		131,700	
10 PERCENT EXCEEDS	684		741		442	
50 PERCENT EXCEEDS	19		109		20	
90 PERCENT EXCEEDS	16		17		1.6	

e Estimated



06913000 MARAIS DES CYGNES RIVER NEAR POMONA, KS

LOCATION.--Lat 38°35'03", long 95°27'12", in SE ¼ NE ¼ SE ¼ sec.7, T.17 S., R.18 E., Franklin County, Hydrologic Unit 10290101, on right bank at downstream side of county highway bridge, 1.5 mi south of Pomona, 4.7 mi upstream from Miller Dam, 5.7 mi downstream from Hundred and Ten Mile Creek, and at mile 418.1.

DRAINAGE AREA.--1,040 mi^2.

PERIOD OF RECORD.--July 1922 to February 1938, October 1968 to current year. Prior to October 1968, published as "near Quenemo."

REVISED RECORDS.--WSP 1310: 1924(M), 1929, 1931(M), 1934, 1935(M).

GAGE.--Water-stage recorder. Datum of gage is 893.74 ft above NGVD of 1929. July 1922 to February 1938, nonrecording gage 1.7 mi upstream at datum 891.36 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated since 1973 by Melvern Lake (station 06910997) and since 1964 by Pomona Lake (station 06912490). Diversions upstream from station for irrigation. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	73	527	1,440	1,200	1,660	96	63	1,070	3,300	127	1,350
2	63	107	490	1,430	1,340	1,260	92	61	1,330	2,200	117	1,330
3	62	137	456	2,170	1,300	752	88	59	3,100	1,950	51	1,130
4	61	221	430	3,060	1,400	367	87	59	10,900	2,850	46	1,100
5	61	322	508	5,970	1,370	285	87	59	10,500	2,610	47	1,090
6	62	154	1,910	3,090	1,560	275	100	57	3,430	2,110	48	1,020
7	77	108	882	773	3,620	270	154	56	819	1,980	49	360
8	83	84	448	756	2,060	258	176	55	608	1,860	50	239
9	74	71	567	733	1,030	173	134	56	3,720	1,300	50	230
10	72	75	526	1,510	1,430	159	118	55	5,530	1,250	50	78
11	76	417	484	1,250	1,950	153	112	55	7,060	1,220	51	47
12	87	488	460	947	2,550	151	111	56	11,900	663	55	46
13	82	211	437	e900	4,720	146	106	2,680	11,700	518	103	50
14	99	137	416	800	2,890	139	106	7,340	7,810	508	285	122
15	52	110	404	e780	1,000	120	98	2,260	2,000	492	178	1,100
16	32	97	398	765	1,560	93	92	607	3,090	499	91	1,830
17	27	90	395	e750	2,430	92	88	1,040	4,850	494	67	1,840
18	25	91	393	686	2,430	90	85	2,170	6,010	491	57	1,840
19	25	116	e388	634	2,400	88	84	5,530	6,060	1,900	57	1,640
20	25	137	379	643	2,430	86	84	3,040	5,980	2,470	130	1,140
21	27	116	616	1,090	2,440	88	83	1,400	5,900	1,440	308	868
22	29	101	980	1,300	2,320	108	80	2,270	5,960	1,320	196	622
23	31	97	993	1,140	2,230	155	74	2,230	6,000	1,240	577	222
24	50	775	983	1,140	2,290	178	72	2,160	5,950	1,200	622	148
25	50	1,210	978	1,100	2,170	145	71	2,230	5,890	1,180	1,980	64
26	57	1,020	978	1,090	1,870	130	69	2,150	5,830	1,160	3,250	54
27	61	843	980	1,080	1,850	120	67	2,080	5,770	911	2,520	44
28	61	671	984	1,080	1,830	112	67	1,170	5,660	511	538	44
29	74	542	990	1,080	---	107	66	846	4,810	197	268	43
30	71	522	1,110	1,080	---	103	65	833	3,860	137	1,250	42
31	65	---	1,440	1,110	---	100	---	810	---	131	1,380	---
MEAN	57.5	305	707	1,335	2,060	257	93.7	1,404	5,437	1,293	471	658
MAX	99	1,210	1,910	5,970	4,720	1,660	176	7,340	11,900	3,300	3,250	1,840
MIN	25	71	379	634	1,000	86	65	55	608	131	46	42
AC-FT	3,540	18,140	43,500	82,070	114,400	15,790	5,580	86,360	323,500	79,520	28,960	39,140

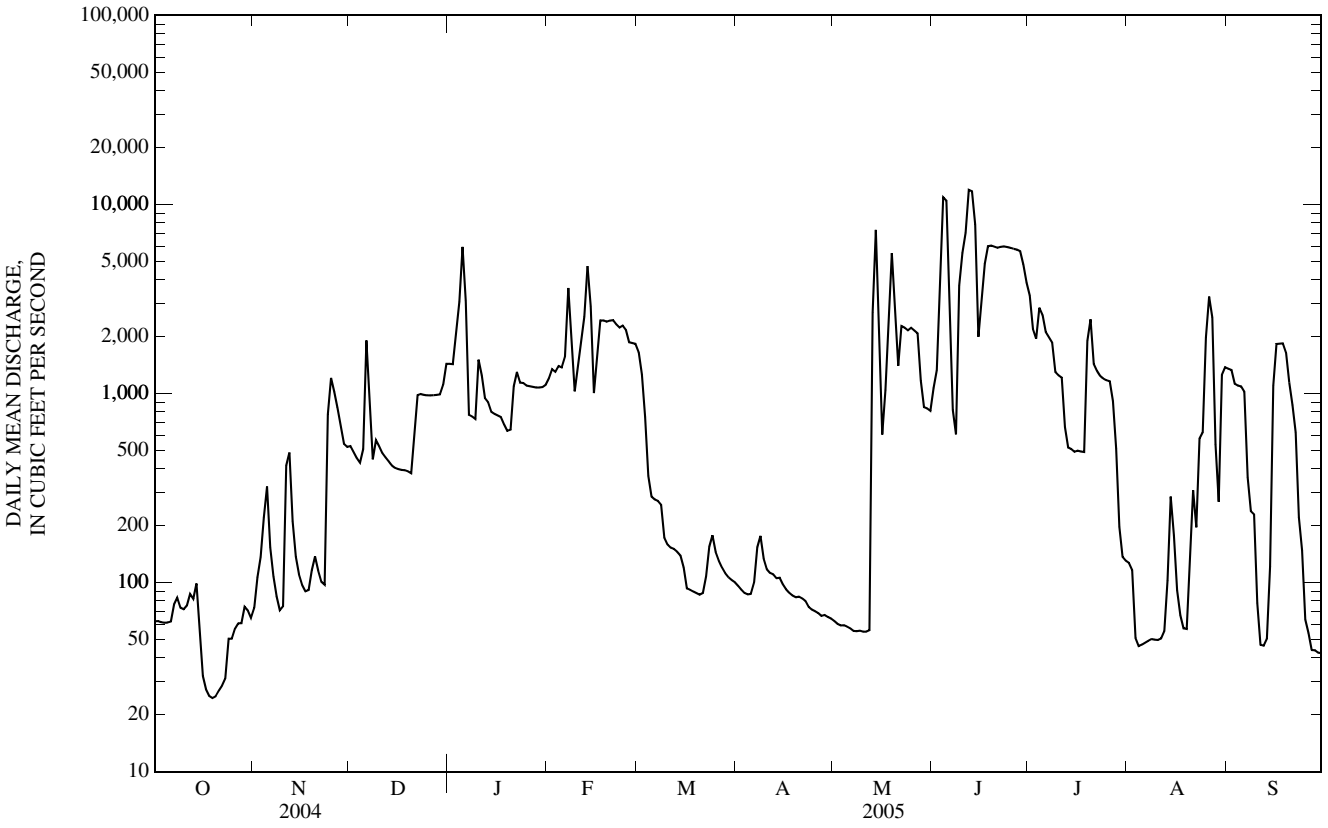
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2005, BY WATER YEAR (WY)

MEAN	375	581	439	290	441	630	897	1,000	1,416	655	244	229
MAX	4,204	6,256	3,275	1,342	2,224	3,772	3,722	4,717	5,587	3,206	2,807	1,436
(WY)	(1986)	(1999)	(1999)	(1973)	(1973)	(1973)	(1984)	(1999)	(1982)	(1969)	(1993)	(1973)
MIN	0.29	1.00	0.87	1.00	1.32	1.87	8.00	59.3	8.93	0.42	0.00	0.87
(WY)	(1938)	(1938)	(1938)	(1938)	(1938)	(1934)	(1936)	(2000)	(1936)	(1936)	(1934)	(1931)

06913000 MARAIS DES CYGNES RIVER NEAR POMONA, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1923 - 2005	
ANNUAL MEAN	667		1,161		603	
HIGHEST ANNUAL MEAN					2,092	1999
LOWEST ANNUAL MEAN					55.6	1934
HIGHEST DAILY MEAN	10,700	Mar 5	11,900	Jun 12	40,600	Nov 2, 1998
LOWEST DAILY MEAN	25	Oct 18	25	Oct 18	0.00	Jul 27, 1926
ANNUAL SEVEN-DAY MINIMUM	27	Oct 17	27	Oct 17	0.00	Jul 16, 1934
MAXIMUM PEAK FLOW			12,500	Jun 12	69,400	Nov 17, 1928
MAXIMUM PEAK STAGE			27.04	Jun 12	38.38	Nov 17, 1928
INSTANTANEOUS LOW FLOW			25	Oct 17	0.00	many years
ANNUAL RUNOFF (AC-FT)	484,500		840,500		436,500	
10 PERCENT EXCEEDS	1,850		2,870		1,710	
50 PERCENT EXCEEDS	226		494		80	
90 PERCENT EXCEEDS	57		57		8.0	

e Estimated



06913500 MARAIS DES CYGNES RIVER NEAR OTTAWA, KS

LOCATION.--Lat 38°37'05", long 95°16'05", in NW ¼ SW ¼ NW ¼ sec.36, T.16 S., R.19 E., Franklin County, Hydrologic Unit 10290101, on right bank at downstream side of Main Street Bridge, on U.S. Highway 59, 1.0 mi downstream of Eightmile Creek, and at mile 398.0.

DRAINAGE AREA.--1,250 mi^2, approximately.

PERIOD OF RECORD.--August 1902 to October 1905, October 1918 to current year. Published as Osage River at Ottawa 1902-05, and as Osage River near Ottawa 1918-47.

REVISED RECORDS.--WSP 1006: 1923, 1927, 1929. WSP 1440: 1904-05, 1922, 1929(M), 1935, 1941-43, 1944-45(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 857.68 ft above NGVD of 1929. Aug. 26, 1902, to Oct. 31, 1905, nonrecording gages at Main Street Bridge in Ottawa at different datums. Oct. 27, 1918, to Sept. 4, 1962, water-stage recorder at Seventh Street Bridge, 0.9 mi downstream at datum 0.47 ft higher. Sept. 5, 1962, to Aug. 8, 1971, water-stage recorder at sewage disposal plant at datum 857.68 ft. Aug. 9, 1971, to July 23, 1987, water-stage recorder outside sewage disposal plant at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1973 by Melvern Lake (station 06910997) and since 1964 by Pomona Lake (station 06912490). Many small diversions upstream from station. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of 1951 is the highest known since Ottawa was settled (about 1864) according to information reported in "Climate of Kansas - 1948." Flood of June 13 or 14, 1844, reached a stage of about 1.5 ft lower than that in 1951 according to same information.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 5	1630	7,600	22.73	Jun 4	2200	*18,400	*33.25
Feb 13	2100	7,010	21.62	Jun 13	1230	17,100	32.76
May 14	1600	7,620	22.77	Jul 1	0556	e7,980	e23.45
May 19	1900	8,410	24.24				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	165	633	1,420	1,250	1,770	135	81	1,830	e6,050	151	1,290
2	43	149	590	1,410	1,430	1,460	126	81	2,050	2,460	148	1,270
3	42	181	544	2,450	1,370	947	120	79	3,570	1,880	91	1,120
4	44	369	506	3,800	1,400	559	118	74	15,100	3,700	64	1,050
5	44	473	679	6,840	1,400	354	117	73	17,300	2,920	59	1,040
6	41	238	2,570	4,940	1,670	337	151	72	10,400	2,100	56	1,020
7	69	148	1,480	1,180	4,090	332	214	71	1,750	1,870	58	560
8	82	111	687	867	3,060	330	249	72	815	1,780	60	279
9	64	93	627	883	1,350	263	189	74	3,010	1,340	61	264
10	54	114	634	1,720	1,420	217	162	75	5,490	1,180	58	165
11	59	477	568	1,660	1,970	209	154	74	8,290	1,170	55	71
12	79	717	528	1,220	2,790	203	151	74	14,800	844	56	67
13	79	321	501	1,400	5,970	199	142	2,790	16,700	546	283	70
14	82	186	470	1,050	4,830	190	134	7,390	e13,800	532	483	107
15	83	144	449	708	1,480	179	126	4,070	5,200	519	328	1,530
16	45	124	438	706	1,510	147	116	950	2,560	512	159	2,240
17	31	116	433	722	2,320	139	110	927	3,900	506	108	1,590
18	27	119	430	712	2,470	135	106	2,010	5,250	502	86	1,900
19	27	136	422	638	2,430	129	103	6,960	5,490	1,440	85	1,840
20	25	168	411	701	2,480	125	104	5,090	5,420	3,020	484	1,190
21	25	147	539	1,040	2,500	137	107	1,460	5,340	1,410	488	959
22	24	122	902	1,370	2,430	168	99	2,250	5,340	1,270	234	713
23	23	116	993	1,190	2,260	213	91	2,310	5,390	1,170	548	337
24	28	875	983	1,160	2,320	254	85	2,230	5,360	1,120	788	244
25	43	1,730	972	1,130	2,270	215	82	2,240	5,300	1,100	4,340	130
26	53	1,450	974	1,120	1,980	190	84	2,220	5,240	1,080	6,150	93
27	55	1,210	977	1,110	1,930	175	84	2,140	5,190	955	4,150	83
28	47	929	985	1,090	1,920	163	87	1,560	5,130	628	1,000	81
29	45	705	992	1,090	---	155	85	892	4,620	307	425	74
30	54	632	1,020	1,100	---	148	84	868	4,050	175	923	74
31	51	---	1,380	1,140	---	144	---	855	---	157	1,320	---
MEAN	48.8	416	784	1,534	2,296	329	124	1,617	6,456	1,427	752	715
MAX	83	1,730	2,570	6,840	5,970	1,770	249	7,390	17,300	6,050	6,150	2,240
MIN	23	93	411	638	1,250	125	82	71	815	157	55	67
AC-FT	3,000	24,720	48,230	94,350	127,500	20,200	7,370	99,400	384,200	87,760	46,210	42,550

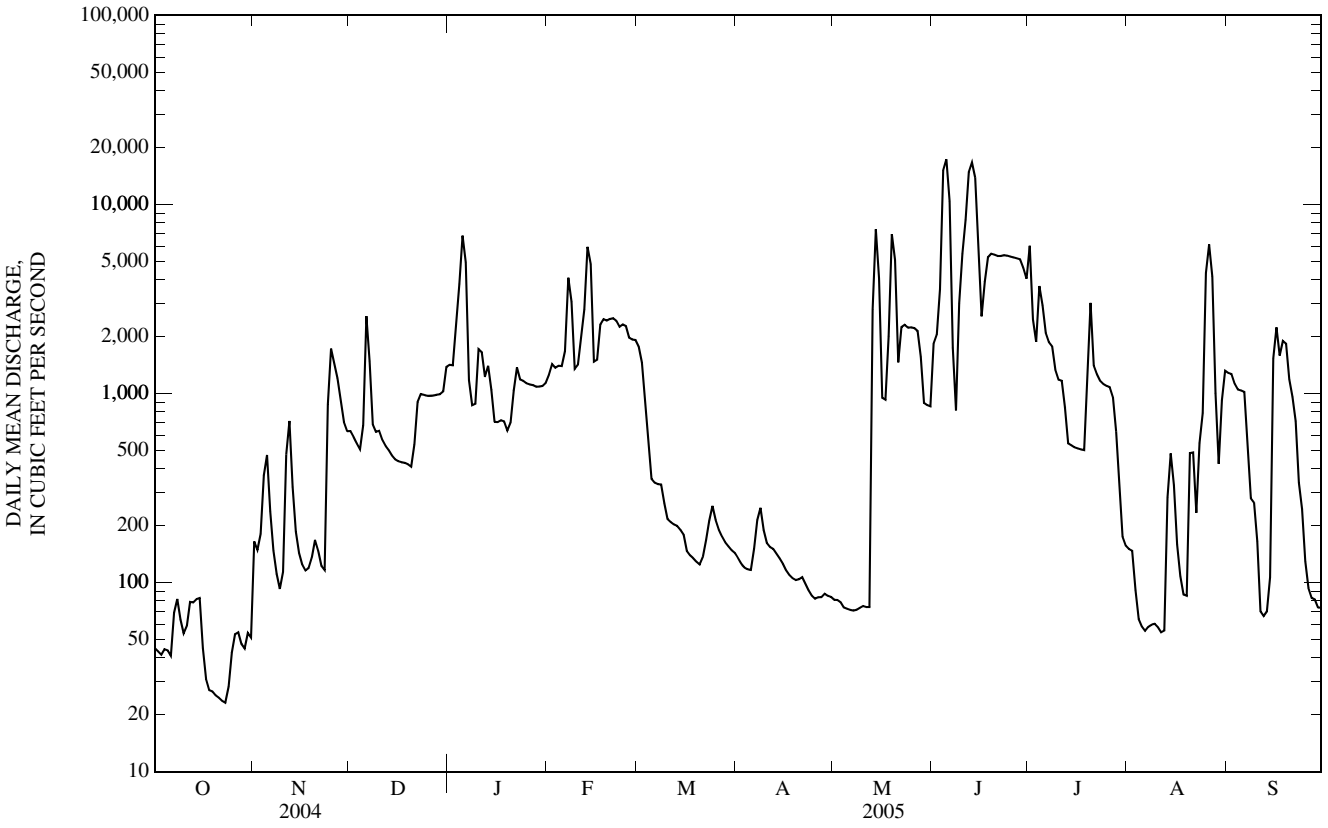
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2005, BY WATER YEAR (WY)

MEAN	506	562	402	313	438	765	1,093	1,122	1,514	863	340	414
MAX	6,546	6,913	3,820	2,011	2,578	4,422	8,859	5,170	6,456	13,580	3,683	4,581
(WY)	(1942)	(1999)	(1945)	(1941)	(1949)	(1973)	(1944)	(1904)	(2005)	(1951)	(1950)	(1951)
MIN	0.03	0.33	0.06	0.23	1.14	1.88	9.52	51.6	7.87	0.19	0.52	0.00
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1956)	(1956)	(1965)	(1936)	(1940)	(1936)	(1939)

06913500 MARAIS DES CYGNES RIVER NEAR OTTAWA, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1903 - 2005	
ANNUAL MEAN	759		1,361		698	
HIGHEST ANNUAL MEAN					2,332	1999
LOWEST ANNUAL MEAN					26.0	1956
HIGHEST DAILY MEAN	11,600	Mar 5	17,300	Jun 5	134,000	Jul 12, 1951
LOWEST DAILY MEAN	23	Oct 23	23	Oct 23	0.00	Jun 27, 1920
ANNUAL SEVEN-DAY MINIMUM	26	Oct 18	26	Oct 18	0.00	Jul 1, 1933
MAXIMUM PEAK FLOW			18,400	Jun 4	142,000	Jul 11, 1951
MAXIMUM PEAK STAGE			33.25	Jun 4	42.50	Jul 11, 1951
INSTANTANEOUS LOW FLOW			20	Oct 23	0.00	at times
ANNUAL RUNOFF (AC-FT)	551,200		985,500		505,400	
10 PERCENT EXCEEDS	2,100		3,840		1,670	
50 PERCENT EXCEEDS	266		559		96	
90 PERCENT EXCEEDS	51		70		4.2	

e Estimated



06914100 POTTAWATOMIE CREEK NEAR SCIPIO, KS

LOCATION.--Lat 38°20'56", long 95°12'12", in NW ¼ SW ¼ SE ¼ sec.33, T.19 S., R.20 E., Anderson County, Hydrologic Unit 10290101, on right downstream side of bridge on NW Norton Road and at mile 33.9.

DRAINAGE AREA.--343 mi^2.

PERIOD OF RECORD.--October 2001 to current year. Prior to October 2001, published as "near Garnett."

GAGE.--Water-stage recorder. Datum of gage is 865.00 ft above NGVD of 1929, from topographic map.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1858, that of Sept. 13, 1961, from information by local newspaper.

REVISED RECORDS.--WDR KS-03-1: 2003(m), 2003.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	1300	*7,230	*26.34	Aug 26	0500	6,500	25.00
Jun 12	1545	7,120	26.15				

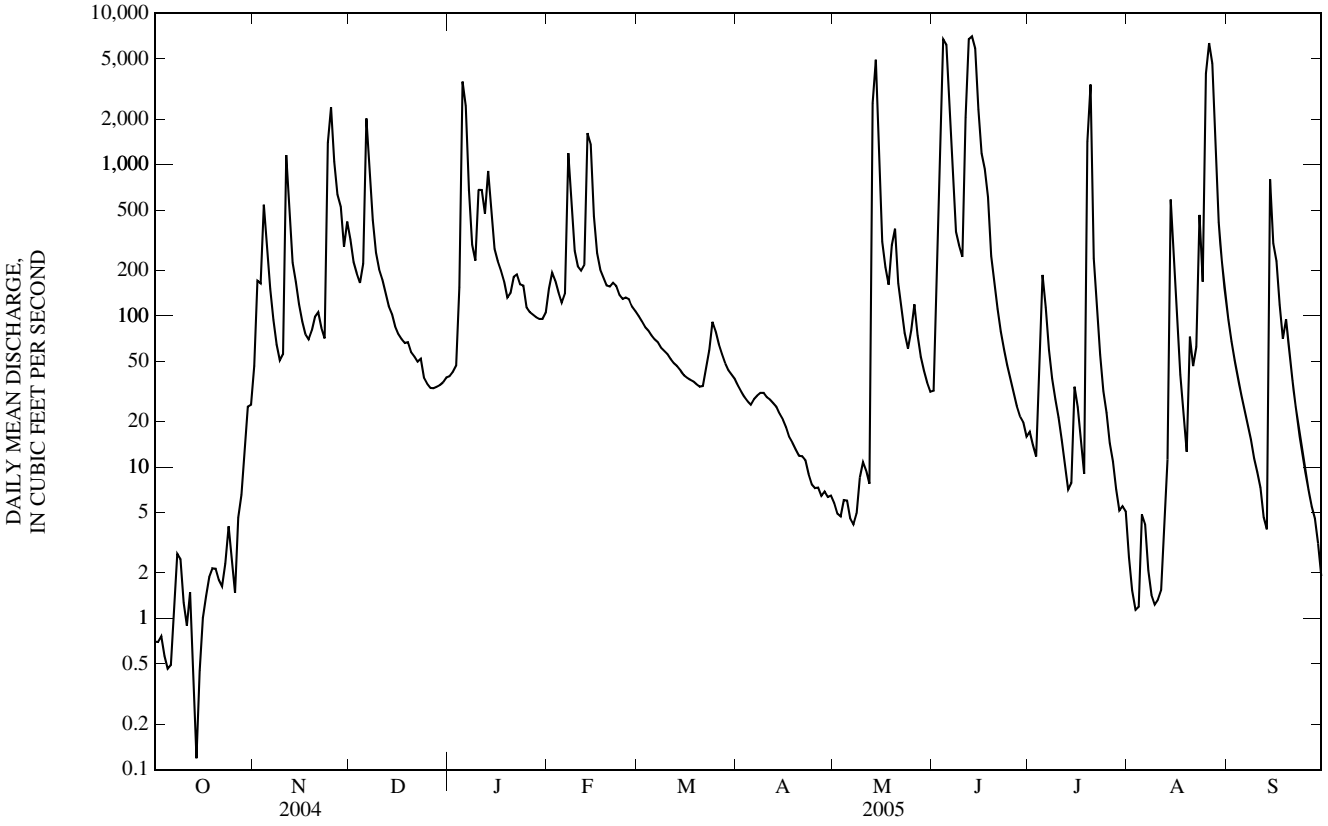
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.70	47	321	40	152	100	35	5.8	32	17	2.5	95
2	0.70	171	227	42	194	92	32	4.9	294	14	1.5	68
3	0.76	164	190	47	171	85	29	4.7	1,100	12	1.1	51
4	0.56	543	165	155	143	80	27	6.1	6,740	50	1.2	39
5	0.46	289	221	e3,540	122	74	26	6.0	6,210	187	4.9	30
6	0.49	151	2,020	e2,440	140	70	28	4.6	2,690	114	4.2	24
7	1.0	94	862	e678	1,190	67	30	4.2	862	60	2.1	19
8	2.7	65	430	296	613	62	31	5.0	360	38	1.4	15
9	2.5	51	262	232	270	59	31	8.5	291	28	1.2	11
10	1.3	56	202	682	212	56	e29	11	246	21	1.3	9.3
11	0.90	1,160	174	679	199	52	28	9.5	2,060	15	1.5	7.3
12	1.5	523	142	474	217	49	27	7.8	6,740	10	3.8	4.7
13	0.33	225	116	908	1,610	47	25	2,550	7,050	7.1	11	3.9
14	0.12	168	e103	530	1,370	44	23	4,940	5,870	7.9	588	799
15	0.45	119	85	277	456	41	21	1,060	2,320	34	256	302
16	1.0	92	76	230	260	39	18	309	1,190	25	96	230
17	1.4	76	70	200	202	38	16	209	936	15	41	118
18	1.9	70	66	169	179	37	14	161	610	9.0	23	71
19	2.1	80	e67	132	159	35	13	294	248	1,410	13	95
20	2.1	99	57	142	156	34	12	377	167	3,390	73	62
21	1.8	106	54	181	166	34	12	164	111	240	47	37
22	1.6	83	50	188	158	45	11	113	79	112	62	25
23	2.3	71	52	162	137	59	9.0	77	60	55	465	18
24	4.1	1,390	39	158	129	91	7.7	61	47	32	168	13
25	2.5	2,390	36	114	132	79	7.3	80	38	23	4,000	9.5
26	1.5	1,050	33	106	129	65	7.3	119	31	14	6,360	7.1
27	4.6	635	33	102	115	56	6.5	74	25	11	4,650	5.5
28	6.5	526	34	98	107	49	6.9	54	22	7.1	1,300	e4.6
29	13	286	35	95	---	44	6.4	43	20	5.2	416	e3.1
30	25	420	36	96	---	41	6.5	36	16	5.5	227	e1.9
31	26	---	39	105	---	38	---	32	---	5.1	149	---
MEAN	3.61	373	203	429	325	56.8	19.2	349	1,549	193	612	72.6
MAX	26	2,390	2,020	3,540	1,610	100	35	4,940	7,050	3,390	6,360	799
MIN	0.12	47	33	40	107	34	6.4	4.2	16	5.1	1.1	1.9
AC-FT	222	22,220	12,490	26,380	18,030	3,490	1,140	21,480	92,160	11,850	37,630	4,320
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)												
MEAN	2.65	94.0	58.3	120	106	215	107	419	572	128	174	94.3
MAX	4.54	373	203	429	325	776	213	1,047	1,549	283	612	301
(WY)	(2002)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2002)	(2005)	(2004)	(2005)	(2003)
MIN	0.26	0.31	0.25	0.32	3.65	12.2	19.2	57.2	53.8	11.4	1.96	0.48
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2005)	(2004)	(2003)	(2003)	(2002)	(2002)

06914100 POTTAWATOMIE CREEK NEAR SCIPIO, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL MEAN	203		347		174	
HIGHEST ANNUAL MEAN					347	2005
LOWEST ANNUAL MEAN					61.5	2003
HIGHEST DAILY MEAN	6,840	Mar 5	7,050	Jun 13	7,050	Jun 13, 2005
LOWEST DAILY MEAN	0.12	Oct 14	0.12	Oct 14	0.00	Aug 21, 2003
ANNUAL SEVEN-DAY MINIMUM	0.46	Sep 23	0.67	Oct 1	0.00	Aug 21, 2003
MAXIMUM PEAK FLOW			7,230	Jun 4	7,380	Mar 5, 2004
MAXIMUM PEAK STAGE			26.34	Jun 4	26.60	Mar 5, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 21	0.00	Jul 28, 2003
ANNUAL RUNOFF (AC-FT)	147,100		251,400		126,300	
10 PERCENT EXCEEDS	405		678		237	
50 PERCENT EXCEEDS	47		57		12	
90 PERCENT EXCEEDS	1.6		3.5		0.31	

e Estimated



06914950 BIG BULL CREEK NEAR EDGERTON, KS

LOCATION.--Lat 38°45'12", long 94°58'37", in SW ¼ NE ¼ SW ¼ sec.9, T.15 S., R.22 E., Johnson County, Hydrologic Unit 10290102, located on right bank at upstream side of southbound Interstate Highway 35 bridge, 1.5 mi east of Edgerton.

DRAINAGE AREA.--28.7 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 925.04 ft above NGVD of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

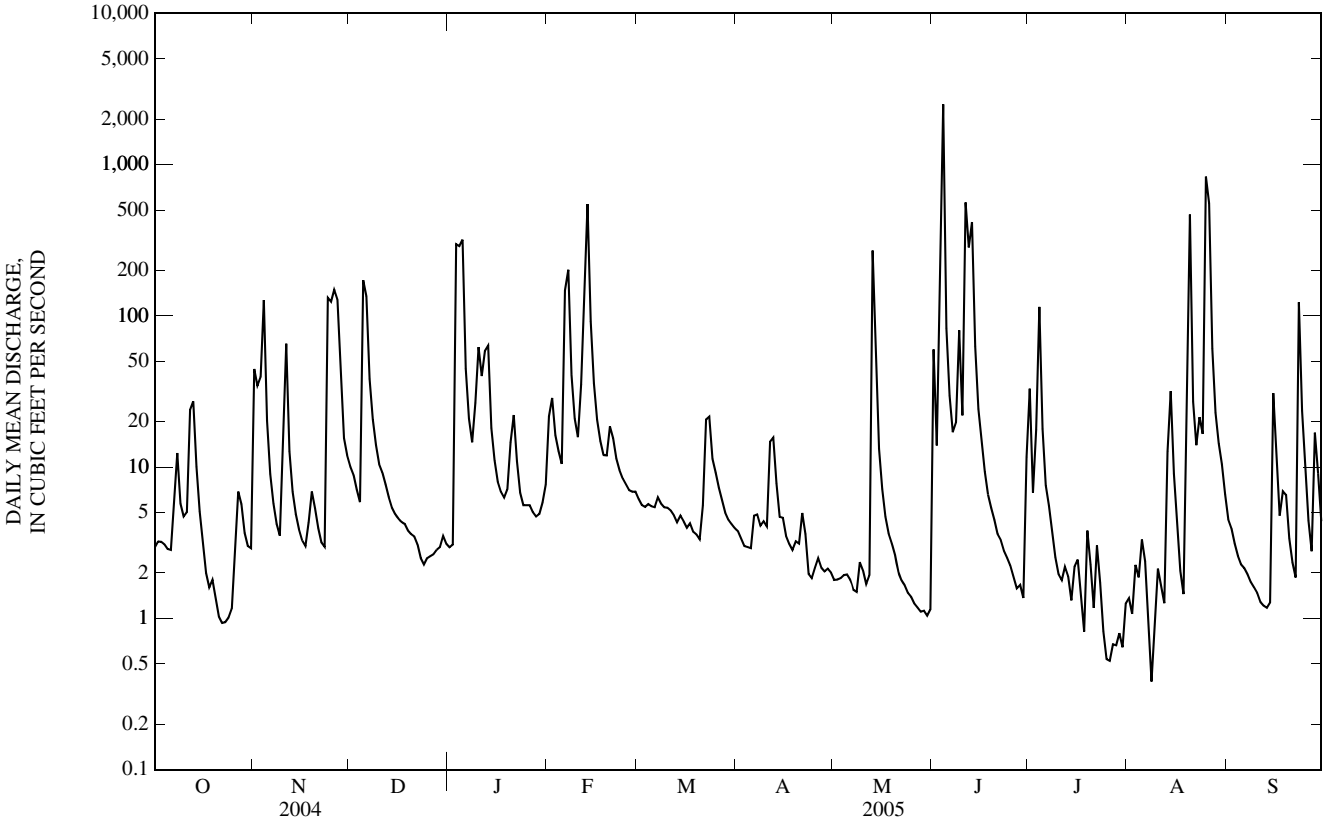
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	45	10	3.0	22	6.2	3.8	1.8	60	33	1.4	4.5
2	3.2	34	8.9	3.1	29	5.6	3.4	1.8	14	6.8	1.1	3.9
3	3.2	39	7.1	297	16	5.5	3.0	1.8	210	18	2.3	3.1
4	3.1	127	5.9	289	13	5.7	3.0	1.9	2,500	114	1.9	2.6
5	2.9	20	172	319	11	5.5	2.9	2.0	83	18	3.3	2.3
6	2.8	9.0	134	45	147	5.4	4.8	1.8	30	7.6	2.4	2.2
7	6.0	5.8	38	21	201	6.3	4.9	1.5	17	5.5	0.95	2.0
8	12	4.2	21	15	41	5.7	4.1	1.5	20	3.8	0.38	1.7
9	5.7	3.5	14	27	21	5.4	4.4	2.4	80	2.5	0.98	1.6
10	4.7	11	10	62	16	5.4	4.0	2.1	22	2.0	2.1	1.5
11	5.0	66	9.2	40	35	5.2	15	1.7	562	1.8	1.7	1.3
12	24	13	7.7	59	141	4.8	16	1.9	284	2.2	1.3	1.2
13	27	6.9	6.3	64	549	4.3	7.8	270	417	1.9	13	1.2
14	10	4.9	5.4	18	92	4.8	4.7	48	63	1.3	32	1.3
15	5.1	3.9	4.9	11	36	4.4	4.6	13	24	2.2	9.0	31
16	3.2	3.3	4.6	8.0	21	4.0	3.5	7.2	15	2.4	4.0	12
17	2.0	3.0	4.3	6.9	15	4.3	3.1	4.7	9.4	1.4	2.1	4.8
18	1.6	4.3	4.2	6.3	12	3.7	2.8	3.6	6.6	0.82	1.4	6.9
19	1.8	6.9	3.8	7.1	12	3.6	3.2	3.1	5.4	3.8	14	6.5
20	1.4	5.3	3.6	15	19	3.3	3.1	2.6	4.5	2.3	467	3.4
21	1.0	4.0	3.5	22	16	5.6	5.0	2.1	3.6	1.2	27	2.3
22	0.93	3.2	3.1	11	11	21	3.6	1.8	3.3	3.0	14	1.9
23	0.95	3.0	2.5	6.8	9.6	22	2.0	1.7	2.8	1.7	21	123
24	1.0	132	2.3	5.6	8.4	11	1.8	1.5	2.5	0.82	17	24
25	1.2	124	2.5	5.6	7.7	9.2	2.2	1.4	2.2	0.54	832	9.2
26	3.0	149	2.6	5.6	7.1	7.3	2.5	1.3	1.9	0.52	555	4.4
27	6.9	129	2.7	5.0	6.9	6.0	2.2	1.2	1.6	0.67	61	2.8
28	5.7	37	2.8	4.7	6.9	5.0	2.0	1.1	1.7	0.66	23	17
29	3.7	16	3.0	4.9	---	4.5	2.1	1.1	1.4	0.80	14	9.1
30	3.0	12	3.5	5.8	---	4.2	2.0	1.0	12	0.64	10	4.4
31	2.9	---	3.1	7.7	---	3.9	---	1.1	---	1.3	6.6	---
MEAN	5.09	34.2	16.3	45.2	54.4	6.41	4.25	12.6	149	7.84	69.1	9.77
MAX	27	149	172	319	549	22	16	270	2,500	114	832	123
MIN	0.93	3.0	2.3	3.0	6.9	3.3	1.8	1.0	1.4	0.52	0.38	1.2
AC-FT	313	2,030	1,000	2,780	3,020	394	253	773	8,850	482	4,250	581

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	14.7	24.8	10.8	7.92	20.3	18.7	31.4	48.9	44.7	14.2	12.8	12.9
MAX	107	139	38.7	45.2	69.0	63.9	119	246	149	93.4	69.1	91.8
(WY)	(1999)	(1999)	(1998)	(2005)	(1997)	(2004)	(1994)	(1995)	(2005)	(2004)	(2005)	(1998)
MIN	0.30	0.66	0.46	0.60	0.74	0.73	1.32	2.80	5.29	0.31	0.73	0.59
(WY)	(2003)	(2003)	(2003)	(2003)	(1996)	(1996)	(1996)	(2003)	(2003)	(2003)	(2000)	(1995)

06914950 BIG BULL CREEK NEAR EDGERTON, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL MEAN	25.8		34.2		21.8	
HIGHEST ANNUAL MEAN					45.8	1999
LOWEST ANNUAL MEAN					4.29	2003
HIGHEST DAILY MEAN	1,960	Jul 24	2,500	Jun 4	2,520	May 17, 1995
LOWEST DAILY MEAN	0.70	Aug 22	0.38	Aug 8	0.00	Sep 11, 1997
ANNUAL SEVEN-DAY MINIMUM	0.88	Aug 16	0.66	Jul 24	0.00	Jul 28, 2003
MAXIMUM PEAK FLOW			6,800	Jun 4	6,800	Jun 4, 2005
MAXIMUM PEAK STAGE			16.37	Jun 4	16.37	Jun 4, 2005
INSTANTANEOUS LOW FLOW			0.21	Aug 9	0.00	Sep 11, 1997
ANNUAL RUNOFF (AC-FT)	18,740		24,730		15,780	
10 PERCENT EXCEEDS	38		46		23	
50 PERCENT EXCEEDS	4.4		4.8		2.6	
90 PERCENT EXCEEDS	1.5		1.4		0.47	



06914990 LITTLE BULL CREEK NEAR SPRING HILL, KS

LOCATION.--Lat 38°46'03", long 94°52'45", in SW ¼ SW ¼ SE ¼ sec.5, T.15 S., R.23 E., Johnson County, Hydrologic Unit 10290102, located on right upstream side of 199th Street, 3.0 mi south and 2.5 mi east of Gardner.

DRAINAGE AREA.--7.86 mi^2, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 952.349 ft above NGVD of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.94	23	6.9	e2.4	6.2	2.6	1.7	0.75	10	4.9	0.72	2.9
2	2.6	4.1	6.3	2.3	5.3	2.7	1.8	0.65	2.9	1.2	0.86	3.8
3	2.1	25	5.3	85	3.4	2.9	1.4	2.4	65	2.0	0.92	1.6
4	1.1	49	4.8	116	3.2	3.0	1.2	2.0	744	17	1.7	1.2
5	0.99	11	78	80	3.1	2.6	1.6	1.8	29	2.5	13	1.2
6	0.57	8.6	33	15	31	2.2	4.4	1.0	15	1.9	1.5	1.3
7	9.7	8.4	14	9.0	46	3.3	2.9	0.49	9.4	1.6	0.86	1.6
8	6.6	6.8	9.8	7.2	12	2.6	2.0	0.81	20	1.2	0.56	1.1
9	1.9	5.3	8.1	15	8.3	2.5	1.8	1.8	44	1.2	0.52	1.2
10	1.5	14	6.4	18	7.8	2.4	1.3	0.87	11	0.76	0.50	1.2
11	1.9	18	5.7	13	13	2.3	8.3	0.62	149	0.65	0.41	1.1
12	7.1	7.2	4.9	29	35	2.3	3.8	0.64	106	1.5	0.46	0.62
13	6.2	5.2	3.7	20	163	1.8	2.5	75	160	2.0	27	0.84
14	3.2	3.2	3.1	5.0	25	1.6	2.3	9.3	26	2.4	13	1.0
15	2.0	4.8	e2.8	e2.9	11	1.9	1.6	4.5	11	2.3	1.9	19
16	1.7	5.7	e2.7	e2.0	7.6	2.1	1.4	3.1	7.7	2.0	1.3	4.1
17	1.3	6.1	2.8	e1.7	6.2	1.6	1.0	2.3	5.9	1.7	1.2	1.9
18	2.5	5.1	3.3	1.8	5.3	1.4	0.78	1.8	5.0	0.91	0.62	5.8
19	1.7	4.5	e2.8	e2.8	6.1	1.7	0.90	1.8	3.3	2.6	13	2.8
20	1.4	3.3	e2.4	5.0	7.7	1.7	0.90	1.5	3.0	2.4	110	1.9
21	1.1	2.5	e2.2	6.1	5.4	2.6	0.99	1.1	2.6	2.0	5.7	1.3
22	1.2	2.4	e1.8	e3.5	4.6	7.2	0.84	0.85	1.9	2.3	3.1	1.2
23	1.1	2.6	e1.3	e2.3	4.1	5.9	0.90	0.87	1.6	1.8	4.0	69
24	1.1	48	e0.99	2.0	3.7	3.8	0.71	0.86	1.5	0.93	4.4	11
25	1.1	38	e1.2	2.5	3.4	3.4	0.58	0.67	1.2	0.98	330	4.5
26	4.7	47	1.5	2.4	3.3	2.6	1.4	0.66	0.93	1.0	189	2.6
27	2.6	46	e1.8	2.6	3.1	2.2	1.2	0.63	0.70	3.6	23	1.9
28	3.3	14	2.3	2.3	3.3	2.0	1.4	0.60	0.88	2.0	8.7	5.2
29	5.9	8.9	e2.6	2.6	---	1.9	1.5	0.48	1.2	1.7	6.5	2.2
30	3.7	7.9	3.0	2.5	---	2.0	1.5	0.35	2.2	1.6	3.9	1.5
31	2.1	---	e2.6	3.9	---	2.0	---	1.3	---	1.1	3.1	---
MEAN	2.74	14.5	7.36	15.0	15.6	2.61	1.82	3.92	48.1	2.31	24.9	5.22
MAX	9.7	49	78	116	163	7.2	8.3	75	744	17	330	69
MIN	0.57	2.4	0.99	1.7	3.1	1.4	0.58	0.35	0.70	0.65	0.41	0.62
AC-FT	168	864	452	924	867	160	108	241	2,860	142	1,530	311

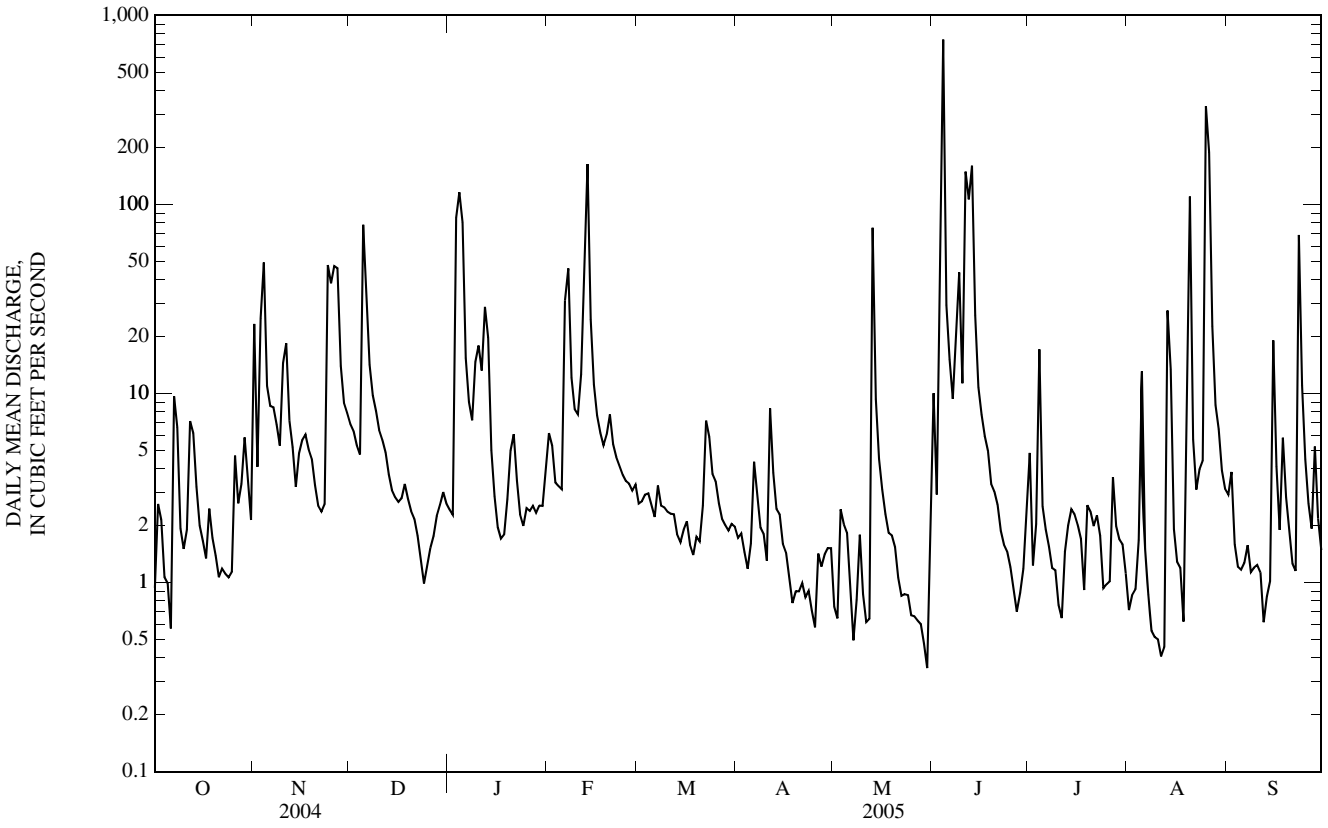
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	5.61	8.34	3.95	3.43	9.31	8.13	11.2	18.0	17.6	4.17	7.40	4.09
MAX	22.6	37.5	10.3	15.0	33.2	38.1	46.6	88.4	48.1	24.5	32.9	19.1
(WY)	(1999)	(1999)	(1999)	(2005)	(1997)	(2004)	(1994)	(1995)	(2005)	(2004)	(2004)	(1998)
MIN	0.44	0.36	0.28	0.40	0.63	0.46	0.44	1.62	1.16	0.42	0.16	0.44
(WY)	(1996)	(2003)	(2003)	(2003)	(1996)	(1996)	(1996)	(2000)	(2002)	(1994)	(2000)	(1995)

06914990 LITTLE BULL CREEK NEAR SPRING HILL, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL MEAN	13.1		11.9		8.41	
HIGHEST ANNUAL MEAN					12.8	1999
LOWEST ANNUAL MEAN					2.14	2003
HIGHEST DAILY MEAN	698	Mar 4	744	Jun 4	930	May 17, 1995
LOWEST DAILY MEAN	0.11	May 9	0.35	May 30	0.00	Aug 30, 2000
ANNUAL SEVEN-DAY MINIMUM	0.17	May 3	0.61	May 24	0.01	Sep 4, 2000
MAXIMUM PEAK FLOW			2,630	Jun 4	2,630	Jun 4, 2005
MAXIMUM PEAK STAGE			9.50	Jun 4	17.56	Aug 24, 2004
INSTANTANEOUS LOW FLOW			0.35	May 30	0.00	Aug 22, 2000
ANNUAL RUNOFF (AC-FT)	9,500		8,630		6,090	
10 PERCENT EXCEEDS	21		18		10	
50 PERCENT EXCEEDS	3.0		2.5		1.5	
90 PERCENT EXCEEDS	0.85		0.89		0.32	

e Estimated



06914995 HILLSDALE LAKE NEAR HILLSDALE, KS

LOCATION.--Lat 38°39'33", long 94°53'54", in NE ¼ SW ¼ NW ¼ sec.17, T.16 S., R.23 E., Miami County, Hydrologic Unit 10290102, in control tower at dam on Big Bull Creek, 2.5 mi west of Hillsdale, and at mile 18.2.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--May 1982 to current year.

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

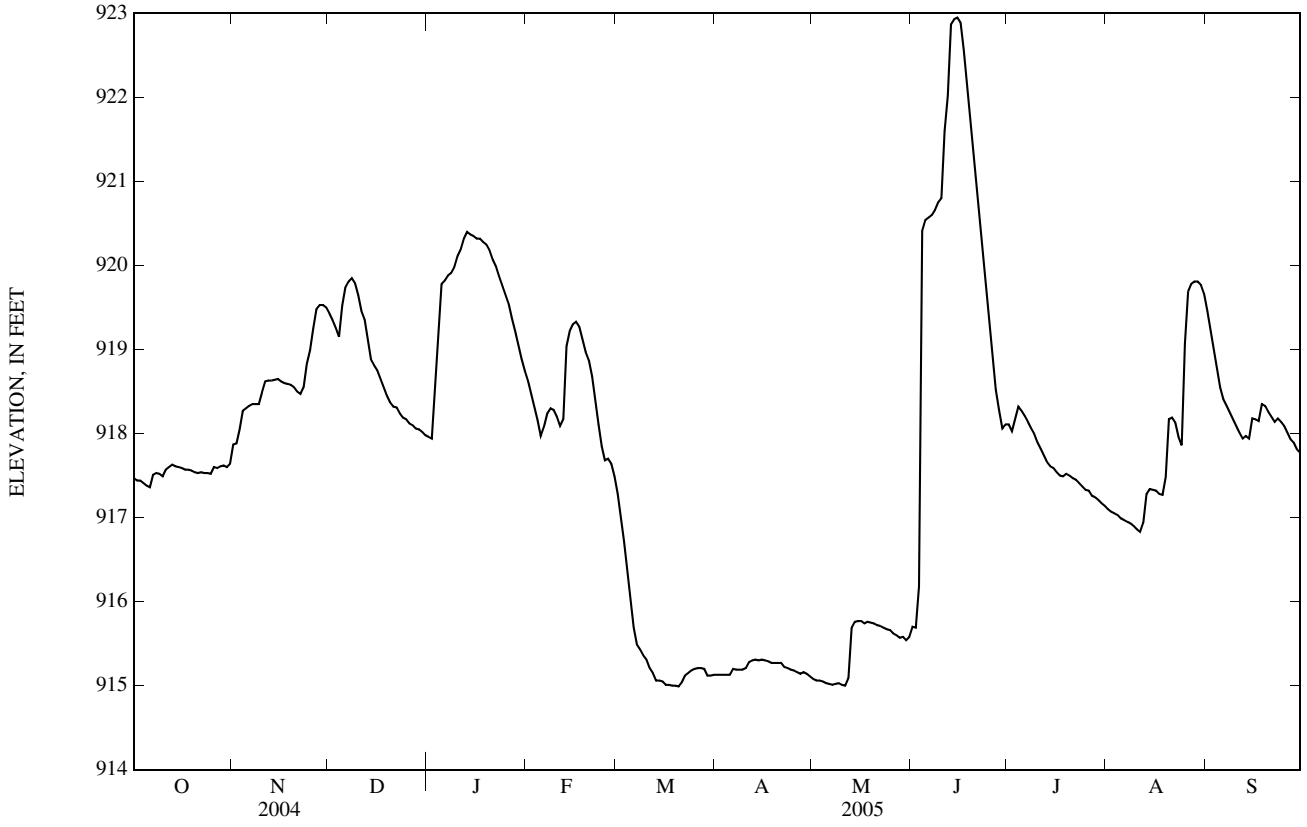
REMARKS.--Records fair. Reservoir is formed by compacted earthfill dam. Storage began Sept. 19, 1981. Conservation pool elevation was first reached on Feb. 23, 1985. Total capacity, 315,600 acre-ft, consisting of the following: Conservation pool, 76,270 acre-ft between elevations 860.0 ft and 917.0 ft; flood-control pool, 83,570 acre-ft between elevations 917.0 ft and 931.0 ft; and surcharge pool, 155,800 acre-ft between elevations 931.0 ft and 948.0 ft. Reservoir is used for flood control, water supply, water-quality control, fish and wildlife, and recreation. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 928.49 ft, Oct. 20, 1986, contents, 141,900 acre-ft; minimum elevation since conservation pool first filled, 904.91 ft, Dec. 14, 1987, contents, 33,740 acre-ft.

EXTREMES FOR CURRENT OF RECORD.--Maximum elevation, 922.96 ft, June 15, contents, 107,000 acre-ft; minimum elevation, 914.96 ft, Mar. 21, contents, 67,330 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey made in 1969 by U.S. Army Corps of Engineers)

Elevation	Contents	Elevation	Contents	Elevation	Contents
910	48,700	920	90,870	925	119,100



06914995 HILLSDALE LAKE NEAR HILLSDALE, KS—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	917.47	917.87	919.43	917.96	918.63	917.28	915.13	915.08	915.70	918.11	917.10	919.46
2	917.44	917.88	919.35	917.94	918.48	916.99	915.13	915.06	915.69	918.03	917.07	919.24
3	917.44	918.05	919.26	918.52	918.32	916.71	915.13	915.06	916.18	918.17	917.05	919.02
4	917.41	918.27	919.15	919.10	918.16	916.37	915.13	915.05	920.41	918.32	917.03	918.79
5	917.38	918.30	919.52	919.78	917.97	916.03	915.13	915.03	920.54	918.27	916.99	918.55
6	917.36	918.33	919.74	919.82	918.08	915.69	915.20	915.02	920.57	918.21	916.97	918.41
7	917.51	918.35	919.81	919.88	918.24	915.49	915.19	915.01	920.60	e918.14	916.95	918.33
8	917.53	918.35	919.85	919.91	918.30	915.43	915.19	915.02	920.66	e918.06	916.93	918.25
9	917.52	918.35	919.79	919.98	918.28	915.36	915.19	915.03	920.75	e917.99	916.90	918.17
10	917.49	918.49	919.65	920.11	918.20	915.31	915.21	915.01	920.80	e917.89	916.86	918.09
11	917.57	918.62	919.46	920.19	918.09	915.21	915.28	915.00	921.60	917.82	916.83	918.01
12	917.60	918.63	919.36	920.32	918.17	915.15	915.30	915.09	922.02	917.74	916.94	917.94
13	917.63	918.63	919.12	920.40	919.04	915.06	915.31	915.69	922.87	917.66	917.28	917.97
14	917.61	918.64	918.88	920.37	919.22	915.06	915.30	915.76	922.93	917.61	917.34	917.94
15	917.60	918.65	918.81	920.35	919.30	915.05	915.31	915.77	922.95	917.59	917.33	918.18
16	917.59	918.62	918.75	920.32	919.33	915.01	915.30	915.77	922.89	917.54	917.32	918.17
17	917.57	918.60	918.65	920.32	919.27	915.01	915.29	915.74	922.56	917.50	917.28	918.15
18	917.57	918.59	918.55	920.28	919.12	915.00	915.27	915.76	922.14	917.49	917.27	918.35
19	917.56	918.58	918.45	920.25	918.97	915.00	915.27	915.75	921.73	917.52	917.48	918.33
20	917.54	918.55	918.37	920.18	918.87	914.99	915.27	915.74	921.31	917.50	918.17	918.26
21	917.53	918.50	918.32	920.07	918.68	915.04	915.27	915.72	920.87	917.47	918.19	918.20
22	917.54	918.47	918.31	919.99	918.41	915.12	915.22	915.71	920.45	917.45	918.13	918.14
23	917.53	918.55	918.24	919.87	918.11	915.15	915.21	915.69	919.99	917.41	917.96	918.18
24	917.53	918.83	918.19	919.76	917.85	915.18	915.19	915.67	919.59	917.37	917.86	918.14
25	917.52	918.99	918.17	919.65	917.68	915.20	915.18	915.66	919.24	917.33	919.07	918.09
26	917.60	919.25	918.12	919.54	917.70	915.21	915.16	915.62	918.88	917.32	919.69	918.01
27	917.59	919.48	918.10	919.37	917.64	915.21	915.14	915.60	918.52	917.26	919.78	917.93
28	917.61	919.53	918.06	919.22	917.49	915.20	915.16	915.57	918.27	917.24	919.81	917.89
29	917.62	919.53	918.05	919.05	---	915.12	915.14	915.58	918.06	917.21	919.81	917.81
30	917.60	919.50	918.02	918.89	---	915.12	915.11	915.54	918.11	917.17	919.77	917.77
31	917.64	---	917.98	918.75	---	915.13	---	915.58	---	917.14	919.66	---
MEAN	917.54	918.63	918.82	919.68	918.41	915.42	915.21	915.43	920.23	917.66	917.83	918.26
MAX	917.64	919.53	919.85	920.40	919.33	917.28	915.31	915.77	922.95	918.32	919.81	919.46
MIN	917.36	917.87	917.98	917.94	917.49	914.99	915.11	915.00	915.69	917.14	916.83	917.77
(+)	79,260	88,340	80,850	84,590	78,560	68,050	67,970	69,990	81,480	76,920	89,150	79,870
(#)	+840	+9,080	-7,490	+3,740	-6,030	-10,510	-80	+2,020	+11,490	-4,560	+12,230	-9,280

CAL YR 2004 ..... (#) +16,680
WTR YR 2005 ..... (#) +1,450

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

e Estimated

06915000 BIG BULL CREEK NEAR HILLSDALE, KS

LOCATION.--Lat 38°38'12", long 94°53'29", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.20, T.16 S., R.23 E., Miami County, Hydrologic Unit 10290102, on right bank 1.0 mi upstream from Tenmile Creek, 3.0 mi southwest of Hillsdale, and at mile 16.2.

DRAINAGE AREA.--147 mi^2.

PERIOD OF RECORD.--July 1958 to current year. Records for 1949 to 1953 published in WSP 1146, 1176, 1210, 1240, and 1280 have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1919: 1958. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 854.49 ft above NGVD of 1929. Prior to July 29, 1958, water-stage recorder and nonrecording gage operated 1,850 ft downstream at datum 6.00 ft lower. All records from this site were later discredited.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow completely regulated since 1981 by Hillsdale Lake (station 06914995), 2.0 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1910, 21.2 ft, July 11, 1951, present site and datum, discharge, 45,200 ft^3/s, on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	26	299	102	475	549	0.91	20	24	153	25	594
2	16	14	295	102	467	729	1.3	20	20	153	25	593
3	15	26	294	134	489	848	1.6	20	e28	166	25	591
4	15	25	292	152	488	847	1.6	20	e24	203	25	591
5	15	12	e310	118	489	838	0.75	20	e23	190	24	591
6	15	11	148	24	515	835	1.6	20	23	190	25	394
7	21	11	27	19	413	478	5.1	20	22	190	25	162
8	19	11	23	17	182	167	19	20	22	191	18	162
9	14	11	238	22	76	167	19	20	22	192	23	162
10	13	e25	450	24	316	167	19	20	21	193	24	163
11	14	24	449	49	428	167	e24	19	e24	194	23	163
12	16	12	450	112	495	168	21	19	e23	193	23	88
13	14	11	446	104	423	169	20	e25	e21	193	24	21
14	11	11	446	100	27	75	20	24	e21	113	24	21
15	9.8	50	374	100	23	18	20	20	22	25	23	24
16	9.3	99	248	100	22	18	21	19	219	25	23	22
17	9.3	98	248	100	148	18	21	18	953	25	23	22
18	9.4	99	248	122	419	18	21	19	1,200	26	23	e29
19	9.4	98	249	163	526	19	21	19	1,190	26	e24	100
20	9.5	98	249	221	527	19	21	19	1,180	26	e24	161
21	9.6	98	218	304	524	22	21	19	1,180	26	24	160
22	9.5	98	96	302	690	26	21	20	1,170	26	e289	160
23	9.6	99	96	301	823	23	21	21	1,170	26	e535	161
24	9.8	e130	97	300	821	21	21	21	1,090	26	535	160
25	10	113	98	300	590	21	22	21	886	26	e149	160
26	11	107	98	366	13	21	21	21	882	26	e32	160
27	12	119	98	479	156	20	21	21	881	24	26	160
28	12	102	100	477	457	20	21	21	605	25	23	163
29	12	102	100	476	---	240	21	20	423	22	23	163
30	12	184	100	475	---	1.5	20	20	255	25	61	77
31	13	---	101	476	---	0.82	---	21	---	25	306	---
MEAN	12.9	64.1	225	198	394	217	16.3	20.2	454	95.0	79.9	206
MAX	26	184	450	479	823	848	24	25	1,200	203	535	594
MIN	9.3	11	23	17	13	0.82	0.75	18	20	22	18	21
AC-FT	796	3,820	13,850	12,180	21,860	13,350	972	1,240	27,020	5,840	4,910	12,250

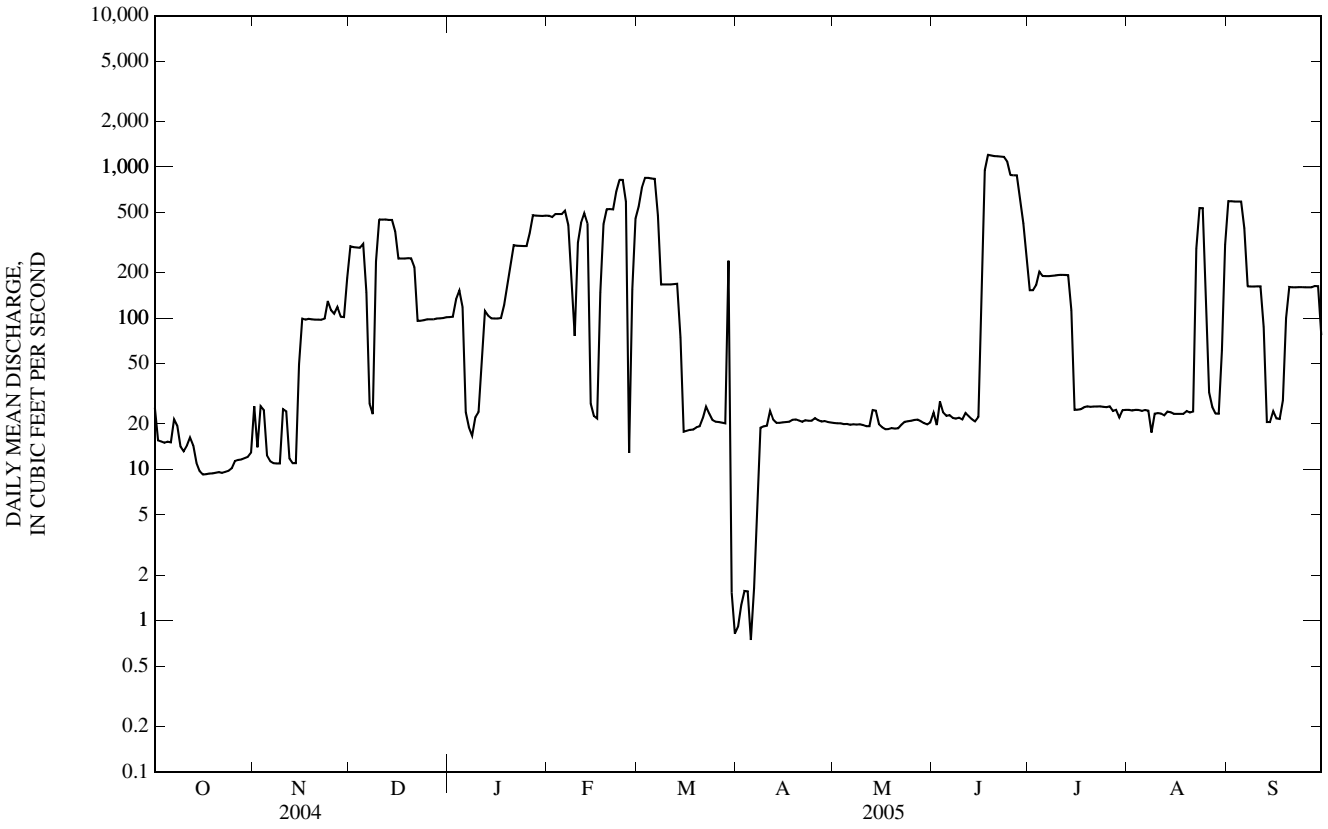
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	87.9	74.1	94.8	69.8	65.6	127	97.5	132	252	86.0	47.5	82.1
MAX	773	612	688	408	394	1,057	368	492	1,061	744	730	1,019
(WY)	(1974)	(1962)	(1987)	(1993)	(2005)	(1973)	(1987)	(1993)	(1995)	(1984)	(1993)	(1961)
MIN	0.00	0.00	0.00	0.00	0.18	0.43	1.77	7.90	8.23	0.01	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1981)	(1964)	(1981)	(1965)	(1959)	(1980)	(1975)	(1963)

06915000 BIG BULL CREEK NEAR HILLSDALE, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1959 - 2005	
ANNUAL MEAN	139		163		101	
HIGHEST ANNUAL MEAN					271	1973
LOWEST ANNUAL MEAN					12.0	1989
HIGHEST DAILY MEAN	1,020	Sep 1	1,200	Jun 18	18,000	Sep 13, 1961
LOWEST DAILY MEAN	5.6	Feb 13	0.75	Apr 5	0.00	Sep 11, 1959
ANNUAL SEVEN-DAY MINIMUM	6.2	Jan 31	1.2	Mar 30	0.00	Sep 11, 1959
MAXIMUM PEAK FLOW			1,230	Jun 18	39,600	Sep 13, 1961
MAXIMUM PEAK STAGE			b13.10	Jun 4	20.85	Sep 13, 1961
INSTANTANEOUS LOW FLOW			0.19	Apr 7	0.00	many years
ANNUAL RUNOFF (AC-FT)	101,000		118,100		73,410	
10 PERCENT EXCEEDS	464		488		232	
50 PERCENT EXCEEDS	31		26		15	
90 PERCENT EXCEEDS	8.2		13		0.46	

e Estimated
b Discharge for June 4 affected by backwater



06915800 MARAIS DES CYGNES RIVER AT LA CYGNE, KS

LOCATION.--Lat 38°20'43", long 94°46'20", in SE ¼ SE ¼ SE ¼ sec.32, T.19 S., R.24 E., Linn County, Hydrologic Unit 10290102, on right bank at upstream side of bridge on Kansas Highway 152, at west edge of La Cygne, and at mile 331.9.

DRAINAGE AREA.--2,669 mi^2.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 776.21 ft above NGVD of 1929 (levels by National Weather Service).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Natural flow slightly affected since 1964 by Pomona Lake (station 06912490), since 1973 by Melvern Lake (station 06910997), and by numerous small diversions upstream from station. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 13, 1951, reached a stage of 36.19 ft, present datum, discharge not determined; information supplied by National Weather Service.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 7	0100	17,900	26.68	Jun 15	2145	32,600	30.66
Feb 15	0045	15,400	23.85	Jul 21	0800	10,800	18.59
May 15	2200	15,500	24.04	Aug 28	0845	18,500	27.33
Jun 7	1000	*32,800	*30.69				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	302	2,770	1,790	2,240	3,060	398	204	2,480	7,070	234	2,180
2	76	1,140	2,560	1,890	2,450	2,910	368	191	3,200	8,940	216	2,190
3	71	1,240	2,220	2,040	2,720	2,780	341	182	3,900	3,970	207	2,070
4	67	3,210	1,930	5,570	2,610	2,370	323	176	13,800	2,840	192	1,870
5	63	3,460	2,260	14,200	2,540	1,950	313	169	19,500	6,200	141	1,720
6	65	2,210	7,790	17,600	2,560	1,620	328	162	24,200	4,430	113	1,660
7	70	1,230	9,410	17,200	5,420	1,560	435	160	32,000	2,800	121	1,360
8	864	826	6,120	9,160	8,990	1,070	467	162	28,200	2,300	113	933
9	681	629	2,910	2,720	7,040	867	516	168	19,600	2,070	105	614
10	313	534	2,500	3,720	3,180	803	461	181	12,100	1,600	97	559
11	221	3,600	2,320	5,330	3,040	712	696	184	10,600	1,360	97	503
12	309	4,330	2,060	5,180	3,680	677	1,900	177	15,600	1,320	97	356
13	460	2,920	1,840	6,630	8,870	650	1,070	3,560	19,000	1,090	118	264
14	430	1,580	1,650	5,500	14,700	626	630	12,100	20,300	783	520	382
15	295	1,060	1,510	3,300	14,100	505	503	15,100	28,300	687	1,370	1,000
16	237	875	1,310	2,250	6,180	419	439	13,300	30,700	608	1,130	3,070
17	199	801	1,170	2,030	3,150	381	386	3,850	24,700	605	553	3,210
18	150	732	1,130	2,020	3,760	353	350	1,770	18,000	606	340	2,200
19	121	751	1,100	1,820	4,110	339	326	2,970	13,200	2,250	918	3,570
20	109	761	1,040	1,680	4,140	317	304	8,060	10,100	7,190	3,240	2,920
21	109	754	1,010	1,800	4,210	313	291	8,440	8,650	9,880	2,610	1,720
22	105	733	987	2,270	4,120	591	280	2,780	8,100	3,410	1,270	1,310
23	103	679	e1,010	2,480	4,130	1,040	259	2,690	7,880	1,630	1,230	1,020
24	99	3,160	e1,010	2,240	3,920	968	241	2,730	7,840	1,350	2,010	744
25	93	7,320	e1,050	2,140	3,910	869	229	2,590	7,630	1,210	5,510	620
26	94	9,370	e1,100	2,060	3,390	773	227	2,560	7,350	1,140	15,200	527
27	143	9,310	e1,180	2,120	2,750	661	227	2,560	7,230	1,120	18,000	398
28	241	6,950	e1,290	2,150	2,840	594	217	2,470	7,110	1,010	18,300	356
29	216	4,070	1,340	2,120	---	543	218	1,860	6,670	760	14,300	338
30	184	2,840	1,360	2,110	---	709	215	1,060	6,020	496	3,160	340
31	170	---	1,410	2,130	---	443	---	982	---	291	1,680	---
MEAN	208	2,579	2,205	4,363	4,812	1,015	432	3,018	14,130	2,613	3,006	1,333
MAX	864	9,370	9,410	17,600	14,700	3,060	1,900	15,100	32,000	9,880	18,300	3,570
MIN	63	302	987	1,680	2,240	313	215	160	2,480	291	97	264
AC-FT	12,770	153,500	135,600	268,300	267,300	62,430	25,700	185,600	840,900	160,700	184,800	79,350

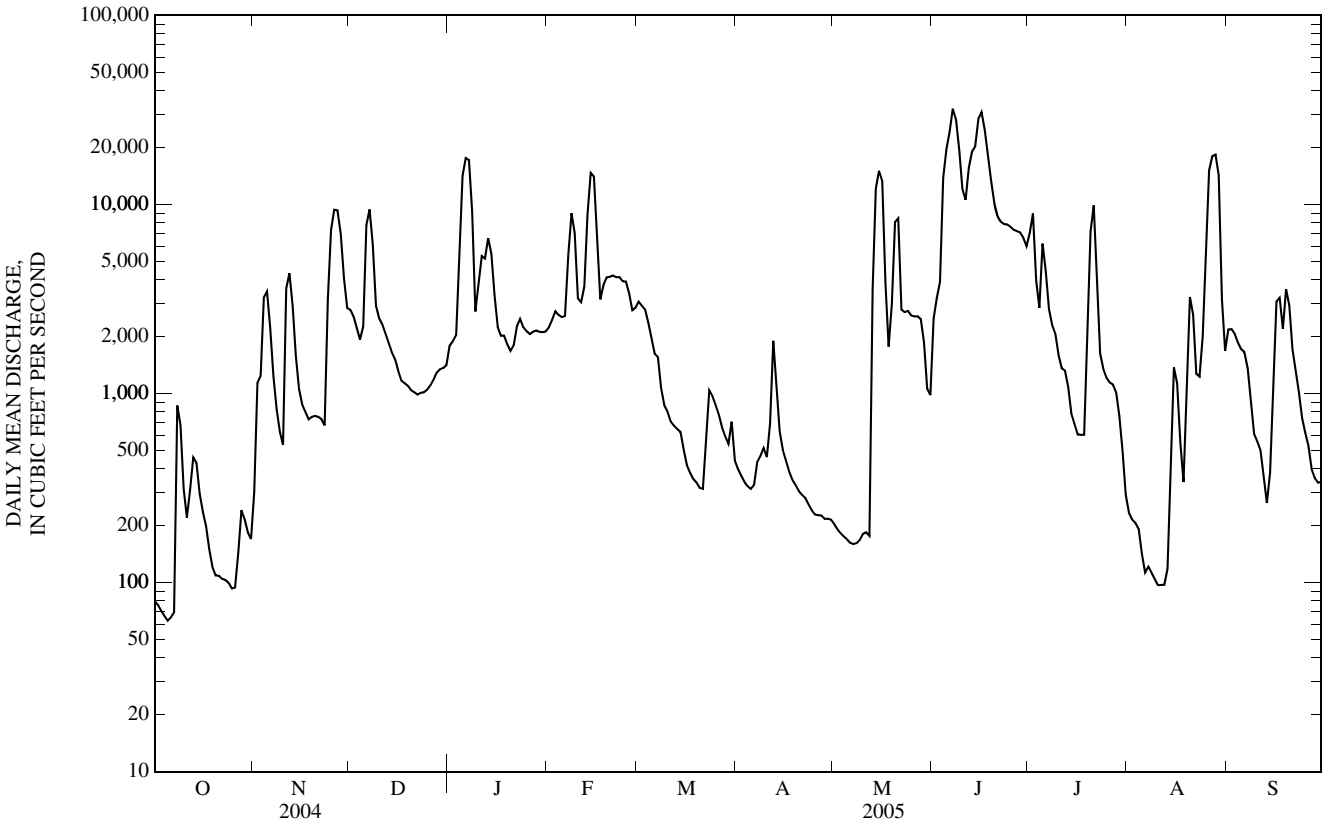
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

MEAN	1,833	2,192	1,820	1,084	1,728	2,393	2,469	3,685	3,806	2,008	989	984
MAX	12,290	13,630	8,038	4,631	8,653	9,746	6,920	11,640	14,130	12,060	4,120	4,627
(WY)	(1987)	(1999)	(1993)	(1993)	(1985)	(1987)	(1999)	(1995)	(2005)	(1993)	(1993)	(1993)
MIN	49.0	59.6	50.3	56.0	64.2	66.1	83.6	222	112	144	48.2	52.8
(WY)	(1992)	(1996)	(2001)	(1996)	(1996)	(1996)	(1996)	(2000)	(1988)	(1991)	(1991)	(1991)

06915800 MARAIS DES CYGNES RIVER AT LA CYGNE, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL MEAN	2,111		3,283		2,082	
HIGHEST ANNUAL MEAN					5,540	1993
LOWEST ANNUAL MEAN					313	1991
HIGHEST DAILY MEAN	29,200	Mar 8	32,000	Jun 7	60,600	Nov 4, 1998
LOWEST DAILY MEAN	63	Oct 5	63	Oct 5	1.0	Oct 4, 1984
ANNUAL SEVEN-DAY MINIMUM	70	Oct 1	70	Oct 1	1.8	Oct 1, 1984
MAXIMUM PEAK FLOW			32,800	Jun 7	66,700	Nov 4, 1998
MAXIMUM PEAK STAGE			30.69	Jun 7	33.49	Nov 4, 1998
INSTANTANEOUS LOW FLOW			60	Oct 7	36	Nov 7, 1988
ANNUAL RUNOFF (AC-FT)	1,533,000		2,377,000		1,508,000	
10 PERCENT EXCEEDS	4,460		8,900		5,720	
50 PERCENT EXCEEDS	1,030		1,360		474	
90 PERCENT EXCEEDS	137		183		62	

e Estimated



06916600 MARAIS DES CYGNES RIVER NEAR KANSAS-MISSOURI STATE LINE, KS

LOCATION.--Lat 38°13'21", long 94°40'04", in NE ¼ SE ¼ NW ¼ sec.16, T.21 S., R.25 E., Linn County, Hydrologic Unit 10290102, on right bank 1.7 mi downstream from Big Sugar Creek, 6.8 mi upstream from Kansas-Missouri State line, and at mile 313.5.

DRAINAGE AREA.--3,230 mi^2, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 757.06 ft above NGVD of 1929. Prior to Jan. 15, 1959, nonrecording gage 6.8 mi downstream at datum 15.62 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Natural flow slightly affected since 1964 by Pomona Lake (station 06912490), since 1973 by Melvern Lake (station 06910997), and by retention of overbank flow in wildlife refuge ponds, capacity, 5,500 acre-ft, power developments, and by numerous small diversions upstream from station. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 14, 1951, reached a stage of 41.2 ft, from floodmark, discharge, 148,000 ft^3/s, from rating curve extended above 110,000 ft^3/s on basis of velocity-area study. Flood of Nov. 18, 1928, reached a stage about 3.7 ft lower, discharge, 106,000 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 28	0100	13,200	18.15	May 15	0645	15,100	20.07
Dec 6	2100	12,100	17.03	Jun 9	1100	24,800	28.87
Jan 7	0430	21,200	25.68	Jun 17	0345	*29,700	*29.93
Feb 14	2300	15,900	20.85	Aug 27	1500	17,900	22.70

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	649	3,880	1,760	2,330	3,260	558	261	2,200	6,310	255	2,290
2	79	1,720	3,430	1,940	2,520	3,200	509	245	2,910	8,530	225	2,390
3	74	1,930	2,880	2,100	2,830	3,040	464	234	3,950	5,370	211	2,280
4	67	4,840	2,490	4,890	2,810	2,650	433	218	11,200	2,810	214	2,130
5	66	5,360	2,830	15,800	2,660	2,240	428	206	18,900	5,260	190	1,950
6	59	3,100	10,300	20,500	2,690	1,870	490	197	19,400	5,240	136	1,880
7	64	1,800	11,800	20,700	4,730	1,760	688	190	20,800	3,310	128	1,710
8	592	1,230	8,980	15,600	8,610	1,460	693	192	23,600	2,650	134	1,300
9	1,220	939	4,510	5,050	8,310	1,110	690	195	24,600	2,410	124	739
10	460	766	3,230	5,220	4,260	1,050	646	200	22,200	2,030	109	579
11	301	4,150	2,940	6,630	3,240	951	703	204	14,800	1,700	106	535
12	296	6,180	2,570	6,720	3,800	894	2,090	194	17,500	1,630	107	402
13	521	4,010	2,330	8,300	8,180	854	1,910	3,180	21,100	1,480	127	303
14	579	2,200	2,100	7,080	15,200	802	1,020	13,500	23,200	1,020	253	1,010
15	377	1,450	1,910	4,460	15,300	706	758	15,000	23,500	838	1,420	935
16	258	1,200	1,750	2,600	9,630	546	629	14,300	26,200	677	1,590	2,840
17	216	1,090	1,560	2,200	4,220	506	543	6,870	29,300	647	739	3,590
18	161	1,010	1,500	e2,230	4,280	470	479	2,180	25,800	664	397	2,750
19	116	1,020	1,460	2,090	4,740	436	446	2,610	21,900	1,180	301	3,810
20	95	1,070	1,390	2,000	4,790	404	412	6,340	13,900	6,130	3,160	3,600
21	100	1,010	1,300	2,010	4,860	399	390	8,740	9,130	9,260	2,820	2,230
22	118	968	1,250	e2,350	4,520	763	369	4,050	8,170	5,240	1,800	1,700
23	115	911	e1,250	e2,640	4,420	1,730	362	2,660	7,810	2,000	1,400	1,370
24	108	4,950	e1,250	2,450	4,290	1,590	325	2,860	7,830	1,650	2,030	1,040
25	90	10,300	e1,250	2,300	4,250	1,310	307	2,700	7,550	1,480	3,930	694
26	81	10,700	e1,260	2,240	3,940	1,190	284	2,630	7,180	1,390	14,100	629
27	361	11,800	e1,310	2,230	3,120	1,010	286	2,640	7,020	1,360	17,600	449
28	1,070	11,500	e1,400	2,280	3,030	886	282	2,560	6,910	1,300	17,600	379
29	613	6,490	e1,450	2,250	---	782	274	2,220	6,580	991	16,300	356
30	434	5,000	1,480	2,230	---	933	276	1,340	6,040	628	6,430	334
31	349	---	1,510	2,250	---	669	---	1,160	---	355	1,890	---
MEAN	294	3,645	2,856	5,261	5,270	1,273	591	3,228	14,710	2,759	3,091	1,540
MAX	1,220	11,800	11,800	20,700	15,300	3,260	2,090	15,000	29,300	9,260	17,600	3,810
MIN	59	649	1,250	1,760	2,330	399	274	190	2,200	355	106	303
AC-FT	18,090	216,900	175,600	323,500	292,700	78,290	35,200	198,500	875,100	169,700	190,100	91,650

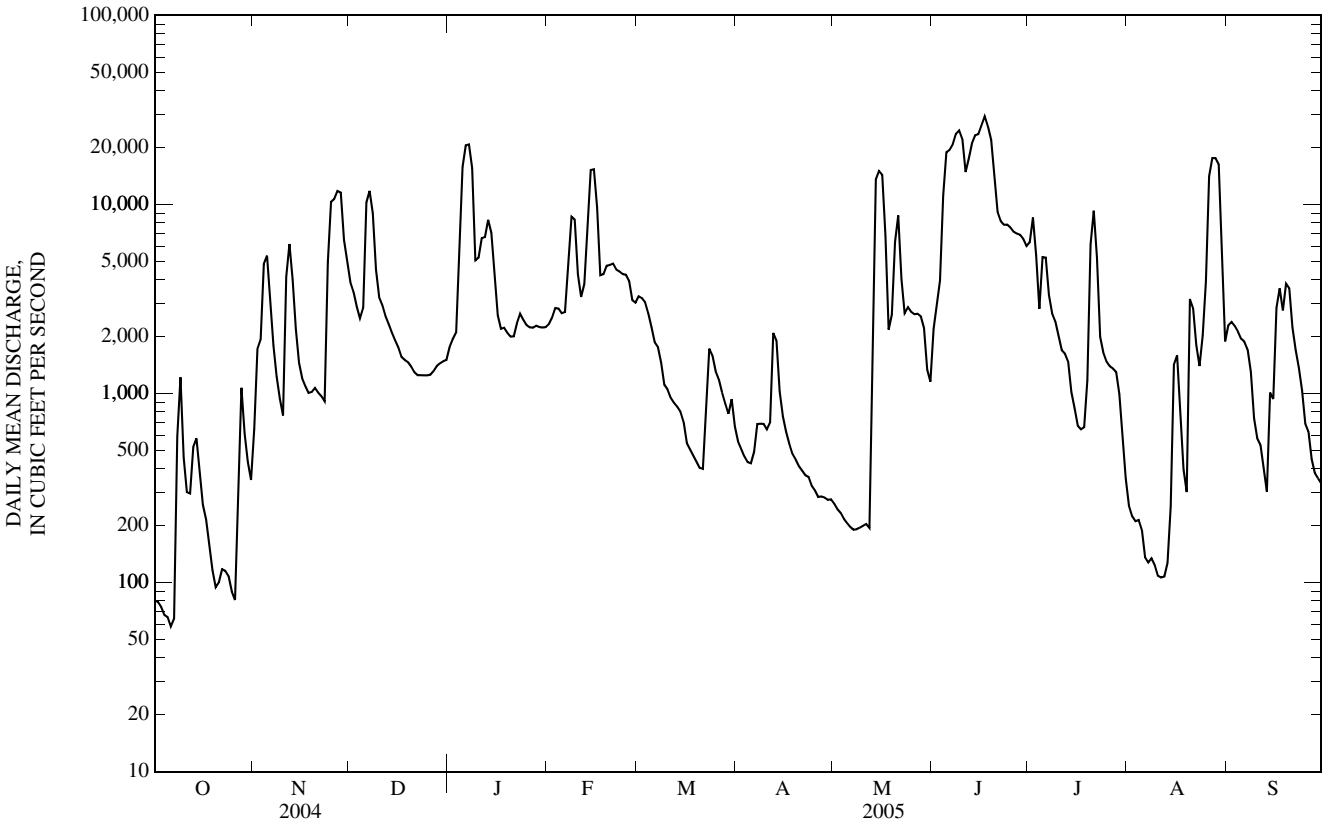
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	1,756	2,038	1,466	1,143	1,777	2,862	3,190	3,455	4,469	1,833	765	1,417
MAX	15,030	13,830	9,470	5,261	9,357	15,760	12,900	13,560	14,740	14,540	4,392	13,300
(WY)	(1987)	(1999)	(1993)	(2005)	(1985)	(1973)	(1983)	(1995)	(1967)	(1993)	(1968)	(1961)
MIN	3.94	5.63	1.56	3.08	9.32	6.73	30.6	165	97.6	21.3	12.6	14.6
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1981)	(1965)	(1988)	(1980)	(1963)	(1963)

06916600 MARAIS DES CYGNES RIVER NEAR KANSAS-MISSOURI STATE LINE, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1959 - 2005	
ANNUAL MEAN	2,541		3,681		2,177	
HIGHEST ANNUAL MEAN					6,283	1993
LOWEST ANNUAL MEAN					361	1991
HIGHEST DAILY MEAN	31,200	Mar 9	29,300	Jun 17	61,400	Oct 4, 1986
LOWEST DAILY MEAN	59	Oct 6	59	Oct 6	0.00	Oct 12, 1963
ANNUAL SEVEN-DAY MINIMUM	70	Oct 1	70	Oct 1	0.00	Nov 13, 1963
MAXIMUM PEAK FLOW			29,700	Jun 17	64,100	Oct 4, 1986
MAXIMUM PEAK STAGE			29.93	Jun 17	34.31	Oct 4, 1986
INSTANTANEOUS LOW FLOW			55	Oct 6	0.00	many years
ANNUAL RUNOFF (AC-FT)	1,845,000		2,665,000		1,577,000	
10 PERCENT EXCEEDS	5,360		9,900		5,910	
50 PERCENT EXCEEDS	1,260		1,760		482	
90 PERCENT EXCEEDS	169		217		40	

e Estimated



06917000 LITTLE OSAGE RIVER AT FULTON, KS

LOCATION.--Lat 38°01'09", long 94°42'48", in SE ¼ NE ¼ NE ¼ sec.25, T.23 S., R.24 E., Bourbon County, Hydrologic Unit 10290103, on right bank at downstream side of county highway bridge, 0.8 mi north of Fulton.

DRAINAGE AREA.--295 mi^2.

PERIOD OF RECORD.--November 1948 to current year.

REVISED RECORDS.--WSP 1440: 1949(P), 1950(M). WDR KS-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 776.37 ft above NGVD of 1929. Prior to May 28, 1952, nonrecording gage at present site and datum.

REMARKS.--Records good 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 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)
Nov 24	1315	5,560	19.95	Jun 13	1615	3,860	15.59
Jan 5	2115	8,050	23.70	Aug 26	2000	*9,240	*24.64
May 13	1430	4,340	16.88				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

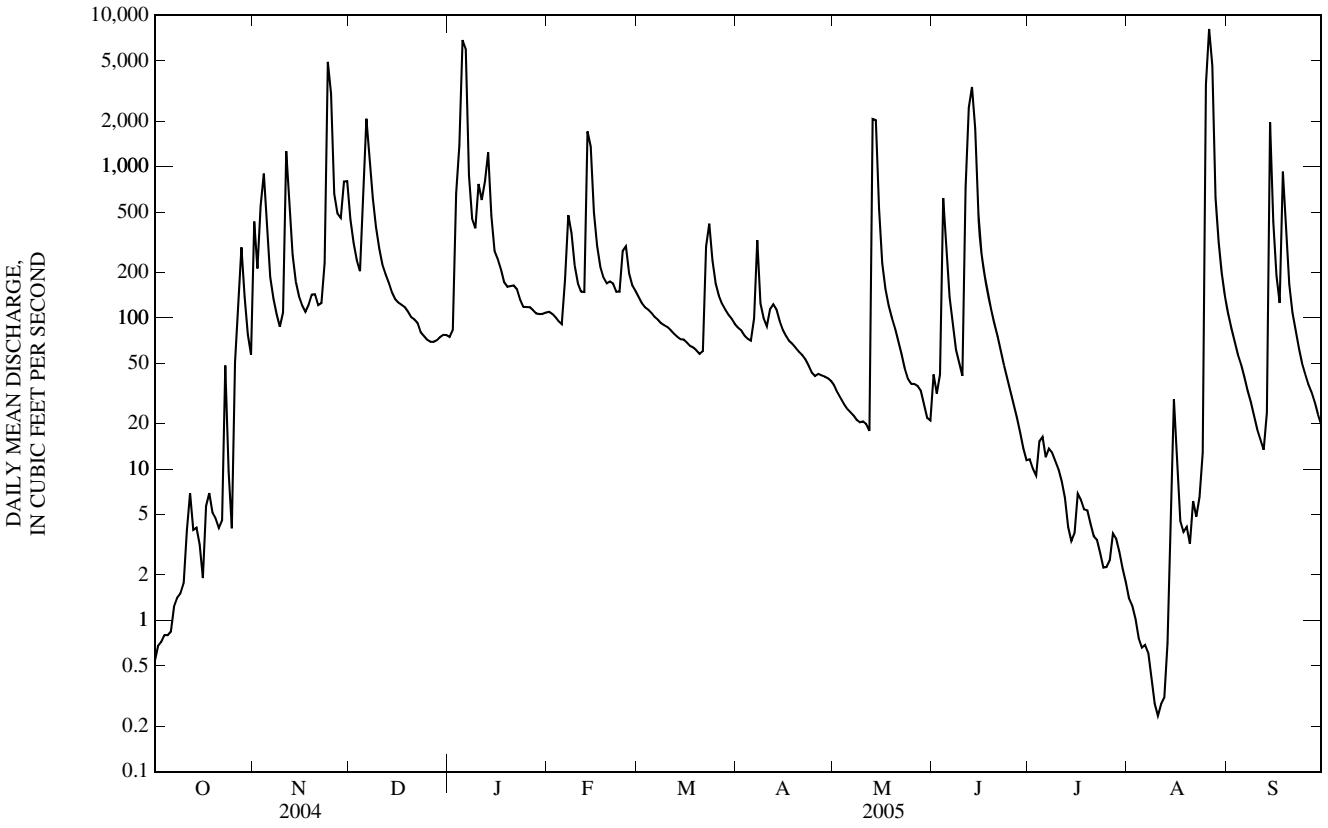
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.54	434	449	75	110	137	86	36	42	12	1.4	105
2	0.68	212	313	83	107	125	83	32	32	10	1.3	85
3	0.72	553	241	667	101	118	76	29	42	9.1	1.0	70
4	0.80	900	203	1,380	95	113	73	27	619	15	0.76	57
5	0.80	385	690	6,850	91	108	71	25	268	16	0.66	49
6	0.84	186	2,070	6,000	176	101	99	24	137	12	0.69	41
7	1.2	134	1,160	879	478	97	326	23	90	14	0.61	33
8	1.4	106	621	453	363	92	125	21	62	13	0.41	28
9	1.5	87	398	391	221	89	99	20	51	11	0.28	23
10	1.8	109	289	768	169	87	88	21	41	10	0.23	18
11	3.9	1,270	225	602	149	83	114	20	730	8.3	0.28	16
12	7.0	591	195	799	148	79	123	18	2,460	6.4	0.31	13
13	4.0	260	171	1,240	1,710	75	114	2,060	3,360	4.1	0.71	24
14	4.1	173	148	475	1,360	72	95	2,030	1,790	3.3	6.7	1,960
15	3.2	139	133	277	498	72	83	530	491	3.8	29	433
16	1.9	121	126	246	299	69	76	229	262	6.9	11	190
17	5.7	110	122	209	218	65	70	156	189	6.3	4.5	125
18	6.9	122	118	172	185	64	67	121	144	5.4	3.9	926
19	5.2	143	110	161	169	61	63	101	113	5.3	4.2	378
20	4.7	143	101	163	174	58	60	85	92	4.3	3.2	167
21	4.1	121	98	164	169	60	57	71	76	3.6	6.1	108
22	4.6	125	93	155	149	297	53	58	61	3.4	4.9	82
23	48	231	80	132	149	420	48	47	49	2.8	6.5	63
24	9.6	4,920	76	118	277	239	44	40	40	2.2	13	50
25	4.1	3,040	72	118	297	169	41	37	33	2.3	3,500	42
26	51	660	70	118	197	140	43	37	27	2.5	8,140	36
27	114	490	69	113	164	124	42	36	22	3.8	4,670	32
28	293	458	71	107	151	114	41	33	17	3.5	627	28
29	138	797	75	106	---	105	40	27	14	2.8	315	23
30	78	803	77	106	---	99	38	22	11	2.2	194	20
31	57	---	77	108	---	91	---	21	---	1.8	137	---
MEAN	27.7	594	282	750	299	117	81.3	195	379	6.68	570	174
MAX	293	4,920	2,070	6,850	1,710	420	326	2,060	3,360	16	8,140	1,960
MIN	0.54	87	69	75	91	58	38	18	11	1.8	0.23	13
AC-FT	1,700	35,350	17,340	46,090	16,610	7,190	4,840	11,970	22,540	411	35,080	10,360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)

MEAN	184	225	146	143	224	347	376	334	351	222	68.5	176
MAX	3,327	1,867	1,170	750	1,378	2,254	2,681	2,206	1,982	2,128	699	2,377
(WY)	(1987)	(1993)	(1993)	(2005)	(1985)	(1973)	(1994)	(1995)	(1970)	(1951)	(1950)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.77	9.05	3.38	0.04	0.00	0.00
(WY)	(1954)	(1953)	(1957)	(1957)	(1964)	(1964)	(1996)	(1962)	(1972)	(1954)	(1953)	(1953)

06917000 LITTLE OSAGE RIVER AT FULTON, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005	
ANNUAL MEAN	253		289		232	
HIGHEST ANNUAL MEAN					656	1993
LOWEST ANNUAL MEAN					9.21	1953
HIGHEST DAILY MEAN	9,200	Mar 5	8,140	Aug 26	51,800	Oct 3, 1986
LOWEST DAILY MEAN	0.44	Sep 28	0.23	Aug 10	0.00	Oct 12, 1949
ANNUAL SEVEN-DAY MINIMUM	0.51	Sep 25	0.40	Aug 6	0.00	Oct 3, 1952
MAXIMUM PEAK FLOW			9,240	Aug 26	62,800	Oct 3, 1986
MAXIMUM PEAK STAGE			24.64	Aug 26	35.21	Oct 3, 1986
INSTANTANEOUS LOW FLOW			0.23	Aug 9	0.00	many years
ANNUAL RUNOFF (AC-FT)	183,700		209,500		168,100	
10 PERCENT EXCEEDS	468		568		385	
50 PERCENT EXCEEDS	82		83		30	
90 PERCENT EXCEEDS	4.0		3.6		0.19	



06917240 MARMATON RIVER AT UNIONTOWN, KS

LOCATION.--Lat 37°50'08", long 94°58'52", in SE ¼ SE ¼ SW ¼ sec.27, T.25 S., R.22 E., Bourbon County, Hydrologic Unit 10290104, on left bank at downstream side of U.S. Highway 3 bridge, 0.9 mi south of Uniontown, and at mile 73.5.

DRAINAGE AREA.--84.0 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 870.00 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow affected at times, usually in September, by draining of Bourbon County State Lake located about 5.0 mi upstream from gage. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 5	1345	3,290	12.60	Aug 25	1900	*3,880	*13.70
Jun 11	2045	3,550	13.10				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	41	118	23	28	64	31	10	5.1	14	0.00	32
2	1.4	49	94	25	28	56	29	9.5	6.0	23	0.00	25
3	0.12	82	79	81	25	51	27	8.3	8.3	16	0.00	19
4	0.00	177	71	827	23	50	27	7.9	333	13	0.00	16
5	0.11	83	158	2,940	22	45	24	6.9	193	13	0.00	14
6	9.6	54	426	537	35	41	24	6.4	81	12	0.00	12
7	15	41	349	231	93	39	30	7.0	55	9.2	0.00	11
8	16	33	207	158	74	35	31	6.5	33	6.5	0.00	11
9	16	29	137	155	63	35	26	7.2	80	5.0	0.00	10
10	17	60	107	230	53	34	23	5.9	114	3.3	0.00	9.0
11	16	676	91	171	45	31	30	4.3	1,760	2.4	0.00	8.2
12	e8.0	299	82	193	44	31	28	3.7	853	1.8	0.00	7.7
13	1.9	134	71	337	227	27	28	74	1,050	1.7	0.00	6.6
14	0.17	91	63	157	217	25	23	230	359	1.4	0.72	6.2
15	0.01	70	59	104	120	24	20	111	151	0.98	1.8	6.8
16	0.00	58	57	82	87	24	18	61	105	0.58	20	6.7
17	0.00	50	55	73	70	23	18	39	75	0.18	11	6.5
18	0.00	53	53	67	60	22	17	26	54	0.06	6.1	5.9
19	0.00	62	50	65	57	21	17	20	39	0.28	3.6	5.8
20	0.00	60	48	66	59	20	15	15	29	0.29	4.5	5.6
21	0.00	54	48	65	53	28	14	11	23	0.04	41	19
22	0.63	52	42	59	47	130	14	8.4	19	0.00	22	29
23	0.43	99	24	51	74	121	14	6.5	15	0.00	11	26
24	0.01	1,170	21	48	204	87	12	7.7	12	0.00	5.3	25
25	0.00	370	20	49	130	69	10	14	9.4	0.00	2,270	24
26	5.4	183	20	49	95	58	11	17	8.0	0.00	1,150	27
27	7.7	126	21	46	80	51	12	13	6.9	0.00	375	23
28	6.1	97	21	43	77	45	13	12	5.8	0.00	152	21
29	9.1	125	22	29	---	41	13	13	5.4	0.00	91	21
30	15	173	23	28	---	37	11	9.5	5.2	0.00	60	21
31	11	---	21	29	---	33	---	5.3	---	0.00	43	---
MEAN	5.44	155	85.7	226	78.2	45.1	20.3	25.1	183	4.02	138	15.4
MAX	17	1,170	426	2,940	227	130	31	230	1,760	23	2,270	32
MIN	0.00	29	20	23	22	20	10	3.7	5.1	0.00	0.00	5.6
AC-FT	335	9,230	5,270	13,920	4,340	2,770	1,210	1,540	10,900	247	8,470	914

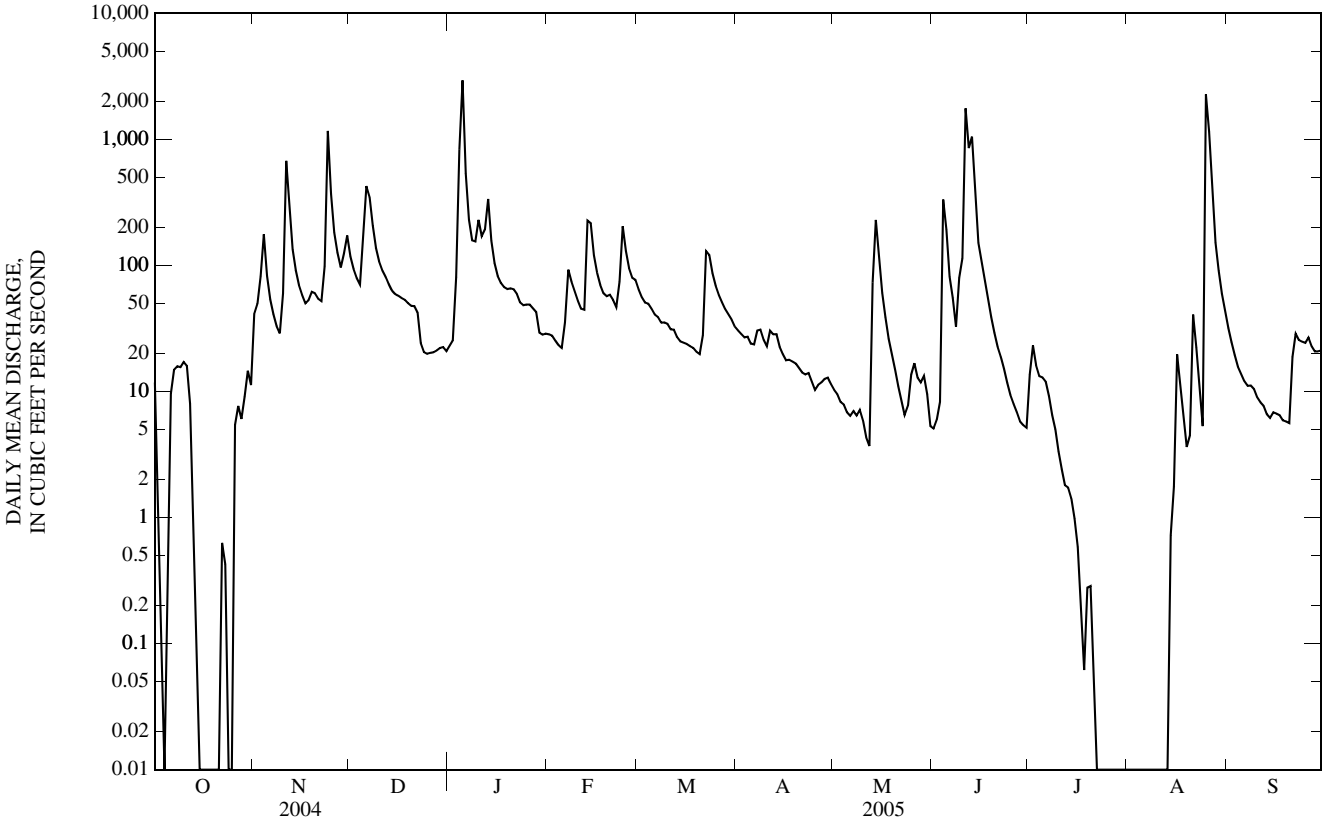
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	3.73	39.4	36.9	68.4	29.1	69.9	63.8	97.8	134	42.4	30.1	7.39
MAX	8.67	155	85.7	226	78.2	193	136	260	183	124	138	15.4
(WY)	(2004)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2002)	(2005)	(2004)	(2005)	(2005)
MIN	0.00	0.00	0.00	0.00	0.11	12.9	20.3	23.3	73.3	0.10	0.13	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2005)	(2001)	(2003)	(2003)	(2002)	(2002)

06917240 MARMATON RIVER AT UNIONTOWN, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL MEAN	83.3		81.7		53.0	
HIGHEST ANNUAL MEAN					81.7	2005
LOWEST ANNUAL MEAN					22.1	2003
HIGHEST DAILY MEAN	2,090	Jun 12	2,940	Jan 5	2,940	Jan 5, 2005
LOWEST DAILY MEAN	0.00	Sep 18	0.00	Oct 4	0.00	Sep 30, 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 17	0.00	Jul 22	0.00	Aug 7, 2002
MAXIMUM PEAK FLOW			3,880	Aug 25	3,880	Aug 25, 2005
MAXIMUM PEAK STAGE			13.70	Aug 25	13.70	Aug 25, 2005
INSTANTANEOUS LOW FLOW			0.00	Oct 3	0.00	Jul 20, 2001
ANNUAL RUNOFF (AC-FT)	60,490		59,140		38,420	
10 PERCENT EXCEEDS	151		151		97	
50 PERCENT EXCEEDS	27		24		8.4	
90 PERCENT EXCEEDS	1.5		0.12		0.00	

e Estimated



06917380 MARMATON RIVER NEAR MARMATON, KS

LOCATION.--Lat 37°49'03", long 94°47'30", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.4, T.26 S., R.24 E., Bourbon County, Hydrologic Unit 10290104, on left bank 150 ft downstream from Cedar Creek, 2.0 mi southeast of Marmaton, and at mile 55.7.

DRAINAGE AREA.--292 mi^2.

PERIOD OF RECORD.--May 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.66 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow affected at times, usually in September, by draining of Bourbon County State Lake located about 14.5 mi upstream from gage. 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)
Nov 11	1500	4,810	16.90	Jun 11	2000	6,230	19.82
Nov 24	1000	7,670	22.51	Jun 13	1500	4,260	15.70
Jan 5	0615	*13,400	*31.11	Aug 25	1700	6,880	21.06
Jan 13	0200	5,810	18.98				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

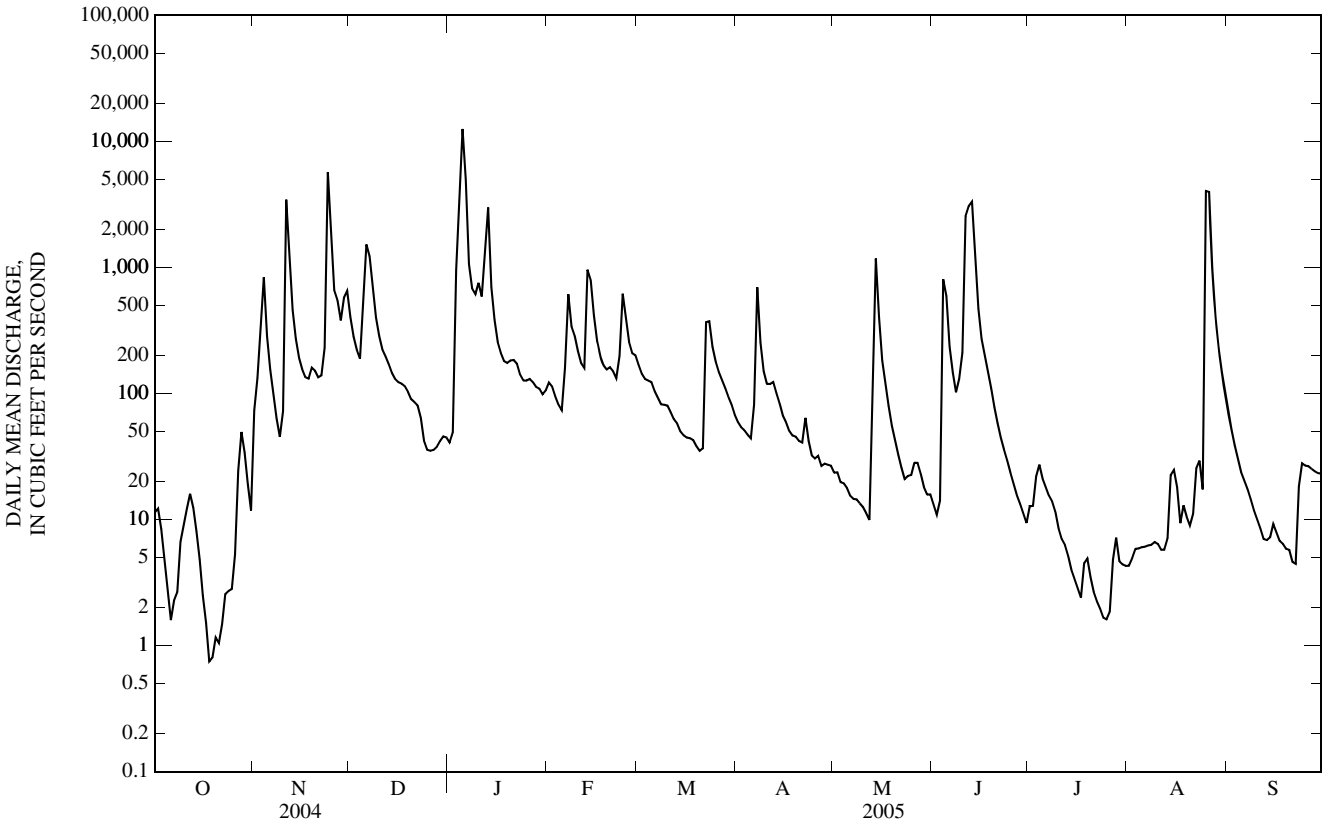
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	73	403	41	122	168	59	24	13	13	4.3	73
2	12	133	283	49	113	143	54	24	11	13	4.9	52
3	8.4	340	222	953	95	130	51	20	14	22	5.9	39
4	5.1	836	189	3,220	82	127	47	19	805	27	5.9	31
5	2.8	286	541	12,600	74	123	44	18	593	21	6.0	24
6	1.6	154	1,520	5,010	159	104	82	15	235	18	6.1	20
7	2.3	99	1,230	1,060	613	92	696	15	147	15	6.2	17
8	2.7	63	673	679	341	82	254	14	102	14	6.3	14
9	6.7	45	400	614	287	81	150	13	131	12	6.6	12
10	9.0	72	286	755	217	80	119	13	211	8.5	6.4	10
11	12	3,450	224	588	175	71	119	11	2,560	7.0	5.8	8.5
12	16	1,270	198	1,420	159	63	123	9.9	3,070	6.3	5.8	7.0
13	12	461	171	2,990	960	58	101	144	3,320	5.2	7.1	6.9
14	8.0	271	146	700	797	50	83	1,180	1,240	4.0	23	7.2
15	4.8	192	130	383	416	47	67	404	471	3.4	25	9.2
16	2.5	156	123	256	261	45	59	182	271	2.9	18	7.9
17	1.5	135	120	209	199	44	51	121	199	2.4	9.4	6.8
18	0.75	131	114	181	168	43	46	79	146	4.5	13	6.4
19	0.80	160	103	175	155	38	45	56	110	4.9	11	5.9
20	1.2	152	90	183	162	35	42	43	78	3.5	9.0	5.7
21	1.0	135	86	185	151	37	41	33	58	2.7	11	4.6
22	1.5	139	80	173	132	367	64	26	45	2.2	26	4.5
23	2.6	231	64	141	198	374	42	21	36	2.0	29	18
24	2.7	5,700	42	127	618	235	32	22	30	1.7	17	28
25	2.8	1,690	36	127	397	180	31	23	24	1.6	4,040	27
26	5.3	662	35	130	256	148	32	28	19	1.9	3,970	27
27	24	553	36	123	209	128	27	28	16	4.8	975	25
28	50	380	38	113	201	111	28	23	13	7.2	404	24
29	34	575	42	109	---	94	27	18	11	4.7	225	23
30	19	649	46	98	---	82	27	16	9.4	4.4	147	23
31	12	---	45	106	---	68	---	16	---	4.3	105	---
MEAN	8.90	640	249	1,081	276	111	88.1	85.8	466	7.91	327	18.9
MAX	50	5,700	1,520	12,600	960	374	696	1,180	3,320	27	4,040	73
MIN	0.75	45	35	41	74	35	27	9.9	9.4	1.6	4.3	4.5
AC-FT	548	38,070	15,300	66,440	15,310	6,840	5,240	5,270	27,750	486	20,100	1,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2005, BY WATER YEAR (WY)

MEAN	244	346	224	199	289	469	450	377	394	177	83.2	166
MAX	3,884	1,523	997	1,081	1,627	2,603	3,139	2,002	1,652	2,071	793	1,895
(WY)	(1987)	(1975)	(1993)	(2005)	(1985)	(1973)	(1994)	(1990)	(1977)	(1992)	(1985)	(1998)
MIN	0.03	0.03	0.08	0.05	0.10	0.10	0.06	14.3	1.03	0.11	0.06	0.03
(WY)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1980)	(1980)	(1980)	(1980)	(2002)

06917380 MARMATON RIVER NEAR MARMATON, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1972 - 2005	
ANNUAL MEAN	287		280		284	
HIGHEST ANNUAL MEAN					644	1987
LOWEST ANNUAL MEAN					63.0	1996
HIGHEST DAILY MEAN	8,780	Mar 5	12,600	Jan 5	67,900	Oct 3, 1986
LOWEST DAILY MEAN	0.29	Sep 27	0.75	Oct 18	0.00	Aug 25, 1978
ANNUAL SEVEN-DAY MINIMUM	0.39	Sep 21	1.3	Oct 16	0.00	Oct 13, 1978
MAXIMUM PEAK FLOW			13,400	Jan 5	106,000	Oct 3, 1986
MAXIMUM PEAK STAGE			31.11	Jan 5	42.87	Oct 3, 1986
INSTANTANEOUS LOW FLOW			0.32	Oct 18	0.00	Aug 1, 1978
ANNUAL RUNOFF (AC-FT)	208,500		202,500		206,000	
10 PERCENT EXCEEDS	573		590		446	
50 PERCENT EXCEEDS	72		50		39	
90 PERCENT EXCEEDS	2.4		5.0		0.43	



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) represent 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 2004 TO SEPTEMBER 2005
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	25	0.05	23	16	24
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	27	30	27
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	30	31	25
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	31	31	25
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	31	32	22
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	31	32	21
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	30	31	20
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	16	29	20
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	23	26	18
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	24	24	18
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	24	24	17
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	24	29	17
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	24	31	17
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	26	30	18
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	e29	26	e21
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	29	24	19
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	29	24	16
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	29	23	14
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	29	23	14
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	29	23	14
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	8.8	29	22	13
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	23	28	22	12
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	22	29	29	e13
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	22	29	27	13
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25	22	30	25	15
26	0.00	0.00	0.00	0.00	0.00	0.00	0.45	25	22	29	25	e16
27	0.00	0.00	0.00	0.00	0.00	0.00	12	25	22	29	23	12
28	0.00	0.00	0.00	0.00	0.00	0.00	17	25	22	27	26	11
29	0.00	0.00	0.00	0.00	---	0.00	12	24	22	23	27	e11
30	0.00	0.00	0.00	0.00	---	0.00	25	24	22	18	26	e12
31	0.00	---	0.00	0.00	---	0.00	---	18	---	14	26	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	2.21	24.5	6.93	26.5	26.4	17.2
MAX	0.00	0.00	0.00	0.00	0.00	0.00	25	26	23	31	32	27
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	14	16	11
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	132	1,500	412	1,630	1,620	1,020

e Estimated

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS

LOCATION.--Lat 38°01'39", long 102°00'40", 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	62	68	73	69	66	61	176	549	542	55	14
2	59	66	70	72	69	66	52	188	370	576	37	13
3	59	72	71	71	69	67	52	182	268	583	29	19
4	68	68	73	73	68	66	53	188	222	571	24	15
5	57	66	74	e64	68	65	54	199	234	600	24	14
6	56	66	76	e64	73	64	63	200	299	615	26	14
7	52	63	75	65	72	65	62	195	250	568	22	14
8	51	63	75	71	71	64	56	208	202	576	20	14
9	47	63	73	75	70	63	59	218	169	548	19	12
10	46	71	72	75	70	63	57	209	159	540	19	11
11	51	68	72	75	71	62	59	198	321	564	22	11
12	52	67	72	75	72	63	57	172	208	563	29	10
13	54	65	70	71	72	63	50	181	246	574	34	9.7
14	66	68	71	e66	70	62	48	194	313	568	31	10
15	82	68	71	e65	70	61	54	209	309	544	34	11
16	87	68	70	65	68	62	53	217	319	527	33	12
17	87	69	70	70	68	62	65	203	403	512	23	15
18	87	72	70	73	68	61	61	199	422	502	22	15
19	89	73	69	72	69	60	47	196	346	494	20	17
20	73	76	70	72	68	60	47	190	306	481	21	14
21	68	76	70	72	68	62	58	198	277	309	22	17
22	68	75	70	71	68	60	68	199	241	209	29	15
23	70	74	72	71	68	59	79	205	271	160	28	13
24	74	73	51	71	69	59	82	219	402	128	23	12
25	66	71	47	72	68	58	96	554	458	112	20	14
26	66	73	64	71	68	59	97	406	521	96	22	13
27	64	71	72	68	68	59	90	270	560	84	26	11
28	64	71	79	70	67	59	88	214	553	76	20	11
29	64	70	77	70	---	68	141	230	543	72	21	11
30	62	70	77	70	---	69	168	232	541	66	16	11
31	62	---	75	69	---	67	---	451	---	62	15	---
MEAN	65.0	69.3	70.5	70.4	69.2	62.7	69.2	229	343	401	25.4	13.1
MAX	89	76	79	75	73	69	168	554	560	615	55	19
MIN	46	62	47	64	67	58	47	172	159	62	15	9.7
AC-FT	3,990	4,120	4,340	4,330	3,850	3,860	4,120	14,080	20,390	24,640	1,560	779

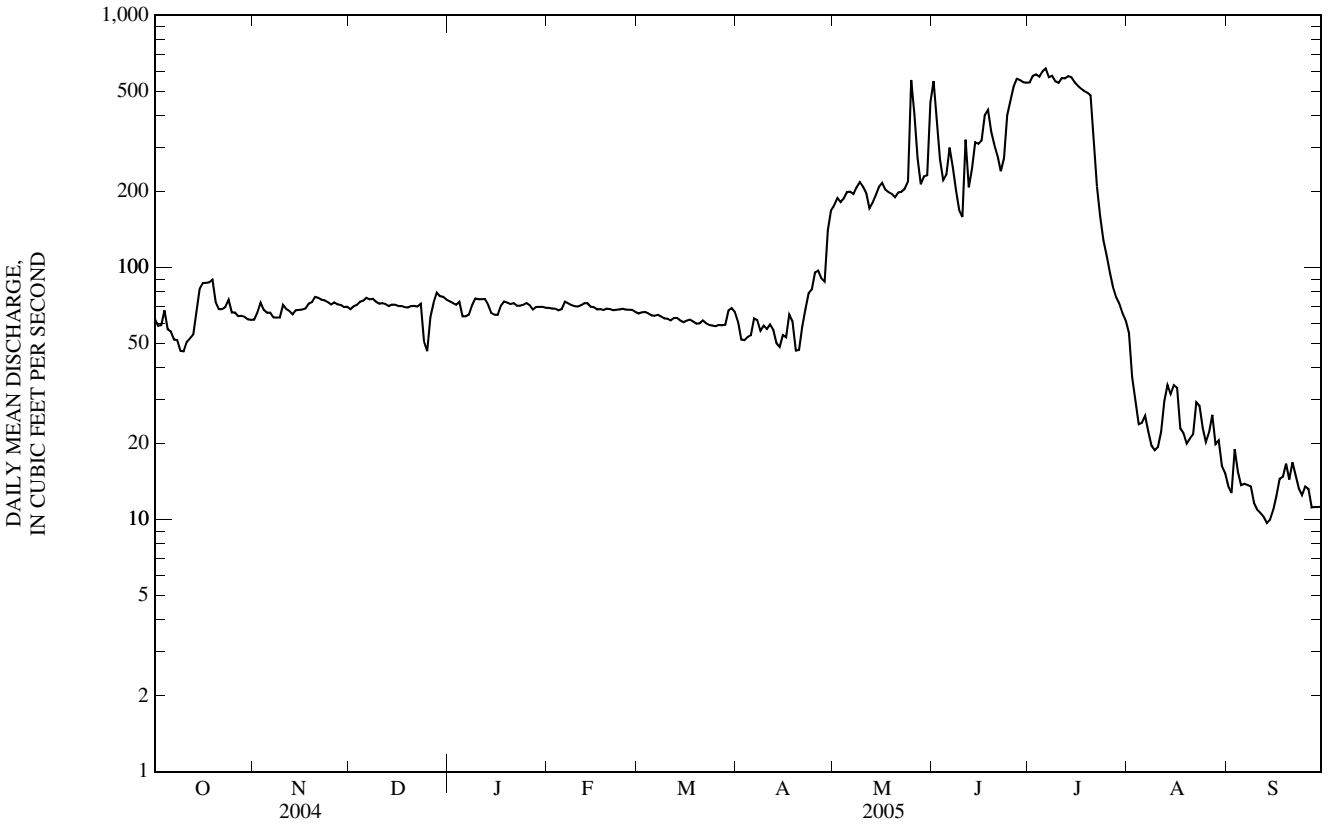
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	131	119	124	131	137	132	213	312	475	353	319	174
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL MEAN	89.7		124		219	
HIGHEST ANNUAL MEAN					1,012	1965
LOWEST ANNUAL MEAN					19.8	1979
HIGHEST DAILY MEAN	792	Jun 21	615	Jul 6	101,000	Jun 18, 1965
LOWEST DAILY MEAN	13	Mar 27	9.7	Sep 13	0.00	Jul 9, 1954
ANNUAL SEVEN-DAY MINIMUM	15	Jun 1	11	Sep 9	0.00	Jul 9, 1954
MAXIMUM PEAK FLOW			765	May 25	158,000	Jun 17, 1965
MAXIMUM PEAK STAGE			5.20	May 25	14.80	Jun 17, 1965
INSTANTANEOUS LOW FLOW			8.7	Sep 13	0.00	many years
ANNUAL RUNOFF (AC-FT)	65,100		90,060		158,500	
10 PERCENT EXCEEDS	158		320		453	
50 PERCENT EXCEEDS	64		69		123	
90 PERCENT EXCEEDS	26		20		11	

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.--Records good. 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, -0.2°C, Jan. 5, 2005.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 4,940 microsiemens/cm, Dec. 24; minimum, 1,430 microsiemens/cm, June 11.
WATER TEMPERATURE: Maximum, 31.8°C, Aug. 9; minimum, -0.2°C, Jan. 5.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4,400	4,320	4,350	4,440	4,380	4,410	---	---	---	4,480	4,450	4,470
2	4,500	4,400	4,450	---	---	---	4,560	4,450	4,520	4,490	4,470	4,480
3	4,500	4,380	4,440	---	---	---	4,550	4,430	4,500	4,490	4,470	4,480
4	4,390	3,540	4,090	---	---	---	4,510	4,420	4,470	4,480	4,380	4,450
5	4,300	3,960	4,170	---	---	---	4,460	4,410	4,430	4,680	4,470	4,570
6	4,400	4,300	4,350	---	---	---	4,460	4,400	4,430	4,860	4,580	4,710
7	4,420	4,320	4,370	---	---	---	4,470	4,400	4,440	4,690	4,440	4,570
8	4,420	4,360	4,380	---	---	---	4,460	4,410	4,430	4,510	4,330	4,460
9	4,460	4,360	4,410	---	---	---	4,450	4,410	4,430	4,440	4,330	4,410
10	4,520	4,440	4,470	---	---	---	4,460	4,410	4,430	4,440	4,420	4,430
11	4,460	4,350	4,430	---	---	---	4,460	4,400	4,430	4,460	4,440	4,450
12	4,420	4,350	4,380	---	---	---	4,430	4,400	4,410	4,470	4,460	4,470
13	4,430	4,370	4,410	---	---	---	4,450	4,410	4,430	4,530	4,440	4,480
14	4,410	4,340	4,390	---	---	---	4,500	4,380	4,440	4,660	4,480	4,560
15	4,340	4,170	4,280	---	---	---	4,420	4,340	4,380	4,780	4,570	4,670
16	4,170	4,080	4,120	---	---	---	4,340	4,300	4,320	4,600	4,480	4,560
17	4,140	4,090	4,120	---	---	---	4,360	4,300	4,330	4,520	4,290	4,450
18	4,200	4,140	4,160	---	---	---	4,340	4,290	4,320	4,490	4,300	4,440
19	4,350	4,160	4,220	---	---	---	4,340	4,280	4,310	4,470	4,420	4,440
20	4,560	4,280	4,460	---	---	---	4,320	4,250	4,290	4,480	4,430	4,450
21	4,650	4,520	4,610	---	---	---	4,430	4,270	4,350	4,470	4,430	4,450
22	4,660	4,600	4,630	---	---	---	4,450	4,390	4,410	4,450	4,410	4,430
23	4,660	4,610	4,640	---	---	---	4,590	4,400	4,440	4,470	4,390	4,430
24	4,610	4,530	4,570	---	---	---	4,940	4,590	4,780	4,430	4,390	4,410
25	4,660	4,500	4,570	---	---	---	4,790	4,500	4,700	4,410	4,380	4,400
26	4,520	4,460	4,500	---	---	---	4,500	---	4,410	4,480	4,410	4,440
27	4,540	4,490	4,510	---	---	---	---	---	---	4,500	4,480	4,490
28	4,540	4,490	4,520	---	---	---	---	---	---	4,510	4,460	4,480
29	4,530	4,500	4,520	---	---	---	4,400	4,340	4,370	4,470	4,430	4,450
30	4,510	4,480	4,500	---	---	---	4,390	4,370	4,380	4,460	4,440	4,450
31	4,480	4,440	4,470	---	---	---	4,470	4,390	4,420	4,480	4,450	4,460
MONTH	4,660	3,540	4,400	4,440	4,380	4,410	4,940	4,250	4,430	4,860	4,290	4,480

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4,490	4,460	4,480	4,370	4,330	4,350	4,440	4,260	4,320	2,700	2,500	2,570
2	4,510	4,450	4,480	4,360	4,310	4,330	4,670	4,440	4,530	2,720	2,650	2,680
3	4,500	4,430	4,460	4,350	4,300	4,330	4,670	4,490	4,540	2,760	2,710	2,730
4	4,500	4,440	4,470	4,380	4,330	4,360	4,590	4,480	4,520	2,760	2,610	2,650
5	4,490	4,440	4,470	4,400	4,340	4,380	4,590	4,240	4,440	2,630	2,580	2,600
6	4,460	4,240	4,320	4,390	4,340	4,370	4,360	4,220	4,290	2,670	2,610	2,630
7	4,390	4,300	4,350	4,420	4,340	4,380	4,390	4,260	4,350	2,690	2,640	2,660
8	4,400	4,350	4,370	4,410	4,350	4,370	4,520	4,320	4,370	2,680	2,620	2,660
9	4,450	4,380	4,420	4,360	4,330	4,350	4,520	4,300	4,380	2,660	2,600	2,630
10	4,460	4,390	4,420	4,390	4,330	4,360	4,500	4,330	4,440	2,630	2,600	2,620
11	4,420	4,350	4,390	4,390	4,350	4,380	4,430	4,340	4,380	2,780	2,580	2,640
12	4,400	4,370	4,380	4,400	4,330	4,360	4,460	4,350	4,400	2,840	2,770	2,810
13	4,440	4,370	4,400	4,390	4,320	4,350	4,640	4,450	4,540	2,800	2,700	2,750
14	4,440	4,410	4,430	4,350	4,320	4,340	4,640	4,510	4,580	2,700	2,640	2,680
15	4,440	4,410	4,430	4,340	4,310	4,330	4,570	4,090	4,250	2,640	2,510	2,570
16	4,430	4,390	4,420	4,340	4,300	4,330	4,460	4,120	4,290	2,570	2,520	2,540
17	4,400	4,350	4,370	4,360	4,320	4,340	4,520	4,260	4,430	2,600	2,520	2,580
18	4,380	4,340	4,360	4,370	4,330	4,350	4,550	4,340	4,440	2,650	2,580	2,610
19	4,380	4,350	4,360	4,380	4,320	4,360	4,700	4,490	4,580	2,630	2,580	2,610
20	4,390	4,360	4,380	4,400	4,340	4,380	4,810	4,610	4,700	2,660	2,570	2,610
21	4,390	4,360	4,380	4,390	4,320	4,350	4,640	4,250	4,480	2,590	2,500	2,550
22	4,390	4,360	4,370	4,370	4,320	4,350	4,620	4,170	4,470	2,520	2,480	2,500
23	4,370	4,310	4,340	4,370	4,330	4,350	4,400	3,910	4,100	2,520	2,450	2,490
24	4,340	4,300	4,320	4,340	4,310	4,320	3,910	3,660	3,820	---	---	---
25	4,380	4,300	4,340	4,330	4,310	4,320	3,660	3,460	3,550	---	---	---
26	4,370	4,340	4,360	4,330	4,250	4,290	3,580	3,440	3,520	---	---	---
27	4,370	4,340	4,350	4,330	4,260	4,300	3,770	3,450	3,590	3,170	2,430	2,830
28	4,380	4,330	4,350	4,340	4,290	4,320	3,620	3,420	3,510	3,310	3,170	3,240
29	---	---	---	4,390	4,270	4,330	3,560	2,510	2,970	3,200	2,650	3,010
30	---	---	---	4,440	4,300	4,340	2,560	2,500	2,530	3,180	2,540	2,850
31	---	---	---	4,370	4,140	4,250	---	---	---	2,800	1,540	2,180
MONTH	4,510	4,240	4,390	4,440	4,140	4,340	4,810	2,500	4,180	3,310	1,540	2,660

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2,180	1,720	1,980	1,980	1,910	1,940	4,210	4,060	4,130	---	---	---
2	3,070	2,180	2,640	1,960	1,820	1,910	4,280	4,140	4,210	---	---	---
3	3,450	3,070	3,290	1,900	1,820	1,860	4,310	4,200	4,250	---	---	---
4	3,730	3,420	3,620	1,910	1,880	1,890	4,300	4,230	4,260	---	---	---
5	3,730	2,630	3,390	1,940	1,770	1,910	4,270	4,180	4,240	---	---	---
6	2,630	2,470	2,510	1,950	1,770	1,900	4,280	4,130	4,200	---	---	---
7	3,340	2,540	2,960	1,970	1,900	1,930	4,260	4,150	4,200	---	---	---
8	3,680	3,340	3,510	1,990	1,940	1,970	4,310	4,160	4,220	4,240	---	---
9	3,890	3,680	3,770	1,960	1,920	1,940	4,260	4,130	4,200	4,280	4,110	4,200
10	3,960	3,520	3,870	1,980	1,880	1,940	4,320	4,160	4,220	4,260	4,220	4,230
11	3,570	1,430	2,510	1,920	1,820	1,860	4,170	3,890	4,120	4,250	4,200	4,220
12	3,420	2,920	3,230	1,900	1,840	1,860	3,960	3,800	3,850	4,270	4,190	4,230
13	3,380	2,320	2,840	1,850	1,820	1,830	3,830	3,760	3,790	4,240	4,090	4,200
14	2,490	2,300	2,420	1,850	1,810	1,830	3,820	3,710	3,760	4,220	3,940	4,160
15	2,540	2,440	2,480	1,810	1,790	1,800	3,880	3,760	3,820	4,200	3,980	4,150
16	2,540	2,340	2,460	1,850	1,790	1,820	3,890	3,720	3,820	4,240	4,050	4,160
17	2,340	2,050	2,140	1,820	1,780	1,810	4,110	3,820	3,990	4,140	4,010	4,090
18	2,220	2,100	2,160	1,840	1,780	1,800	4,140	3,780	3,990	4,130	4,010	4,090
19	2,560	2,220	2,420	1,880	1,830	1,850	4,070	3,860	4,000	4,200	4,010	4,080
20	2,550	2,520	2,540	2,090	1,820	1,870	4,000	3,850	3,940	4,260	4,030	4,140
21	2,650	2,540	2,590	2,690	2,090	2,490	4,080	3,840	3,960	4,200	4,000	4,090
22	2,680	2,610	2,640	3,040	2,690	2,900	3,880	3,260	3,740	4,230	4,120	4,160
23	2,710	2,050	2,480	3,400	3,020	3,220	3,780	3,380	3,610	4,210	4,140	4,170
24	2,050	1,970	2,000	3,520	3,360	3,430	4,100	3,750	3,830	4,250	4,100	4,200
25	2,000	1,930	1,970	3,620	3,460	3,530	---	---	---	4,200	4,120	4,170
26	1,990	1,880	1,930	3,700	3,530	3,620	---	---	---	4,220	3,970	4,130
27	1,960	1,880	1,930	3,790	3,580	3,670	---	---	---	4,290	4,040	4,180
28	2,020	1,930	1,950	3,890	3,740	3,810	---	---	---	4,280	4,150	4,220
29	2,020	1,900	1,950	3,980	3,860	3,910	---	---	---	4,270	4,190	4,230
30	1,940	1,880	1,920	4,100	3,940	4,030	---	---	---	4,280	4,190	4,220
31	---	---	---	4,160	4,010	4,080	---	---	---	---	---	---
MONTH	3,960	1,430	2,600	4,160	1,770	2,460	4,320	3,260	4,010	4,290	3,940	4,170
YEAR	4,940	1,430	3,820									

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.6	13.2	14.6	9.0	4.2	6.4	5.1	0.0	---	9.7	5.0	6.9
2	20.1	10.0	14.5	10.3	3.5	6.3	5.6	0.0	2.5	6.2	4.1	4.7
3	21.4	11.9	16.3	10.3	2.3	6.2	6.0	0.0	2.8	5.2	3.9	4.4
4	17.7	13.2	15.4	12.3	5.2	8.3	7.0	0.9	3.7	4.4	0.2	2.8
5	17.4	12.2	14.7	13.1	5.7	9.2	8.2	3.8	5.5	0.2	-0.2	-0.1
6	21.7	13.8	17.0	12.5	5.7	9.0	7.6	2.7	4.9	0.4	-0.1	0.0
7	22.0	12.7	17.0	13.3	6.0	9.4	7.1	1.8	4.4	4.3	-0.1	1.5
8	20.6	12.3	16.2	14.0	7.8	10.4	8.0	3.0	5.3	5.6	0.0	2.2
9	20.0	11.3	15.5	14.9	9.0	11.6	8.4	3.8	5.9	8.4	2.4	5.0
10	19.7	12.4	15.6	11.9	7.3	10.2	8.4	3.1	5.7	6.1	4.1	4.8
11	15.4	13.9	14.6	10.6	6.0	7.9	9.0	3.3	6.1	4.3	3.4	3.8
12	19.7	12.3	15.2	8.0	5.7	6.7	8.9	4.5	6.4	3.6	2.4	3.0
13	15.0	9.2	11.8	7.2	5.2	6.4	7.2	3.7	5.4	5.4	-0.1	2.4
14	12.9	6.7	9.7	7.4	5.2	6.2	6.6	1.1	3.7	1.8	-0.1	0.1
15	16.8	10.0	12.7	9.9	5.6	7.5	7.0	2.1	4.5	0.0	-0.1	-0.1
16	17.2	10.6	13.2	12.3	6.6	9.3	7.8	3.3	5.2	2.1	-0.1	0.9
17	17.2	11.0	13.7	11.3	9.7	10.5	6.6	1.6	4.2	6.3	0.8	2.8
18	18.8	11.2	14.5	11.1	8.0	9.8	6.9	2.3	4.4	7.3	0.9	3.8
19	16.1	12.4	14.0	10.4	7.1	8.3	6.8	1.7	4.2	9.0	3.4	5.8
20	18.2	12.5	14.4	8.0	6.0	6.9	7.6	2.2	4.5	10.6	3.6	6.8
21	19.3	12.2	15.1	6.7	5.3	6.0	5.2	2.8	4.0	10.7	4.3	7.2
22	16.6	12.4	14.3	9.8	6.1	7.5	4.4	2.2	3.3	8.8	4.4	6.2
23	16.4	8.6	12.2	7.1	4.5	5.2	2.6	-0.1	0.7	8.3	1.4	4.7
24	16.2	8.2	11.9	8.1	3.1	5.5	1.8	-0.1	0.6	10.6	3.4	6.7
25	15.8	8.9	12.1	9.2	3.3	6.1	4.7	0.1	2.0	11.6	5.5	8.2
26	17.3	10.1	13.4	9.2	5.3	7.1	5.2	0.0	2.2	9.2	4.1	6.8
27	18.7	11.6	14.7	7.6	3.7	5.8	5.9	0.7	2.8	7.1	5.2	6.1
28	18.9	14.2	16.1	6.7	3.4	4.6	6.8	0.9	3.5	5.5	4.0	4.9
29	15.5	10.7	13.0	4.5	1.7	3.2	8.4	2.4	5.2	9.7	4.2	6.5
30	14.3	7.1	10.5	4.5	-0.1	---	9.7	5.8	7.4	7.0	5.0	5.6
31	12.5	7.0	9.6	---	---	---	7.8	4.4	6.1	6.9	4.4	5.5
MONTH	22.0	6.7	14.0	14.9	-0.1	7.5	9.7	-0.1	4.2	11.6	-0.2	4.2

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.2	3.2	4.6	12.3	3.0	7.3	17.2	4.4	10.1	12.5	9.8	10.8
2	9.5	2.4	5.6	12.9	4.6	8.3	20.4	6.2	12.7	12.6	8.9	10.6
3	9.9	2.5	5.9	14.0	4.0	8.8	16.1	8.8	12.4	16.4	9.2	12.6
4	10.1	2.2	6.0	15.3	5.1	9.9	20.4	8.2	13.7	19.5	11.1	15.0
5	10.3	3.8	7.0	14.5	6.0	10.1	14.2	9.5	11.5	21.5	14.0	17.6
6	8.0	3.7	5.5	16.3	6.5	10.9	17.9	8.1	12.1	22.3	15.9	18.8
7	4.2	2.9	3.4	13.9	6.9	10.2	20.9	7.7	13.6	21.2	15.1	18.2
8	5.2	1.8	3.3	10.0	5.4	7.8	17.9	9.5	13.6	20.1	14.2	17.4
9	8.3	0.3	4.0	14.9	5.2	9.4	21.2	8.4	14.1	22.6	15.0	18.7
10	9.0	1.7	5.1	13.9	6.7	10.2	18.7	9.4	13.4	22.6	15.9	19.4
11	10.1	3.4	6.6	14.8	5.0	9.8	12.8	6.8	9.4	23.7	16.5	19.9
12	11.5	7.1	9.2	16.5	6.1	10.9	18.2	5.8	11.4	22.0	14.0	18.1
13	13.2	7.2	9.9	10.0	6.9	8.2	21.5	7.9	14.0	20.9	15.9	18.4
14	13.7	5.0	9.1	8.2	4.9	6.4	19.6	10.7	14.6	19.9	14.3	17.4
15	11.0	5.6	8.2	11.1	4.6	7.4	20.6	11.2	15.2	20.9	15.2	17.9
16	7.4	4.2	5.6	13.9	2.5	7.9	23.6	11.8	17.1	23.5	15.2	19.2
17	10.8	3.5	6.4	13.3	4.3	8.8	20.9	13.1	17.0	21.6	17.1	19.5
18	7.4	4.1	6.1	14.7	6.0	9.9	23.9	11.4	17.1	22.8	15.4	18.9
19	13.5	5.8	9.0	14.7	4.9	9.5	25.0	12.6	18.0	25.0	16.6	20.7
20	13.8	6.6	10.1	17.7	6.1	11.2	25.5	11.5	17.9	25.7	19.0	22.4
21	14.4	7.1	10.2	11.9	6.3	8.8	23.0	11.4	16.9	25.9	19.0	22.2
22	10.0	6.0	7.0	14.0	5.0	8.8	19.7	9.7	14.6	25.1	19.0	22.1
23	6.8	4.7	5.8	9.0	6.7	7.6	20.5	9.7	14.7	27.4	20.2	23.4
24	11.8	2.2	6.5	9.9	5.5	7.4	15.2	9.4	12.2	27.1	20.6	23.6
25	10.8	3.5	7.0	8.4	5.5	6.8	14.9	9.7	11.6	22.1	17.3	18.4
26	13.5	4.8	8.6	8.7	4.8	6.3	17.0	8.2	12.6	21.6	16.4	18.7
27	8.8	5.4	6.9	15.9	3.1	8.9	19.9	10.1	14.9	23.2	17.2	20.0
28	11.2	2.6	6.5	14.9	6.2	10.7	15.1	8.4	10.9	23.8	18.3	20.7
29	---	---	---	16.9	9.1	12.5	9.7	6.8	8.2	20.1	16.8	17.8
30	---	---	---	18.2	8.1	12.6	15.4	6.6	10.6	16.8	14.2	14.9
31	---	---	---	12.2	6.9	9.1	---	---	---	17.2	13.9	15.2
MONTH	14.4	0.3	6.8	18.2	2.5	9.1	25.5	4.4	13.5	27.4	8.9	18.3

07137500 ARKANSAS RIVER NEAR COOLIDGE, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.6	15.4	18.2	27.2	22.6	24.9	30.2	19.8	24.3	24.8	15.0	19.0
2	24.0	18.6	21.1	27.3	22.3	24.8	29.5	18.8	23.5	27.2	15.8	20.3
3	22.4	17.8	18.9	28.0	23.0	25.3	29.8	18.4	23.4	27.9	17.0	21.3
4	23.4	16.1	19.3	26.8	22.2	24.4	24.1	18.0	20.6	28.6	17.2	21.8
5	23.9	15.5	19.7	26.1	21.8	23.8	26.1	16.9	20.2	29.3	17.9	22.6
6	25.2	18.6	21.9	26.6	20.9	23.6	29.4	18.2	22.8	29.9	18.1	22.8
7	25.7	18.2	21.8	27.9	22.5	25.1	30.6	18.2	23.1	30.2	18.4	22.5
8	24.8	17.6	21.3	28.0	23.6	25.9	31.6	18.9	24.1	28.9	18.0	22.4
9	27.2	17.6	22.1	27.9	24.0	26.0	31.8	19.2	24.3	27.6	16.5	20.9
10	23.4	18.4	20.4	26.9	23.0	25.0	31.4	20.2	24.3	27.8	15.6	20.6
11	24.4	14.3	18.9	27.5	22.4	24.9	29.4	20.2	24.1	27.0	17.0	20.8
12	22.4	18.4	19.8	28.1	23.9	25.8	23.3	20.4	21.8	26.8	16.5	20.5
13	23.5	15.6	19.3	28.6	24.0	26.2	23.5	19.0	20.7	26.4	14.0	19.1
14	25.3	17.8	21.4	28.5	24.2	26.4	22.0	16.9	18.8	23.6	14.0	17.4
15	25.6	19.8	22.5	28.4	23.9	---	27.0	16.7	20.8	26.1	13.2	18.0
16	27.4	20.0	23.3	28.1	23.8	25.9	27.5	18.8	22.3	26.4	13.9	19.0
17	26.7	20.8	23.7	28.5	22.9	25.7	31.1	18.4	23.9	26.7	15.4	20.1
18	27.6	22.1	24.6	27.2	22.4	24.8	30.7	18.1	23.9	27.4	12.9	19.4
19	29.2	23.0	25.9	28.9	23.6	26.1	29.4	19.7	23.3	27.0	16.5	20.6
20	30.2	23.6	26.7	29.5	24.3	26.7	22.7	19.6	21.3	27.3	14.6	20.4
21	29.5	23.8	26.6	28.8	23.6	26.2	28.3	18.9	22.4	26.1	17.0	20.8
22	29.3	23.1	26.1	29.4	22.7	25.9	29.4	19.2	23.1	22.6	15.1	18.3
23	29.0	22.0	25.4	28.8	22.3	25.4	29.5	18.2	23.0	26.1	15.4	19.8
24	28.8	22.8	25.7	30.6	21.4	25.4	30.7	18.8	24.0	26.9	15.7	20.4
25	27.2	23.2	25.1	30.7	22.5	26.2	31.4	19.0	24.5	26.5	14.9	19.9
26	26.6	21.5	23.9	25.8	21.1	22.8	30.3	18.6	23.9	26.2	15.1	19.4
27	27.7	21.4	24.2	27.2	17.9	22.2	30.9	19.6	23.6	25.9	14.0	19.3
28	28.4	23.2	25.6	28.2	18.4	22.8	29.0	17.9	22.6	20.6	14.3	17.5
29	28.6	23.2	25.8	27.8	17.9	22.5	29.6	17.4	22.6	21.3	11.5	15.6
30	26.8	22.2	24.8	28.3	18.2	22.8	29.0	17.1	22.2	24.8	12.3	17.5
31	---	---	---	30.2	19.1	24.1	24.4	15.6	19.6	---	---	---
MONTH	30.2	14.3	22.8	30.7	17.9	24.9	31.8	15.6	22.7	30.2	11.5	19.9
YEAR	31.8	-0.2	14.1									

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	56	62	69	67	66	64	160	444	472	74	17
2	59	55	65	67	67	66	60	168	406	484	64	15
3	57	60	68	66	67	66	53	173	300	516	53	15
4	59	62	68	67	67	67	52	169	251	503	47	16
5	60	61	69	64	68	66	55	175	215	532	44	16
6	59	61	69	63	72	66	63	183	251	583	39	15
7	59	60	69	60	70	66	62	186	261	541	35	16
8	53	60	69	63	69	65	64	190	213	527	32	15
9	49	61	69	68	69	64	58	198	184	522	28	13
10	46	66	67	68	68	63	58	199	160	506	26	11
11	45	64	68	67	68	62	57	196	228	514	25	9.6
12	46	62	68	68	70	63	56	171	220	527	37	9.2
13	47	62	67	66	71	63	54	161	205	532	32	8.4
14	44	62	66	64	70	62	50	170	251	528	34	7.8
15	55	62	66	62	68	62	48	183	283	515	35	8.3
16	60	63	65	60	67	61	49	195	282	492	32	8.0
17	68	63	65	62	67	61	49	193	310	476	30	7.2
18	69	65	65	67	67	61	63	184	357	462	27	7.0
19	68	66	65	67	69	59	57	185	349	457	25	7.1
20	69	66	66	68	69	59	47	180	296	457	24	7.8
21	65	68	64	68	69	61	45	177	273	392	24	7.6
22	62	69	63	67	68	61	53	176	247	276	24	7.5
23	60	69	63	67	68	59	61	172	231	211	28	7.5
24	61	68	e60	67	68	59	68	182	298	173	26	7.2
25	64	66	e54	68	68	58	72	281	366	151	24	6.6
26	60	67	47	68	68	57	78	406	423	138	23	7.8
27	59	66	60	68	68	58	79	305	469	124	24	8.1
28	57	66	74	68	67	58	81	245	496	112	26	6.7
29	56	64	73	67	---	59	87	237	477	101	23	6.6
30	55	62	71	68	---	66	131	232	472	91	20	6.4
31	56	---	69	67	---	68	---	284	---	82	18	---
MEAN	57.7	63.4	65.6	66.1	68.4	62.3	62.5	204	307	387	32.4	10.0
MAX	69	69	74	69	72	68	131	406	496	583	74	17
MIN	44	55	47	60	67	57	45	160	160	82	18	6.4
AC-FT	3,550	3,770	4,030	4,060	3,800	3,830	3,720	12,530	18,280	23,800	1,990	598

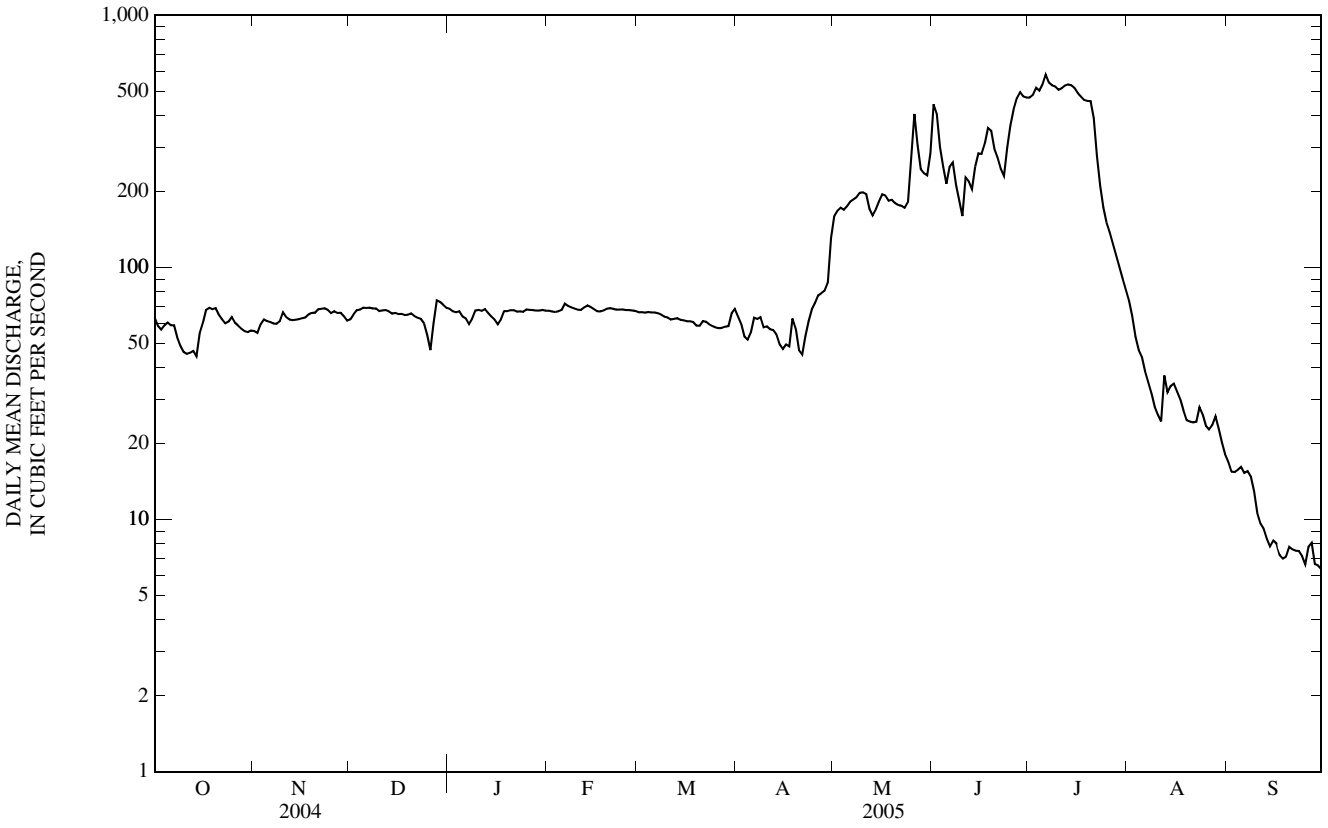
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2005, BY WATER YEAR (WY)

MEAN	189	147	147	159	163	142	288	443	774	445	472	233
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1903 - 2005	
ANNUAL MEAN	81.5		116		290	
HIGHEST ANNUAL MEAN					1,950	1942
LOWEST ANNUAL MEAN					14.0	1979
HIGHEST DAILY MEAN	547	Jun 22	583	Jul 6	109,000	Jun 18, 1965
LOWEST DAILY MEAN	12	Jun 9	6.4	Sep 30	0.03	Sep 27, 1974
ANNUAL SEVEN-DAY MINIMUM	13	Jun 9	7.1	Sep 24	0.06	Sep 21, 1974
MAXIMUM PEAK FLOW			615	Jul 6	174,000	Jun 17, 1965
MAXIMUM PEAK STAGE			5.89	Jul 6	19.75	Jun 17, 1965
INSTANTANEOUS LOW FLOW			5.7	Sep 29	0.00	Aug 17, 1946
ANNUAL RUNOFF (AC-FT)	59,160		83,960		210,200	
10 PERCENT EXCEEDS	151		297		508	
50 PERCENT EXCEEDS	60		66		125	
90 PERCENT EXCEEDS	24		24		7.4	

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 3,118.79 ft above NGVD of 1929.

REMARKS.--Records good except those for period of June 8 to Sept. 27, which are fair, and 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	56	62	69	74	72	62	108	323	393	94	32
2	55	56	62	71	74	70	60	123	377	395	86	31
3	54	55	64	70	73	70	59	137	319	410	77	31
4	53	58	64	71	72	70	56	141	272	416	71	29
5	55	58	64	e66	74	69	57	146	241	432	67	28
6	55	58	65	e58	77	68	62	153	232	455	62	27
7	57	57	65	e54	77	66	59	158	254	465	57	e25
8	54	57	66	e56	76	66	61	159	234	444	53	23
9	52	58	66	e60	74	65	58	165	216	442	49	23
10	51	62	65	e68	74	65	56	174	200	429	51	22
11	53	61	66	82	74	64	55	174	195	433	43	21
12	52	61	66	81	75	64	53	169	248	442	57	20
13	52	61	65	79	75	64	52	157	215	442	51	20
14	52	61	66	75	75	63	52	157	218	446	48	21
15	54	61	67	69	75	63	50	164	253	443	48	21
16	58	61	65	52	74	63	49	179	261	426	47	21
17	61	63	66	55	75	62	48	185	269	407	45	21
18	65	63	66	67	74	62	47	177	298	395	42	20
19	66	63	66	82	75	63	55	176	317	393	39	19
20	68	64	66	77	74	62	51	174	296	385	38	18
21	66	64	66	76	74	61	48	169	269	370	37	e16
22	63	64	65	75	74	63	49	165	247	304	36	e15
23	60	65	67	74	75	62	52	164	231	251	37	e15
24	60	65	39	75	74	60	56	173	236	211	37	e14
25	61	65	38	72	73	59	61	196	293	182	36	13
26	61	65	52	76	73	58	65	297	331	163	34	e13
27	60	65	59	75	72	57	71	298	367	147	34	e13
28	60	64	63	77	72	58	73	257	395	136	34	13
29	59	64	71	76	---	58	77	233	397	122	34	12
30	58	63	70	75	---	59	85	231	392	111	33	12
31	57	---	69	74	---	61	---	248	---	102	33	---
MEAN	57.7	61.3	63.3	70.5	74.2	63.5	58.0	181	280	342	48.7	20.3
MAX	68	65	71	82	77	72	85	298	397	465	94	32
MIN	51	55	38	52	72	57	47	108	195	102	33	12
AC-FT	3,550	3,650	3,890	4,340	4,120	3,900	3,450	11,120	16,650	21,010	3,000	1,210

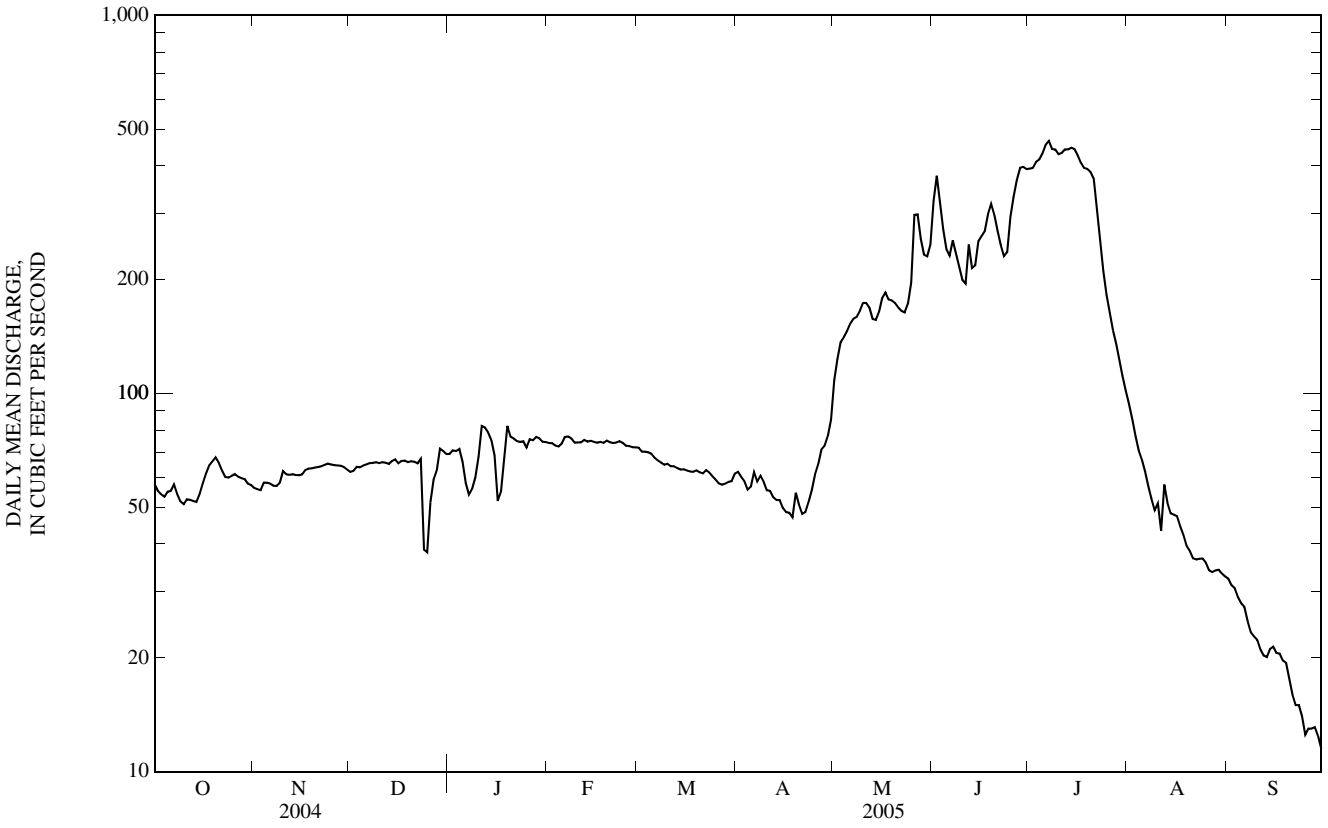
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	63.7	61.4	67.7	70.8	73.9	71.8	88.5	102	212	292	178	82.7
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL MEAN	71.1		110		103	
HIGHEST ANNUAL MEAN					251	2001
LOWEST ANNUAL MEAN					37.6	2003
HIGHEST DAILY MEAN	403	Apr 9	465	Jul 7	984	Jul 19, 2000
LOWEST DAILY MEAN	9.2	Jun 15	12	Sep 29	0.00	Oct 1, 1979
ANNUAL SEVEN-DAY MINIMUM	11	Jun 10	13	Sep 24	0.00	Oct 1, 1979
MAXIMUM PEAK FLOW			502	Jul 7	1,220	Jul 13, 1982
MAXIMUM PEAK STAGE			8.26	Jul 7	9.75	Jul 13, 1982
INSTANTANEOUS LOW FLOW			11	Sep 30	0.00	many years
ANNUAL RUNOFF (AC-FT)	51,650		79,880		74,270	
10 PERCENT EXCEEDS	129		280		248	
50 PERCENT EXCEEDS	58		65		58	
90 PERCENT EXCEEDS	23		35		4.1	

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 2004 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,075.55 ft above NGVD of 1929. Prior to April 2004, stage only gage at same site and datum.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.32	e0.51	e0.28	e0.02	70	69	63	e0.04	250	311	86	20
2	e0.28	e0.73	e0.28	e0.01	70	69	61	e0.04	258	313	29	20
3	e0.33	e0.57	e0.28	e0.04	70	69	59	e0.04	117	312	e0.04	19
4	e0.41	e0.57	e0.28	e0.04	69	68	56	e0.04	e0.22	310	e0.04	18
5	e0.35	e0.57	e0.28	e0.04	70	67	33	e0.04	e0.18	311	e0.04	17
6	e0.43	e0.57	e0.28	e0.03	76	66	e0.06	e0.04	53	313	e0.02	17
7	e0.61	e0.57	e0.28	e0.07	75	65	e0.04	e0.04	161	312	e0.01	19
8	e0.54	e0.43	e0.28	e0.10	47	65	e0.04	e0.04	112	302	e0.01	17
9	e0.46	e0.43	e0.28	e0.10	11	64	e0.04	e0.04	108	290	e0.01	11
10	e0.41	e0.47	e0.24	e0.06	53	64	e0.04	e0.04	103	277	e0.01	e0.06
11	e0.50	e0.41	e0.19	e0.04	74	63	e0.06	e0.04	106	278	e0.03	e0.04
12	e0.57	e0.41	e0.18	e0.04	75	62	e0.04	e0.04	186	280	e0.03	e0.04
13	e0.49	e0.41	e0.18	e0.04	74	62	e0.04	e0.04	189	266	e0.01	e0.02
14	e0.58	e0.41	e0.18	e0.04	73	62	e0.04	e0.04	142	263	e0.01	e0.01
15	e0.57	e0.41	e0.18	e0.04	73	62	e0.04	e0.02	171	255	e0.01	e0.04
16	e0.57	e0.30	e0.18	e0.04	72	62	e0.04	e0.01	186	229	e0.00	e0.02
17	e0.57	e0.37	e0.18	e0.04	72	62	e0.04	e0.01	192	231	e0.00	e0.04
18	e0.57	e0.41	e0.18	e0.03	71	62	e0.04	e0.01	222	228	e0.00	e0.03
19	e0.57	e0.41	e0.18	18	72	61	e0.04	e0.01	249	234	e0.00	e0.01
20	e0.57	e0.41	e0.18	58	71	60	e0.04	e0.01	240	232	e0.01	e0.01
21	e0.57	e0.41	e0.16	78	70	60	e0.04	e0.01	222	232	e0.00	e0.01
22	e0.57	e0.41	e0.10	75	69	60	e0.04	e0.01	215	230	e0.00	e0.01
23	e0.57	e0.41	e0.10	74	71	60	e0.04	e0.01	207	225	e0.05	e0.00
24	e0.46	e0.41	e0.10	73	71	59	e0.04	e0.05	197	184	15	e0.00
25	e0.55	e0.41	e0.09	72	70	58	e0.04	15	224	157	25	e0.00
26	e0.57	e0.41	e0.08	71	70	57	e0.04	103	261	142	24	e0.00
27	e0.57	e0.41	e0.04	71	70	57	e0.04	154	294	143	23	e0.00
28	e0.57	e0.41	e0.04	71	69	57	e0.04	121	313	135	23	e0.00
29	e0.57	e0.30	e0.04	71	---	57	e0.04	90	313	120	23	e0.00
30	e0.47	e0.28	e0.04	70	---	57	e0.04	160	311	106	22	e0.00
31	e0.41	---	e0.04	71	---	61	---	239	---	95	21	---
MEAN	0.50	0.44	0.17	28.2	67.8	62.2	9.10	28.5	187	236	9.40	5.28
MAX	0.61	0.73	0.28	78	76	69	63	239	313	313	86	20
MIN	0.28	0.28	0.04	0.01	11	57	0.04	0.01	0.18	95	0.00	0.00
AC-FT	31	26	11	1,730	3,760	3,820	542	1,750	11,110	14,510	578	314

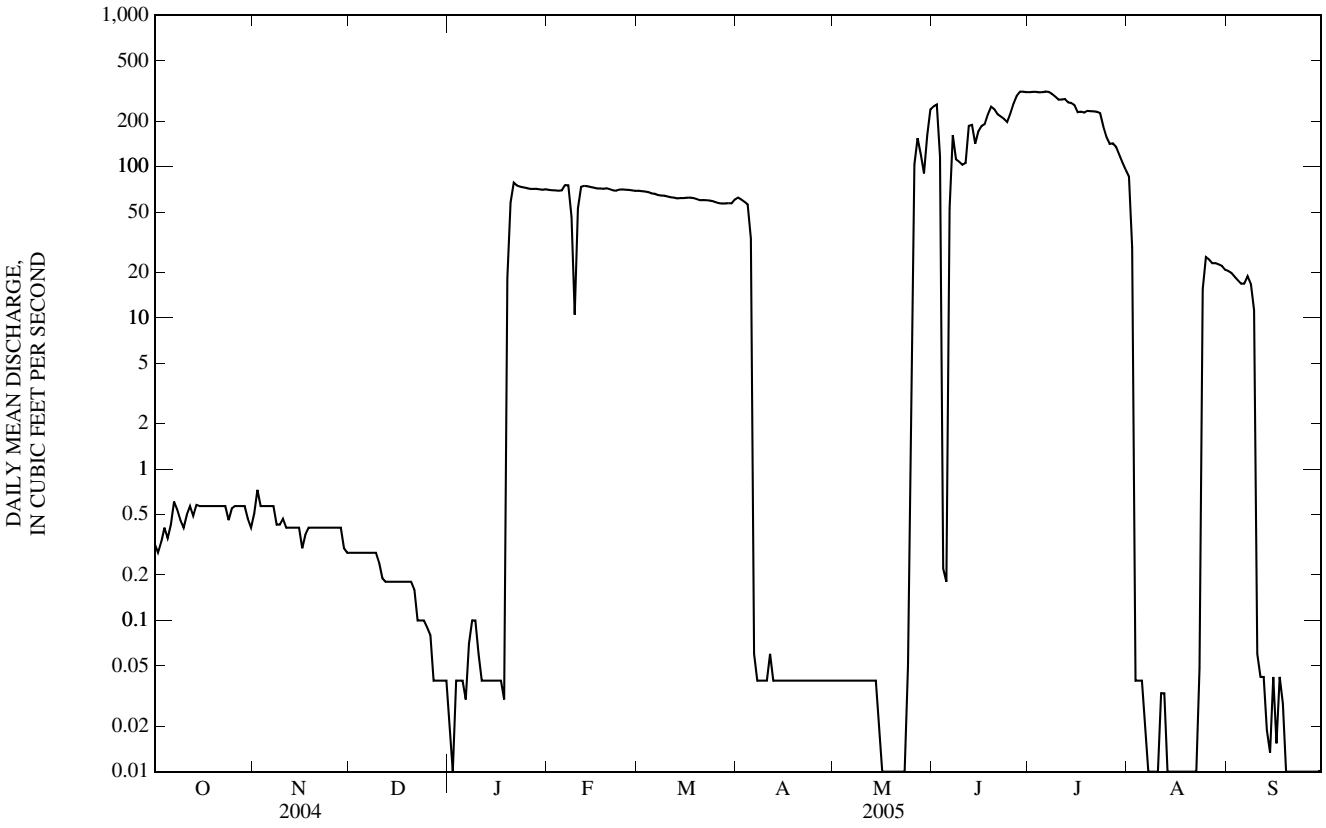
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	0.50	0.44	0.17	28.2	67.8	62.2	68.6	14.4	133	136	37.8	9.56
MAX	0.50	0.44	0.17	28.2	67.8	62.2	128	28.5	187	236	66.2	13.8
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	0.50	0.44	0.17	28.2	67.8	62.2	9.10	0.30	78.9	35.7	9.40	5.28
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2005)	(2005)

07138050 AMAZON GREAT EASTERN DITCH NEAR LAKIN, KS—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL MEAN	52.8		52.8	
HIGHEST ANNUAL MEAN			52.8	2005
LOWEST ANNUAL MEAN			52.8	2005
HIGHEST DAILY MEAN	313	Jun 28	313	Jun 28, 2005
LOWEST DAILY MEAN	0.00	Aug 16	0.00	Apr 1, 2004
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 23	0.00	Sep 23, 2005
MAXIMUM PEAK FLOW	319	Jul 7	327	Jun 22, 2004
MAXIMUM PEAK STAGE	4.78	Jul 7	4.82	Jun 22, 2004
INSTANTANEOUS LOW FLOW	0.00	Apr 14	0.00	Apr 2, 2004
ANNUAL RUNOFF (AC-FT)	38,200		38,220	
10 PERCENT EXCEEDS	218		218	
50 PERCENT EXCEEDS	0.57		0.57	
90 PERCENT EXCEEDS	0.02		0.02	

e Estimated



07138063 SOUTHSIDE DITCH NEAR LAKIN, KS

LOCATION.--Lat 37°52'20", long 101°21'30", in SW ¼ SW ¼ SW ¼ sec.14, T.25 S., R.37 W., Kearny County, Hydrologic Unit 11030001, on left bank about 2.1 mi downstream of the diversion structure on the Arkansas River and about 5.0 mi southwest of Lakin.

PERIOD OF RECORD.--October 2004 to September 2005.

GAGE.--Water-stage recorder. Datum of gage is 3,043.55 ft above NGVD of 1929. Prior to October 2004, stage only gage at same site and datum.

REMARKS.--Records good. This ditch diverts water from the Arkansas River for irrigation use. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 62 ft^3/s, June 9, 2005; no flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

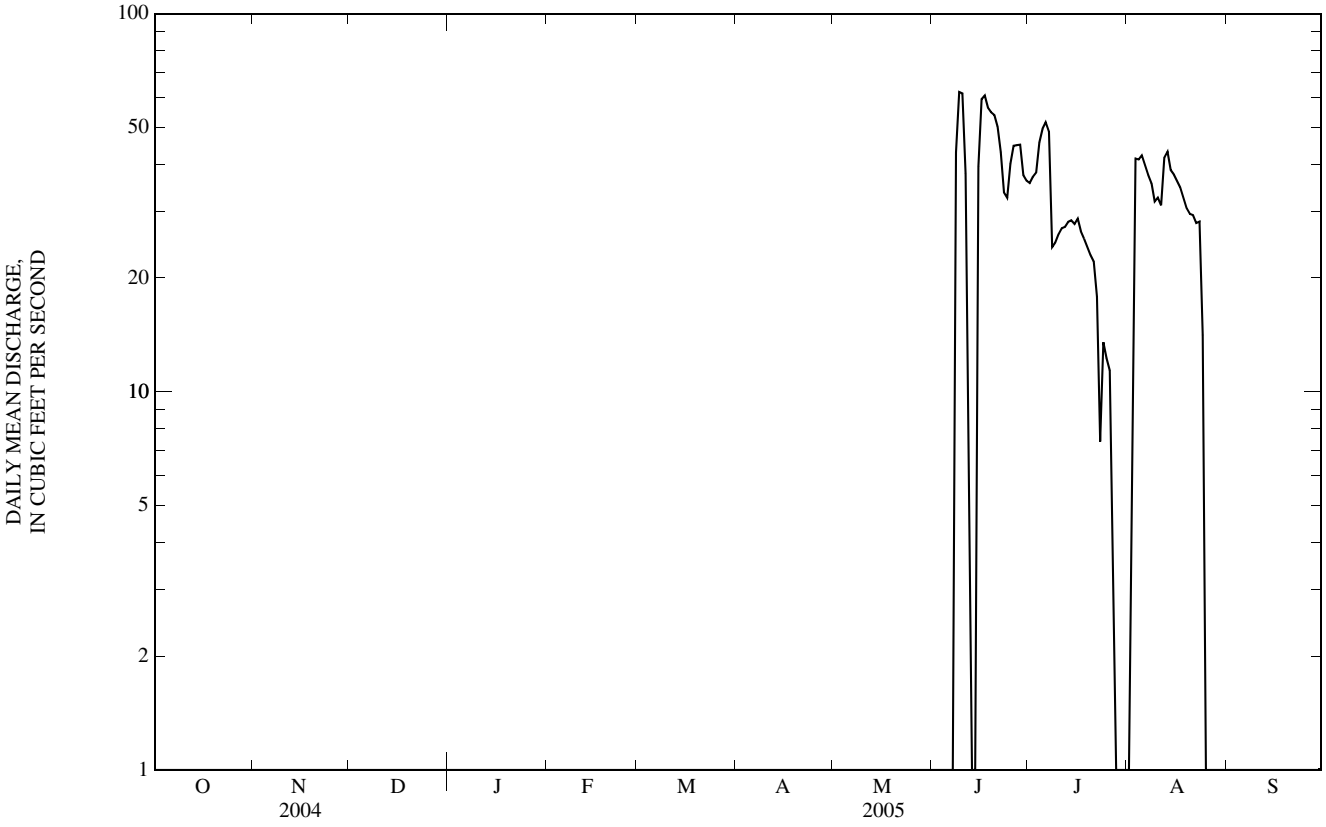
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37	14	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38	41	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46	41	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50	42	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52	40	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49	37	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43	24	36	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62	25	32	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62	26	33	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38	27	31	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	27	42	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	43	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	39	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	28	38	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59	29	36	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61	27	35	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56	25	33	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55	24	31	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54	23	30	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50	22	29	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43	18	28	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	7.4	28	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33	14	14	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40	12	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45	11	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45	4.8	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	37	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	36	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	31.8	23.8	24.9	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62	52	43	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	1,890	1,460	1,530	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.8	23.8	24.9	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.8	23.8	24.9	0.00
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.8	23.8	24.9	0.00
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

07138063 SOUTHSIDE DITCH NEAR LAKIN, KS—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR	
ANNUAL MEAN	6.75	
HIGHEST DAILY MEAN	62	Jun 9
LOWEST DAILY MEAN	0.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 1
MAXIMUM PEAK FLOW	67	Jun 9
MAXIMUM PEAK STAGE	3.38	Jun 9
INSTANTANEOUS LOW FLOW	0.00	Oct 1
ANNUAL RUNOFF (AC-FT)	4,890	
10 PERCENT EXCEEDS	35	
50 PERCENT EXCEEDS	0.00	
90 PERCENT EXCEEDS	0.00	



07138070 ARKANSAS RIVER AT DEERFIELD, KS

LOCATION.--Lat 37°58'11", long 101°07'42", in NW ¼ SW ¼ NE ¼ 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 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	8.7	e25	39	0.00	0.00	0.00	30	35	0.00	0.00	0.00
2	0.00	9.8	e24	37	0.00	0.00	0.00	38	30	0.00	0.00	0.00
3	0.00	11	e28	36	0.00	0.00	0.00	48	51	0.00	0.00	0.00
4	0.00	10	e34	37	0.00	0.00	0.00	58	146	0.01	0.00	0.00
5	0.00	11	e35	e15	0.00	0.00	0.00	65	187	6.3	0.00	0.00
6	0.00	12	33	e2.0	0.00	0.00	0.00	71	178	8.6	0.00	0.00
7	0.00	12	32	0.00	0.00	0.00	0.00	76	139	11	0.00	0.00
8	0.00	12	32	0.00	0.00	0.00	0.00	81	78	19	0.00	0.00
9	0.00	13	32	e12	0.00	0.00	0.00	85	53	32	0.00	0.00
10	0.00	14	31	e55	2.0	0.00	0.00	90	35	42	0.00	0.00
11	0.00	15	32	e57	1.4	0.00	0.00	94	27	51	0.00	0.00
12	0.00	16	31	e58	0.00	0.00	0.00	99	27	57	0.00	0.00
13	0.00	17	30	e60	0.00	0.00	1.1	99	31	62	0.00	0.00
14	0.00	18	29	e45	0.00	0.00	3.1	93	25	70	0.00	0.00
15	0.00	19	34	e24	0.00	0.00	5.1	92	31	77	0.00	0.00
16	0.00	19	33	e17	0.00	0.00	5.8	96	18	84	0.00	0.00
17	0.00	19	33	e12	0.00	0.00	7.0	102	11	95	0.00	0.00
18	0.00	21	34	e16	0.00	0.00	8.6	104	5.1	90	0.00	0.00
19	0.00	21	34	e50	0.00	0.00	9.2	104	2.1	91	0.00	0.00
20	0.52	22	35	e72	0.00	0.00	11	103	0.34	84	0.00	0.00
21	3.0	23	34	e46	0.00	0.00	12	102	0.00	77	0.00	0.00
22	4.2	24	33	23	0.00	0.00	13	99	0.00	71	0.00	0.00
23	4.5	25	e17	13	0.00	0.00	12	99	0.00	50	0.00	0.00
24	5.0	25	e6.9	8.2	0.00	0.00	14	103	0.00	27	0.00	0.00
25	5.3	26	e4.0	4.8	0.00	0.00	16	117	0.00	17	0.00	0.00
26	5.7	27	e2.0	2.3	0.00	0.00	19	113	0.00	12	0.00	0.00
27	5.8	26	26	0.87	0.00	0.00	20	102	0.00	7.7	0.00	0.00
28	5.9	27	44	0.07	0.00	0.00	23	96	0.00	3.5	0.00	0.00
29	6.5	27	46	0.00	---	0.00	24	100	0.00	0.37	0.00	0.00
30	7.1	e26	55	0.00	---	0.00	27	100	0.00	0.00	0.00	0.00
31	8.1	---	41	0.00	---	0.00	---	73	---	0.00	0.00	---
MEAN	1.99	18.6	30.3	23.9	0.12	0.00	7.70	88.1	37.0	37.0	0.00	0.00
MAX	8.1	27	55	72	2.0	0.00	27	117	187	95	0.00	0.00
MIN	0.00	8.7	2.0	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00
AC-FT	122	1,100	1,860	1,470	6.7	0.00	458	5,420	2,200	2,270	0.00	0.00

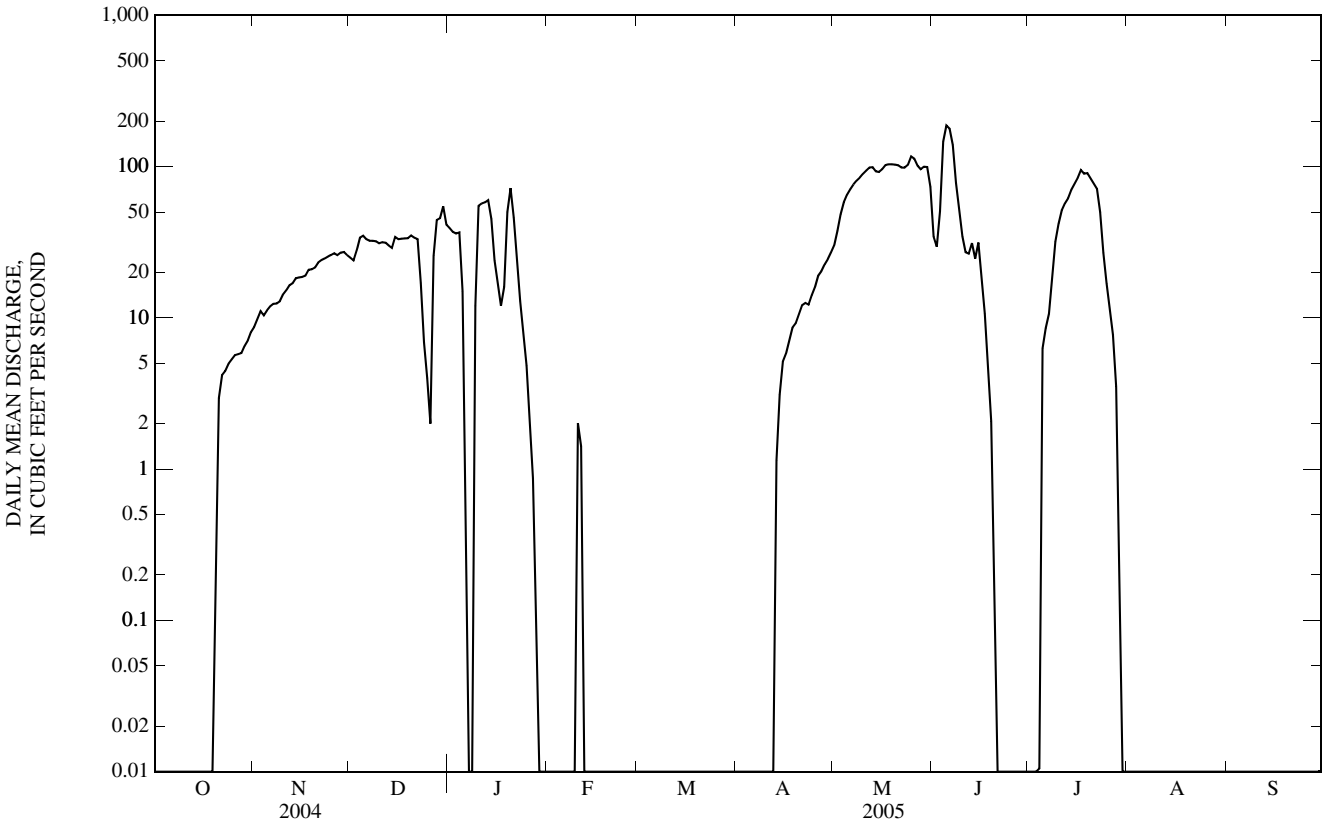
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	98.7	129	116	99.1	112	115	96.1	372	375	140	167	67.4
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	8.23		20.6		157	
HIGHEST ANNUAL MEAN					637	1999
LOWEST ANNUAL MEAN					3.59	2003
HIGHEST DAILY MEAN	124	Jun 19	187	Jun 5	2,630	Jun 13, 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	May 28, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	May 28, 2002
MAXIMUM PEAK FLOW			193	Jun 4	2,740	May 24, 1999
MAXIMUM PEAK STAGE			7.47	Jun 4	12.32	May 24, 1999
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many years
ANNUAL RUNOFF (AC-FT)	5,980		14,920		114,100	
10 PERCENT EXCEEDS	30		74		297	
50 PERCENT EXCEEDS	0.00		3.0		51	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



07138075 FARMERS DITCH NEAR DEERFIELD, KS

LOCATION.--Lat 37°59'53", long 101°03'37", in NW ¼ SE ¼ NW ¼ sec.4, T.24 S., R.34 W., Finney County, Hydrologic Unit 11030001, on left bank about 2.9 mi downstream of the diversion structure on the Arkansas River and about 4.5 mi northeast of Deerfield.

PERIOD OF RECORD.--October 2004 to September 2005.

GAGE.--Water-stage recorder. Datum of gage is 2,909.37 ft above NGVD of 1929. Prior to October 2004, stage only gage at same site and datum.

REMARKS.--Records good. This ditch diverts water from the Arkansas River for irrigation use. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 97 ft^3/s, May 25, 2005; no flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

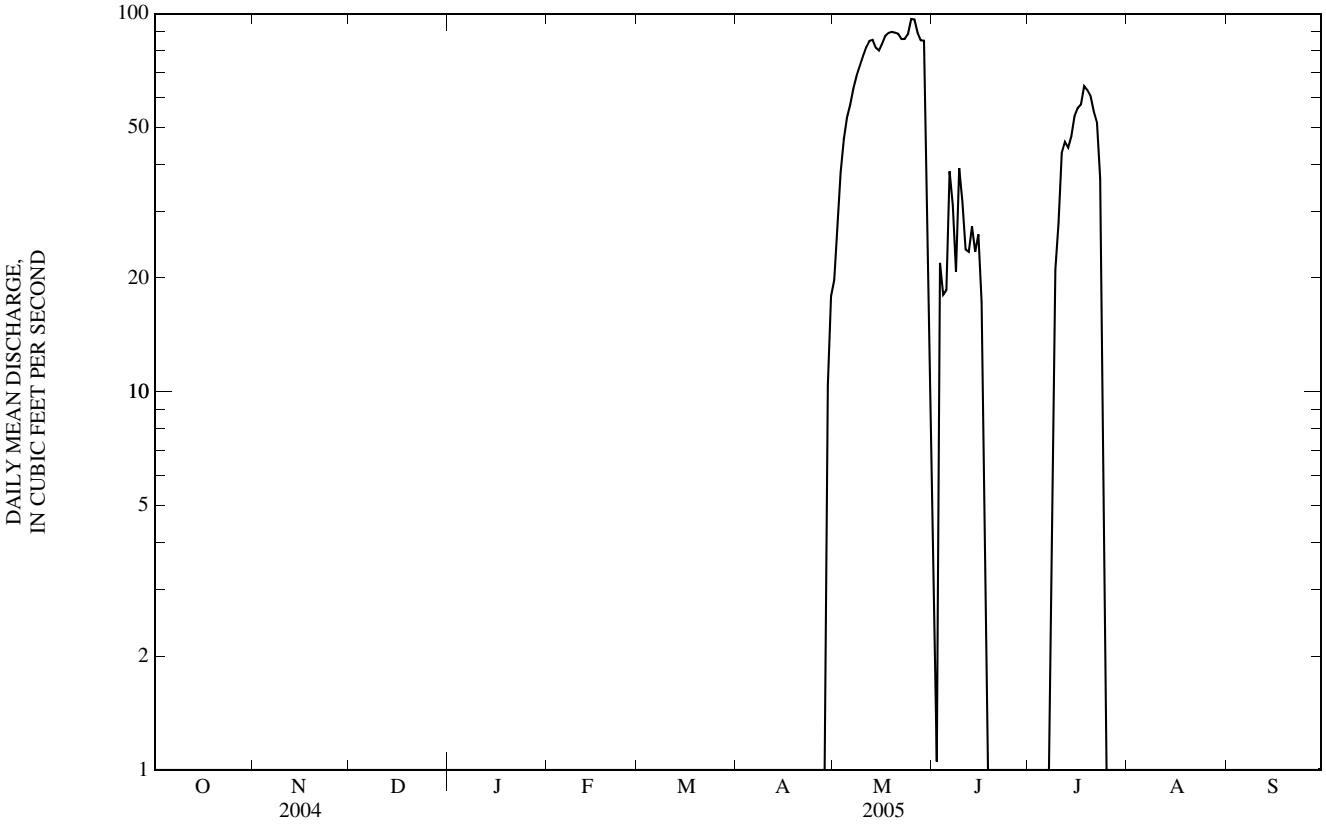
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20	1.9	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	1.1	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38	22	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47	18	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53	19	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58	38	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64	31	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69	21	8.7	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73	39	21	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77	32	28	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81	24	43	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85	23	46	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85	27	44	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81	23	47	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80	26	54	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83	17	56	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	87	5.3	58	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89	0.00	64	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90	0.00	63	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89	0.00	61	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89	0.00	55	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86	0.00	52	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86	0.00	37	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88	0.00	12	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	10	85	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	18	37	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	6.2	---	0.00	0.00	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.93	71.7	12.3	24.2	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	18	97	39	64	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	56	4,410	731	1,490	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.93	71.7	12.3	24.2	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.93	71.7	12.3	24.2	0.00	0.00
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.93	71.7	12.3	24.2	0.00	0.00
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

07138075 FARMERS DITCH NEAR DEERFIELD, KS—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR	
ANNUAL MEAN	9.23	
HIGHEST DAILY MEAN	97	May 25
LOWEST DAILY MEAN	0.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 1
MAXIMUM PEAK FLOW	101	May 26
MAXIMUM PEAK STAGE	3.65	May 26
INSTANTANEOUS LOW FLOW	0.00	Oct 1
ANNUAL RUNOFF (AC-FT)	6,680	
10 PERCENT EXCEEDS	45	
50 PERCENT EXCEEDS	0.00	
90 PERCENT EXCEEDS	0.00	



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 83, 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)
May 31	0630	*0.02	*5.36	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
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
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 1923 - 2005, BY WATER YEAR (WY)

MEAN	122	113	119	132	127	108	168	262	455	186	247	105
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1923 - 2005	
ANNUAL MEAN	0.00		0.00		179	
HIGHEST ANNUAL MEAN					1,690	1942
LOWEST ANNUAL MEAN					0.00	1992
HIGHEST DAILY MEAN	0.00	Jan 1	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			0.02	May 31	130,000	Jun 19, 1965
MAXIMUM PEAK STAGE			5.36	May 31	16.30	Jun 19, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	0.00		0.00		130,000	
10 PERCENT EXCEEDS	0.00		0.00		325	
50 PERCENT EXCEEDS	0.00		0.00		18	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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 good. 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)
Jan 31	0000	*0.00	*6.04	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	e0.00	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	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	e0.00	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	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	e0.00	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
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 - 2005, BY WATER YEAR (WY)

MEAN	88.6	75.4	78.9	89.0	108	109	140	231	377	132	95.5	67.3
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1903 - 2005	
ANNUAL MEAN	0.00		0.00		132	
HIGHEST ANNUAL MEAN					1,354	1905
LOWEST ANNUAL MEAN					0.00	1990
HIGHEST DAILY MEAN	0.00	Jan 1	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	Jan 31	82,000	Jun 19, 1965
MAXIMUM PEAK STAGE			6.04	Jan 31	14.68	Jun 19, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many years
ANNUAL RUNOFF (AC-FT)	0.00		0.00		95,900	
10 PERCENT EXCEEDS	0.00		0.00		257	
50 PERCENT EXCEEDS	0.00		0.00		30	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

07140000 ARKANSAS RIVER NEAR KINSLEY, KS

LOCATION.--Lat 37°55'40", long 99°22'29", in SW ¼ SE ¼ 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)
Feb 6	1600	*0.25	*5.30	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.08	e0.02	e0.00	e0.00	e0.00
2	e0.00	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.07	e0.02	e0.00	e0.00	e0.00
3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.07	e0.02	e0.02	e0.00	e0.00
4	e0.00	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.05	e0.01	e0.01	e0.00	e0.00
5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.05	e0.01	e0.01	e0.00	e0.00
6	e0.03	e0.00	e0.00	e0.00	e0.20	e0.10	e0.15	e0.05	e0.00	e0.00	e0.00	e0.00
7	e0.01	e0.00	e0.00	e0.00	e0.10	e0.10	e0.11	e0.05	e0.00	e0.00	e0.00	e0.00
8	e0.00	e0.00	e0.00	e0.02	e0.00	e0.10	e0.10	e0.03	e0.00	e0.00	e0.00	e0.00
9	e0.00	e0.00	e0.00	e0.05	e0.00	e0.10	e0.10	e0.02	e0.00	e0.00	e0.00	e0.00
10	e0.00	e0.00	e0.00	e0.03	e0.00	e0.10	e0.12	e0.01	e0.00	e0.00	e0.00	e0.00
11	e0.02	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.01	e0.00	e0.00	e0.00	e0.00
12	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.01	e0.00	e0.00	e0.00	e0.00
13	e0.00	e0.00	e0.00	e0.00	e0.15	e0.10	e0.10	e0.01	e0.00	e0.00	e0.00	e0.00
14	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.01	e0.00	e0.00	e0.00	e0.00
15	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.01	e0.00	e0.00	e0.00	e0.00
16	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.01	e0.00	e0.00	e0.00	e0.00
17	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.15	e0.01	e0.00	e0.00	e0.00	e0.00
18	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.15	e0.01	e0.00	e0.00	e0.00	e0.00
19	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.13	e0.00	e0.00	e0.00	e0.00	e0.00
20	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.11	e0.00	e0.00	e0.00	e0.00	e0.00
21	e0.00	e0.00	e0.00	e0.00	e0.10	e0.12	e0.10	e0.00	e0.00	e0.00	e0.00	e0.00
22	e0.00	e0.00	e0.00	e0.00	e0.10	e0.11	e0.10	e0.00	e0.00	e0.00	e0.00	e0.00
23	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.00	e0.00	e0.00	e0.00	e0.00
24	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.03	e0.00	e0.00	e0.00	e0.00
25	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.02	e0.00	e0.00	e0.00	e0.00
26	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.02	e0.00	e0.00	e0.00	e0.00
27	e0.00	e0.00	e0.00	e0.00	e0.10	e0.10	e0.10	e0.01	e0.00	e0.00	e0.00	e0.00
28	e0.00	e0.00	e0.00	e0.01	e0.10	e0.10	e0.08	e0.01	e0.00	e0.00	e0.00	e0.00
29	e0.00	e0.00	e0.00	e0.00	---	e0.10	e0.08	e0.01	e0.00	e0.00	e0.00	e0.00
30	e0.00	e0.00	e0.00	e0.00	---	e0.10	e0.08	e0.01	e0.00	e0.00	e0.00	e0.00
31	e0.00	---	e0.00	e0.02	---	e0.12	---	e0.03	---	e0.00	e0.00	---
MEAN	0.00	0.00	0.00	0.00	0.07	0.10	0.11	0.02	0.00	0.00	0.00	0.00
MAX	0.03	0.00	0.00	0.05	0.20	0.12	0.15	0.08	0.02	0.02	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.10	0.08	0.00	0.00	0.00	0.00	0.00
AC-FT	0.1	0.00	0.00	0.3	4.1	6.2	6.3	1.4	0.2	0.08	0.00	0.00

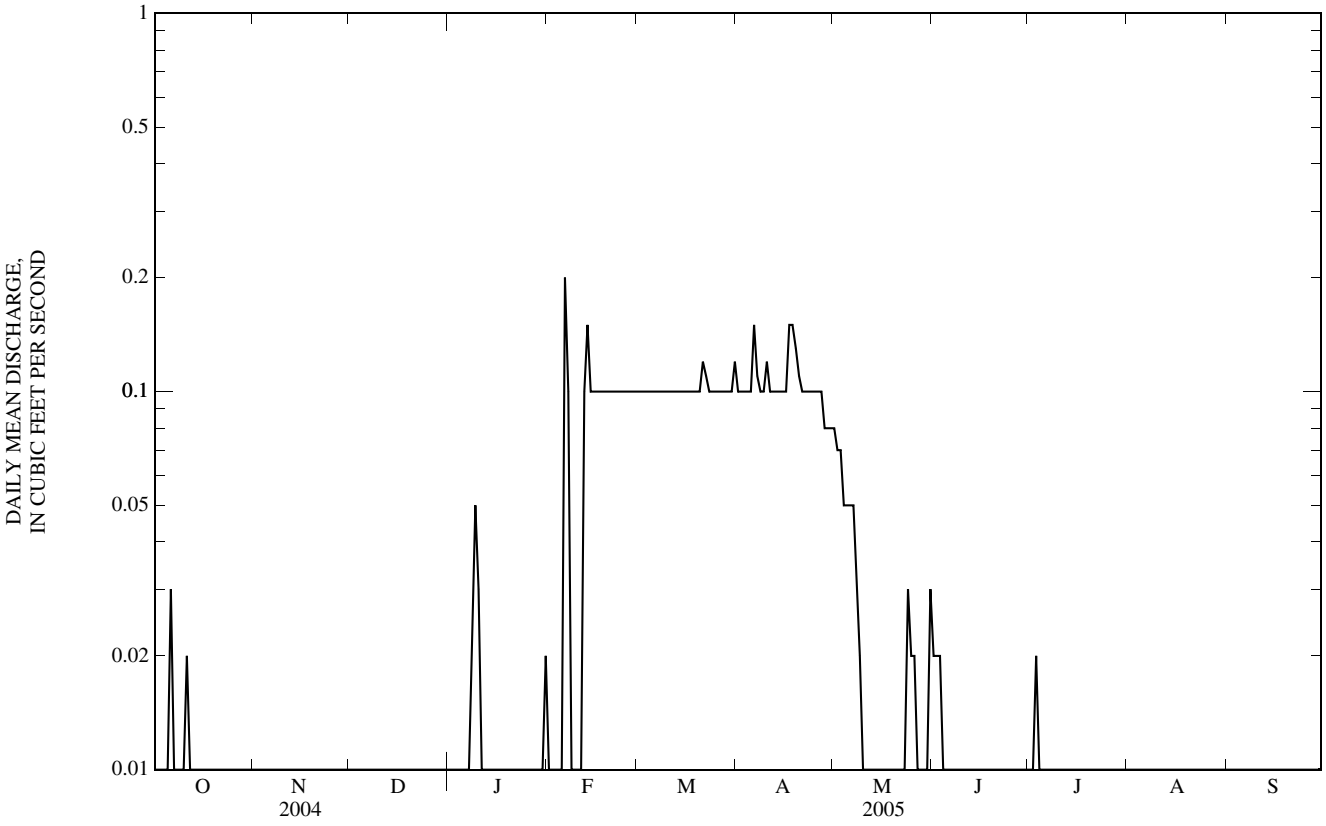
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2005, BY WATER YEAR (WY)

MEAN	80.3	87.7	88.6	98.2	119	124	125	168	264	148	92.3	91.2
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
(WY)	(2005)	(2005)	(1995)	(1995)	(1995)	(1995)	(1995)	(2005)	(2005)	(2003)	(2005)	(2005)

07140000 ARKANSAS RIVER NEAR KINSLEY, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1945 - 2005	
ANNUAL MEAN	0.04		0.03		124	
HIGHEST ANNUAL MEAN					608	1951
LOWEST ANNUAL MEAN					0.03	2005
HIGHEST DAILY MEAN	0.62	Jul 23	0.20	Feb 6	36,000	Jun 21, 1965
LOWEST DAILY MEAN	0.00	Jan 5	0.00	Oct 1	0.00	Aug 31, 1982
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 28	0.00	Oct 12	0.00	Aug 31, 1982
MAXIMUM PEAK FLOW			e0.25	Feb 6	49,800	Jun 21, 1965
MAXIMUM PEAK STAGE			5.30	Feb 6	17.60	Jun 21, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jul 28, 1977
ANNUAL RUNOFF (AC-FT)	29		19		89,610	
10 PERCENT EXCEEDS	0.13		0.10		266	
50 PERCENT EXCEEDS	0.01		0.00		48	
90 PERCENT EXCEEDS	0.00		0.00		0.35	

e Estimated



07140850 PAWNEE RIVER NEAR BURDETT, KS

LOCATION.--Lat 38°12'24", long 99°38'35", in NW $^1/_4$ SW $^1/_4$ SW $^1/_4$ 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

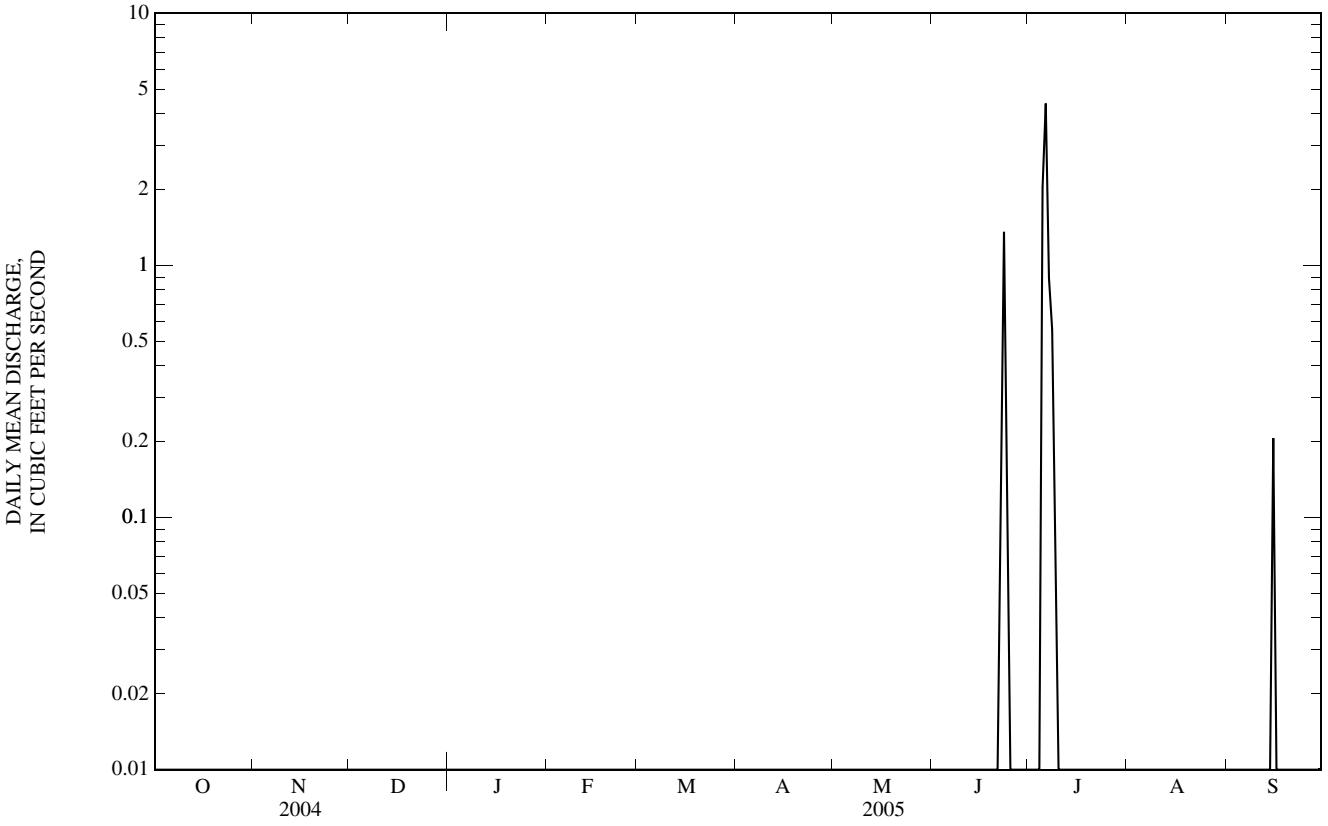
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	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	0.21
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	0.11	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	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
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	0.05	0.25	0.00	0.01
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	4.4	0.00	0.21
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	3.2	16	0.00	0.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005, BY WATER YEAR (WY)

MEAN	1.65	2.23	1.10	1.25	4.00	7.20	8.93	6.44	12.2	42.3	20.3	12.1
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005	
ANNUAL MEAN	19.2		0.03		10.0	
HIGHEST ANNUAL MEAN					72.3	1993
LOWEST ANNUAL MEAN					0.00	1988
HIGHEST DAILY MEAN	2,710	Jul 2	4.4	Jul 6	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			9.1	Jul 5	4,290	Jul 21, 1993
MAXIMUM PEAK STAGE			3.30	Jul 5	27.38	Jul 21, 1993
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many days
ANNUAL RUNOFF (AC-FT)	13,920		19		7,270	
10 PERCENT EXCEEDS	0.50		0.00		8.6	
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 poor. 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 25	0230	*94	*7.70	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

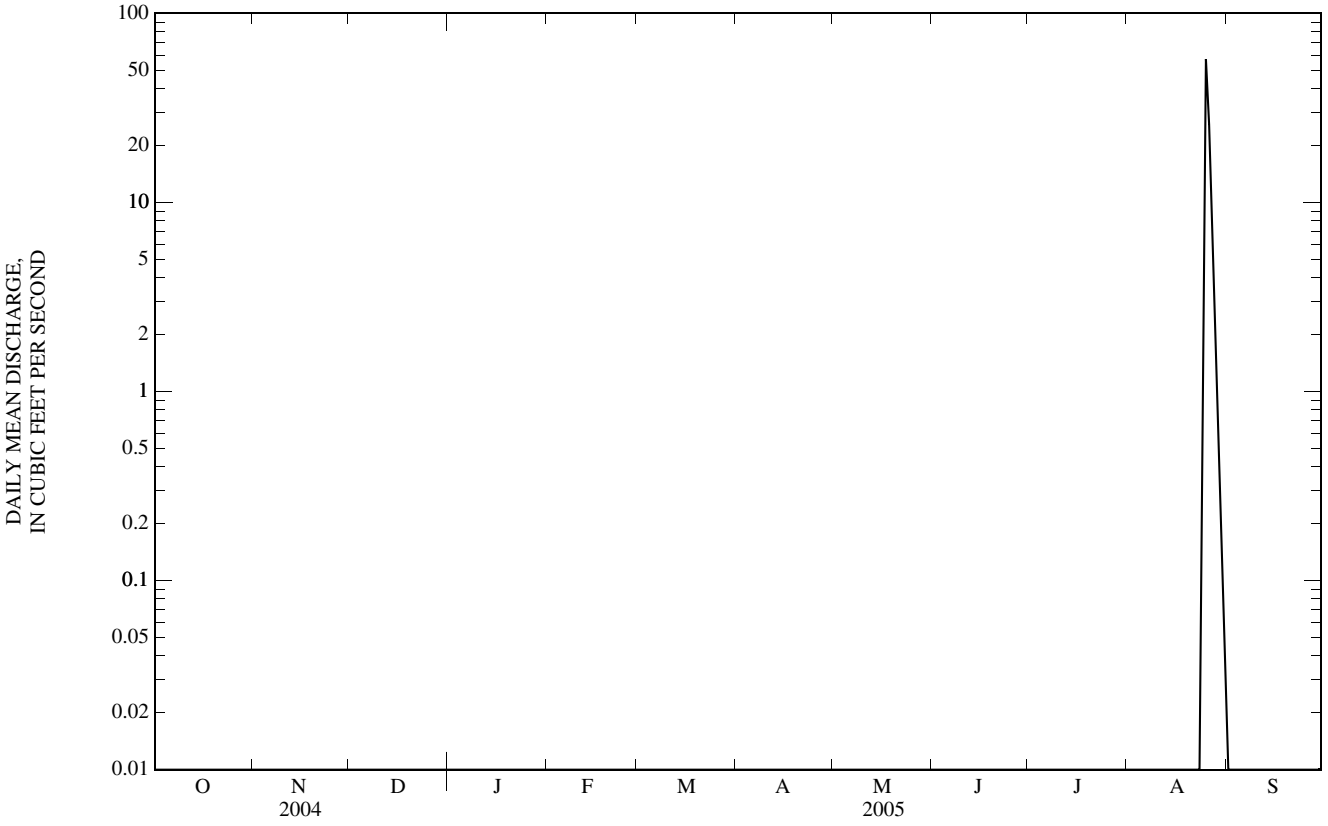
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	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	0.01	0.00	0.00	0.00	0.93	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.35	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.15	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.05	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.01	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	57	0.01
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	0.02	0.00	0.00	0.00	185	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	12.2	23.5	6.05	7.02	7.50	10.6	10.6	15.9	16.2	14.1	45.9	47.5
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	0.02		0.26		18.1	
HIGHEST ANNUAL MEAN					68.7	1996
LOWEST ANNUAL MEAN					0.03	2004
HIGHEST DAILY MEAN	2.4	Aug 5	57	Aug 25	2,160	Sep 21, 1996
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1995
MAXIMUM PEAK FLOW			94	Aug 25	2,360	Nov 17, 1996
MAXIMUM PEAK STAGE			7.70	Aug 25	24.39	Nov 17, 1996
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	15		185		13,110	
10 PERCENT EXCEEDS	0.00		0.00		26	
50 PERCENT EXCEEDS	0.00		0.00		0.14	
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 ¼ SW ¼ 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 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 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 25	0800	*67	*9.54	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
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	0.02	0.00	0.00	0.48
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.06
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.5	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.22	0.11	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.9	0.04	0.23	0.00
13	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	2.5	0.00	0.07	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00
19	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	0.00
20	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	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	0.03	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	34	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.9	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	6.9	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	3.2	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.22	---	0.00	1.3	---
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.54	1.83	4.25	0.03
MAX	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.31	23	27	54	0.48
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	0.02	0.00	0.00	0.00	0.06	0.00	0.00	1.8	92	112	261	1.5

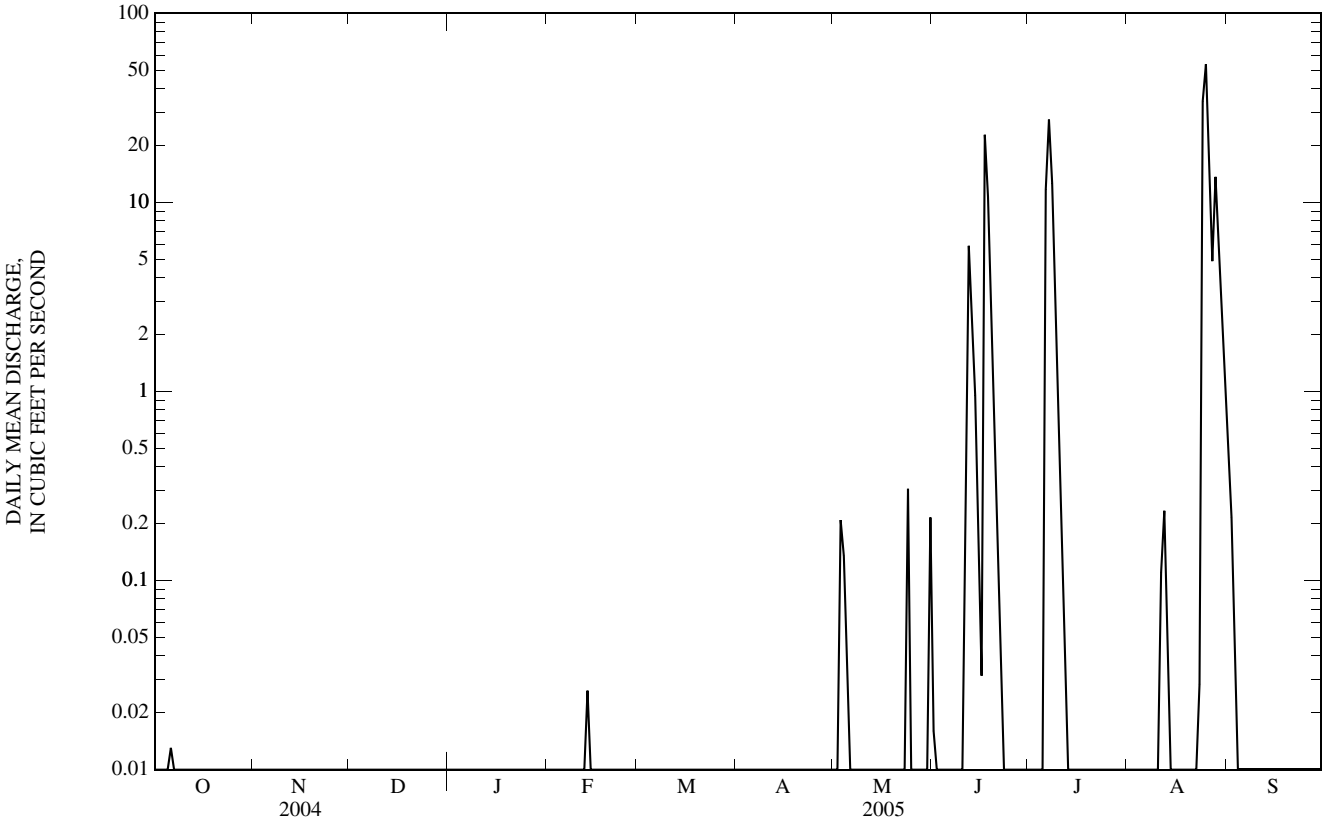
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

MEAN	47.2	16.4	6.88	6.76	10.9	28.6	46.1	92.1	146	152	103	51.9
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005	
ANNUAL MEAN	19.7		0.65		59.5	
HIGHEST ANNUAL MEAN					549	1951
LOWEST ANNUAL MEAN					0.00	1991
HIGHEST DAILY MEAN	2,150	Jul 3	54	Aug 25	14,300	Jul 28, 1958
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	May 5, 1926
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 7	0.00	Jul 10, 1930
MAXIMUM PEAK FLOW			67	Aug 25	16,300	Jul 28, 1958
MAXIMUM PEAK STAGE			9.54	Aug 25	33.75	Jul 22, 1993
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	14,310		469		43,120	
10 PERCENT EXCEEDS	4.1		0.03		55	
50 PERCENT EXCEEDS	0.00		0.00		3.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



07141220 ARKANSAS RIVER NEAR LARNED, KS

LOCATION.--Lat 38°12'13", long 99°00'07", in SE ¼ SW ¼ SW ¼ sec.20, 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 good. 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)
Oct. 1	0000	*0.00	*2.51	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
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
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 1999 - 2005, BY WATER YEAR (WY)

MEAN	33.2	43.8	37.6	34.4	44.9	77.8	94.7	186	306	135	72.4	62.9
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL MEAN	22.3		0.00		94.1	
HIGHEST ANNUAL MEAN					413	1999
LOWEST ANNUAL MEAN					0.00	2005
HIGHEST DAILY MEAN	1,250	Jun 22	0.00	Oct 1	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			0.00	Oct 1	2,340	Sep 20, 2001
MAXIMUM PEAK STAGE			2.51	Oct 1	10.90	Sep 20, 2001
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Apr 20, 2002
ANNUAL RUNOFF (AC-FT)	16,220		0.00		68,150	
10 PERCENT EXCEEDS	1.1		0.00		218	
50 PERCENT EXCEEDS	0.00		0.00		0.76	
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 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)
Apr 6	0930	*e3.0	*2.51	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.50	e0.40	e0.50	e0.75	e0.70	e1.2	e1.4	e2.0	e0.20	e0.50	e0.10	e0.00
2	e0.50	e0.40	e0.50	e0.75	e0.70	e1.2	e1.4	e2.0	e0.20	e0.50	e0.08	e0.00
3	e0.50	e0.40	e0.50	e0.75	e0.70	e1.2	e1.4	e1.9	e0.30	e1.0	e0.06	e0.00
4	e0.50	e0.40	e0.50	e0.75	e0.70	e1.2	e1.4	e1.8	e0.20	e1.5	e0.04	e0.00
5	0.51	e0.40	e0.60	e0.70	e0.70	e1.2	e1.4	e1.7	e0.20	e1.1	e0.03	e0.00
6	0.92	e0.40	e0.55	e0.70	e0.90	e1.2	e2.2	e1.6	e0.20	e1.1	e0.02	e0.00
7	1.0	e0.40	e0.50	e0.75	e1.4	e1.2	e2.1	e1.5	e0.20	e1.1	e0.01	e0.00
8	0.84	e0.40	e0.50	e0.75	e1.3	e1.2	e2.0	e1.4	e0.20	e1.1	e0.01	e0.00
9	e0.50	e0.40	e0.50	e0.80	e1.3	e1.2	e1.9	e1.3	e0.20	e1.2	e0.00	e0.00
10	e0.70	e0.40	e0.50	e0.75	e1.2	e1.2	e1.9	e1.1	e0.40	e1.3	e0.00	e0.00
11	1.2	e0.40	e0.50	e0.75	e1.2	e1.2	e1.9	e1.0	e0.40	e1.4	e0.00	e0.00
12	0.86	e0.40	e0.60	e0.75	e1.3	e1.2	e1.9	e0.90	e0.60	e1.4	e0.00	e0.00
13	e0.60	e0.40	e0.60	e0.75	e1.3	e1.2	e1.9	e0.90	e0.90	e0.90	e0.00	e0.00
14	e0.40	e0.40	e0.60	e0.70	e1.3	e1.2	e1.9	e0.70	e0.60	e0.80	e0.00	e0.00
15	e0.40	e0.40	e0.60	e0.65	e1.3	e1.2	e1.9	e0.70	e0.60	e0.80	e0.00	e0.00
16	e0.40	e0.40	e0.60	e0.65	e1.2	e1.2	e1.9	e0.60	e1.0	e0.70	e0.00	e0.00
17	e0.40	e0.40	e0.60	e0.65	e1.2	e1.2	e1.9	e0.50	e0.80	e0.70	e0.00	e0.00
18	e0.40	e0.40	e0.60	e0.70	e1.2	e1.2	e1.9	e0.30	e0.60	e0.80	e0.00	e0.00
19	e0.40	e0.40	e0.60	e0.75	e1.2	e1.2	e1.8	e0.10	e0.50	e1.0	e0.01	e0.00
20	e0.40	e0.40	e0.75	e0.80	e1.2	e1.2	e1.8	e0.10	e0.50	e0.80	e0.01	e0.00
21	e0.40	e0.40	e0.75	e0.80	e1.2	e1.8	e1.8	e0.10	e0.50	e0.70	e0.00	e0.00
22	e0.40	e0.40	e0.75	e0.75	e1.2	e1.7	e1.8	e0.10	e0.50	e0.60	e0.00	e0.00
23	e0.40	e0.40	e0.75	e0.75	e1.2	e1.6	e1.8	e0.10	e0.50	e0.50	e0.00	e0.00
24	e0.40	e0.40	e0.75	e0.75	e1.2	e1.5	e2.0	e0.20	e0.50	e0.40	e0.10	e0.00
25	e0.40	e0.40	e0.75	e0.75	e1.2	e1.4	e2.0	e0.20	e0.50	e0.30	e0.05	e0.00
26	e0.80	e0.40	e0.75	e0.75	e1.2	e1.4	e2.0	e0.20	e0.50	e0.30	e0.01	e0.00
27	e0.60	e0.40	e0.75	e0.70	e1.2	e1.4	e2.0	e0.10	e0.50	e0.20	e0.00	e0.00
28	e0.40	e0.40	e0.75	e0.70	e1.2	e1.4	e2.0	e0.10	e0.50	e0.20	e0.10	e0.00
29	e0.40	e0.40	e0.75	e0.70	---	e1.4	e2.0	e0.10	e0.50	e0.15	e0.05	e0.00
30	e0.40	e0.40	e0.75	e0.70	---	e1.4	e2.0	e0.10	e0.50	e0.15	e0.00	e0.00
31	e0.40	---	e0.75	e0.70	---	e1.4	---	e0.20	---	e0.10	e0.00	---
MEAN	0.55	0.40	0.63	0.73	1.13	1.30	1.84	0.76	0.46	0.75	0.02	0.00
MAX	1.2	0.40	0.75	0.80	1.4	1.8	2.2	2.0	1.0	1.5	0.10	0.00
MIN	0.40	0.40	0.50	0.65	0.70	1.2	1.4	0.10	0.20	0.10	0.00	0.00
AC-FT	34	24	39	45	63	80	110	47	27	46	1.3	0.00

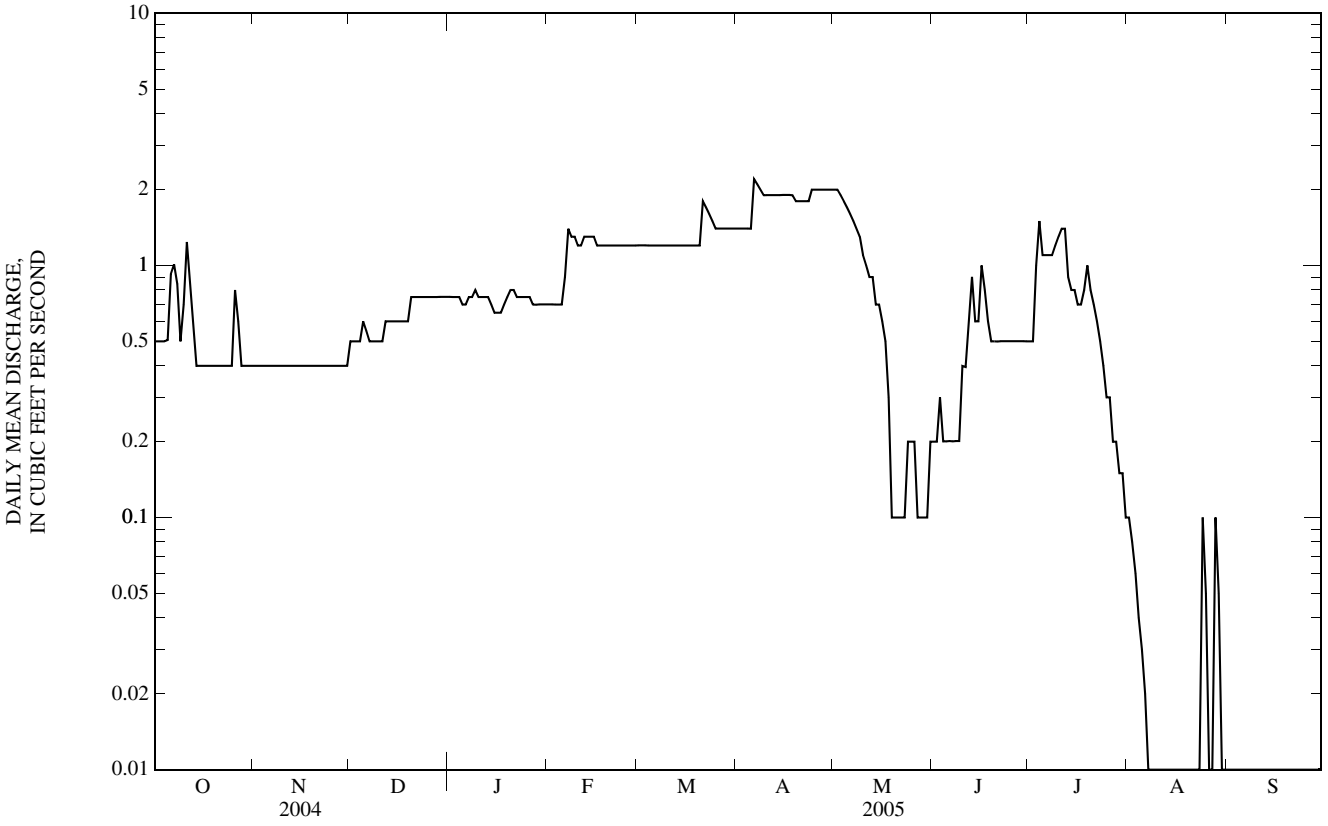
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

MEAN	165	156	123	128	163	212	257	368	548	442	271	204
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	0.46	0.75	0.02	0.00
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)

07141300 ARKANSAS RIVER AT GREAT BEND, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL MEAN	17.6		0.71		253	
HIGHEST ANNUAL MEAN					1,565	1942
LOWEST ANNUAL MEAN					0.71	2005
HIGHEST DAILY MEAN	1,090	Jul 5	2.2	Apr 6	21,800	Jun 23, 1965
LOWEST DAILY MEAN	0.02	Jan 4	0.00	Aug 9	0.00	Oct 25, 1940
ANNUAL SEVEN-DAY MINIMUM	0.02	Jan 15	0.00	Aug 9	0.00	Aug 2, 1946
MAXIMUM PEAK FLOW			e3.00	Apr 6	27,800	Jun 23, 1965
MAXIMUM PEAK STAGE			2.51	Apr 6	17.70	Jun 15, 1981
INSTANTANEOUS LOW FLOW			0.00	Aug 9	0.00	at times
ANNUAL RUNOFF (AC-FT)	12,770		515		183,500	
10 PERCENT EXCEEDS	5.3		1.5		515	
50 PERCENT EXCEEDS	0.40		0.60		72	
90 PERCENT EXCEEDS	0.03		0.00		2.5	

e Estimated



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)
Nov 25	0200	*13	*2.33

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16	1.2	2.3	3.1	3.2	3.2	4.5	2.4	2.3	0.05	0.12	1.0
2	0.13	1.5	2.5	3.1	3.4	3.1	4.1	2.4	1.9	0.03	0.13	0.93
3	0.14	1.6	4.1	3.2	3.1	3.1	3.8	2.4	1.6	0.14	0.17	0.81
4	0.15	1.7	3.2	e3.1	3.0	3.1	3.5	2.5	0.98	0.18	0.19	0.72
5	0.15	1.5	2.8	e3.1	3.0	3.0	3.4	2.5	0.85	0.23	0.24	0.55
6	0.25	1.5	2.9	e3.2	e2.9	2.9	3.5	2.4	0.82	0.14	0.23	0.56
7	0.42	1.5	2.9	e3.3	e2.9	2.7	2.1	1.5	0.60	0.09	0.34	0.43
8	0.30	1.7	2.8	e3.3	e2.9	2.6	0.51	0.98	0.41	0.07	0.31	0.38
9	0.25	1.8	2.7	e3.3	e3.5	2.7	1.4	0.59	0.31	0.04	0.27	0.35
10	0.69	1.9	2.7	e3.3	e4.0	2.7	2.8	0.52	0.40	0.02	0.26	0.34
11	0.80	1.9	2.5	e3.2	e4.5	2.9	2.8	0.59	0.33	0.02	0.29	0.39
12	0.58	1.9	2.7	e3.2	4.7	2.8	2.7	0.75	0.33	0.01	0.37	0.23
13	0.39	2.1	2.7	e3.1	6.1	2.4	2.7	1.4	1.0	0.01	0.45	0.13
14	0.33	2.1	2.4	e3.1	5.4	2.6	2.9	1.3	1.1	0.01	0.41	0.10
15	0.27	2.2	2.4	e3.1	5.3	2.8	2.8	1.6	0.79	0.01	0.37	0.34
16	0.28	2.0	2.4	e3.1	6.6	3.0	2.9	1.8	1.6	0.03	0.36	0.31
17	0.25	1.9	2.3	e3.2	5.2	3.1	3.0	1.8	1.1	0.05	0.32	0.28
18	0.32	2.8	2.2	e3.5	4.7	2.8	3.1	1.4	1.1	0.06	0.58	0.26
19	1.0	2.8	2.3	e3.7	4.3	2.8	3.3	1.5	1.1	0.05	0.34	0.24
20	1.4	2.8	2.4	e3.9	4.0	2.9	3.1	1.4	1.1	0.02	0.21	0.26
21	1.3	3.1	2.4	e4.0	4.0	3.6	2.9	1.3	1.3	0.02	0.26	0.27
22	1.4	3.1	2.4	e4.2	3.7	3.7	3.0	1.0	1.4	0.02	0.45	0.24
23	1.3	2.9	2.5	4.3	4.0	3.9	1.9	0.82	1.0	0.03	1.3	0.20
24	1.2	2.7	e2.5	3.8	4.0	4.0	1.1	0.73	0.77	0.03	0.87	0.17
25	1.2	6.7	e2.5	3.5	3.8	4.5	1.5	1.2	0.60	0.05	0.67	0.10
26	1.2	3.2	e2.5	3.3	4.1	4.4	1.4	1.4	0.42	0.07	4.3	0.06
27	1.1	4.3	2.6	3.2	3.7	4.4	0.95	1.3	0.28	0.08	7.2	0.11
28	1.2	3.0	2.8	3.2	3.3	4.1	0.84	1.4	0.22	0.09	3.4	0.09
29	1.1	3.0	3.1	3.3	---	3.7	0.93	1.1	0.12	0.09	2.8	0.05
30	1.0	2.7	3.3	3.2	---	3.8	1.8	1.2	0.08	0.11	1.7	0.06
31	1.1	---	3.2	3.1	---	3.7	---	1.6	---	0.10	1.3	---
MEAN	0.69	2.44	2.68	3.36	4.05	3.26	2.51	1.44	0.86	0.06	0.97	0.33
MAX	1.4	6.7	4.1	4.3	6.6	4.5	4.5	2.5	2.3	0.23	7.2	1.0
MIN	0.13	1.2	2.2	3.1	2.9	2.4	0.51	0.52	0.08	0.01	0.12	0.05
AC-FT	42	145	165	207	225	200	149	89	51	3.9	60	20

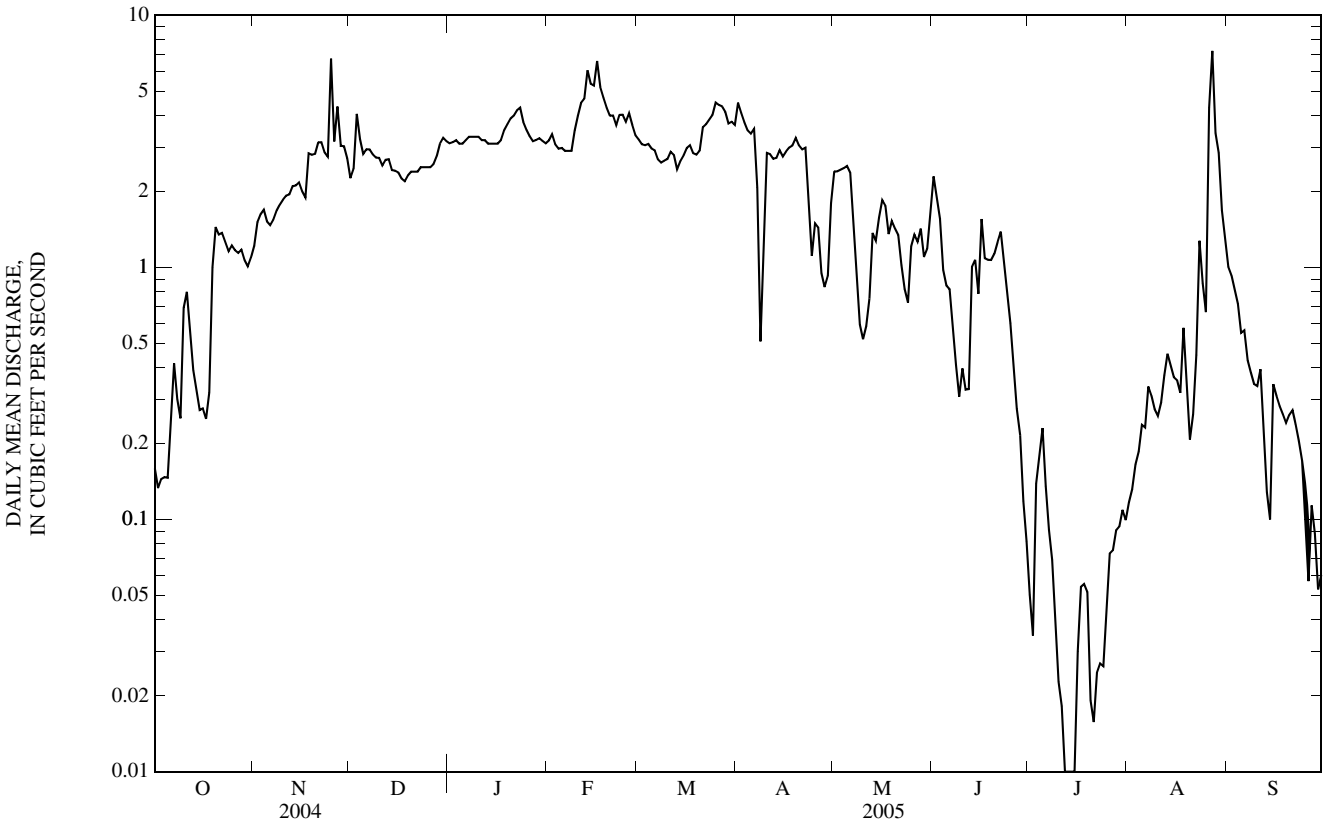
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	6.33	12.4	7.34	7.84	8.65	13.7	10.9	20.2	36.6	30.9	31.9	14.6
MAX	22.6	67.5	18.4	13.7	16.5	50.2	26.7	87.4	148	87.3	116	100
(WY)	(1997)	(1997)	(1997)	(1997)	(1998)	(2000)	(1998)	(1995)	(1996)	(1999)	(1999)	(1996)
MIN	0.27	0.48	0.82	1.35	1.69	2.82	2.14	1.44	0.86	0.06	0.23	0.33
(WY)	(2004)	(2004)	(2003)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)	(2005)	(2003)	(2005)

07141770 WALNUT CREEK NEAR ALEXANDER, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL MEAN	13.3		1.87		16.8	
HIGHEST ANNUAL MEAN					37.7	1996
LOWEST ANNUAL MEAN					1.87	2005
HIGHEST DAILY MEAN	903	Jul 2	7.2	Aug 27	1,550	Jun 1, 1996
LOWEST DAILY MEAN	0.13	Oct 2	0.01	Jul 12	0.01	Jul 12, 2005
ANNUAL SEVEN-DAY MINIMUM	0.20	Oct 1	0.02	Jul 10	0.02	Jul 10, 2005
MAXIMUM PEAK FLOW			13	Nov 25	3,070	Jun 1, 1996
MAXIMUM PEAK STAGE			2.33	Nov 25	21.19	Jun 1, 1996
INSTANTANEOUS LOW FLOW			0.00	Jul 12	0.00	Jul 12, 2005
ANNUAL RUNOFF (AC-FT)	9,680		1,360		12,190	
10 PERCENT EXCEEDS	7.4		3.7		22	
50 PERCENT EXCEEDS	2.0		1.6		6.9	
90 PERCENT EXCEEDS	0.46		0.12		0.79	

e Estimated



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)
Jul 5	1400	*36	*8.49

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.4	2.8	2.7	e4.0	4.4	3.5	1.1	1.3	0.00	0.00	0.38
2	0.95	1.5	2.6	e2.8	e4.0	4.0	3.4	0.85	1.7	0.00	0.00	0.19
3	0.73	1.4	2.5	e2.9	e4.0	3.8	3.7	1.1	1.6	0.39	0.00	0.02
4	0.61	1.4	2.4	e3.0	e4.0	3.8	3.8	1.9	1.8	0.51	0.00	0.00
5	0.54	1.6	3.1	e3.0	e4.0	3.7	3.5	2.0	2.0	20	0.00	0.00
6	0.74	2.3	3.3	e3.0	e4.0	3.7	3.7	2.0	2.1	4.6	0.00	0.00
7	1.1	2.5	e2.8	e3.0	e4.0	3.8	3.5	2.3	1.7	0.45	0.00	0.00
8	1.0	2.3	2.6	e3.0	e4.0	3.8	3.2	2.4	1.5	0.11	0.00	0.00
9	1.1	2.3	e2.5	e3.0	e4.5	3.6	2.9	2.1	0.98	0.00	0.00	0.00
10	1.2	2.3	2.4	e3.0	e4.9	3.6	2.2	1.7	6.2	0.00	0.00	0.00
11	1.5	2.1	2.3	e3.0	e5.2	3.6	1.6	1.4	5.2	0.00	0.00	0.00
12	1.8	2.0	2.2	e3.0	e5.5	3.5	1.1	1.3	0.98	0.00	0.00	0.00
13	2.2	2.1	2.1	e3.0	e5.8	3.4	2.0	1.3	0.79	0.00	0.00	0.00
14	1.8	2.1	e2.2	e3.0	e6.0	3.7	2.3	1.1	0.39	0.00	0.00	0.00
15	1.5	2.3	e2.2	e3.0	e5.9	3.4	2.3	1.1	0.89	0.00	0.00	0.00
16	1.2	2.2	e2.3	e3.0	5.8	3.5	2.6	1.0	2.9	0.00	0.00	0.00
17	1.0	2.1	e2.4	e3.2	6.2	3.7	2.4	1.3	0.42	0.00	0.00	0.00
18	1.0	2.3	e2.5	e3.4	7.0	3.7	2.8	1.5	0.50	0.00	0.00	0.00
19	0.90	2.2	e2.6	e3.6	5.9	3.3	2.9	1.7	0.51	0.00	0.00	0.00
20	0.75	2.8	e2.8	e3.8	5.4	3.6	2.8	1.7	0.37	0.00	0.00	0.00
21	0.90	2.4	e2.8	e4.0	5.5	4.8	2.9	1.9	0.74	0.00	0.00	0.00
22	0.99	2.4	e2.7	e4.3	4.5	4.5	2.8	1.6	0.45	0.00	0.00	0.00
23	0.80	2.5	e2.6	e4.6	4.3	4.4	2.4	1.6	0.29	0.00	0.00	0.00
24	0.76	2.5	e2.6	e5.0	4.3	4.2	2.5	2.0	0.19	0.00	0.22	0.00
25	0.77	2.3	e2.6	e4.8	4.4	4.0	2.8	1.2	0.14	0.00	0.00	0.00
26	0.75	4.4	e2.6	e4.7	4.5	4.2	2.6	1.1	0.13	0.00	0.00	0.00
27	0.82	4.6	e2.6	e4.3	4.2	4.4	1.5	0.99	0.10	0.00	0.00	0.00
28	0.87	2.5	e2.7	e4.0	4.5	4.5	0.95	1.1	0.00	0.00	0.00	0.00
29	0.93	e2.6	e2.8	e4.0	---	4.4	1.3	0.67	0.00	0.00	0.00	0.00
30	1.0	e2.7	2.8	e4.0	---	4.2	1.2	0.77	0.00	0.00	0.60	0.00
31	1.0	---	2.8	e4.0	---	3.9	---	1.1	---	0.00	0.58	---
MEAN	1.05	2.34	2.59	3.52	4.87	3.91	2.57	1.45	1.20	0.84	0.05	0.02
MAX	2.2	4.6	3.3	5.0	7.0	4.8	3.8	2.4	6.2	20	0.60	0.38
MIN	0.54	1.4	2.1	2.7	4.0	3.3	0.95	0.67	0.00	0.00	0.00	0.00
AC-FT	64	139	159	216	270	240	153	89	71	52	2.8	1.2

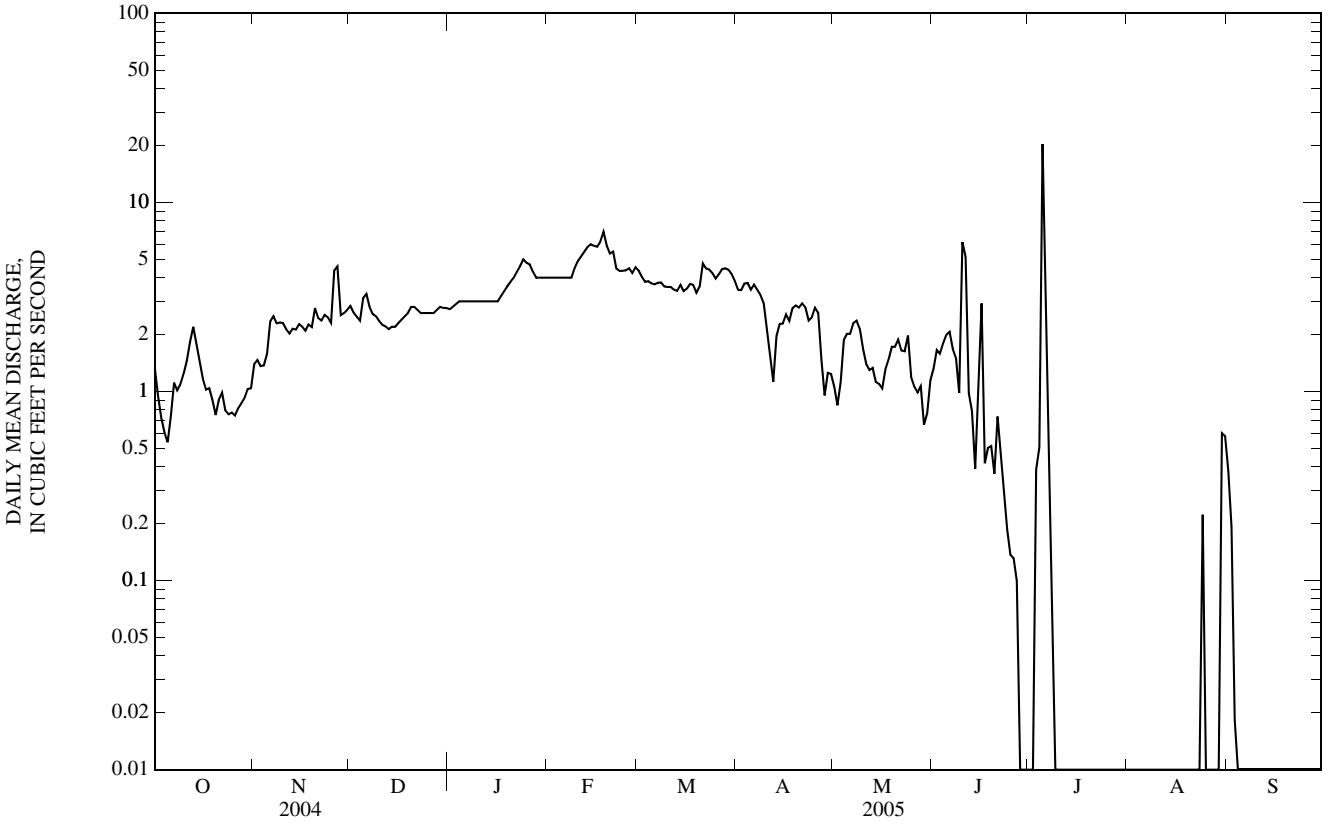
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005, BY WATER YEAR (WY)

MEAN	6.32	8.36	5.10	6.13	9.29	33.8	36.4	17.2	44.9	67.4	25.7	15.5
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005	
ANNUAL MEAN	13.5		2.01		23.1	
HIGHEST ANNUAL MEAN					129	1993
LOWEST ANNUAL MEAN					0.00	1983
HIGHEST DAILY MEAN	784	Jul 3	20	Jul 5	5,690	Jul 22, 1993
LOWEST DAILY MEAN	0.00	Jun 2	0.00	Jun 28	0.00	May 21, 1970
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 2	0.00	Jul 9	0.00	Jul 24, 1970
MAXIMUM PEAK FLOW			36	Jul 5	5,790	Jul 21, 1993
MAXIMUM PEAK STAGE			8.49	Jul 5	34.00	Jul 21, 1993
INSTANTANEOUS LOW FLOW			0.00	Jun 28	0.00	many years
ANNUAL RUNOFF (AC-FT)	9,760		1,460		16,720	
10 PERCENT EXCEEDS	10		4.3		27	
50 PERCENT EXCEEDS	1.8		2.0		1.7	
90 PERCENT EXCEEDS	0.13		0.00		0.00	

e Estimated



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 fair. 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 5	0930	*189	*7.12	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.16	0.79	2.1	4.5	4.0	4.6	2.8	0.37	0.75	0.00	0.00
2	0.01	0.13	0.78	2.2	4.3	4.0	4.4	2.9	0.40	0.34	0.00	0.00
3	0.01	0.13	0.97	2.3	4.7	4.1	4.1	2.6	0.55	26	0.00	0.00
4	0.00	0.15	1.7	2.4	3.9	4.1	3.9	2.4	0.81	38	0.00	0.00
5	0.00	0.14	1.9	e1.8	3.5	4.0	3.8	2.1	0.81	99	0.00	0.00
6	0.05	0.16	1.8	e1.8	4.1	4.1	4.5	2.1	0.77	58	0.00	0.00
7	0.06	0.16	2.0	e2.0	e4.5	4.0	5.2	1.9	0.65	70	0.00	0.00
8	0.06	0.16	2.0	e2.2	e5.0	3.7	6.8	1.6	0.43	39	0.00	0.00
9	1.7	0.13	1.8	e2.4	e7.0	3.6	10	1.5	0.17	18	0.00	0.00
10	2.8	0.09	1.8	e2.0	e6.0	3.6	8.0	1.6	0.25	8.6	0.00	0.00
11	1.9	0.16	1.9	e2.0	5.4	3.4	6.4	1.5	0.34	5.7	0.00	0.00
12	1.0	0.14	2.1	e2.0	5.1	3.3	5.8	2.3	0.41	4.5	0.00	0.00
13	0.63	0.12	1.9	e2.0	6.3	3.2	6.0	1.7	2.6	3.8	0.00	0.00
14	0.85	0.13	1.7	e1.8	8.3	3.1	4.9	1.9	11	3.1	0.00	0.00
15	1.4	0.14	1.6	e1.8	14	3.0	3.6	1.8	15	2.8	0.00	0.00
16	1.2	0.15	1.5	e2.0	12	3.1	3.5	1.7	11	2.4	0.00	0.00
17	0.94	0.15	1.5	e2.0	8.1	3.1	2.7	1.6	19	2.2	0.00	0.00
18	0.86	0.22	1.5	2.2	6.4	3.2	2.8	1.7	48	1.9	0.00	0.00
19	0.73	0.19	1.5	2.5	5.9	3.2	2.6	1.6	41	1.8	0.00	0.00
20	0.51	0.16	1.4	2.9	5.6	3.2	3.5	1.5	19	1.6	0.00	0.00
21	0.48	0.18	1.4	6.3	5.6	3.8	3.1	1.1	11	1.2	0.00	0.00
22	0.44	0.16	1.4	8.4	5.9	4.4	3.2	0.96	7.9	0.88	0.00	0.00
23	0.36	0.18	e1.4	8.0	5.8	4.5	3.1	0.74	5.9	0.53	4.1	0.00
24	0.29	0.14	e1.4	8.4	5.3	20	2.9	1.1	4.7	0.17	0.52	0.00
25	0.26	0.58	e1.4	7.2	5.0	28	2.6	0.76	3.5	0.01	0.09	0.00
26	0.23	0.71	1.5	7.4	5.2	17	2.7	0.65	2.7	0.00	0.11	0.00
27	0.22	0.83	1.7	6.7	4.8	11	2.3	0.56	2.3	0.00	0.01	0.00
28	0.20	0.71	1.8	5.8	4.3	8.5	2.5	0.43	1.9	0.00	0.00	0.00
29	0.18	0.83	1.9	5.4	---	6.9	3.0	0.31	1.5	0.00	0.00	0.00
30	0.16	0.82	2.0	5.1	---	5.7	2.9	0.27	1.2	0.00	0.00	0.00
31	0.16	---	1.9	4.8	---	5.0	---	0.37	---	0.00	0.00	---
MEAN	0.57	0.27	1.61	3.74	5.95	5.99	4.18	1.49	7.17	12.6	0.16	0.00
MAX	2.8	0.83	2.1	8.4	14	28	10	2.9	48	99	4.1	0.00
MIN	0.00	0.09	0.78	1.8	3.5	3.0	2.3	0.27	0.17	0.00	0.00	0.00
AC-FT	35	16	99	230	330	369	249	91	427	774	9.6	0.00

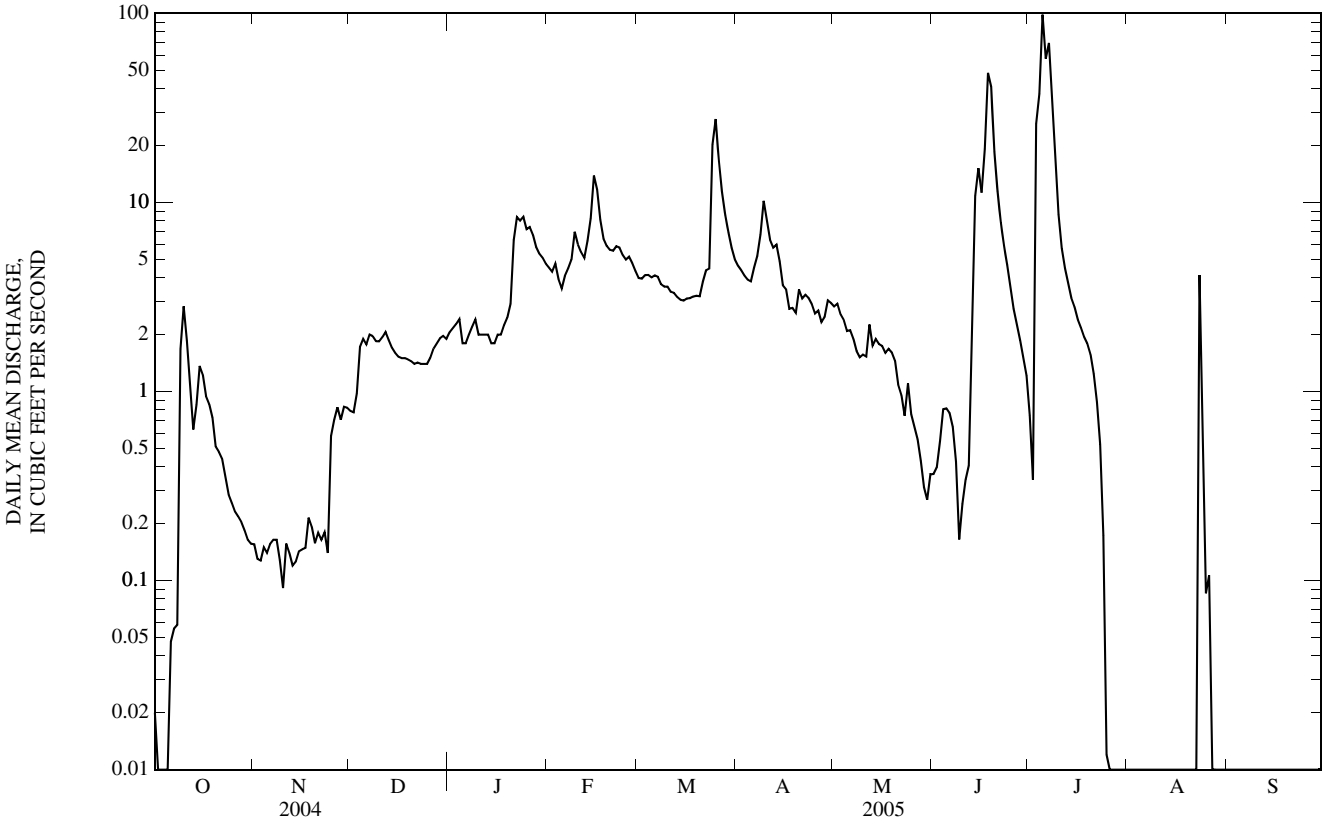
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	29.7	20.5	10.0	10.6	17.6	55.4	53.8	42.4	96.0	95.9	56.1	73.8
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1959 - 2005	
ANNUAL MEAN	22.1		3.63		46.9	
HIGHEST ANNUAL MEAN					189	1993
LOWEST ANNUAL MEAN					0.09	1983
HIGHEST DAILY MEAN	831	Jul 29	99	Jul 5	10,300	Sep 23, 1959
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 4	0.00	Jul 29, 1961
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jul 26	0.00	Jul 5, 1963
MAXIMUM PEAK FLOW			189	Jul 5	12,700	Sep 22, 1959
MAXIMUM PEAK STAGE			7.12	Jul 5	25.75	Sep 22, 1959
INSTANTANEOUS LOW FLOW			0.00	Oct 4	0.00	most years
ANNUAL RUNOFF (AC-FT)	16,010		2,630		33,960	
10 PERCENT EXCEEDS	21		6.7		58	
50 PERCENT EXCEEDS	0.03		1.7		2.6	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



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 2004 TO SEPTEMBER 2005
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	e0.16	e0.04	e0.04	e0.02	e0.00	0.00	0.00	e0.04
2	0.00	0.00	0.00	0.00	e0.14	e0.04	e0.04	e0.02	e0.00	0.00	0.00	e0.04
3	0.00	0.00	0.00	0.00	e0.11	e0.04	e0.04	e0.02	e0.00	e0.02	0.00	e0.02
4	0.00	0.00	0.00	0.00	e0.11	e0.04	e0.04	e0.02	e0.00	e0.51	0.00	e0.05
5	0.00	0.00	0.00	0.00	e0.10	e0.04	e0.04	e0.02	e0.00	e0.69	0.00	e0.20
6	0.00	0.00	0.00	0.00	e0.15	e0.04	e0.05	e0.02	e0.00	e0.57	0.00	e0.15
7	0.00	0.00	0.00	0.00	e0.09	e0.04	e0.04	e0.02	e0.00	e0.58	0.00	e0.10
8	0.00	0.00	0.00	0.00	e0.07	e0.04	e0.04	e0.02	e0.00	e0.42	0.00	e0.04
9	0.00	0.00	0.00	0.00	e0.08	e0.04	e0.04	e0.02	e0.00	e0.39	0.00	e0.03
10	0.00	0.00	0.00	0.00	e0.08	e0.04	e0.04	e0.02	e0.00	e0.32	0.00	e0.03
11	0.00	0.00	0.00	0.00	e0.14	e0.04	e0.04	e0.02	e0.00	e0.26	0.00	e0.00
12	0.00	0.00	0.00	0.00	e0.24	e0.04	e0.04	e0.02	e0.01	e0.20	0.00	e0.00
13	0.00	0.00	0.00	0.00	e0.21	e0.04	e0.04	e0.02	e0.00	e0.18	0.00	e0.00
14	0.00	0.00	0.00	0.00	e0.13	e0.04	e0.04	e0.01	e0.00	e0.15	0.00	e0.00
15	0.00	0.00	0.00	0.00	e0.08	e0.04	e0.04	e0.01	e0.01	e0.10	e0.00	e0.00
16	0.00	0.00	0.00	0.00	e0.07	e0.04	e0.04	e0.01	e0.01	e0.04	e0.00	e0.00
17	0.00	0.00	0.00	0.00	e0.08	e0.04	e0.04	e0.01	e0.00	e0.02	e0.00	e0.30
18	0.00	0.00	0.00	e0.03	e0.11	e0.04	e0.04	e0.01	e0.49	e0.01	e0.00	e0.20
19	0.00	0.00	0.00	e0.12	e0.08	e0.04	e0.04	e0.01	e0.39	e0.01	e0.00	e0.10
20	0.00	0.00	0.00	e0.07	e0.07	e0.04	e0.04	e0.01	e0.38	e0.01	e0.05	e0.05
21	0.00	0.00	0.00	e0.09	e0.07	e0.04	e0.04	e0.01	e0.39	e0.01	e0.20	e0.04
22	0.00	0.00	0.00	e0.07	e0.04	e0.04	e0.02	e0.00	e0.28	e0.01	e0.20	e0.04
23	0.00	0.00	0.00	e0.07	0.04	e0.04	e0.02	e0.00	e0.18	e0.00	e0.10	e0.04
24	0.00	0.00	0.00	e0.07	e0.04	e0.04	e0.02	e0.00	e0.09	0.00	e0.20	e0.04
25	0.00	0.00	0.00	e0.07	e0.04	e0.04	e0.02	e0.00	e0.04	0.00	e0.50	e0.01
26	0.00	0.00	0.00	e0.21	e0.04	e0.04	e0.02	e0.00	e0.04	0.00	e0.40	e0.00
27	0.00	0.00	0.00	e0.26	e0.04	e0.06	e0.02	e0.00	e0.04	0.00	e0.20	e0.00
28	0.00	0.00	0.00	e0.24	e0.04	e0.07	e0.02	e0.00	e0.02	0.00	e0.25	e0.00
29	0.00	0.00	0.00	e0.25	---	e0.06	e0.02	e0.00	0.00	0.00	e0.20	e0.00
30	0.00	0.00	0.00	e0.23	---	e0.05	e0.02	e0.00	0.00	0.00	e0.10	e0.00
31	0.00	---	0.00	e0.21	---	e0.04	---	e0.00	---	0.00	e0.05	---
MEAN	0.00	0.00	0.00	0.06	0.09	0.04	0.03	0.01	0.08	0.15	0.08	0.05
MAX	0.00	0.00	0.00	0.26	0.24	0.07	0.05	0.02	0.49	0.69	0.50	0.30
MIN	0.00	0.00	0.00	0.00	0.04	0.04	0.02	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	3.9	5.3	2.6	2.0	0.7	4.7	8.9	4.9	3.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	9.29	22.6	8.27	9.14	13.3	24.8	34.8	58.8	74.7	53.5	63.0	26.1
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	0.08	0.02	0.00	0.00
(WY)	(2004)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2002)	(2003)	(2004)

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL MEAN	2.18		0.05		33.3	
HIGHEST ANNUAL MEAN					69.7	1999
LOWEST ANNUAL MEAN					0.05	2005
HIGHEST DAILY MEAN	220	Jun 20	0.69	Jul 5	809	Jun 11, 2001
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jul 8, 2002
MAXIMUM PEAK FLOW			e1.0	Jul 5	1,170	Sep 18, 2001
MAXIMUM PEAK STAGE			8.83	Jul 5	21.58	Sep 18, 2001
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1995
ANNUAL RUNOFF (AC-FT)	1,580		36		24,110	
10 PERCENT EXCEEDS	0.43		0.15		68	
50 PERCENT EXCEEDS	0.00		0.01		1.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

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 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)
May 31	0200	*48	*4.78	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
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	1.6	8.2	5.9	2.5	e3.7	1.7	e0.04	0.79
2	0.00	0.00	0.00	0.00	1.5	8.0	5.7	2.3	e3.2	1.3	e0.04	0.70
3	0.00	0.00	0.00	0.00	1.5	8.1	5.3	2.2	e2.8	1.7	e0.04	0.48
4	0.00	0.00	0.00	0.00	1.5	7.8	5.5	1.9	2.7	9.1	e0.03	0.27
5	0.00	0.00	0.00	e0.00	1.5	7.7	5.1	1.5	2.0	6.8	e0.03	0.13
6	0.00	0.00	0.00	e0.00	2.2	7.8	5.0	1.1	1.8	5.1	0.00	0.17
7	0.00	0.00	0.00	e0.00	2.6	7.3	5.2	0.95	1.6	4.1	0.00	0.13
8	0.00	0.00	0.00	e0.00	2.6	7.5	5.1	0.81	1.1	3.5	0.00	0.07
9	0.00	0.00	0.00	e0.00	2.2	7.3	4.7	0.55	0.76	2.9	0.00	0.00
10	0.00	0.00	0.00	e0.00	2.3	5.2	5.0	0.36	3.0	2.5	0.00	0.00
11	0.00	0.00	0.00	e0.00	2.4	4.9	5.0	0.07	6.2	2.1	0.00	0.00
12	0.00	0.00	0.00	e0.00	2.9	4.7	5.1	1.0	10	2.3	0.12	0.00
13	0.00	0.00	0.00	e0.00	3.9	4.3	4.5	35	11	2.9	0.19	0.00
14	0.00	0.00	0.00	e0.00	3.8	4.9	4.4	19	10	3.5	0.10	0.00
15	0.00	0.00	0.00	e0.00	3.6	5.3	4.2	8.0	5.7	3.2	0.06	0.00
16	0.00	0.00	0.00	e0.00	3.6	5.6	4.2	6.5	9.0	2.7	0.08	0.00
17	0.00	0.00	0.00	e0.00	4.3	5.9	3.8	6.2	7.3	2.3	0.25	0.00
18	0.00	0.00	0.00	e0.00	4.8	4.7	3.4	6.6	6.8	1.9	0.19	0.00
19	0.00	0.00	0.00	e0.00	5.8	4.4	3.3	6.8	6.1	1.9	0.49	0.00
20	0.00	0.00	0.00	e0.00	6.0	4.3	3.3	6.6	5.2	1.6	1.4	0.00
21	0.00	0.00	0.00	e0.00	5.8	5.5	3.7	6.2	4.4	1.4	0.48	0.00
22	0.00	0.00	e0.00	e0.00	6.5	6.6	3.5	5.3	3.4	1.2	0.54	0.00
23	0.00	0.00	e0.00	0.36	7.4	7.0	3.1	4.8	3.1	0.84	0.66	0.00
24	0.00	0.00	e0.00	0.52	8.2	6.7	3.0	8.4	2.9	0.42	3.5	0.00
25	0.00	0.00	e0.00	0.90	7.9	7.2	3.4	5.5	2.8	0.12	2.9	0.00
26	0.00	0.00	e0.00	1.1	7.7	6.7	3.4	3.1	2.9	0.02	1.8	0.00
27	0.00	0.00	0.00	1.1	8.1	6.7	3.7	2.1	2.9	0.06	1.5	0.00
28	0.00	0.00	0.00	1.2	8.2	7.1	3.5	1.7	2.9	e0.06	1.4	0.00
29	0.00	0.00	0.00	1.2	---	7.6	3.1	1.3	2.5	e0.06	1.4	0.00
30	0.00	0.00	0.00	1.3	---	7.2	2.8	1.2	2.5	e0.05	1.2	0.00
31	0.00	---	0.00	1.5	---	6.5	---	e1.1	---	e0.05	1.0	---
MEAN	0.00	0.00	0.00	0.30	4.30	6.41	4.23	4.86	4.34	2.17	0.63	0.09
MAX	0.00	0.00	0.00	1.5	8.2	8.2	5.9	35	11	9.1	3.5	0.79
MIN	0.00	0.00	0.00	0.00	1.5	4.3	2.8	0.07	0.76	0.02	0.00	0.00
AC-FT	0.00	0.00	0.00	18	239	394	252	299	258	134	39	5.4

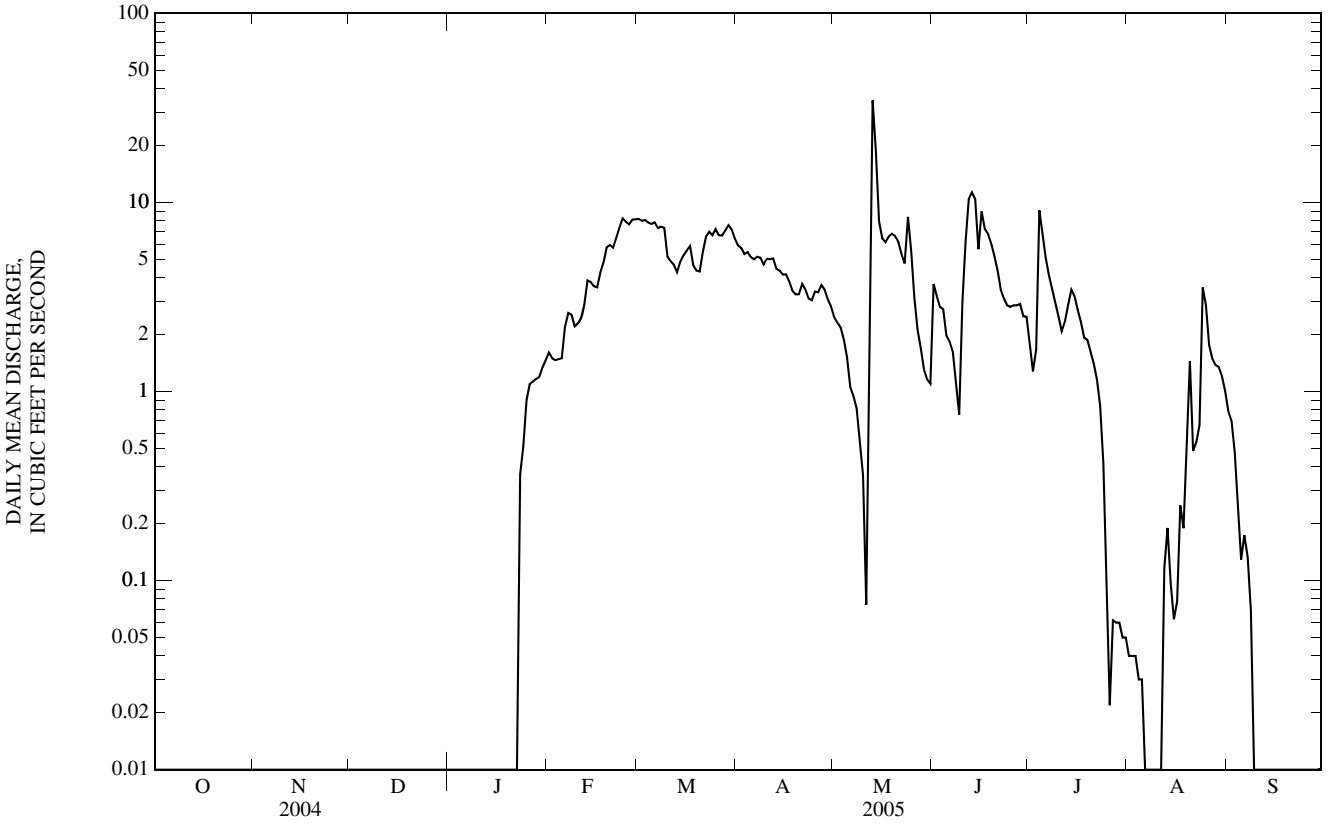
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	21.2	17.2	17.1	16.8	18.8	28.6	27.2	32.0	35.4	21.1	15.3	33.0
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL MEAN	0.22		2.26		23.6	
HIGHEST ANNUAL MEAN					110	1973
LOWEST ANNUAL MEAN					0.22	2004
HIGHEST DAILY MEAN	4.6	Mar 5	35	May 13	7,330	Sep 27, 1973
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Sep 5, 1982
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Aug 12, 1988
MAXIMUM PEAK FLOW			48	May 13	17,700	Sep 26, 1973
MAXIMUM PEAK STAGE			4.78	May 13	11.02	Sep 26, 1973
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	at times
ANNUAL RUNOFF (AC-FT)	159		1,640		17,120	
10 PERCENT EXCEEDS	0.66		6.6		38	
50 PERCENT EXCEEDS	0.00		0.90		13	
90 PERCENT EXCEEDS	0.00		0.00		0.46	

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.

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. Datum of gage is 1,790 ft above NGVD of 1929, 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)
Aug 27	2300	*216	*14.09	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	16	20	14	28	21	e18	15	19	11	5.0	33
2	6.6	16	19	14	e24	20	e18	14	19	11	4.7	27
3	6.8	15	17	e14	e21	19	e18	14	18	14	4.6	22
4	7.0	15	20	e13	23	19	18	13	20	134	4.6	19
5	6.6	15	21	e11	22	19	18	13	17	142	4.8	16
6	7.1	14	23	e9.0	26	18	19	13	14	109	5.0	14
7	8.3	16	22	e9.0	35	17	22	12	12	49	6.1	13
8	8.4	16	20	e10	e33	17	e22	12	11	26	5.2	11
9	8.0	15	21	e12	e32	17	20	11	11	20	4.8	10
10	8.3	15	20	e11	31	17	20	11	14	18	5.1	9.4
11	14	15	19	e10	30	17	e22	11	18	15	4.7	8.7
12	19	14	19	e8.0	30	16	e25	13	34	13	4.7	7.3
13	19	16	17	e9.0	42	16	e30	66	115	11	6.7	7.2
14	16	14	17	e8.0	48	16	e33	46	97	9.5	8.2	7.2
15	14	15	17	e6.0	38	16	29	31	58	8.0	7.4	7.6
16	12	15	18	e7.0	30	16	25	24	74	7.2	7.2	7.8
17	11	16	19	e10	26	16	23	24	60	6.6	7.3	7.7
18	8.5	18	19	e14	24	16	22	24	45	7.6	7.2	7.2
19	11	16	18	e17	26	18	20	23	38	8.3	7.0	6.8
20	12	16	19	e21	26	19	20	19	31	9.4	8.2	5.7
21	13	16	17	22	25	21	19	16	27	7.7	8.1	6.0
22	12	15	17	20	24	24	18	14	24	6.9	10	5.9
23	11	16	e16	22	24	27	17	13	22	6.2	11	5.9
24	10	19	e12	20	24	26	17	30	20	5.9	14	6.0
25	9.5	19	e13	20	23	24	17	32	17	5.4	18	5.8
26	15	20	e14	19	22	23	17	22	15	5.6	46	4.5
27	16	21	e15	20	22	22	16	17	14	5.9	169	4.3
28	16	20	15	19	22	21	16	15	13	5.7	190	4.3
29	14	21	13	21	---	19	16	12	12	5.3	121	4.4
30	14	20	14	24	---	19	16	12	11	5.2	79	4.5
31	18	---	14	39	---	e18	---	15	---	4.9	47	---
MEAN	11.6	16.5	17.6	15.3	27.9	19.2	20.4	19.6	30.0	22.4	26.8	9.97
MAX	19	21	23	39	48	27	33	66	115	142	190	33
MIN	6.6	14	12	6.0	21	16	16	11	11	4.9	4.6	4.3
AC-FT	711	982	1,080	938	1,550	1,180	1,210	1,200	1,790	1,380	1,650	593

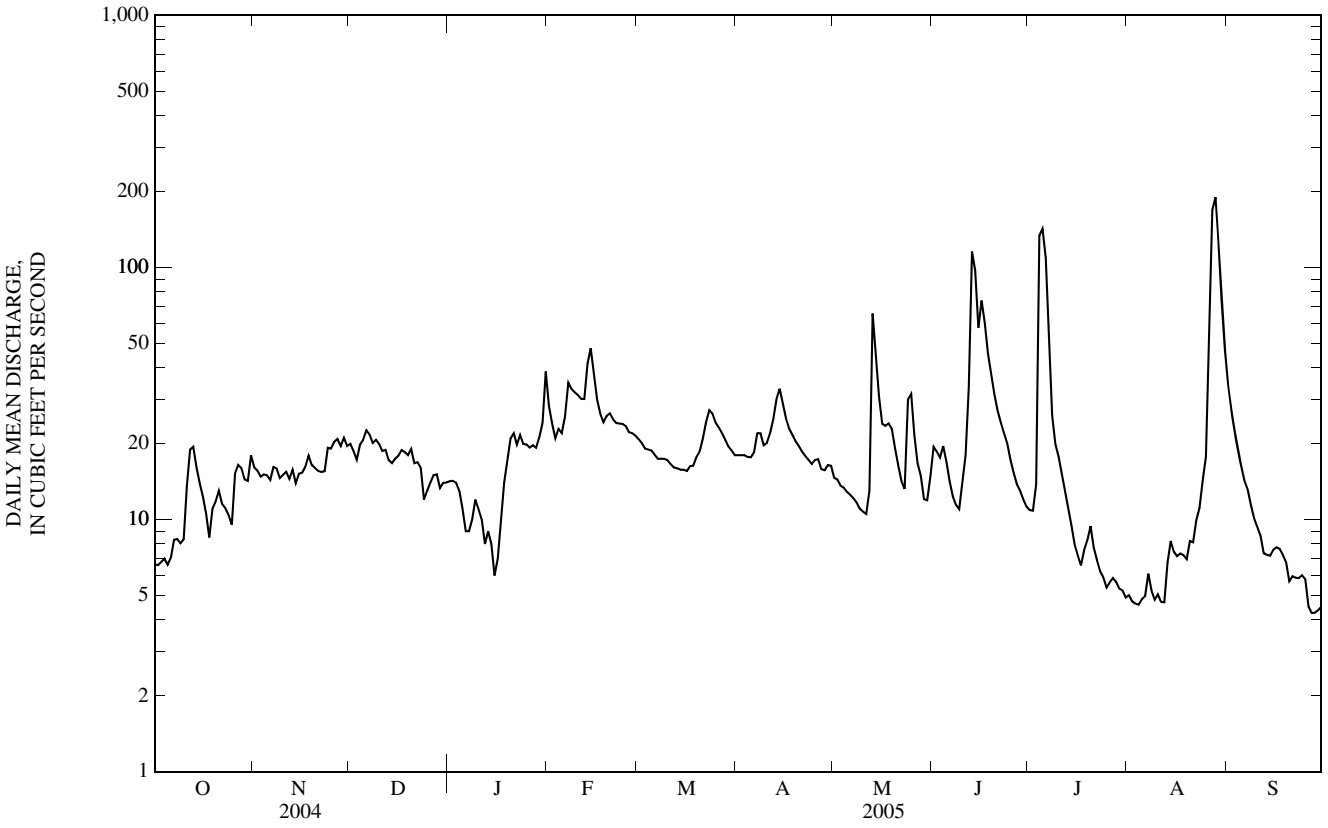
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	39.6	30.7	35.9	34.6	41.6	59.8	60.2	70.3	73.2	67.6	20.5	16.5
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL MEAN	14.6		19.7		45.9	
HIGHEST ANNUAL MEAN					186	1993
LOWEST ANNUAL MEAN					6.59	1991
HIGHEST DAILY MEAN	106	Mar 5	190	Aug 28	13,600	Jul 19, 1993
LOWEST DAILY MEAN	4.5	Sep 17	4.3	Sep 27	0.00	Sep 14, 1984
ANNUAL SEVEN-DAY MINIMUM	4.7	Sep 14	4.8	Jul 31	0.00	Sep 11, 1991
MAXIMUM PEAK FLOW			216	Aug 27	29,300	Jul 18, 1993
MAXIMUM PEAK STAGE			14.09	Aug 27	17.18	Jul 2, 1999
INSTANTANEOUS LOW FLOW			4.0	Sep 26	0.00	Sep 14, 1984
ANNUAL RUNOFF (AC-FT)	10,600		14,260		33,260	
10 PERCENT EXCEEDS	21		30		78	
50 PERCENT EXCEEDS	12		16		25	
90 PERCENT EXCEEDS	6.7		6.6		4.8	

e Estimated



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)
May 13	1000	*647	*11.45	No peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	53	61	71	87	124	99	96	117	114	59	84
2	49	52	61	71	87	120	95	95	116	107	57	85
3	48	51	63	e70	87	119	94	93	132	112	54	80
4	48	51	64	e80	84	117	93	93	131	160	53	72
5	47	51	67	e76	84	113	93	92	129	238	53	66
6	50	51	68	e100	93	110	100	92	123	310	51	63
7	52	51	69	e90	97	108	107	92	116	410	51	62
8	51	50	70	e80	105	108	114	92	111	456	49	59
9	49	49	71	72	99	103	114	90	117	395	47	56
10	51	52	71	72	100	99	123	89	117	297	46	54
11	59	50	70	73	104	95	131	85	117	238	45	53
12	58	49	69	75	112	94	138	108	153	202	57	52
13	58	49	68	74	121	90	140	447	201	176	62	52
14	55	50	67	70	136	87	140	503	243	157	69	51
15	55	51	66	67	147	83	144	564	275	143	67	62
16	53	51	66	69	152	82	149	435	368	131	65	56
17	52	54	67	72	151	81	148	340	438	121	65	54
18	52	55	67	73	153	80	145	278	552	122	64	54
19	51	55	66	73	155	80	142	229	554	118	63	52
20	50	55	65	94	156	78	141	179	430	113	69	52
21	51	55	65	91	158	94	134	146	328	105	66	51
22	51	54	63	86	149	99	125	127	273	100	65	50
23	50	55	61	83	145	104	116	116	237	93	73	50
24	49	58	57	83	137	108	111	139	207	87	78	50
25	48	57	62	85	135	108	111	156	188	81	80	49
26	63	57	62	86	134	106	107	151	171	79	81	48
27	62	59	62	85	133	104	104	146	158	77	86	48
28	62	58	63	87	130	105	101	135	145	73	102	48
29	61	61	63	85	---	105	99	127	132	69	97	47
30	56	60	65	85	---	106	97	120	122	65	82	46
31	54	---	67	87	---	104	---	118	---	62	81	---
MEAN	53.0	53.5	65.4	79.5	123	100	118	180	217	162	65.7	56.9
MAX	63	61	71	100	158	124	149	564	554	456	102	85
MIN	47	49	57	67	84	78	93	85	111	62	45	46
AC-FT	3,260	3,180	4,020	4,890	6,810	6,180	7,050	11,050	12,890	9,940	4,040	3,380

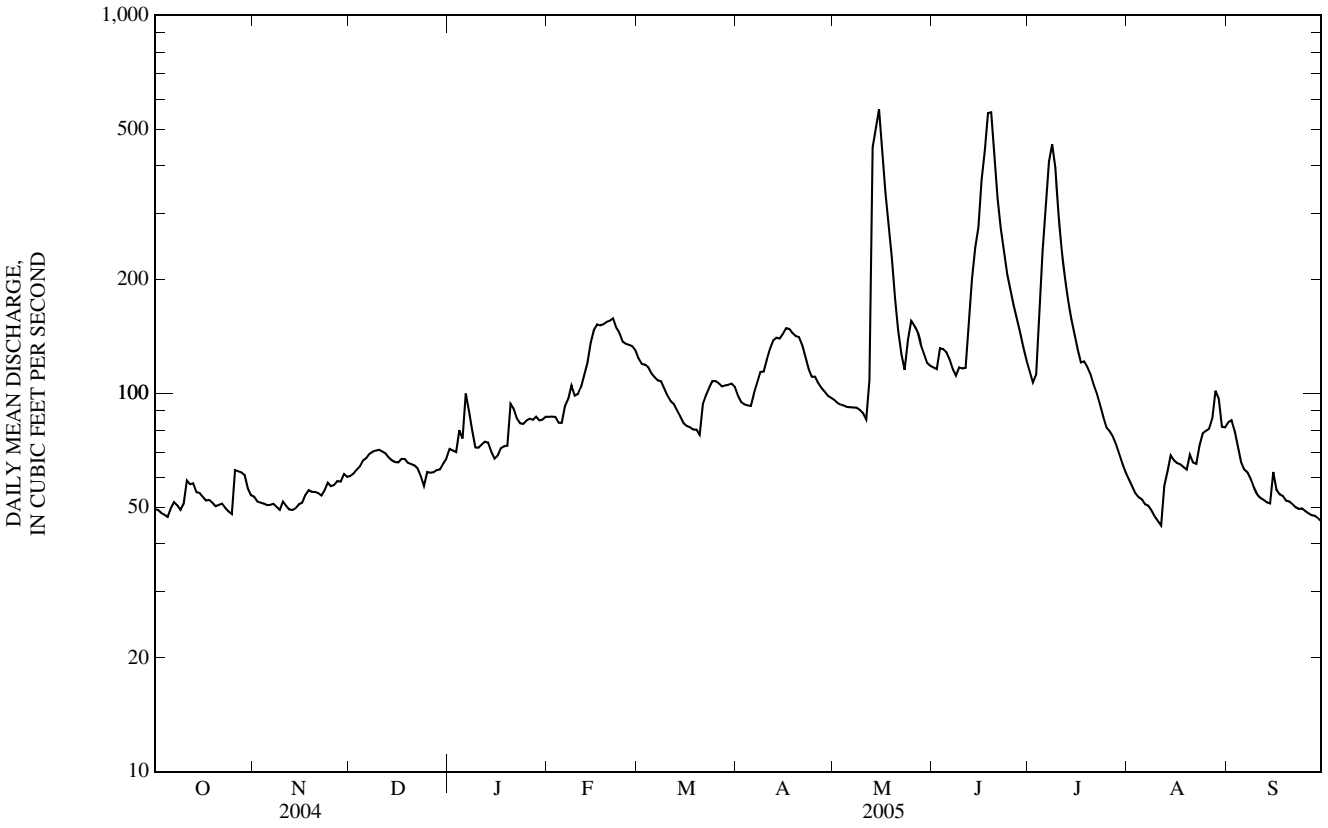
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	157	179	156	183	262	370	435	402	545	354	241	151
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	53.0	53.5	52.5	48.7	50.4	73.1	75.2	65.8	94.9	56.4	41.8	50.8
(WY)	(2005)	(2004)	(2004)	(2004)	(2004)	(2002)	(2002)	(2004)	(2002)	(2003)	(2003)	(2003)

07142680 ARKANSAS RIVER NEAR NICKERSON, KS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL MEAN	82.5		106		286	
HIGHEST ANNUAL MEAN					682	1999
LOWEST ANNUAL MEAN					82.8	2004
HIGHEST DAILY MEAN	730	Jul 7	564	May 15	3,760	Jun 12, 2001
LOWEST DAILY MEAN	41	Jun 14	45	Aug 11	33	Aug 25, 2003
ANNUAL SEVEN-DAY MINIMUM	43	Jun 11	48	Sep 24	34	Aug 22, 2003
MAXIMUM PEAK FLOW			647	May 13	3,870	Jun 12, 2001
MAXIMUM PEAK STAGE			11.45	May 13	15.50	Jun 12, 2001
INSTANTANEOUS LOW FLOW			43	Aug 12	32	Aug 26, 2003
ANNUAL RUNOFF (AC-FT)	59,920		76,700		207,200	
10 PERCENT EXCEEDS	136		156		648	
50 PERCENT EXCEEDS	62		84		136	
90 PERCENT EXCEEDS	48		51		54	

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)
Jun 16	1700	*1,320	*16.79	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	9.9	11	8.5	9.8	5.9	6.7	6.7	6.2	3.1	3.0	11
2	3.0	10	11	7.5	9.1	6.3	6.2	6.8	5.9	2.9	2.8	6.5
3	3.0	10	11	5.4	8.7	5.9	5.9	6.5	7.4	3.4	2.7	4.9
4	2.8	11	11	4.3	8.5	5.8	6.0	6.4	10	189	2.4	4.2
5	2.6	11	e11	5.3	8.2	5.7	5.7	6.4	7.3	304	2.1	4.3
6	2.8	11	11	4.8	11	5.8	9.9	6.4	7.9	103	2.2	3.8
7	3.2	12	11	4.7	15	5.8	11	6.1	5.6	23	2.2	3.3
8	3.4	12	e11	5.3	18	5.6	13	6.1	4.3	12	2.1	3.2
9	3.2	11	e10	4.3	16	5.6	14	5.8	3.5	8.3	2.2	2.9
10	2.9	12	e9.8	4.3	13	5.5	26	5.9	3.9	6.9	2.1	2.6
11	4.7	12	9.5	3.9	12	5.3	27	5.7	5.5	6.4	1.9	2.5
12	4.4	e12	9.4	3.2	13	5.3	107	8.8	21	6.3	2.0	2.4
13	4.5	e12	9.2	3.1	e21	5.3	162	24	340	6.1	2.4	2.3
14	4.4	e12	9.1	2.8	e36	5.1	65	9.8	330	5.8	4.3	2.1
15	4.2	12	8.9	2.7	e60	5.3	33	8.8	153	5.6	4.4	4.9
16	4.2	13	9.0	3.3	40	5.5	21	7.5	1,120	5.3	3.8	4.4
17	3.4	14	9.1	4.2	21	5.8	16	9.7	1,060	5.0	3.1	4.0
18	2.9	14	9.3	4.9	14	5.3	13	7.6	627	6.8	2.9	3.4
19	2.7	12	9.3	7.6	11	5.3	11	6.4	146	6.6	3.0	3.1
20	2.8	12	9.3	14	9.0	5.3	9.8	5.8	42	6.1	8.2	2.9
21	2.7	11	9.4	39	8.9	13	8.6	5.2	21	5.6	20	2.6
22	2.2	11	9.1	46	8.0	32	7.8	4.8	13	5.3	24	2.2
23	2.5	11	9.2	34	7.2	42	7.0	4.5	9.7	4.6	21	2.1
24	3.0	11	8.7	22	6.6	26	6.4	205	7.5	4.0	44	2.0
25	3.3	11	8.8	16	6.5	19	6.5	671	6.0	3.8	34	1.9
26	8.4	11	9.4	13	6.1	15	6.5	410	5.1	3.6	14	1.9
27	e6.9	11	9.8	11	6.1	13	6.5	130	4.4	3.2	14	1.8
28	5.3	11	10	9.5	6.0	11	6.6	31	3.9	3.2	55	1.7
29	6.7	11	9.8	9.5	---	9.4	6.4	16	3.6	3.3	124	1.5
30	8.3	12	8.9	9.4	---	8.2	6.4	10	3.2	3.2	203	1.6
31	8.7	---	8.5	10	---	7.2	---	7.6	---	3.1	36	---
MEAN	4.07	11.5	9.73	10.4	14.6	9.91	21.3	53.3	133	24.5	20.9	3.27
MAX	8.7	14	11	46	60	42	162	671	1,120	304	203	11
MIN	2.2	9.9	8.5	2.7	6.0	5.1	5.7	4.5	3.2	2.9	1.9	1.5
AC-FT	251	686	598	642	813	609	1,270	3,280	7,900	1,500	1,290	194

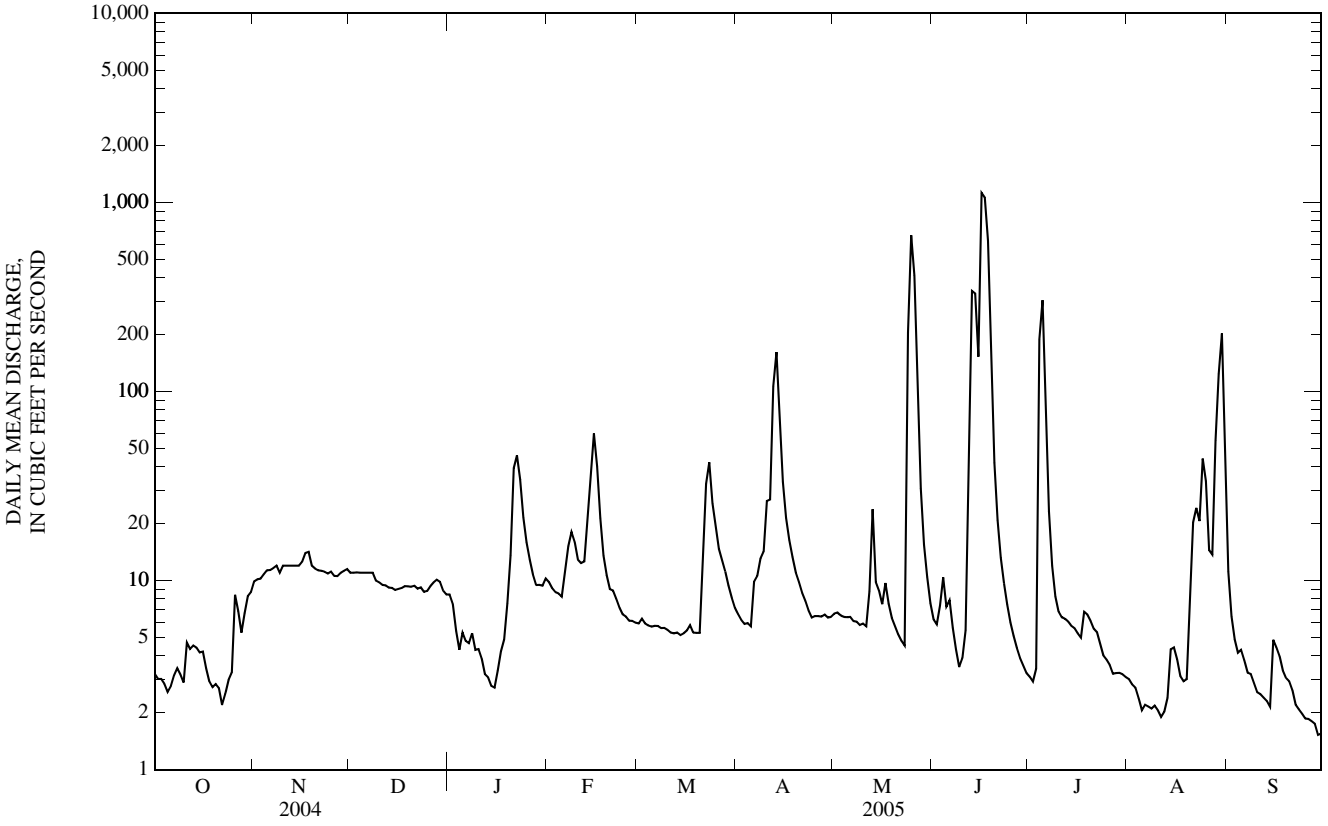
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005, BY WATER YEAR (WY)

MEAN	69.8	27.8	19.4	20.4	46.7	83.4	81.3	125	147	126	84.9	88.9
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1938 - 2005	
ANNUAL MEAN	23.1		26.3		77.4	
HIGHEST ANNUAL MEAN					377	1973
LOWEST ANNUAL MEAN					10.1	1946
HIGHEST DAILY MEAN	814	Mar 6	1,120	Jun 16	16,800	Sep 27, 1973
LOWEST DAILY MEAN	1.8	Sep 20	1.5	Sep 29	0.00	Jul 13, 1938
ANNUAL SEVEN-DAY MINIMUM	2.0	Sep 16	1.8	Sep 24	0.14	Aug 16, 1946
MAXIMUM PEAK FLOW			1,320	Jun 16	24,100	Sep 26, 1973
MAXIMUM PEAK STAGE			16.79	Jun 16	20.38	Sep 26, 1973
INSTANTANEOUS LOW FLOW			1.3	Sep 30	0.00	at times
ANNUAL RUNOFF (AC-FT)	16,750		19,030		56,110	
10 PERCENT EXCEEDS	15		26		129	
50 PERCENT EXCEEDS	7.6		6.9		12	
90 PERCENT EXCEEDS	3.0		2.8		3.2	

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. 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)
Jun 9	1500	2,750	6.35	Jul 4	1100	2,100	5.82
Jun 13	1400	2,820	6.40	Aug 25	1100	2,430	6.10
Jun 17	1000	*3,040	*6.56				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	119	131	127	164	213	210	171	262	263	166	281
2	124	116	130	131	166	209	198	167	216	246	165	222
3	122	110	130	143	168	203	194	163	208	291	159	187
4	121	107	130	166	165	208	191	161	354	1,640	155	168
5	116	107	136	163	162	208	188	158	310	919	150	152
6	119	110	141	287	175	204	214	156	261	959	146	144
7	126	111	137	222	205	207	245	154	212	855	144	142
8	127	109	137	201	219	201	216	151	193	667	141	141
9	116	108	136	167	193	199	216	153	1,560	571	135	132
10	118	120	137	159	191	199	219	151	1,030	488	129	127
11	157	124	134	e160	196	193	232	144	547	418	123	126
12	154	110	134	152	200	193	236	153	769	381	119	129
13	130	109	130	150	233	186	252	450	2,410	368	154	129
14	122	108	128	133	318	180	273	951	2,020	333	184	127
15	122	109	126	131	327	184	317	1,060	1,570	309	143	142
16	120	113	127	132	304	180	272	683	1,150	289	133	142
17	119	118	127	139	300	176	244	506	2,280	272	135	127
18	121	124	127	138	279	175	226	404	1,660	273	118	121
19	121	129	125	142	272	172	219	331	1,770	276	111	113
20	120	126	123	185	271	170	218	286	1,590	261	178	112
21	119	120	124	314	267	201	219	244	807	254	174	107
22	118	117	121	273	258	273	206	217	584	248	136	104
23	115	122	109	201	250	348	191	200	475	238	147	102
24	111	147	109	196	241	339	181	232	400	223	179	104
25	108	154	112	203	230	291	180	248	360	206	1,680	102
26	149	138	118	182	225	252	184	392	333	199	765	101
27	184	133	121	168	223	232	179	712	312	199	331	100
28	155	128	122	165	220	219	179	551	297	192	248	102
29	143	136	121	160	---	217	177	337	282	186	218	100
30	130	138	122	159	---	217	174	255	275	177	198	100
31	121	---	124	162	---	213	---	244	---	171	236	---
MEAN	128	121	127	175	229	215	215	329	817	399	232	133
MAX	184	154	141	314	327	348	317	1,060	2,410	1,640	1,680	281
MIN	108	107	109	127	162	170	174	144	193	171	111	100
AC-FT	7,850	7,180	7,790	10,730	12,740	13,210	12,790	20,200	48,590	24,540	14,280	7,910

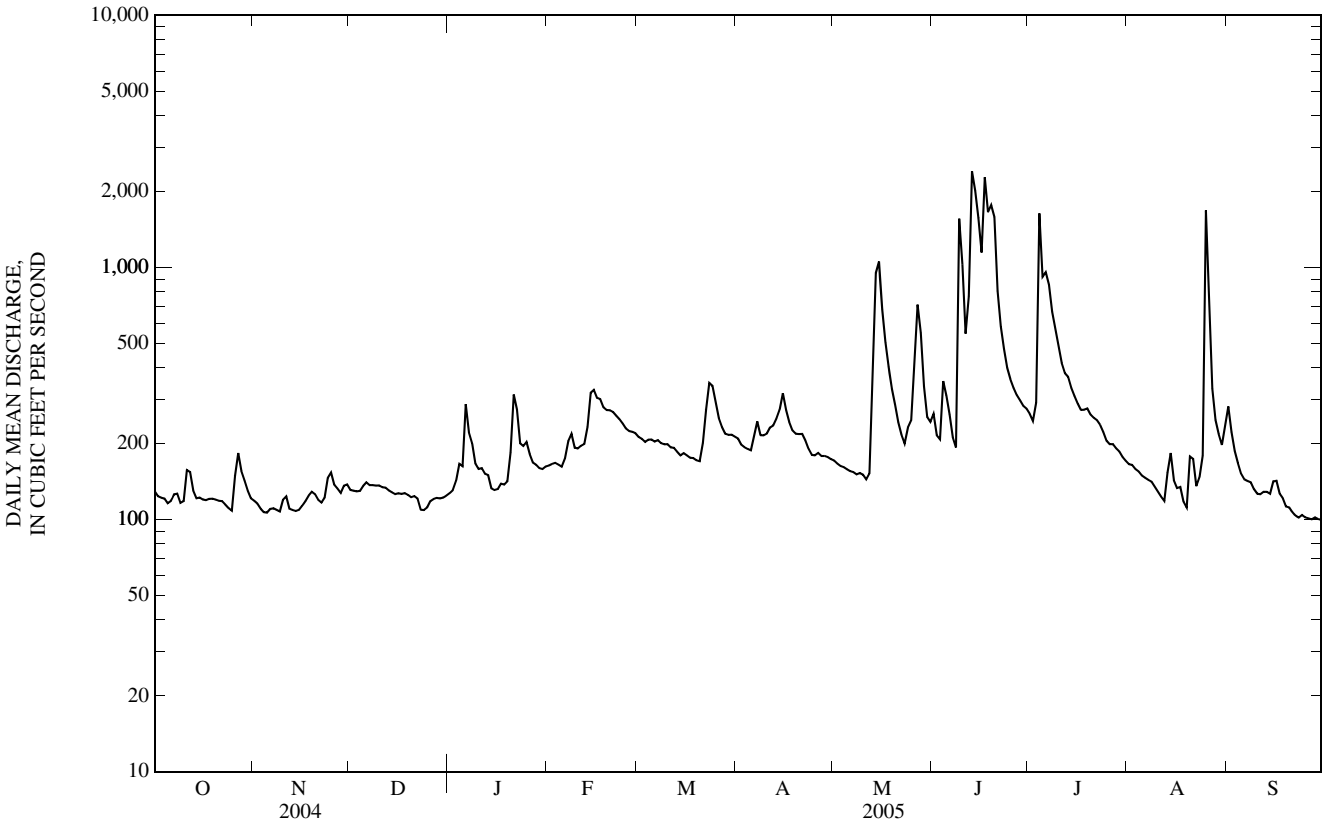
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	521	349	276	265	375	650	681	640	858	750	482	477
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL MEAN	227		259		527	
HIGHEST ANNUAL MEAN					1,667	1974
LOWEST ANNUAL MEAN					108	1991
HIGHEST DAILY MEAN	2,580	Jul 25	2,410	Jun 13	24,200	Sep 30, 1973
LOWEST DAILY MEAN	84	Jan 6	100	Sep 27	28	Oct 14, 1980
ANNUAL SEVEN-DAY MINIMUM	99	Jan 1	101	Sep 24	33	Oct 9, 1980
MAXIMUM PEAK FLOW			3,040	Jun 17	24,700	Sep 28, 1973
MAXIMUM PEAK STAGE			6.56	Jun 17	12.95	Sep 28, 1973
INSTANTANEOUS LOW FLOW			95	Sep 27	27	Oct 13, 1980
ANNUAL RUNOFF (AC-FT)	164,600		187,800		382,100	
10 PERCENT EXCEEDS	415		373		1,100	
50 PERCENT EXCEEDS	138		175		262	
90 PERCENT EXCEEDS	109		118		98	

e Estimated



07143375 ARKANSAS RIVER NEAR MAIZE, KS

LOCATION.--Lat 37°46'53", long 97°23'22", 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 1,317.08 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 flows 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)
Mar 23	0530	5,170	9.99	Jun 13	1800	13,600	13.06
May 14	1300	5,420	10.19	Jun 18	0100	7,190	10.88
Jun 10	0000	*24,500	*15.01	Jul 4	2100	3,550	9.12
Jun 11	2000	11,500	12.42	Aug 26	0200	5,790	10.28

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	151	182	175	234	271	240	182	293	189	222	349
2	119	141	178	172	235	268	235	186	281	175	215	347
3	115	141	177	206	239	265	232	186	306	178	206	289
4	113	135	177	e300	234	260	236	186	444	1,820	199	247
5	114	131	184	e290	227	258	239	187	1,080	1,980	194	215
6	e121	135	188	e900	247	255	234	187	567	1,090	185	192
7	154	141	188	e550	266	257	246	184	324	1,070	177	177
8	141	143	185	e400	302	255	259	182	287	890	173	167
9	130	142	186	e300	287	256	245	220	12,800	753	164	158
10	131	158	182	e270	268	254	236	181	10,000	661	160	152
11	181	161	178	e250	266	250	241	166	9,020	581	161	148
12	182	151	181	e230	279	245	263	160	6,850	539	160	150
13	171	138	173	e220	304	240	247	339	11,700	490	313	145
14	147	133	166	e190	422	237	253	4,690	9,490	456	477	137
15	142	133	173	e175	665	236	280	4,220	5,020	412	396	160
16	139	140	174	e180	375	232	301	3,100	2,470	381	247	152
17	133	151	171	e190	349	229	277	770	3,180	358	227	155
18	133	155	173	e200	337	224	260	457	5,160	360	211	149
19	132	155	170	e220	340	215	250	368	2,490	365	188	143
20	133	158	173	e260	329	213	244	311	1,660	344	186	139
21	137	162	171	381	320	253	241	267	1,200	325	221	137
22	143	158	e170	417	316	1,500	233	228	710	311	232	136
23	142	167	e130	357	312	4,680	216	207	546	296	425	133
24	133	205	e120	306	303	2,570	210	205	440	279	381	132
25	128	234	e140	280	295	724	213	205	368	263	1,560	127
26	168	224	e170	278	294	332	211	202	321	264	3,970	121
27	180	200	e200	255	291	292	203	348	282	265	1,140	116
28	220	183	219	247	287	272	205	571	248	250	531	115
29	195	184	177	246	---	259	197	464	222	243	1,310	113
30	167	185	180	237	---	255	188	348	205	237	624	113
31	156	---	175	240	---	244	---	299	---	230	361	---
MEAN	146	160	175	288	308	526	238	639	2,932	518	491	167
MAX	220	234	219	900	665	4,680	301	4,690	12,800	1,980	3,970	349
MIN	113	131	120	172	227	213	188	160	205	175	160	113
AC-FT	8,990	9,510	10,730	17,700	17,100	32,330	14,150	39,290	174,500	31,850	30,180	9,950

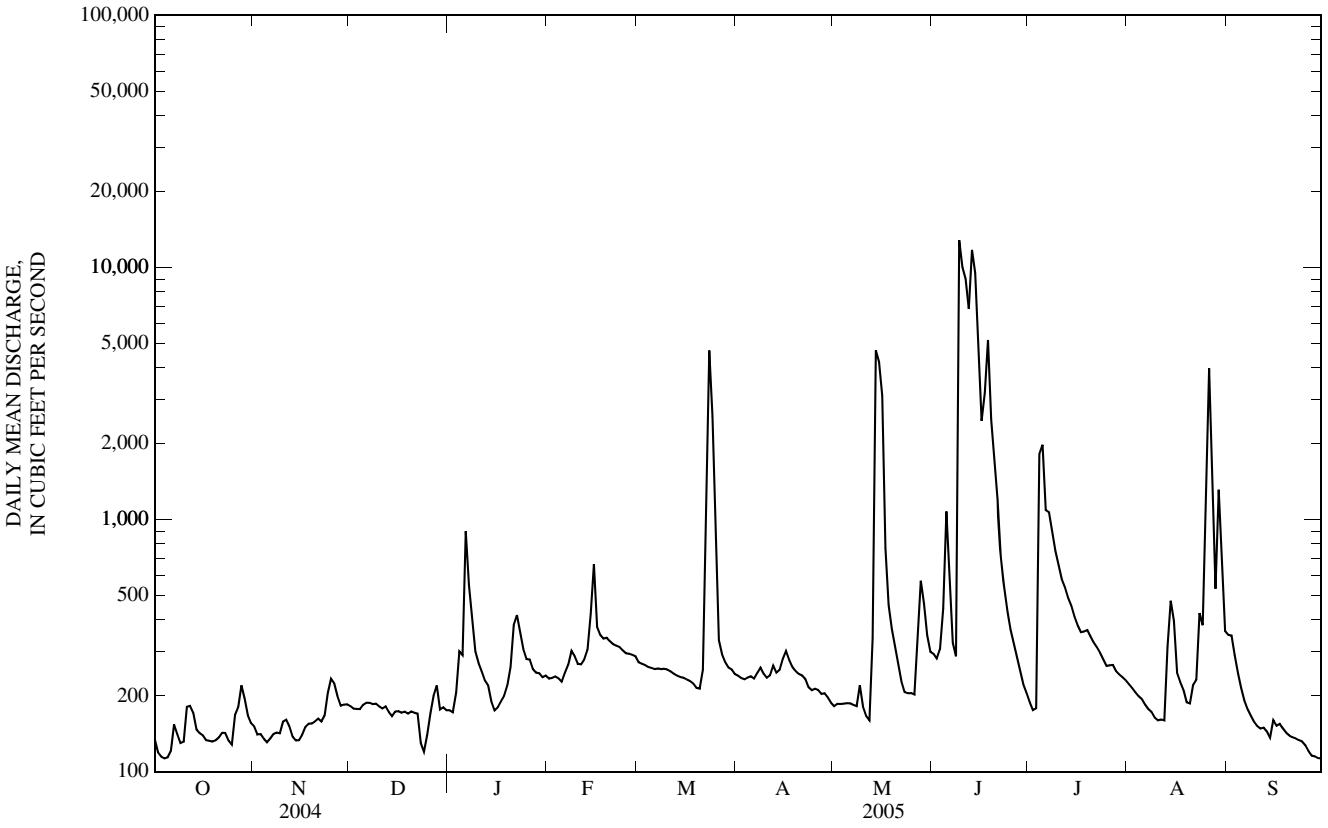
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	398	569	266	244	500	799	573	1,102	1,318	1,247	616	395
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL MEAN	430		547		670	
HIGHEST ANNUAL MEAN					2,756	1993
LOWEST ANNUAL MEAN					83.6	1991
HIGHEST DAILY MEAN	16,100	Mar 5	12,800	Jun 9	42,500	Jul 15, 1993
LOWEST DAILY MEAN	47	Jan 7	113	Oct 4	3.5	Oct 17, 1991
ANNUAL SEVEN-DAY MINIMUM	72	Jan 5	120	Sep 24	4.0	Oct 14, 1991
MAXIMUM PEAK FLOW			24,500	Jun 10	45,900	Nov 1, 1998
MAXIMUM PEAK STAGE			15.01	Jun 10	16.93	Nov 1, 1998
INSTANTANEOUS LOW FLOW			107	Oct 4	3.4	Oct 16, 1991
ANNUAL RUNOFF (AC-FT)	312,300		396,300		485,200	
10 PERCENT EXCEEDS	594		639		1,140	
50 PERCENT EXCEEDS	180		232		260	
90 PERCENT EXCEEDS	101		140		69	

e Estimated



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)
Jan 22	0500	1,000	8.99	Jun 5	1500	1,770	12.17
Feb 14	1900	1,480	11.12	Jun 14	0545	4,150	18.78
Mar 23	1300	2,450	14.36	Jun 17	2200	3,210	16.45
May 15	0315	*5,100	*20.85				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

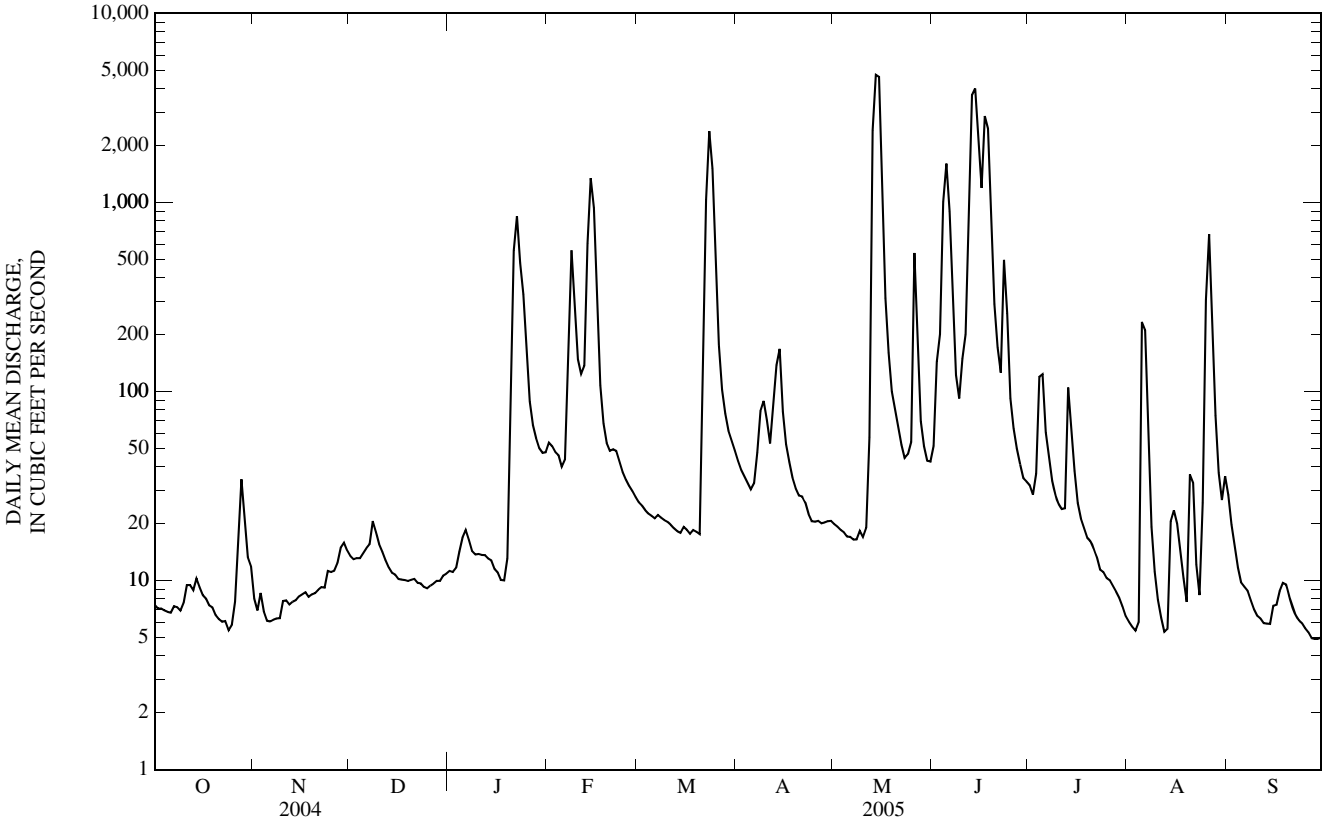
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	8.0	13	11	54	26	43	20	52	32	6.1	28
2	7.1	6.9	13	11	51	25	38	19	144	28	5.7	20
3	7.1	8.6	13	12	48	24	36	19	201	37	5.4	15
4	7.0	6.9	13	14	46	23	33	18	1,010	120	6.0	12
5	6.8	6.1	14	17	40	22	30	17	1,610	123	233	9.8
6	6.8	6.1	15	19	44	21	33	17	898	61	212	9.3
7	7.3	6.2	16	16	219	22	48	16	291	45	47	8.8
8	7.2	6.3	21	14	558	22	79	17	122	34	19	7.9
9	6.9	6.3	18	14	299	21	89	18	92	28	11	7.0
10	7.6	7.8	16	14	148	20	71	17	149	25	7.9	6.5
11	9.5	7.9	14	14	124	20	53	19	201	24	6.4	6.3
12	9.5	7.5	13	14	137	19	87	57	1,250	24	5.4	6.0
13	8.9	7.7	12	13	607	18	138	2,410	3,690	105	5.6	5.9
14	10	7.9	11	13	1,340	18	168	4,730	4,000	66	21	5.9
15	9.2	8.2	11	12	936	19	78	4,620	2,320	38	23	7.4
16	8.4	8.5	10	11	271	19	53	1,440	1,190	26	20	7.4
17	8.0	8.7	10	10	108	18	42	312	2,860	21	15	8.8
18	7.4	8.2	10	10	68	19	35	160	2,460	19	10	9.7
19	7.2	8.5	9.9	13	53	18	31	100	770	17	7.7	9.5
20	6.6	8.6	10	71	49	18	28	80	290	16	36	8.3
21	6.3	8.9	10	556	49	61	28	65	171	15	33	7.4
22	6.1	9.2	9.7	848	48	1,030	26	52	126	13	12	6.6
23	6.1	9.2	9.7	479	43	2,380	22	45	497	11	8.4	6.2
24	5.5	11	9.3	327	37	1,510	21	47	259	11	26	5.9
25	5.8	11	9.1	170	34	430	20	54	92	10	305	5.6
26	7.7	11	9.4	89	32	176	21	540	64	10	679	5.3
27	15	12	9.6	66	30	102	20	183	50	9.4	250	5.0
28	34	15	10	57	28	76	20	70	41	8.7	75	4.9
29	22	16	10	50	---	62	21	51	35	8.1	37	4.9
30	13	14	11	47	---	55	21	43	33	7.3	27	5.0
31	12	---	11	48	---	49	---	43	---	6.5	36	---
MEAN	9.34	8.94	12.0	98.7	196	205	47.8	494	832	32.2	70.7	8.54
MAX	34	16	21	848	1,340	2,380	168	4,730	4,000	123	679	28
MIN	5.5	6.1	9.1	10	28	18	20	16	33	6.5	5.4	4.9
AC-FT	574	532	737	6,070	10,910	12,580	2,840	30,350	49,520	1,980	4,350	508

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	230	168	52.9	40.4	146	390	244	385	399	301	179	107
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL MEAN	161		167		221	
HIGHEST ANNUAL MEAN					935	1993
LOWEST ANNUAL MEAN					16.2	1991
HIGHEST DAILY MEAN	8,410	Mar 6	4,730	May 14	15,300	Nov 2, 1998
LOWEST DAILY MEAN	5.5	Oct 24	4.9	Sep 28	0.00	Aug 15, 1991
ANNUAL SEVEN-DAY MINIMUM	6.2	Oct 19	5.2	Sep 24	0.02	Oct 7, 1991
MAXIMUM PEAK FLOW			5,100	May 15	30,100	Oct 12, 1973
MAXIMUM PEAK STAGE			20.85	May 15	27.42	Oct 12, 1973
INSTANTANEOUS LOW FLOW			4.7	Sep 27	0.00	Aug 15, 1991
ANNUAL RUNOFF (AC-FT)	116,700		121,000		159,800	
10 PERCENT EXCEEDS	111		264		309	
50 PERCENT EXCEEDS	16		19		21	
90 PERCENT EXCEEDS	8.0		6.9		5.1	



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)
Jan 22	1000	1,070	11.97	Jun 5	1500	1,680	14.61
Feb 14	2300	1,540	14.10	Jun 14	0600	3,870	21.21
Mar 23	1300	2,760	17.20	Jun 18	0100	3,180	19.36
May 15	0900	*5,210	*22.68				

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	20	16	47	26	73	25	89	46	10	53
2	10	9.6	19	16	47	24	60	24	207	40	9.0	33
3	11	9.2	19	19	42	23	48	23	228	50	9.1	25
4	11	10	19	51	40	22	43	23	952	165	8.2	18
5	11	9.7	19	95	32	21	41	22	1,550	208	170	15
6	11	9.6	20	41	40	21	42	22	1,110	106	308	14
7	13	10	22	e26	137	20	53	22	464	70	93	13
8	11	10	24	e19	562	20	105	24	244	48	25	13
9	11	11	28	19	375	19	136	42	433	36	12	12
10	12	13	24	19	176	19	119	30	362	31	8.8	12
11	13	12	23	19	154	18	88	26	586	28	7.5	11
12	12	11	21	19	132	18	103	35	1,130	33	7.1	12
13	11	11	18	18	496	17	183	1,940	3,300	120	8.0	11
14	11	12	17	16	1,330	16	246	4,530	3,790	105	13	11
15	12	13	16	16	1,200	17	147	5,050	2,720	63	21	15
16	11	13	15	e15	454	18	89	2,350	1,270	32	23	12
17	11	15	14	e14	195	18	72	470	2,710	24	17	13
18	10	14	15	e14	115	17	59	254	2,760	24	13	14
19	10	14	15	21	81	17	48	176	1,130	20	10	15
20	11	14	15	76	67	17	41	138	475	19	23	14
21	10	14	15	457	65	48	39	112	314	17	67	14
22	11	14	14	960	66	876	36	86	240	17	22	13
23	9.9	16	14	574	59	2,640	31	74	507	14	11	12
24	11	39	14	365	47	2,030	28	95	445	13	14	13
25	10	32	14	227	40	692	27	88	188	12	390	12
26	15	25	14	128	35	293	26	521	120	12	768	11
27	15	22	14	88	32	179	26	376	90	12	436	11
28	37	21	15	67	28	129	25	139	71	11	155	11
29	33	23	15	49	---	103	25	98	58	11	74	11
30	19	23	16	40	---	90	26	83	48	11	46	12
31	15	---	15	40	---	81	---	82	---	10	45	---
MEAN	13.2	15.4	17.5	114	218	244	69.5	548	920	45.4	91.1	15.2
MAX	37	39	28	960	1,330	2,640	246	5,050	3,790	208	768	53
MIN	9.9	9.2	14	14	28	16	25	22	48	10	7.1	11
AC-FT	813	917	1,080	7,030	12,090	14,970	4,140	33,680	54,730	2,790	5,600	904

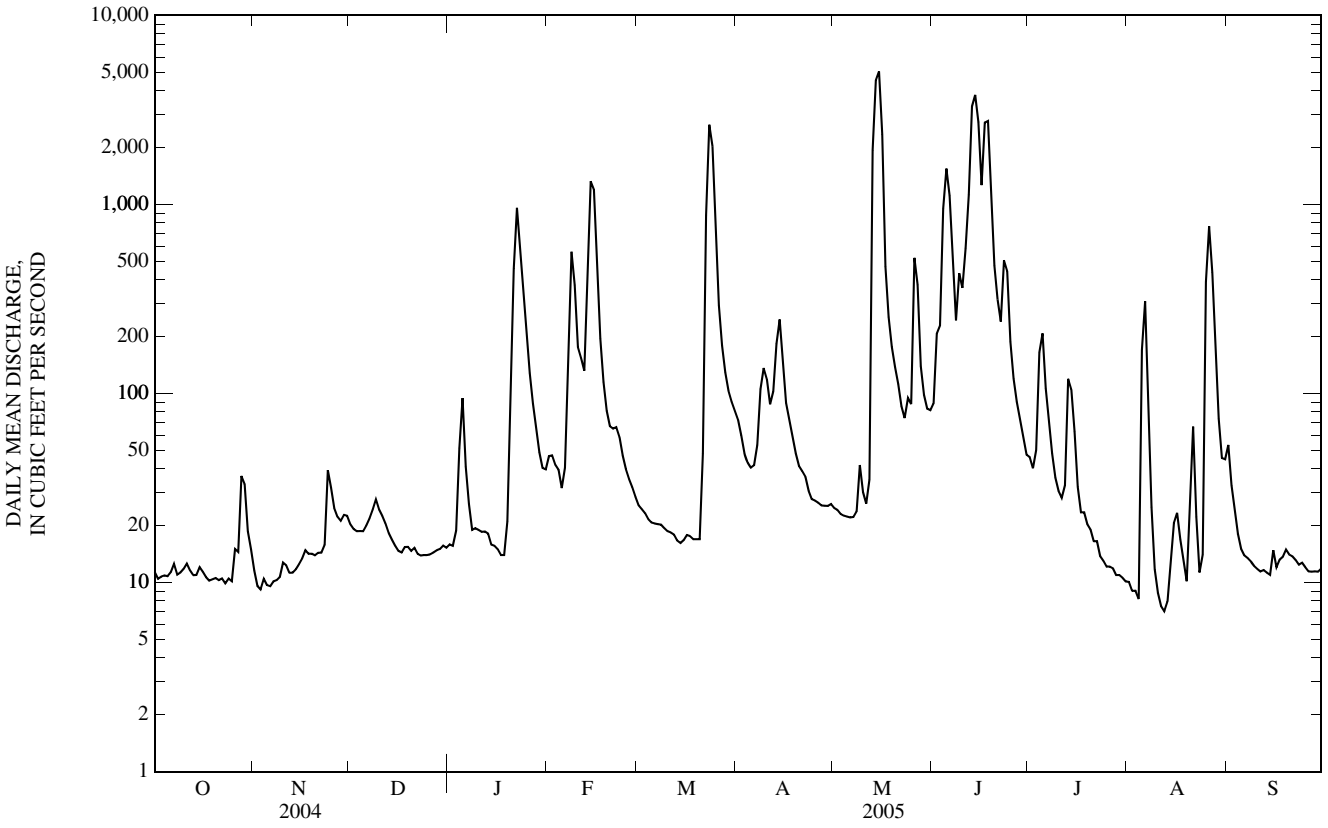
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	215	230	50.3	47.9	181	487	238	252	431	264	159	116
MAX	795	1,818	247	122	636	1,551	815	548	1,030	876	620	360
(WY)	(2004)	(1999)	(1998)	(1999)	(2001)	(2000)	(1999)	(2005)	(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)	(2005)	(2002)	(2003)	(2003)	(1996)	(1996)	(2004)	(1998)	(2003)	(2001)	(2002)

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL MEAN	174		192		222	
HIGHEST ANNUAL MEAN					528	1999
LOWEST ANNUAL MEAN					88.7	2002
HIGHEST DAILY MEAN	6,940	Mar 6	5,050	May 15	9,570	Nov 3, 1998
LOWEST DAILY MEAN	9.2	Nov 3	7.1	Aug 12	1.2	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	9.7	Nov 2	9.7	Nov 2	1.5	Sep 6, 2002
MAXIMUM PEAK FLOW			5,210	May 11	10,300	Nov 2, 1998
MAXIMUM PEAK STAGE			22.68	May 11	27.13	Nov 2, 1998
INSTANTANEOUS LOW FLOW			6.5	Aug 12	0.98	Aug 7, 2002
ANNUAL RUNOFF (AC-FT)	126,300		138,700		161,200	
10 PERCENT EXCEEDS	161		434		400	
50 PERCENT EXCEEDS	22		24		28	
90 PERCENT EXCEEDS	11		11		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 2004 to September 2005.

INSTRUMENTATION.--Multparameter water-quality monitor.

REMARKS.--Records good. 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, 2,100 FNU, Aug. 12, 2004; minimum, 1.0 FNU, Jan. 8, 2002.
TURBIDITY (YSI 6136 sensor): Maximum, 1,130 FNU, May 26, 2005; minimum, 4.2 FNU, Dec. 26, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,940 microsiemens/cm, Dec. 8; minimum, 136 microsiemens/cm, June 13.
pH: Maximum, 8.6 standard units, Apr. 5; minimum, 6.6 standard units, Aug. 6.
WATER TEMPERATURE: Maximum, 29.8°C, July 23; minimum, 0.0°C, Jan. 22.
DISSOLVED OXYGEN: Maximum, 20.5 mg/L, Jan. 18; minimum, 3.7 mg/L, May 15.
TURBIDITY (YSI 6026 sensor): Maximum, >1,370 FNU, May 26; minimum, 7.4 FNU, Dec. 26.
TURBIDITY (YSI 6136 sensor): Maximum, 1,130 FNU, May 26; minimum, 4.2 FNU, Dec. 26.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	1,340	1,180	1,280	1,330	1,270	1,310	1,160	1,150	1,160
2	928	905	917	1,180	1,060	1,100	1,360	1,280	1,300	1,180	1,150	1,160
3	969	928	947	1,080	1,060	1,070	1,550	1,360	1,460	1,180	1,080	1,130
4	1,010	969	991	1,260	1,080	1,150	1,630	1,550	1,610	1,180	516	1,010
5	1,020	1,000	1,010	1,340	1,260	1,320	1,620	1,600	1,610	931	488	766
6	1,010	977	993	1,320	1,210	1,250	1,860	1,620	1,760	1,170	927	1,050
7	978	939	959	1,210	1,150	1,170	1,910	1,860	1,890	1,180	1,140	1,170
8	946	931	938	1,150	1,070	1,100	1,940	1,900	1,920	1,140	1,050	1,080
9	946	926	937	1,070	995	1,020	1,900	1,730	1,790	1,280	1,060	1,170
10	931	896	922	1,010	883	946	1,740	1,640	1,700	1,450	1,280	1,360
11	899	849	869	892	840	859	1,690	1,640	1,660	1,550	1,450	1,520
12	902	851	877	896	889	892	1,720	1,690	1,700	1,560	1,550	1,560
13	901	894	897	893	883	889	1,720	1,640	1,690	1,570	1,560	1,570
14	897	885	892	889	879	883	1,640	1,540	1,590	1,610	1,570	1,600
15	893	880	886	881	870	874	1,540	1,450	1,490	1,610	1,530	1,560
16	897	889	891	873	858	869	1,450	1,410	1,430	1,530	1,500	1,500
17	923	897	908	873	860	868	1,410	1,370	1,390	1,500	1,480	1,490
18	952	923	942	882	861	871	1,370	1,340	1,350	1,500	1,470	1,480
19	964	952	960	891	874	880	1,340	1,310	1,320	1,490	1,380	1,460
20	991	963	976	916	891	904	1,310	1,260	1,280	1,570	1,080	1,370
21	1,020	990	1,010	925	905	914	1,260	1,220	1,240	1,400	431	790
22	1,030	1,010	1,020	927	921	925	1,220	1,200	1,210	698	281	411
23	1,020	978	996	939	843	924	1,210	1,190	1,200	284	247	264
24	978	945	963	886	712	796	1,210	1,200	1,210	275	251	263
25	953	926	939	863	792	816	1,210	1,160	1,180	308	271	290
26	929	815	874	936	863	907	1,170	1,160	1,160	352	308	327
27	901	767	821	944	934	940	1,180	1,140	1,170	407	352	381
28	917	893	905	1,020	940	974	1,230	1,140	1,180	457	407	436
29	970	903	929	1,120	1,020	1,080	1,240	1,210	1,230	494	457	468
30	1,420	968	1,220	1,270	1,120	1,210	1,230	1,200	1,220	565	494	524
31	1,430	1,330	1,370	---	---	---	1,210	1,160	1,200	656	565	613
MONTH	1,430	767	959	1,340	712	989	1,940	1,140	1,430	1,610	247	998

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 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	724	656	701	1,160	1,140	1,160	893	841	870	1,330	1,280	1,310
2	771	724	745	1,210	1,160	1,190	---	893	---	1,360	1,290	1,340
3	808	770	776	1,250	1,210	1,230	---	---	---	1,380	1,340	1,360
4	830	779	807	1,260	1,250	1,260	1,010	---	---	1,420	1,380	1,390
5	879	779	822	1,260	1,240	1,250	1,050	1,010	1,030	1,450	1,420	1,440
6	922	868	899	1,250	1,240	1,250	1,060	1,040	1,050	1,460	1,440	1,460
7	1,030	589	905	1,260	1,240	1,250	1,110	1,020	1,080	1,440	1,420	1,430
8	622	392	501	1,290	1,250	1,270	1,410	1,010	1,250	1,420	1,300	1,390
9	402	369	383	1,380	1,290	1,340	1,460	1,200	1,320	1,320	794	1,160
10	561	392	523	1,400	1,310	1,360	1,730	1,290	1,520	1,340	1,290	1,320
11	565	482	527	1,350	1,320	1,330	1,340	1,100	1,210	1,310	1,260	1,290
12	586	514	547	1,360	1,320	1,340	1,100	913	1,010	1,370	1,210	1,330
13	530	374	486	1,400	1,340	1,370	913	652	737	1,420	166	478
14	375	259	295	1,380	1,340	1,360	1,170	649	925	189	146	170
15	308	259	286	1,380	1,340	1,350	869	713	797	198	170	186
16	343	281	308	1,410	1,350	1,380	744	708	726	316	198	244
17	418	343	382	1,440	1,400	1,420	813	744	778	447	316	386
18	480	418	448	1,440	1,320	1,410	863	813	835	547	447	499
19	551	480	516	1,330	1,210	1,300	922	863	892	643	547	595
20	622	551	585	1,380	1,270	1,340	---	922	---	736	643	690
21	744	622	671	1,380	897	1,230	---	---	---	788	736	766
22	860	744	793	1,280	328	639	1,090	---	---	857	788	819
23	944	860	922	342	254	293	1,110	1,090	1,110	923	857	891
24	1,040	944	989	268	243	253	1,160	1,110	1,140	961	757	865
25	1,070	1,040	1,060	377	268	322	1,190	1,160	1,180	1,050	961	1,020
26	1,040	998	1,010	476	377	424	1,220	1,180	1,200	1,890	234	794
27	1,060	1,010	1,030	573	476	525	1,230	1,200	1,220	494	266	416
28	1,140	1,060	1,100	675	573	621	1,250	1,200	1,230	600	491	547
29	---	---	---	742	675	710	1,270	1,220	1,260	675	600	636
30	---	---	---	815	742	778	1,310	1,260	1,290	751	675	710
31	---	---	---	843	815	834	---	---	---	781	751	768
MONTH	1,140	259	679	1,440	243	1,060	1,730	649	1,070	1,890	146	894

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 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	865	770	838	967	899	929	1,030	1,020	1,020	454	405	423
2	1,090	753	925	988	904	949	1,030	1,020	1,020	807	454	613
3	855	593	712	976	909	953	1,020	1,010	1,020	1,360	807	1,180
4	885	278	441	1,020	496	802	1,020	992	1,010	1,280	898	1,090
5	366	261	303	721	430	608	1,070	150	763	898	662	771
6	303	284	287	650	478	537	205	152	174	662	587	627
7	381	303	348	795	650	735	378	195	271	587	566	577
8	451	352	417	---	---	---	768	378	525	570	565	567
9	469	284	367	---	---	---	996	768	918	579	566	573
10	617	366	474	---	---	---	984	904	944	577	566	570
11	389	264	309	---	---	---	904	882	891	574	565	571
12	353	148	252	963	575	867	888	787	852	579	572	576
13	200	136	166	992	263	749	789	730	754	583	563	578
14	234	186	214	425	264	358	766	705	727	586	570	578
15	272	234	255	761	425	586	807	756	770	574	508	539
16	291	190	245	962	761	870	944	639	809	611	541	591
17	269	168	193	1,000	922	955	639	558	605	621	611	617
18	212	186	197	1,050	884	959	699	416	519	632	620	627
19	293	190	229	884	---	---	762	690	731	638	604	625
20	390	293	345	---	733	---	1,050	710	880	644	604	631
21	465	389	427	766	736	753	1,030	295	587	685	641	663
22	527	465	499	795	757	781	445	319	408	706	685	698
23	1,080	411	646	795	785	790	448	440	444	775	706	741
24	439	345	375	845	793	822	440	358	417	819	775	806
25	511	383	445	919	826	884	454	143	290	814	797	808
26	603	511	554	930	919	925	323	163	231	819	806	814
27	---	603	---	951	927	940	457	202	287	808	785	798
28	767	---	---	1,010	948	981	310	278	295	785	762	772
29	852	767	808	972	930	954	363	310	335	766	759	762
30	899	852	872	1,010	926	998	395	362	377	774	766	770
31	---	---	---	1,020	1,000	1,010	412	395	405	---	---	---
MONTH	1,090	136	434	1,050	263	828	1,070	143	622	1,360	405	685
YEAR	1,940	136	890									

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

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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

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

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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

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

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.8	7.8	8.2	7.8	8.0	8.2	8.0	8.1	7.6	7.5	7.5
2	8.0	7.8	7.9	8.3	7.8	8.1	8.1	7.9	8.0	7.7	7.6	7.6
3	7.8	7.7	7.7	8.2	7.8	8.1	8.0	7.9	8.0	8.1	7.7	7.8
4	7.8	7.1	7.2	8.0	7.3	7.8	8.0	7.8	7.9	8.3	7.9	8.1
5	7.2	7.1	7.2	7.4	7.2	7.3	8.0	6.8	7.8	8.2	8.0	8.1
6	7.3	7.2	7.3	7.3	7.2	7.2	6.8	6.6	6.7	8.3	7.9	8.1
7	7.5	7.3	7.4	7.6	7.3	7.4	7.1	6.8	7.0	8.1	7.9	8.0
8	7.6	7.5	7.5	7.5	7.4	7.5	7.3	7.1	7.2	8.3	7.8	8.0
9	7.6	7.3	7.5	---	7.5	---	7.6	7.2	7.3	8.3	7.8	8.0
10	7.6	7.4	7.5	---	---	---	8.0	7.4	7.6	8.4	7.9	8.1
11	7.4	7.2	7.3	8.4	---	---	8.6	7.7	7.9	8.4	7.9	8.2
12	7.3	7.0	7.2	8.3	7.6	8.1	8.6	8.1	8.3	8.4	8.0	8.2
13	7.1	6.9	7.0	7.8	7.1	7.7	8.3	8.0	8.1	8.3	8.0	8.1
14	7.2	7.0	7.1	7.3	7.1	7.2	8.1	7.9	8.0	8.3	8.0	8.1
15	7.2	7.2	7.2	7.8	7.3	7.4	8.3	7.8	8.0	8.2	7.9	8.1
16	7.3	7.1	7.2	8.0	7.7	7.7	8.2	7.9	8.0	8.3	7.9	8.0
17	7.2	7.0	7.0	8.2	7.8	7.9	8.1	7.7	7.9	8.3	8.0	8.2
18	7.1	7.0	7.1	8.1	7.8	7.9	8.3	7.7	8.0	8.2	8.0	8.1
19	7.3	7.1	7.2	8.1	7.7	7.9	8.4	8.0	8.2	8.3	8.1	8.2
20	7.4	7.3	7.3	8.1	7.7	7.9	8.5	8.2	8.3	8.6	8.3	8.4
21	7.4	7.4	7.4	8.3	7.8	8.1	8.3	7.2	7.6	8.4	8.2	8.3
22	7.5	7.4	7.5	8.4	8.0	8.3	7.4	7.2	7.3	8.3	8.0	8.2
23	7.7	7.3	7.5	8.4	8.1	8.3	7.4	7.3	7.3	8.2	7.9	8.0
24	7.4	7.3	7.4	8.3	8.1	8.3	7.5	7.4	7.4	8.1	7.9	8.0
25	7.5	7.4	7.4	8.3	8.1	8.2	7.7	7.0	7.5	8.1	7.8	7.9
26	7.6	7.4	7.5	8.2	7.9	8.1	7.2	7.0	7.1	8.1	7.9	8.0
27	7.6	7.5	7.5	8.2	7.9	8.0	7.2	7.0	7.1	8.0	7.8	7.9
28	7.7	7.6	---	8.3	8.1	8.2	7.3	7.2	7.3	8.0	7.8	7.9
29	7.9	7.6	7.7	8.2	8.0	8.2	7.4	7.3	7.4	8.0	7.8	7.9
30	8.1	7.7	7.8	8.3	8.1	8.2	7.4	7.4	7.4	8.0	7.8	7.9
31	---	---	---	8.2	8.0	8.2	7.5	7.4	7.4	---	---	---
MAX	8.1	7.8	7.9	8.4	8.1	8.3	8.6	8.2	8.3	8.6	8.3	8.4
MIN	7.1	6.9	7.0	7.3	7.1	7.2	6.8	6.6	6.7	7.6	7.5	7.5

YEAR			
	MAX	MAXIMUM 8.6	MINIMUM 6.8
	MIN	MAXIMUM 8.4	MINIMUM 6.6
	MEDIAN	MAXIMUM 8.4	MINIMUM 6.7

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

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.5	17.6	18.7	16.5	15.3	15.9	4.5	3.8	4.2	8.6	5.6	7.3
2	17.6	15.4	16.3	15.3	11.8	13.4	4.6	4.0	4.3	8.6	5.4	7.3
3	17.0	14.4	15.7	11.8	10.0	10.6	4.2	3.6	3.9	5.4	4.6	4.9
4	18.3	16.6	17.2	10.9	9.2	10.1	4.7	3.8	4.2	4.6	1.2	3.7
5	17.6	16.0	16.9	11.3	9.5	10.5	5.4	4.5	4.8	1.2	0.4	0.8
6	17.2	16.6	16.8	12.1	10.3	11.3	5.8	5.4	5.6	0.7	0.1	0.4
7	17.1	16.6	16.8	12.8	10.9	11.7	5.6	4.9	5.3	1.2	0.4	0.8
8	19.2	16.6	17.6	11.7	10.7	11.3	6.2	5.3	5.7	1.2	0.8	1.0
9	19.3	17.5	18.3	12.0	10.7	11.3	6.3	5.0	5.8	2.5	1.2	1.9
10	18.3	17.4	17.9	11.4	10.6	11.0	6.3	5.2	5.7	2.5	1.7	2.0
11	17.4	15.3	16.2	10.6	8.7	9.4	5.3	4.5	5.0	1.7	1.3	1.4
12	15.3	14.7	15.0	9.1	8.0	8.6	6.1	5.3	5.7	2.1	1.5	1.8
13	15.1	14.3	14.7	8.7	7.8	8.3	5.5	3.8	4.9	2.0	1.0	1.6
14	14.3	13.1	13.7	9.2	8.0	8.6	3.8	2.7	3.3	1.0	0.4	0.7
15	13.8	12.8	13.2	10.1	9.2	9.7	3.3	2.3	2.8	0.7	0.3	0.5
16	13.9	12.6	13.3	11.8	10.1	10.8	4.6	3.1	3.8	0.7	0.3	0.5
17	14.5	12.9	13.7	13.1	11.8	12.6	4.8	3.6	4.2	1.0	0.4	0.7
18	15.5	14.2	14.7	13.1	12.6	12.9	5.5	4.2	4.7	1.4	0.7	1.0
19	15.5	14.3	14.8	12.6	11.5	12.2	4.6	2.5	3.8	2.8	1.3	2.1
20	14.4	14.0	14.2	11.5	10.9	11.3	3.2	1.8	2.6	3.3	1.4	2.6
21	15.4	13.9	14.6	10.9	10.1	10.5	4.2	3.1	3.6	1.4	0.2	0.5
22	17.2	15.4	16.5	10.5	10.0	10.3	3.4	0.9	2.1	0.3	0.0	0.1
23	17.4	15.8	16.6	10.7	8.3	10.3	0.9	0.5	0.7	0.1	0.0	0.0
24	15.8	14.2	15.1	8.3	6.0	6.7	0.9	0.3	0.6	0.7	0.0	0.2
25	15.6	13.8	14.8	7.5	5.9	6.6	1.0	0.4	0.7	1.8	0.0	0.8
26	16.3	14.9	15.5	8.4	7.5	8.0	2.2	0.8	1.5	2.6	1.0	1.6
27	17.6	16.3	17.0	8.4	6.8	7.9	3.6	2.2	3.0	2.2	1.0	1.6
28	18.8	17.3	18.0	6.8	6.2	6.5	5.0	3.6	4.3	2.0	1.5	1.7
29	19.4	17.8	18.5	6.7	4.8	5.9	4.8	3.7	4.3	2.9	1.6	2.1
30	18.4	15.6	16.3	4.9	4.2	4.6	7.9	4.8	6.6	2.9	2.2	2.5
31	15.6	14.8	15.0	---	---	---	7.3	5.6	6.4	3.5	2.5	3.0
MONTH	19.5	12.6	15.9	16.5	4.2	10.0	7.9	0.3	4.0	8.6	0.0	1.8

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

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	3.0	3.2	8.0	5.3	6.9	13.2	9.6	11.4	15.2	12.2	13.6
2	4.7	2.9	3.7	8.5	5.6	7.2	14.4	9.4	11.9	15.2	11.4	13.4
3	5.1	2.3	3.7	9.8	6.3	8.2	15.3	11.2	13.2	16.3	12.8	14.7
4	5.8	3.0	4.5	10.6	7.5	9.3	17.2	12.3	14.7	17.1	13.4	15.4
5	6.5	3.8	5.1	11.2	8.4	10.1	18.0	14.5	16.4	17.1	14.6	15.7
6	6.5	5.6	6.0	12.6	9.3	11.0	17.5	15.1	15.8	19.5	15.0	17.0
7	6.1	3.9	4.9	12.6	10.5	11.4	18.0	13.9	15.7	19.5	17.2	18.5
8	3.9	1.5	2.6	10.7	8.5	9.7	16.5	13.5	14.8	20.5	18.2	19.3
9	1.5	0.3	0.9	10.6	8.9	9.4	16.9	13.6	15.0	21.9	16.3	19.1
10	2.0	0.2	1.0	9.6	7.8	8.8	16.3	15.4	16.0	23.7	19.6	21.7
11	2.9	1.0	1.8	10.5	7.7	9.2	17.0	14.6	15.7	23.7	21.1	22.5
12	4.1	1.9	3.0	12.0	9.1	10.7	16.0	13.3	14.6	23.2	20.9	22.2
13	6.3	4.1	5.3	11.7	9.0	10.2	13.8	12.6	13.0	20.9	17.2	18.2
14	8.1	6.3	7.4	11.0	9.2	10.2	14.6	11.9	13.1	18.1	17.3	17.6
15	8.6	8.0	8.4	11.0	9.9	10.4	16.6	13.4	14.7	18.6	17.6	18.2
16	8.1	7.0	7.6	11.6	8.9	10.4	19.2	14.7	16.6	18.9	17.8	18.6
17	7.6	6.1	6.8	11.4	8.9	10.4	20.7	16.0	18.1	19.6	17.8	18.7
18	7.6	5.6	6.5	11.5	9.4	10.7	19.8	16.9	18.4	20.8	18.8	19.7
19	7.2	6.2	6.6	11.3	8.7	10.3	19.7	17.7	18.7	23.2	19.8	21.2
20	9.4	7.0	8.1	12.3	9.8	11.1	22.6	18.0	20.1	25.3	21.3	23.0
21	9.4	7.6	8.4	12.3	10.0	11.1	22.5	18.7	20.8	26.1	22.1	23.8
22	9.1	---	---	10.2	7.1	8.5	21.3	17.4	18.9	26.5	22.4	24.4
23	8.6	7.4	7.7	7.1	6.0	6.3	18.7	15.2	17.3	26.3	22.7	24.5
24	8.6	6.3	7.5	6.2	6.0	6.1	18.3	14.7	16.9	25.6	22.2	23.7
25	9.3	5.6	7.4	6.7	6.2	6.5	18.2	14.4	15.8	25.7	22.0	23.6
26	9.3	6.8	8.2	7.1	6.5	6.8	15.9	12.9	14.4	23.6	21.2	22.0
27	9.1	7.8	8.3	9.2	6.3	7.6	16.2	12.9	14.7	21.9	20.4	21.1
28	8.6	6.5	7.6	11.8	7.8	9.6	16.2	13.5	14.4	23.1	19.4	20.9
29	---	---	---	13.9	9.8	11.7	13.5	11.3	12.0	23.9	19.5	21.4
30	---	---	---	13.2	11.6	12.3	15.2	10.6	12.8	22.4	19.4	21.0
31	---	---	---	12.5	11.0	11.4	---	---	---	21.7	19.5	20.4
MONTH	9.4	0.2	5.6	13.9	5.3	9.5	22.6	9.4	15.5	26.5	11.4	19.8

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

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.0	18.7	20.2	27.9	24.5	26.3	28.0	25.2	26.5	26.1	23.4	24.8
2	21.7	18.9	20.4	27.4	24.1	26.1	28.5	25.9	27.1	25.9	23.6	24.9
3	20.4	19.4	19.9	26.9	24.1	25.6	29.0	26.5	27.7	26.2	23.5	25.1
4	19.9	19.0	19.4	25.1	22.5	23.8	29.0	26.4	27.4	26.1	23.8	25.0
5	20.9	19.7	20.2	25.8	23.1	24.3	26.4	22.2	24.4	25.2	23.7	24.3
6	22.9	20.8	21.8	26.8	23.8	25.0	24.4	20.8	22.6	24.6	23.0	23.8
7	24.7	22.6	23.5	27.1	23.3	25.1	26.2	23.3	24.6	24.2	23.3	23.7
8	26.2	23.5	24.8	26.9	23.4	25.2	27.5	23.0	25.1	25.2	22.8	23.9
9	25.6	21.6	23.5	27.6	23.7	25.7	27.5	25.3	26.7	24.8	23.3	24.1
10	24.4	22.4	23.2	27.4	23.8	25.9	28.6	26.2	27.4	24.3	22.4	23.5
11	23.8	21.2	22.4	28.3	24.5	26.5	28.2	26.4	27.3	24.1	22.9	23.6
12	23.4	20.5	21.9	28.0	24.6	25.9	28.8	26.4	27.2	24.8	22.9	23.9
13	21.0	19.8	20.3	25.6	23.8	24.8	26.8	24.7	26.0	25.2	23.5	24.2
14	21.7	20.5	21.2	27.0	23.6	25.1	24.7	22.2	23.1	23.9	22.1	23.0
15	22.6	21.2	21.9	29.0	24.7	26.6	23.6	22.6	23.1	22.6	20.4	21.3
16	23.0	21.9	22.6	28.4	24.8	26.8	23.2	22.0	22.5	22.2	19.2	20.6
17	23.4	21.9	22.6	28.8	25.1	27.2	24.3	21.6	22.7	21.6	19.6	20.6
18	25.1	23.4	24.3	28.6	24.6	25.6	26.6	22.8	24.6	24.4	21.1	22.6
19	26.2	24.9	25.7	27.5	24.3	25.6	27.1	25.6	26.4	24.3	23.4	23.8
20	26.7	24.9	25.8	28.4	25.3	27.1	26.4	24.8	25.6	25.2	22.6	23.8
21	26.6	25.0	25.8	29.0	25.8	27.6	26.1	24.4	25.2	25.4	23.3	24.3
22	27.1	24.9	25.9	29.7	26.7	28.4	25.6	23.6	24.6	25.7	23.2	24.2
23	25.8	24.7	25.4	29.8	27.6	28.9	25.9	24.4	25.2	23.9	22.3	23.1
24	25.7	23.8	24.7	29.4	27.4	28.5	25.6	24.6	25.2	24.4	22.8	23.5
25	26.9	24.5	25.5	29.2	27.3	28.4	24.6	23.0	23.7	25.2	22.8	23.9
26	27.5	24.6	25.8	28.4	23.4	26.1	25.3	23.9	24.5	24.0	21.9	23.1
27	27.9	24.2	25.9	24.7	21.5	23.2	26.6	24.7	25.5	21.9	20.1	21.2
28	27.8	24.0	25.9	25.8	22.8	24.4	26.6	24.7	25.8	21.2	19.1	20.5
29	27.8	24.2	26.1	26.1	23.5	24.9	27.2	23.8	25.3	19.1	16.6	17.4
30	28.2	24.5	26.4	26.5	23.9	25.3	26.8	23.2	25.1	17.8	15.5	16.7
31	---	---	---	27.4	24.5	25.9	27.2	23.4	25.3	---	---	---
MONTH	28.2	18.7	23.4	29.8	21.5	26.0	29.0	20.8	25.3	26.2	15.5	22.9
YEAR	29.8	0.0	15.1									

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.4	7.7	8.5	7.0	5.9	6.3	13.6	11.6	12.5	14.6	10.4	12.2
2	9.5	7.8	8.7	7.4	6.1	7.0	13.6	11.6	12.5	11.0	9.8	10.2
3	10.6	8.8	9.6	8.3	6.9	7.7	13.9	12.1	12.9	11.3	10.6	10.9
4	9.8	8.4	9.1	9.3	7.9	8.7	14.1	12.3	13.1	12.5	10.4	11.2
5	9.4	8.0	8.8	9.5	8.5	9.0	14.1	11.6	12.5	13.1	11.8	12.4
6	9.4	8.0	8.8	9.3	8.0	8.7	13.3	10.9	11.9	14.4	12.5	13.3
7	8.3	7.3	7.7	9.2	7.9	8.5	14.2	11.5	12.7	14.4	12.5	13.5
8	10.6	7.2	8.6	9.7	8.1	9.1	14.2	11.3	12.6	14.6	12.8	13.8
9	10.4	8.0	9.1	10.9	9.0	10	13.0	10.3	11.9	15.5	13.2	14.4
10	10.2	8.0	9.2	9.7	8.2	9.1	13.3	10.7	12.0	15.3	13.1	14.4
11	8.8	7.8	8.3	9.4	8.2	8.8	13.6	11.4	12.6	15.7	13.5	14.8
12	9.8	7.9	8.8	11.0	9.4	10.4	13.5	11.3	12.3	15.6	13.6	14.8
13	10.6	9.3	9.8	11.4	10.2	11.0	13.8	11.6	12.6	17.3	13.7	15.7
14	10.0	9.4	9.8	11.6	10.1	11.1	14.4	12.9	13.7	19.1	15.1	17.2
15	10.0	8.9	9.5	10.8	8.5	9.9	14.7	13.1	14.1	19.2	16.6	18.2
16	9.4	8.9	9.2	8.8	8.1	8.6	14.7	13.4	14.1	19.2	16.8	18.3
17	9.9	8.9	9.4	8.6	7.4	8.2	14.3	13.0	13.9	19.4	16.3	18.0
18	10.0	8.4	9.3	8.2	7.6	7.9	14.3	13.2	14.0	20.5	16.3	18.4
19	10.1	8.1	9.1	8.4	7.9	8.2	14.8	13.3	14.2	19.6	15.9	17.9
20	9.9	8.3	9.3	9.0	8.1	8.6	15.1	14.1	14.7	18.3	13.6	16.0
21	9.9	8.0	8.9	9.7	9.0	9.4	15.1	13.4	14.3	14.6	12.2	12.8
22	8.7	7.5	8.3	9.9	8.5	9.2	15.6	13.9	15.0	12.5	11.9	12.1
23	8.3	6.8	7.5	9.0	8.0	8.5	17.0	15.3	16.1	13.0	12.4	12.7
24	9.1	7.0	8.1	11.0	8.9	9.7	16.8	16.0	16.5	13.1	12.1	12.6
25	10.6	7.8	9.0	11.1	9.9	10.5	16.0	15.1	15.6	12.7	12.4	12.6
26	8.3	6.6	7.8	11.3	9.7	10.3	15.7	14.4	15.2	12.5	12.1	12.3
27	6.8	4.7	5.7	11.1	9.9	10.2	15.7	14.5	15.3	12.4	12.0	12.2
28	8.8	6.2	7.3	12.5	10.7	11.3	15.4	13.8	14.4	12.2	11.9	12.1
29	7.7	6.4	7.0	12.5	10.3	11.3	14.7	13.5	14.3	12.1	11.8	12.0
30	7.1	5.8	6.5	13.1	10.9	11.9	14.4	11.9	12.9	11.9	11.6	11.8
31	7.1	6.3	6.7	---	---	---	14.6	11.7	12.8	11.7	11.4	11.6
MONTH	10.6	4.7	8.5	13.1	5.9	9.3	17.0	10.3	13.7	20.5	9.8	13.9

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.9	11.4	11.6	11.2	9.8	10.4	11.0	9.1	9.9	14.8	9.1	11.9
2	12.1	11.6	11.8	11.6	10.0	10.7	12.3	9.4	10.7	14.7	9.9	12.2
3	12.2	11.5	11.8	11.7	10.0	10.7	12.9	9.1	10.9	13.0	9.0	11.0
4	11.8	11.2	11.5	11.4	9.7	10.5	14.0	8.8	11.1	12.9	8.7	10.7
5	11.6	10.9	11.2	11.6	9.3	10.4	16.4	8.3	12.0	11.3	8.0	9.7
6	10.9	10.4	10.6	11.4	9.2	10.3	13.6	9.2	11.7	12.0	8.2	10.1
7	11.2	10.4	10.8	11.8	8.7	10.3	16.1	9.3	12.3	10.8	7.0	9.0
8	11.8	11.0	11.4	13.5	9.5	11.5	12.4	9.7	11.0	10.2	6.6	8.3
9	12.8	11.7	12.4	14.2	9.5	11.9	---	---	---	8.8	6.1	7.4
10	13.1	12.7	12.9	15.4	10.6	13.0	---	---	---	10.3	5.7	7.9
11	12.9	12.5	12.7	16.5	10.8	13.7	9.5	---	---	9.4	5.5	7.6
12	12.5	11.8	12.1	16.9	11.2	13.9	9.3	8.0	8.6	9.4	5.4	7.5
13	11.8	10.3	11.2	16.2	10.8	13.4	8.7	8.4	8.6	6.8	4.4	5.2
14	10.3	8.6	9.1	15.6	11.0	13.3	9.1	8.6	8.9	4.4	3.8	3.9
15	9.1	8.5	8.7	14.4	10.6	12.6	8.7	8.2	8.5	4.2	3.7	3.9
16	9.9	9.1	9.5	14.3	10.4	12.3	8.4	7.7	8.1	6.0	4.0	4.7
17	10.4	9.9	10.2	13.4	10.0	11.7	8.5	7.5	7.9	6.4	5.9	6.2
18	10.5	10.2	10.3	13.5	9.4	11.5	8.6	7.1	7.8	6.6	6.4	6.5
19	10.4	10.0	10.3	14.1	9.7	11.7	9.1	7.0	7.9	6.5	6.3	6.4
20	10.0	9.5	9.8	13.5	9.6	11.5	10.3	6.9	8.4	6.6	6.2	6.3
21	9.6	9.2	9.5	11.4	9.2	9.6	11.9	6.4	8.8	6.8	6.2	6.4
22	9.9	9.2	9.6	9.8	8.8	9.2	11.9	6.5	9.2	---	---	---
23	10.0	9.4	9.7	9.7	9.0	9.4	13.4	7.2	10.1	7.7	---	---
24	10.5	9.8	10.1	10.2	9.7	9.9	14.5	7.7	10.9	7.1	6.1	6.5
25	10.7	9.9	10.3	10.7	10.2	10.5	12.0	7.9	9.4	8.5	6.4	7.2
26	10.5	9.8	10.1	10.9	10.7	10.8	13.7	8.2	10.7	7.0	4.9	5.8
27	9.9	9.5	9.7	10.9	10.5	10.8	14.5	8.5	11.4	6.7	5.0	6.0
28	10.6	9.6	10.0	10.5	9.7	10.1	13.5	8.7	11.3	7.0	6.7	6.9
29	---	---	---	9.7	8.6	9.3	12.9	8.9	10.9	7.0	6.6	6.9
30	---	---	---	9.1	8.6	8.8	15.0	9.6	12.1	7.2	6.6	7.0
31	---	---	---	9.7	8.6	9.1	---	---	---	7.5	6.9	7.2
MONTH	13.1	8.5	10.7	16.9	8.6	11.1	16.4	6.4	10.0	14.8	3.7	7.5

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	7.2	7.6	15.7	7.0	10.9	9.0	6.4	7.8	6.9	6.0	6.4
2	7.8	7.4	7.6	17.0	7.2	11.7	8.8	6.2	7.6	7.5	6.1	6.7
3	7.8	7.2	7.4	13.9	6.8	10	8.4	5.9	7.3	10.7	6.2	8.1
4	7.6	5.8	6.4	8.6	---	---	7.6	5.7	6.8	11.9	6.5	9.1
5	5.8	4.9	5.2	---	---	---	9.3	5.3	6.5	11.4	7.1	9.5
6	6.0	5.2	5.6	6.0	5.2	5.6	6.6	5.9	6.4	12.2	7.3	9.7
7	6.3	6.0	6.1	7.7	5.6	6.5	6.7	6.2	6.5	10.9	7.7	9.3
8	7.2	6.3	6.5	8.2	6.3	7.3	6.3	5.2	5.9	12.6	7.5	9.7
9	7.3	6.4	6.7	---	6.2	---	8.1	5.5	6.6	12.3	7.5	9.8
10	7.3	6.6	7.0	---	---	---	9.5	6.1	7.7	12.8	8.0	10.2
11	7.1	6.2	6.6	17.0	---	---	12.6	7.2	9.4	11.9	8.0	10.1
12	7.0	5.2	6.3	12.5	7.4	9.9	11.5	9.0	10.1	11.3	7.9	9.7
13	5.2	4.9	5.1	9.5	6.5	8.0	9.2	6.6	7.9	11.4	7.6	9.5
14	5.1	4.8	4.9	7.0	6.5	6.8	8.8	6.4	7.7	11.5	8.0	9.7
15	5.4	4.9	5.0	8.9	6.9	7.8	11.3	6.1	8.3	9.6	7.2	8.2
16	5.9	5.2	5.5	11.3	7.1	8.8	9.4	6.2	7.8	11.7	7.6	9.3
17	5.8	4.5	5.1	13.7	7.4	10.2	9.4	6.1	7.7	---	---	---
18	4.5	4.4	4.4	10.9	7.5	8.6	11.5	5.7	8.4	---	---	---
19	5.7	4.5	5.2	13.3	7.6	10	12.4	6.2	9.3	---	---	---
20	6.1	5.6	5.9	12.2	7.2	9.7	10.3	5.9	8.3	---	---	---
21	6.4	6.0	6.3	13.0	7.5	10.1	7.6	5.3	6.0	10.6	---	---
22	6.7	6.4	6.6	14.2	7.3	10.7	5.8	5.2	5.4	10.3	6.8	8.6
23	6.8	4.8	6.0	13.5	7.2	10.5	6.1	4.7	5.4	9.8	6.8	8.3
24	6.1	4.9	5.5	12.5	7.0	9.8	6.4	5.1	5.5	8.8	6.3	7.6
25	6.7	6.1	6.5	11.4	6.8	9.2	6.9	5.8	6.3	9.3	6.1	7.6
26	6.8	6.6	6.7	9.8	6.1	7.3	5.9	5.0	5.4	9.4	6.4	7.8
27	---	---	---	11.6	6.2	8.6	6.0	5.5	5.8	8.8	6.6	7.7
28	8.2	---	---	11.8	7.5	9.8	6.4	5.8	6.2	---	---	---
29	10.4	6.6	8.2	11.1	7.3	9.3	6.3	5.7	6.1	---	---	---
30	13.5	6.6	9.5	10.3	7.1	8.9	6.2	5.6	6.0	---	---	---
31	---	---	---	9.7	6.8	8.4	6.5	5.6	6.0	---	---	---
MONTH	13.5	4.4	6.3	17.0	5.2	9.0	12.6	4.7	7.0	12.8	6.0	8.8
YEAR	20.5	3.7	9.7									

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

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	44	33	---	51	45	48	14	11	12	43	20	31
2	36	27	32	57	45	50	17	14	15	48	30	41
3	33	28	30	45	27	34	14	10	12	57	26	35
4	41	31	36	32	24	27	11	9.4	10	230	31	86
5	41	32	37	38	31	34	16	10	12	210	43	77
6	44	33	37	43	35	38	19	15	16	49	19	33
7	45	37	42	44	37	40	17	12	14	44	19	26
8	45	26	35	42	31	36	27	16	21	71	21	36
9	38	31	34	33	28	30	28	23	26	58	14	22
10	50	36	41	41	30	34	30	20	24	19	10	14
11	50	39	43	47	32	41	24	17	19	14	10	12
12	40	29	35	32	23	25	29	20	26	14	10	12
13	29	24	26	23	20	21	30	14	23	12	10	11
14	29	26	27	28	17	20	14	11	12	11	10	11
15	29	23	26	34	24	30	14	12	13	12	10	11
16	28	23	25	42	32	37	14	12	13	13	11	12
17	30	21	24	47	40	44	15	11	13	12	11	11
18	30	23	25	54	39	45	18	12	14	14	11	12
19	32	24	27	39	28	34	18	8.7	14	28	12	18
20	27	22	25	32	26	28	9.0	8.1	8.4	46	23	32
21	30	23	26	35	30	33	14	8.6	11	520	46	310
22	37	30	33	40	32	36	12	9.3	11	570	310	460
23	38	27	32	66	36	42	12	8.6	9.4	330	200	260
24	32	27	30	100	46	69	11	8.5	9.4	240	160	210
25	32	22	27	57	39	46	9.2	8.1	8.7	230	170	200
26	50	26	39	42	36	39	8.7	7.4	8.0	180	150	170
27	54	35	45	40	24	35	10	7.6	9.0	150	130	140
28	51	33	43	24	15	18	19	10	15	130	100	120
29	46	36	40	21	16	19	19	15	18	110	97	100
30	47	36	42	17	12	15	37	17	28	97	76	86
31	48	42	45	---	---	---	35	19	28	76	70	73
MONTH	54	21	34	100	12	35	37	7.4	15	570	10	86

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

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	72	62	65	39	26	31	68	46	54	33	25	30
2	67	61	64	32	21	26	48	44	46	34	24	29
3	68	60	64	30	20	26	58	45	48	40	31	35
4	79	64	70	37	28	32	61	43	48	41	28	35
5	79	61	67	39	32	36	49	42	46	43	35	39
6	100	61	75	43	34	38	57	45	49	46	35	39
7	410	64	120	47	36	41	54	47	50	51	41	45
8	630	410	540	37	26	29	77	53	70	71	45	50
9	500	350	410	29	21	25	83	65	75	160	71	110
10	350	260	280	26	18	21	65	52	56	98	67	84
11	270	240	250	34	21	27	61	55	58	87	64	76
12	240	190	210	49	30	37	99	58	72	420	53	79
13	650	210	360	59	35	44	240	99	170	1,360	290	960
14	1,150	650	900	59	38	47	240	120	170	780	360	480
15	900	560	650	51	38	45	140	120	130	360	200	260
16	560	450	500	44	34	40	140	110	120	340	200	260
17	450	360	400	50	36	42	110	87	100	340	280	310
18	360	290	330	44	35	40	92	68	81	280	200	250
19	290	240	260	43	27	35	71	53	63	200	---	---
20	250	200	220	38	32	36	58	41	50	---	110	---
21	200	140	170	200	38	95	42	30	36	110	88	98
22	140	100	120	900	140	500	39	25	29	98	---	---
23	100	63	80	710	430	530	32	24	27	---	59	---
24	63	50	55	430	310	370	37	24	28	220	60	130
25	50	40	43	310	250	280	36	27	30	82	54	72
26	51	44	47	250	200	230	32	20	25	>1,370	57	>770
27	51	44	48	200	160	180	32	20	27	1,140	400	670
28	44	35	39	160	---	---	31	21	26	400	210	290
29	---	---	---	---	---	---	28	21	24	220	120	160
30	---	---	---	120	73	91	32	20	24	120	97	110
31	---	---	---	78	60	71	---	---	---	170	88	110
MONTH	1,150	35	230	900	18	100	240	20	61	1,370	24	210

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

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	160	66	87	51	31	41	50	29	38	220	160	210
2	340	66	180	55	33	44	50	28	38	160	61	100
3	500	220	320	110	38	54	44	24	34	69	30	50
4	1,360	500	1,050	230	78	150	47	24	34	52	30	41
5	920	470	690	200	120	160	1,260	39	340	54	38	46
6	470	320	390	190	130	160	900	490	670	63	40	50
7	320	240	280	150	100	120	520	330	450	66	45	55
8	600	170	220	120	86	110	330	110	240	66	40	53
9	600	180	280	98	41	68	110	69	87	60	38	49
10	400	180	260	60	33	46	81	55	68	55	34	46
11	470	230	290	50	30	40	78	44	65	49	32	41
12	970	190	470	120	37	59	140	54	77	52	36	42
13	670	210	390	650	86	230	89	39	61	50	26	39
14	210	180	190	500	160	280	67	43	56	44	29	38
15	260	190	200	160	80	120	60	32	46	97	38	72
16	790	260	430	95	56	75	69	46	53	70	31	49
17	600	330	450	71	40	56	86	50	68	51	37	44
18	330	240	270	190	50	69	74	46	59	52	30	41
19	240	230	240	61	38	49	160	40	59	50	36	42
20	230	190	220	59	35	48	110	48	67	51	28	40
21	190	160	180	63	33	49	610	62	280	44	32	38
22	160	130	150	57	29	42	590	240	370	47	31	41
23	1,030	130	370	50	34	40	240	180	210	48	30	40
24	820	330	510	48	31	39	220	170	180	41	32	37
25	330	160	240	48	37	42	820	150	430	45	26	35
26	160	---	---	47	---	---	680	500	630	39	32	35
27	---	---	---	50	37	43	570	360	450	43	32	36
28	---	49	---	51	34	42	400	300	330	46	34	38
29	65	29	52	58	40	49	300	220	260	38	27	33
30	56	29	44	64	34	49	230	180	210	38	26	31
31	---	---	---	52	31	42	220	180	190	---	---	---
MONTH	1,360	29	310	650	29	81	1,260	24	200	220	26	50
YEAR	1,370	7.4	110									

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

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

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	29	19	23	45	33	36	7.8	6.4	7.0	22	9.5	16
2	21	16	18	40	31	35	10	7.5	9.0	27	15	21
3	19	16	17	31	20	24	8.4	5.9	7.1	29	13	18
4	22	19	21	22	18	20	6.5	5.3	5.7	110	16	43
5	22	18	21	27	22	24	8.6	5.7	6.6	100	24	41
6	25	19	21	34	25	27	10	7.9	9.2	25	10	17
7	25	21	23	45	28	35	9.4	6.7	7.9	12	10	12
8	29	15	20	36	21	25	14	8.4	11	13	11	12
9	21	18	19	28	19	22	15	11	13	12	7.8	9.2
10	32	21	23	44	21	28	15	---	---	8.7	5.7	7.4
11	38	22	25	---	---	---	---	---	---	7.0	5.6	5.9
12	23	17	20	---	---	---	15	12	14	6.5	5.4	5.9
13	19	14	15	---	---	---	16	7.2	12	6.1	5.6	5.8
14	17	14	16	---	---	---	7.4	5.7	6.4	6.4	5.4	5.7
15	17	14	16	---	---	---	6.9	6.0	6.6	6.2	5.5	5.8
16	18	15	16	---	---	---	8.2	6.2	6.8	6.7	5.8	6.3
17	17	14	15	---	---	---	9.4	6.4	8.2	6.7	5.7	5.9
18	18	15	16	---	---	---	13	6.3	9.3	7.2	5.8	6.2
19	27	16	19	---	---	---	---	---	---	15	6.5	9.1
20	27	15	18	---	---	---	---	---	---	24	13	17
21	22	16	17	---	---	---	---	---	---	270	24	160
22	26	19	22	---	---	---	---	---	---	300	150	220
23	29	19	23	35	19	22	5.3	4.6	4.9	190	120	150
24	22	19	21	57	25	39	5.3	4.5	4.9	120	98	110
25	26	17	20	33	23	27	5.3	4.5	4.7	110	90	100
26	31	19	27	24	19	22	4.7	4.2	4.4	91	79	87
27	44	29	37	22	13	19	5.4	4.3	4.7	81	68	72
28	42	23	32	13	8.3	9.6	9.5	5.2	7.6	68	56	62
29	40	26	31	11	8.6	9.8	9.5	7.5	8.7	59	54	56
30	33	28	30	9.5	7.0	8.4	18	8.7	14	54	44	48
31	42	31	34	---	---	---	18	9.4	14	44	40	41
MONTH	44	14	22	57	7.0	24	18	4.2	8.3	300	5.4	44

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

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	40	35	37	23	15	17	34	28	31	18	14	17
2	39	35	37	17	11	14	34	26	29	20	13	16
3	40	36	38	17	11	14	32	27	29	22	16	19
4	47	37	42	19	15	17	29	26	27	22	15	19
5	47	36	39	20	17	19	28	24	26	24	20	21
6	58	34	42	23	18	20	31	26	28	26	20	21
7	230	36	66	24	19	22	31	27	28	28	22	25
8	330	230	280	20	14	15	42	31	38	42	25	28
9	270	190	220	15	11	13	43	38	41	81	42	59
10	190	150	160	14	9.5	11	38	29	32	55	38	47
11	150	140	140	18	11	14	36	30	32	50	37	43
12	140	110	120	26	16	19	55	31	39	220	30	43
13	360	130	---	31	18	23	130	55	94	1,120	180	560
14	530	360	470	31	20	24	130	72	95	350	200	250
15	450	320	380	28	20	24	93	70	78	200	120	150
16	320	270	300	24	18	21	81	---	---	200	120	150
17	280	220	240	24	19	21	74	51	64	200	170	180
18	220	180	200	24	19	21	65	40	50	170	130	150
19	180	140	160	24	15	19	46	30	37	130	95	110
20	140	120	130	21	17	19	38	29	32	96	68	81
21	120	83	100	110	20	51	34	22	28	68	57	63
22	83	65	74	460	77	260	30	14	19	58	44	53
23	65	40	50	360	220	260	19	13	16	47	36	42
24	40	31	35	220	170	190	21	13	16	120	36	75
25	31	25	27	170	140	160	20	15	17	53	32	43
26	31	26	28	140	120	130	18	12	14	1,130	34	480
27	31	25	28	120	97	110	19	11	15	660	230	380
28	25	20	22	97	77	87	18	12	14	230	110	160
29	---	---	---	77	57	67	16	12	14	110	74	91
30	---	---	---	57	42	49	18	11	13	74	56	64
31	---	---	---	42	34	37	---	---	---	90	50	59
MONTH	530	20	130	460	9.5	57	130	11	34	1,130	13	110

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

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	87	36	48	36	21	26	28	17	23	---	---	---
2	200	37	100	44	20	27	27	16	21	---	---	---
3	280	120	170	64	23	32	32	15	21	---	---	---
4	790	280	560	140	45	89	28	15	22	---	---	---
5	470	270	380	120	77	98	680	27	190	---	---	---
6	270	200	230	120	84	100	510	290	390	---	---	---
7	200	150	180	92	63	78	310	200	270	---	---	---
8	320	120	140	76	54	67	230	72	160	---	---	---
9	320	110	160	58	27	43	72	44	55	---	---	---
10	220	110	150	36	19	28	---	---	---	---	---	---
11	260	140	170	30	18	24	---	---	---	---	---	---
12	510	120	250	74	22	36	---	---	---	---	---	---
13	360	130	220	390	53	140	---	---	---	---	---	---
14	130	120	120	300	100	180	---	---	---	---	---	---
15	160	120	130	100	51	74	---	---	---	---	---	---
16	410	160	240	64	35	47	---	---	---	---	---	---
17	320	190	250	44	25	34	---	---	---	---	---	---
18	190	150	160	99	30	42	---	---	---	---	---	---
19	150	140	140	39	22	30	---	---	---	---	---	---
20	140	120	130	36	21	30	---	---	---	---	---	---
21	120	100	120	---	---	---	---	---	---	---	---	---
22	100	86	95	35	18	26	---	---	---	---	---	---
23	570	81	220	35	22	27	---	---	---	---	---	---
24	460	190	300	36	19	25	---	---	---	---	---	---
25	190	100	140	29	22	26	---	---	---	---	---	---
26	100	69	80	39	24	28	---	---	---	---	---	---
27	77	45	60	30	22	26	---	---	---	---	---	---
28	52	30	43	31	20	25	---	---	---	---	---	---
29	37	18	31	35	24	29	---	---	---	---	---	---
30	33	17	26	38	20	28	---	---	---	---	---	---
31	---	---	---	33	18	26	---	---	---	---	---	---
MONTH	790	17	170	390	18	50	680	15	130	---	---	---
YEAR	1,130	4.2	69									

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)
Mar 23	0700	5,920	17.16	Jun 11	2000	7,540	19.36
May 14	1000	6,840	18.29	Jun 13	1600	9,710	21.80
Jun 5	0100	2,820	11.64	Jun 17	2200	6,280	17.71
Jun 9	1300	*12,100	*24.19	Aug 25	2200	5,600	16.65

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	39	53	43	118	79	130	55	122	96	35	100
2	25	34	51	42	154	75	113	53	147	89	32	83
3	25	32	50	52	182	72	105	52	329	87	28	64
4	25	32	50	95	140	70	98	52	1,680	241	27	53
5	25	32	52	1,030	108	67	93	51	2,570	450	39	45
6	26	31	55	708	108	66	93	51	1,850	260	355	39
7	29	30	55	470	636	64	100	49	939	156	241	38
8	30	30	57	235	1,120	65	116	50	463	118	94	36
9	28	31	60	130	832	63	165	112	10,200	94	53	34
10	28	34	57	119	420	62	175	196	5,190	82	40	32
11	35	48	52	120	312	60	145	96	6,060	75	34	32
12	39	39	49	103	366	59	121	71	5,930	74	39	31
13	34	35	47	84	791	57	188	1,690	9,180	250	42	31
14	31	33	44	69	1,910	54	275	6,300	7,390	214	61	31
15	30	35	42	71	1,860	53	249	5,140	e4,710	130	65	40
16	31	36	42	62	955	55	149	3,790	2,440	91	57	58
17	30	39	42	57	395	56	115	1,040	4,010	72	54	46
18	30	42	40	55	236	55	98	483	4,640	65	46	39
19	29	43	39	58	179	54	88	310	2,330	68	40	36
20	29	43	40	200	155	54	82	225	924	56	41	35
21	30	41	40	857	143	92	76	179	524	51	110	33
22	30	40	39	1,530	136	2,860	71	143	364	49	82	31
23	29	41	37	1,100	129	5,450	66	171	390	46	99	29
24	28	73	37	722	118	3,330	60	187	673	43	60	28
25	28	115	39	439	104	1,540	61	164	316	41	2,980	36
26	35	80	39	259	96	712	66	248	204	40	3,800	29
27	59	73	41	173	90	416	61	626	164	40	1,790	26
28	48	63	41	140	85	274	58	221	138	38	803	27
29	66	58	41	120	---	208	57	132	120	37	359	26
30	54	57	42	105	---	181	56	105	104	36	176	26
31	42	---	41	103	---	153	---	109	---	36	112	---
MEAN	33.4	45.3	45.6	302	424	531	111	715	2,470	104	380	39.8
MAX	66	115	60	1,530	1,910	5,450	275	6,300	10,200	450	3,800	100
MIN	25	30	37	42	85	53	56	49	104	36	27	26
AC-FT	2,050	2,700	2,800	18,550	23,560	32,640	6,610	43,940	147,000	6,400	23,390	2,370

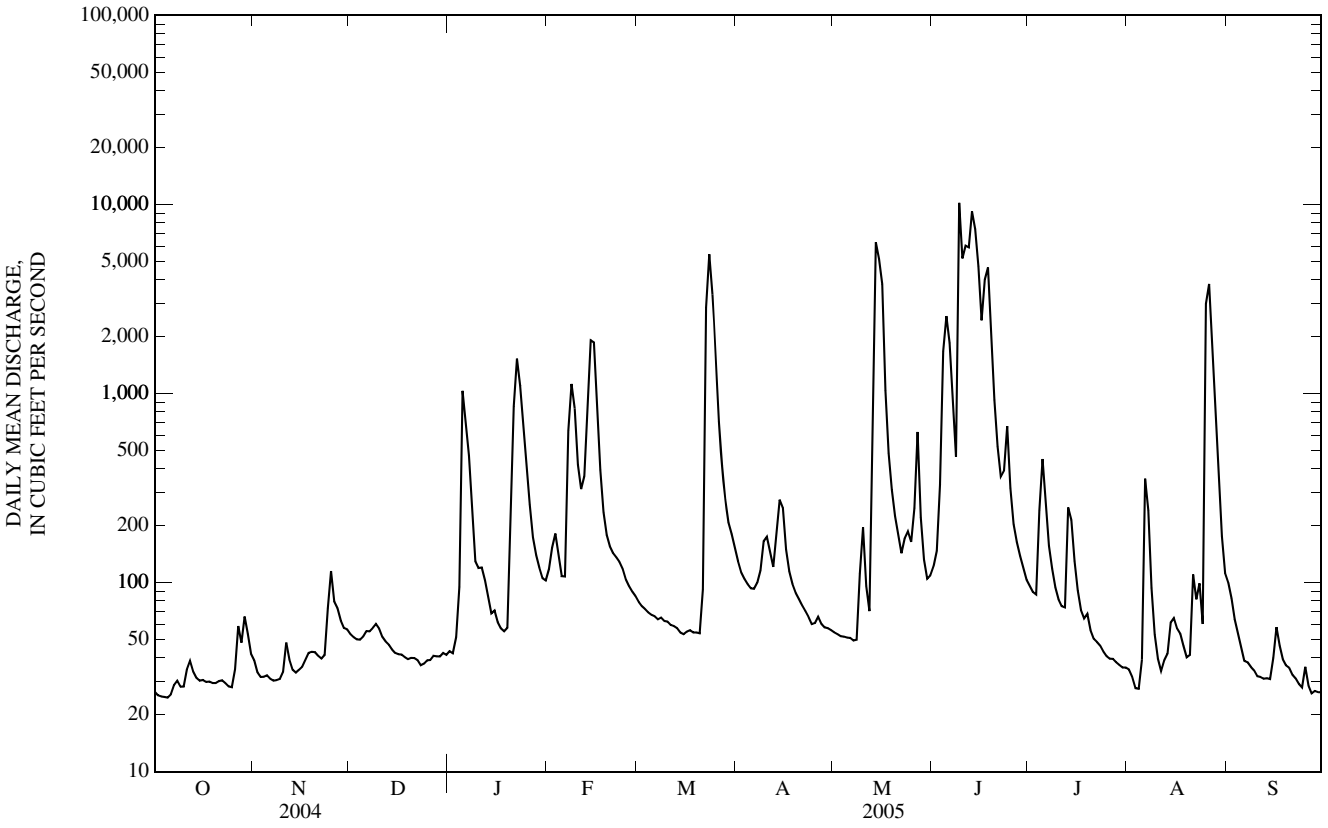
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	341	380	109	90.4	286	630	321	696	956	360	220	210
MAX	1,355	3,319	412	302	1,391	2,218	1,260	4,423	2,927	1,321	747	666
(WY)	(2004)	(1999)	(1998)	(2005)	(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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL MEAN	308		431		383	
HIGHEST ANNUAL MEAN					859	1999
LOWEST ANNUAL MEAN					69.3	1994
HIGHEST DAILY MEAN	13,900	Mar 5	10,200	Jun 9	17,600	Nov 2, 1998
LOWEST DAILY MEAN	22	Jul 22	25	Oct 2	2.9	Aug 25, 2003
ANNUAL SEVEN-DAY MINIMUM	25	Sep 30	26	Oct 1	3.7	Aug 22, 2003
MAXIMUM PEAK FLOW			12,100	Jun 9	17,600	Nov 1, 1998
MAXIMUM PEAK STAGE			24.19	Jun 9	25.82	Nov 1, 1998
INSTANTANEOUS LOW FLOW			23	Oct 5	2.8	Aug 24, 2003
ANNUAL RUNOFF (AC-FT)	223,900		312,000		277,600	
10 PERCENT EXCEEDS	317		842		683	
50 PERCENT EXCEEDS	49		66		60	
90 PERCENT EXCEEDS	30		31		21	

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 2004 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Records good. 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, 1,080 FNU, June 6, 2005; minimum, 3.2 FNU, Dec. 20, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,340 microsiemens/cm, May 27; minimum, 48 microsiemens/cm, June 9.
pH: Maximum, 8.8 standard units, Sept. 8; minimum, 6.8 standard units, May 14.
WATER TEMPERATURE: Maximum, 31.1°C, July 22; minimum, -0.1°C, Jan. 14.
DISSOLVED OXYGEN: Maximum, 22.8 mg/L, Aug. 3; minimum, 4.0 mg/L, May 14.
TURBIDITY (YSI 6026 sensor): Maximum, 1,820 FNU, May 27; minimum, 6.0 NU, Dec. 27.
TURBIDITY (YSI 6136 sensor): Maximum, 1,080 FNU, June 9; minimum, 3.2 FNU, Dec. 20.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	756	741	748	805	783	797	702	611	654	934	928	930
2	754	748	751	808	791	799	749	702	729	938	914	931
3	767	754	763	791	761	775	763	749	758	914	872	894
4	781	766	775	784	761	776	812	763	783	940	650	871
5	781	773	778	796	753	787	866	812	844	665	352	439
6	787	769	779	828	792	813	932	866	901	352	256	285
7	775	759	769	901	828	870	960	932	950	294	256	274
8	798	759	785	944	901	927	988	946	966	357	268	320
9	807	797	802	957	944	951	1,100	988	1,030	469	357	429
10	807	762	791	956	908	936	1,150	1,100	1,130	558	464	506
11	762	730	746	934	874	909	1,210	1,150	1,190	668	558	640
12	789	740	772	920	843	890	1,230	1,190	1,200	683	630	661
13	784	769	777	843	809	820	1,290	1,230	1,260	738	681	705
14	782	773	779	868	832	855	1,290	1,230	1,260	829	709	759
15	783	765	774	880	868	875	1,250	1,200	1,220	913	819	857
16	770	760	767	874	852	866	1,240	1,140	1,180	974	913	954
17	770	760	767	858	833	843	1,160	1,130	1,140	1,030	974	1,010
18	773	762	768	833	815	825	1,140	1,130	1,130	1,040	1,010	1,030
19	770	761	764	815	783	802	1,140	1,120	1,130	1,020	1,010	1,010
20	775	769	772	791	781	786	1,120	1,090	1,110	1,010	592	894
21	775	764	771	784	777	781	1,160	1,070	1,100	602	371	521
22	780	741	766	785	777	782	1,080	1,070	1,080	531	265	416
23	779	771	775	782	---	---	1,150	1,070	1,100	319	232	278
24	778	770	774	789	723	---	1,120	1,100	1,110	261	225	243
25	780	757	770	776	586	639	1,120	1,070	1,100	280	250	269
26	763	727	746	586	561	570	1,080	1,020	1,060	326	280	305
27	881	689	811	619	572	601	1,020	974	1,000	377	326	352
28	713	680	692	583	487	527	974	942	958	423	377	400
29	846	713	797	519	493	507	952	936	944	461	423	441
30	846	782	816	611	519	569	966	934	942	491	461	475
31	783	775	777	---	---	---	937	929	935	522	491	507
MONTH	881	680	772	957	487	781	1,290	611	1,030	1,040	225	600

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	563	522	543	880	861	867	734	682	711	1,000	982	993
2	598	559	584	890	862	869	767	734	753	1,010	983	994
3	609	542	582	909	890	896	790	764	773	1,020	992	1,000
4	599	548	575	925	909	917	820	788	800	1,030	1,010	1,020
5	629	599	617	945	925	938	841	814	823	1,040	1,020	1,040
6	636	621	632	950	931	944	861	840	845	1,060	1,030	1,050
7	621	372	456	970	947	960	870	844	860	1,060	1,040	1,050
8	535	366	429	987	968	976	938	844	878	1,070	1,020	1,050
9	462	346	390	995	971	982	1,110	938	1,000	1,090	646	999
10	395	345	363	987	976	981	1,270	1,110	1,220	646	575	---
11	490	395	449	989	975	982	1,290	1,080	1,160	703	628	671
12	494	444	468	990	979	983	1,330	1,090	1,230	703	590	644
13	463	349	413	1,020	990	1,010	1,090	939	1,030	833	143	561
14	371	253	315	1,040	1,020	1,030	939	681	791	187	139	162
15	296	245	264	1,030	1,020	1,030	1,060	676	898	194	176	184
16	298	283	288	1,050	1,020	1,030	976	819	868	245	194	211
17	356	298	325	1,060	1,040	1,050	819	749	785	340	245	299
18	416	356	388	1,060	1,040	1,050	769	743	752	430	340	391
19	474	416	443	1,060	962	1,030	794	769	777	502	430	466
20	519	474	503	1,070	971	1,030	821	794	807	558	500	520
21	575	519	554	1,080	853	1,010	848	820	829	613	549	582
22	625	575	601	853	240	383	859	840	850	653	608	631
23	688	625	651	313	219	242	882	859	876	649	441	553
24	744	688	722	252	232	239	887	875	882	601	477	553
25	803	744	772	304	246	271	889	873	883	699	502	619
26	830	803	815	380	304	344	903	879	888	976	611	693
27	876	830	853	451	380	414	912	891	902	1,340	285	515
28	889	876	885	527	451	486	916	876	901	509	360	437
29	---	---	---	582	527	557	966	893	936	539	509	528
30	---	---	---	650	582	614	993	966	978	623	539	581
31	---	---	---	682	650	660	---	---	---	656	623	641
MONTH	889	245	531	1,080	219	799	1,330	676	890	1,340	139	655

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	716	647	676	719	682	701	---	---	---	424	396	408
2	727	681	699	755	719	740	---	---	---	479	424	460
3	830	516	742	785	581	757	789	754	773	508	476	494
4	516	221	371	712	556	618	793	765	781	540	487	520
5	334	221	265	649	451	581	843	784	801	567	540	556
6	343	291	307	572	426	488	1,070	271	658	615	566	588
7	358	300	317	581	518	556	271	253	261	665	610	636
8	414	243	382	588	519	542	350	270	312	---	665	---
9	243	48	---	655	588	629	399	350	369	784	---	---
10	---	---	---	702	636	679	492	399	441	809	754	784
11	---	---	---	700	674	684	542	492	518	803	705	774
12	---	---	---	737	678	706	562	480	540	---	661	---
13	127	108	118	737	433	565	564	442	501	706	615	670
14	186	127	156	772	581	696	668	469	577	677	---	---
15	---	---	---	747	394	---	622	470	554	---	---	---
16	252	200	238	516	416	473	746	622	683	702	576	645
17	227	124	179	570	513	539	750	698	728	606	565	585
18	195	132	167	648	570	607	708	695	700	575	535	558
19	222	183	196	734	647	697	740	708	724	577	529	---
20	335	222	275	755	659	725	754	738	749	608	546	581
21	415	335	---	753	656	710	788	606	693	616	607	611
22	484	---	---	815	746	792	791	641	690	628	612	622
23	572	484	517	806	757	784	802	392	606	636	627	632
24	969	451	609	761	701	741	472	379	440	648	633	640
25	461	415	431	738	660	716	460	111	186	751	636	683
26	547	461	496	675	653	666	171	123	147	741	651	694
27	598	540	565	683	645	671	219	171	197	653	633	644
28	634	597	615	---	643	---	285	195	241	648	631	639
29	673	607	649	---	---	---	290	244	264	647	627	642
30	697	637	678	---	---	---	340	290	313	665	641	654
31	---	---	---	---	---	---	396	340	365	---	---	---
MONTH	969	48	419	815	394	656	1,070	111	511	809	396	613
YEAR	1,340	48	697									

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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

YEAR			
	MAX	MAXIMUM 8.8	MINIMUM 7.0
	MIN	MAXIMUM 8.3	MINIMUM 6.8
	MEDIAN	MAXIMUM 8.5	MINIMUM 6.9

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.1	17.0	18.4	16.1	14.9	15.3	4.4	2.7	3.7	10.9	8.1	9.5
2	17.0	14.6	15.9	14.9	11.6	13.0	4.5	3.1	3.9	10.9	6.5	8.7
3	17.5	14.5	16.1	11.6	10.1	10.5	4.3	2.8	3.7	6.5	4.8	5.6
4	18.1	16.9	17.4	11.1	8.9	10.1	5.0	3.1	4.1	4.8	1.7	3.6
5	18.1	15.7	16.9	11.4	9.1	10.4	5.9	4.4	5.0	1.7	0.0	0.4
6	17.8	16.6	16.9	12.4	10.1	11.3	6.7	5.8	6.2	0.1	0.0	0.0
7	17.5	16.6	17.0	12.9	10.8	11.9	6.8	5.3	6.2	0.1	0.0	0.0
8	19.4	16.5	18.0	12.1	10.9	11.6	7.0	5.6	6.3	0.3	0.0	0.1
9	19.5	17.8	18.8	12.7	10.8	11.8	6.7	5.2	6.0	1.4	0.0	0.6
10	18.8	17.4	18.0	12.0	10.9	11.3	6.3	5.1	5.8	0.8	0.2	0.5
11	17.4	15.3	16.1	11.1	9.2	9.7	5.6	4.1	5.0	0.8	0.4	0.7
12	15.3	14.1	14.7	9.6	8.1	9.0	6.3	4.8	5.5	1.4	0.7	1.0
13	14.8	13.6	14.2	9.0	7.6	8.4	5.6	4.1	4.7	1.8	0.2	0.9
14	14.0	12.2	13.2	9.5	8.0	8.8	4.1	2.4	3.1	0.7	-0.1	0.2
15	13.7	12.5	13.2	10.3	9.4	9.8	2.8	1.4	2.3	0.4	0.0	0.1
16	14.4	12.1	13.3	12.6	10.3	11.3	4.2	2.4	3.3	0.7	0.0	0.2
17	15.1	12.6	13.9	14.1	12.6	13.5	4.6	2.8	3.8	1.0	0.1	0.4
18	16.2	14.8	15.5	14.6	13.7	14.1	5.6	3.9	4.7	1.2	0.1	0.6
19	16.1	14.5	15.3	14.1	12.4	13.2	5.0	2.7	3.7	2.6	0.4	1.4
20	15.4	14.6	14.9	12.4	11.3	11.9	3.6	1.6	2.7	2.1	0.4	1.2
21	16.9	14.4	15.5	11.3	10.3	10.8	3.6	2.9	3.4	1.3	0.4	1.0
22	18.2	16.9	17.5	10.8	10.3	10.6	3.3	0.4	1.7	0.8	0.0	0.2
23	17.6	15.8	16.6	10.8	8.8	10.3	0.7	0.0	0.3	0.2	0.0	0.0
24	16.5	14.2	15.4	8.8	6.2	7.2	1.0	0.0	0.3	0.8	0.0	0.3
25	15.9	14.4	15.3	7.0	5.0	6.1	1.2	0.1	0.6	2.4	0.2	1.3
26	17.1	15.6	16.3	7.8	6.3	7.0	2.0	0.3	1.2	2.9	1.1	2.1
27	18.4	16.6	17.3	7.9	6.9	7.4	3.3	1.3	2.3	2.7	2.1	2.2
28	20.0	18.2	19.0	6.9	6.0	6.5	4.6	2.6	3.6	2.2	1.8	2.0
29	20.7	18.8	19.7	6.7	4.4	5.8	5.8	3.0	4.2	3.1	1.6	2.3
30	18.8	15.6	16.6	4.9	3.6	4.2	9.2	5.8	7.6	3.4	2.8	3.1
31	15.8	14.0	14.7	---	---	---	8.4	6.8	7.7	3.5	2.3	2.9
MONTH	20.7	12.1	16.2	16.1	3.6	10.1	9.2	0.0	4.0	10.9	-0.1	1.7

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.7	3.1	3.4	8.1	4.8	6.5	13.7	9.2	11.4	14.6	12.6	13.6
2	5.0	3.1	3.9	9.1	5.2	7.1	15.3	10.6	12.9	16.7	11.1	13.8
3	5.7	3.0	4.3	11.1	6.7	8.9	16.5	12.1	14.1	18.2	12.3	---
4	6.5	3.5	5.0	12.4	8.3	10.4	18.3	12.9	15.4	19.0	13.3	16.1
5	6.9	4.6	5.8	12.7	9.1	11.0	19.3	15.5	17.2	17.5	15.4	16.4
6	6.9	6.4	6.6	13.6	9.8	11.7	17.9	15.5	16.6	21.4	15.2	17.9
7	6.5	4.2	5.2	12.7	10.4	11.7	18.3	13.4	15.7	20.7	17.7	19.2
8	4.2	1.8	3.1	10.4	8.3	9.5	17.1	14.6	15.8	22.6	18.2	20.1
9	2.0	0.7	1.4	9.6	7.9	8.6	18.4	14.6	16.3	23.7	18.4	20.7
10	2.6	0.3	1.5	10.2	7.0	8.6	17.5	15.5	16.3	23.7	17.6	20.3
11	3.9	1.3	2.6	11.4	7.2	9.4	17.2	14.9	16.0	25.0	21.1	22.8
12	5.0	3.0	3.8	14.1	9.0	11.4	16.3	13.9	15.2	23.7	21.3	22.5
13	7.4	5.0	6.1	12.1	8.9	10.6	14.9	13.7	14.1	21.8	17.3	19.6
14	8.2	6.5	7.3	12.1	8.4	10.3	16.1	12.1	---	18.2	17.0	17.6
15	9.0	7.9	8.4	11.1	9.2	10.2	17.6	13.1	15.3	18.9	17.4	18.2
16	8.5	7.3	7.7	12.7	8.4	10.4	19.2	15.6	17.4	19.5	17.3	18.4
17	7.9	6.1	7.1	12.6	8.5	10.6	21.0	17.2	19.0	20.5	17.9	19.2
18	7.6	5.6	6.8	13.0	8.9	10.9	20.0	17.4	18.7	21.4	18.8	20.0
19	7.6	7.0	7.2	12.5	8.2	10.5	20.1	17.6	18.7	24.5	20.0	22.0
20	10.3	7.3	8.7	13.5	9.4	11.5	23.9	18.4	20.7	25.7	22.3	24.0
21	9.6	8.2	8.8	12.5	10.4	11.4	24.1	19.9	21.8	26.2	23.1	24.7
22	9.2	8.0	8.5	10.4	7.3	8.8	21.7	16.9	18.8	27.7	23.9	25.6
23	8.5	6.8	7.5	7.3	6.2	6.6	19.1	14.1	16.7	26.2	22.4	24.4
24	9.0	5.8	7.3	6.6	5.9	6.3	18.9	13.8	16.5	25.2	22.9	24.2
25	10.0	6.1	8.0	7.0	6.3	6.6	17.6	14.4	15.7	26.6	22.4	24.2
26	10.4	7.6	9.0	7.4	6.6	7.1	17.0	12.3	14.5	25.6	22.0	23.7
27	9.6	7.9	8.9	10.2	6.6	8.3	18.0	12.6	15.3	23.1	20.6	21.7
28	8.8	6.0	7.3	12.0	8.0	10.0	16.7	14.5	15.5	23.8	19.4	21.6
29	---	---	---	13.8	11.2	12.5	14.6	11.2	12.4	25.2	21.4	23.0
30	---	---	---	13.4	11.8	12.6	16.1	9.4	12.4	24.1	20.3	22.1
31	---	---	---	11.8	10.3	10.9	---	---	---	22.5	20.4	21.4
MONTH	10.4	0.3	6.1	14.1	4.8	9.7	24.1	9.2	16.1	27.7	11.1	20.6

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	19.1	21.3	28.5	24.2	26.3	28.8	24.1	26.5	27.0	23.9	25.5
2	24.5	21.0	22.7	28.1	24.3	26.2	29.1	---	---	26.4	24.0	25.2
3	22.7	19.8	21.0	26.9	23.9	25.5	29.2	25.0	27.1	27.2	23.6	25.5
4	20.3	18.5	19.5	26.5	22.6	24.5	28.8	25.3	27.1	26.7	23.6	25.3
5	21.6	19.7	20.5	26.7	23.3	25.1	27.4	23.1	25.4	25.6	22.7	24.3
6	23.4	20.8	21.9	27.0	23.4	25.2	26.2	24.4	25.4	24.8	22.2	23.5
7	25.3	22.6	23.8	27.1	24.5	25.8	26.4	22.8	24.7	24.3	22.6	23.5
8	27.7	23.2	25.4	27.5	24.3	25.8	28.8	24.6	26.6	25.8	22.3	23.9
9	---	17.6	---	28.4	24.2	26.2	29.0	25.0	27.1	25.2	22.4	23.9
10	---	---	---	28.9	24.2	26.5	29.3	25.3	27.3	25.1	21.6	23.4
11	---	---	---	29.3	24.8	27.0	28.8	25.1	27.1	24.2	22.0	23.2
12	---	---	---	27.8	25.4	26.5	27.9	25.4	26.5	25.0	22.1	23.4
13	21.0	20.2	20.5	27.3	23.7	25.6	26.1	24.1	25.1	25.3	22.3	23.8
14	22.0	20.7	21.2	28.0	25.0	26.6	24.6	21.4	22.4	24.0	21.0	22.4
15	---	21.4	---	28.2	25.6	26.9	22.1	20.6	21.3	22.4	19.9	20.9
16	24.3	22.4	---	29.9	25.4	27.5	23.8	21.7	22.6	22.1	18.4	20.3
17	23.6	21.9	22.8	29.6	25.4	27.5	26.3	22.3	24.0	21.7	18.5	20.2
18	24.9	22.4	23.8	28.0	24.2	25.4	28.9	23.8	26.2	24.8	20.7	22.6
19	26.6	24.6	25.4	27.7	23.4	25.3	29.6	25.4	27.5	25.0	22.6	23.9
20	27.4	25.0	26.1	29.7	24.8	27.1	28.2	24.7	25.6	25.8	22.2	24.0
21	27.0	24.8	25.9	30.3	25.6	27.9	25.8	23.9	24.7	26.0	23.1	24.6
22	27.7	24.8	26.3	31.1	26.4	28.8	26.7	24.1	25.3	25.6	22.4	24.0
23	27.6	24.6	26.1	31.1	27.1	29.1	26.2	22.8	24.8	24.4	21.7	23.3
24	26.7	24.6	25.7	30.2	26.3	28.3	25.9	23.7	24.9	25.4	22.2	23.8
25	27.3	24.1	25.7	29.7	25.8	27.8	24.7	21.7	22.7	25.9	22.3	24.2
26	27.2	24.7	26.0	27.9	22.4	24.9	25.5	23.2	24.7	24.8	21.7	23.1
27	27.7	24.9	26.3	25.1	20.2	22.6	26.4	25.2	25.7	22.8	19.5	21.4
28	28.0	24.5	26.2	26.3	21.1	23.7	27.0	25.4	26.1	21.8	18.5	20.5
29	27.8	24.3	26.0	27.2	22.3	24.8	27.1	24.1	25.6	18.5	15.6	17.1
30	28.6	24.7	26.5	27.8	23.0	25.4	27.4	24.5	26.0	19.0	15.3	17.1
31	---	---	---	28.4	23.6	26.0	27.6	24.1	25.9	---	---	---
MONTH	28.6	17.6	24.0	31.1	20.2	26.2	29.6	20.6	25.4	27.2	15.3	22.9
YEAR	31.1	-0.1	15.1									

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	9.4	7.1	8.4	12.1	11.0	11.5	12.5	10.1	10.9
2	10.8	7.5	9.2	9.6	7.8	8.8	12.3	11.0	11.6	11.0	9.1	10.1
3	10.8	8.1	9.6	10.0	8.5	9.3	12.3	11.2	11.7	13.0	10.6	11.7
4	10.6	7.6	9.2	11.6	8.9	10.4	12.3	11.1	11.6	12.7	11.5	12.1
5	10.9	7.9	9.6	11.1	9.5	10.4	11.6	10.7	11.0	13.3	12.7	13.0
6	10.5	8.1	9.1	10.3	8.9	9.6	11.0	10.1	10.5	13.4	13.2	13.3
7	9.0	7.2	8.2	10.0	8.4	9.3	11.4	10.0	10.7	13.2	12.9	13.1
8	11.1	7.1	9.1	10.7	8.6	9.7	11.6	10.2	10.9	13.0	12.9	12.9
9	10.7	7.6	9.4	11.4	9.3	10.4	11.8	10.2	11.0	12.9	12.7	12.8
10	10.0	7.4	8.6	10.5	8.7	9.2	12.1	10.3	11.2	13.0	12.7	12.9
11	9.8	7.2	8.6	10.8	8.7	9.8	12.4	10.6	11.5	13.1	12.7	12.9
12	11.2	7.8	9.5	12.2	9.6	10.9	12.4	10.6	11.5	13.1	12.9	12.9
13	11.2	8.3	10.0	12.6	10.0	11.4	12.8	10.6	11.7	13.3	12.9	13.1
14	12.3	8.6	10.6	12.6	10.3	11.6	13.2	11.3	12.3	13.9	13.2	13.4
15	11.5	9.0	10.4	12.0	9.8	10.5	13.7	11.9	12.8	14.1	13.6	13.9
16	11.5	8.7	10.3	10.2	8.9	9.7	13.5	11.7	12.7	14.7	13.7	14.1
17	11.8	8.7	10.4	10.0	8.1	9.2	13.4	11.5	12.5	15.2	13.6	14.4
18	12.0	8.4	10.3	9.9	7.6	8.9	13.3	11.1	12.3	15.6	13.8	14.6
19	11.8	8.5	10.4	9.9	7.6	8.8	13.8	11.2	12.5	15.2	13.4	14.2
20	11.0	8.2	9.6	10.1	8.0	9.1	14.5	11.8	13.2	14.2	13.4	13.7
21	11.6	8.3	10.1	11.9	8.6	10.3	15.3	11.8	13.6	13.6	13.2	13.4
22	10.7	7.8	9.2	11.3	8.9	10.2	15.8	12.4	14.2	13.4	13.1	13.2
23	10.7	7.6	9.2	10.4	8.4	9.2	16.6	13.6	15.1	13.7	13.4	13.6
24	11.1	8.2	9.8	12.2	9.5	10.4	16.5	14.1	15.3	13.8	13.4	13.6
25	11.5	8.1	9.9	11.0	10.3	10.7	16.3	13.7	15.0	13.6	12.9	13.3
26	11.2	8.0	9.3	10.4	9.9	10.2	16.4	13.4	14.9	13.0	12.5	12.8
27	8.0	6.5	7.3	10.6	9.8	10.1	16.6	13.1	14.8	13.0	12.4	12.6
28	8.1	5.8	7.0	10.5	9.9	10.2	16.2	12.6	14.4	12.6	12.5	12.5
29	8.8	6.2	7.4	10.6	10.0	10.2	16.3	12.2	14.2	12.6	12.3	12.5
30	10.0	6.6	8.1	11.5	10.6	11.0	13.9	11.2	12.7	12.3	12.1	12.2
31	10.9	7.3	9.1	---	---	---	13.8	10.1	12.1	12.3	12.1	12.2
MONTH	12.3	5.8	9.3	12.6	7.1	9.9	16.6	10.0	12.6	15.6	9.1	13.0

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.3	12.2	12.2	---	---	---	10.6	9.8	10.1	---	---	---
2	12.4	12.1	12.3	---	---	---	11.1	9.5	10.2	---	---	---
3	12.4	12.0	12.2	---	---	---	11.6	9.2	10.3	17.0	---	---
4	12.1	11.4	11.9	---	---	---	13.0	9.1	10.7	16.6	8.1	12.1
5	11.8	11.2	11.5	---	---	---	14.6	8.6	11.2	14.9	7.5	11.0
6	11.2	10.8	11.0	---	---	---	14.0	8.5	11.1	15.7	7.8	11.6
7	11.4	10.9	11.1	---	---	---	16.6	9.0	12.3	14.2	6.9	10.3
8	12.6	11.4	11.9	---	---	---	14.9	9.0	11.6	14.4	6.6	10
9	13.2	12.6	12.9	15.5	---	---	13.5	9.2	11.1	12.8	6.0	8.5
10	13.4	12.9	13.2	15.9	9.8	12.6	10.3	8.3	9.3	6.7	5.4	6.1
11	13.0	12.4	12.8	15.7	9.6	12.4	11.1	8.4	9.7	6.3	5.4	5.7
12	12.4	11.7	12.2	15.9	9.0	12.1	12.3	8.8	10.4	6.3	5.4	5.9
13	11.8	10.7	11.3	14.8	8.1	11.2	10.9	9.2	10.1	6.4	4.5	5.5
14	10.7	9.6	10.3	14.2	8.3	11.1	10.1	8.8	9.4	4.7	4.0	4.3
15	9.6	9.5	9.5	13.3	7.8	10.4	9.9	8.6	9.2	4.3	4.0	4.1
16	10.3	9.6	10.1	12.8	7.6	10	9.6	8.1	8.8	5.4	4.3	4.7
17	10.6	10.0	10.4	11.1	7.0	9.0	9.4	7.5	8.4	6.7	5.4	6.4
18	10.3	9.9	10.1	11.3	6.5	8.8	9.4	7.4	8.4	6.7	6.5	6.6
19	9.9	9.7	9.8	11.5	6.5	8.8	10.3	7.6	8.7	6.7	6.2	6.5
20	9.8	9.1	9.5	10.8	6.3	8.4	11.9	7.4	9.3	6.5	6.1	6.3
21	9.3	9.0	9.2	---	---	---	13.2	6.9	9.5	6.8	6.0	6.4
22	9.3	9.0	9.2	---	---	---	13.6	7.4	10.1	7.3	6.0	6.6
23	9.3	9.1	9.2	---	---	---	14.8	8.2	11.2	6.7	5.3	5.8
24	9.8	9.1	9.4	---	---	---	16.6	8.5	12.1	6.2	5.5	5.8
25	9.7	8.9	9.2	10.6	10.0	10.5	12.0	8.1	10.2	7.1	5.5	6.4
26	9.5	8.8	9.1	10.7	10.6	10.6	15.6	8.5	11.7	7.4	6.2	6.8
27	---	---	---	10.6	10.0	10.5	17.0	9.0	12.6	7.0	6.2	6.4
28	---	---	---	10.4	9.3	9.9	17.5	8.8	13.0	6.9	6.4	6.7
29	---	---	---	9.4	8.9	9.2	---	10.0	---	6.6	6.4	6.5
30	---	---	---	9.4	8.6	9.0	---	---	---	7.2	6.6	6.8
31	---	---	---	9.8	9.2	9.5	---	---	---	7.4	6.7	7.0
MONTH	13.4	8.8	10.8	15.9	6.3	10.2	17.5	6.9	10.4	17.0	4.0	7.0

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	6.9	7.2	16.8	6.4	10.8	18.8	5.8	11.6	6.6	5.8	6.2
2	7.9	6.8	7.2	17.1	6.8	---	21.9	5.7	---	7.1	6.0	6.5
3	7.7	6.9	7.2	14.3	6.6	9.6	22.8	6.5	13.9	8.0	6.1	6.9
4	6.9	5.7	6.4	7.2	6.1	6.5	22.8	6.6	14.0	8.2	6.0	7.0
5	5.8	5.3	5.6	7.1	5.5	6.1	20.1	6.1	12.1	9.1	6.2	7.5
6	6.0	5.3	5.7	7.1	5.5	6.2	8.7	5.6	6.3	11.1	6.4	8.5
7	6.2	6.0	6.1	7.1	5.6	6.3	6.2	5.5	6.0	14.9	6.7	10.1
8	7.2	5.8	6.1	7.2	5.7	6.3	5.5	4.9	5.3	18.2	7.1	12.1
9	---	---	---	8.7	5.7	6.9	5.5	4.9	5.1	18.6	6.6	12.0
10	---	---	---	11.7	5.9	8.2	6.6	4.8	5.5	17.7	6.5	11.5
11	---	---	---	12.0	6.1	8.7	10.8	4.8	7.2	17.5	6.4	11.5
12	---	---	---	10.1	6.1	8.1	11.6	6.5	8.5	16.7	6.3	10.8
13	5.0	4.5	4.6	8.1	5.3	5.9	10.7	6.0	8.0	17.7	6.1	11.1
14	4.5	4.4	4.4	10.2	5.8	7.6	9.2	6.8	7.9	16.2	6.4	10.9
15	---	---	---	7.9	5.7	6.3	---	---	---	12.5	6.7	9.4
16	5.4	---	---	7.5	5.5	6.3	9.2	---	---	12.5	7.1	9.3
17	5.4	4.5	5.0	8.5	5.5	6.8	14.9	6.5	9.7	11.8	6.9	9.0
18	4.5	4.1	4.2	7.7	5.7	6.6	17.2	6.2	11.0	13.2	6.6	9.5
19	5.3	4.3	4.8	9.6	6.2	7.7	20.4	5.3	11.9	13.8	6.1	9.6
20	5.6	5.3	5.5	12.2	6.1	8.7	13.5	5.5	9.1	14.5	6.2	9.8
21	6.0	5.6	5.8	13.2	5.8	9.0	9.3	6.3	7.8	14.4	6.2	9.9
22	6.2	---	---	12.9	5.6	8.9	11.5	6.6	8.4	14.5	6.2	10.0
23	6.5	6.0	6.3	12.7	5.4	8.6	8.2	5.4	6.7	14.5	6.5	10.3
24	6.4	5.7	6.0	13.1	5.4	8.8	6.8	5.3	6.0	14.9	6.6	10.6
25	6.1	5.9	6.0	13.9	5.4	9.2	6.8	5.4	5.8	13.5	6.2	9.8
26	6.4	6.0	6.2	9.6	5.3	6.9	5.4	5.1	5.2	14.2	5.9	9.8
27	7.0	6.0	6.5	10.8	6.1	8.1	5.5	5.1	5.3	13.8	6.5	10.1
28	8.5	6.2	7.2	11.4	6.4	8.6	5.8	5.5	5.7	13.3	6.3	9.8
29	10.3	6.4	8.1	13.2	6.4	9.4	6.1	5.8	5.9	14.3	7.3	10.7
30	13.8	6.5	9.4	16.0	6.6	10.8	6.0	5.8	5.9	13.7	7.6	10.7
31	---	---	---	17.3	6.2	11.1	6.2	5.8	6.0	---	---	---
MONTH	13.8	4.1	6.2	17.3	5.3	8.0	22.8	4.8	7.9	18.6	5.8	9.7
YEAR	22.8	4.0	9.7									

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	55	39	46	53	28	40	62	46	51
2	48	31	38	56	34	44	28	18	23	62	41	52
3	49	33	39	36	16	25	19	15	16	41	22	30
4	50	39	45	26	15	18	16	14	15	180	23	42
5	47	34	39	37	26	29	24	15	17	580	160	330
6	45	35	39	46	36	39	34	24	29	170	130	150
7	47	36	43	48	39	43	35	27	31	150	120	130
8	51	32	41	46	34	39	39	30	34	140	100	110
9	44	34	39	40	31	34	34	26	30	100	78	88
10	48	36	42	36	27	32	32	20	26	90	62	76
11	46	38	42	44	31	36	20	15	17	64	48	57
12	45	31	37	36	25	29	24	15	18	49	37	41
13	39	25	32	32	22	25	23	13	17	39	31	35
14	28	21	24	31	20	24	14	9.3	11	34	24	27
15	38	26	31	39	31	35	11	8.1	9.3	24	18	21
16	40	31	35	50	39	43	11	8.0	9.5	21	15	17
17	41	33	37	54	44	50	13	8.7	10	18	13	15
18	41	32	36	54	44	48	20	12	15	15	12	13
19	39	31	35	44	35	40	21	8.9	14	19	12	14
20	41	32	36	51	35	39	9.5	8.4	9.0	190	14	72
21	44	31	36	39	30	35	11	8.4	9.5	280	150	200
22	50	38	43	42	35	37	10	7.4	8.3	470	280	400
23	48	35	41	42	34	38	8.9	7.8	8.3	390	220	290
24	42	36	39	62	29	38	9.7	7.7	8.7	250	180	210
25	47	36	41	91	62	80	10	6.9	8.2	200	170	190
26	57	39	46	98	90	94	7.3	6.2	6.7	180	150	160
27	60	47	54	100	77	87	11	6.0	7.7	150	120	130
28	60	34	47	150	87	120	17	7.1	10	120	92	100
29	54	36	43	140	83	110	25	10	15	100	81	86
30	58	42	49	83	53	64	44	25	34	87	71	78
31	42	30	36	---	---	---	48	38	43	71	58	64
MONTH	60	21	40	150	15	47	53	6.0	18	580	12	110

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	65	59	62	31	25	28	52	42	47	19	14	16
2	78	58	65	36	23	27	45	39	41	20	13	17
3	110	61	82	37	27	32	62	40	46	22	16	19
4	91	70	78	42	35	38	65	42	---	32	17	22
5	78	67	72	44	37	40	---	32	---	30	24	26
6	98	67	72	42	36	39	42	32	36	31	22	26
7	320	98	270	42	29	37	44	33	38	31	26	28
8	400	260	330	30	21	25	46	35	39	35	28	30
9	460	360	420	22	18	20	63	46	55	500	30	67
10	360	270	300	26	17	20	77	57	65	500	150	280
11	270	210	230	34	20	26	69	35	49	150	82	120
12	250	190	200	44	34	38	40	34	37	110	85	100
13	340	190	250	45	34	39	65	---	---	1,810	94	680
14	750	340	530	39	28	34	170	64	110	790	350	470
15	790	550	690	36	29	32	160	67	100	370	270	330
16	550	430	490	31	24	28	67	63	65	270	210	230
17	430	340	380	32	26	29	77	63	68	290	230	270
18	340	270	300	31	23	27	70	53	63	240	180	210
19	270	210	240	28	18	24	57	42	50	180	130	160
20	210	190	200	31	23	27	45	32	41	130	96	120
21	190	150	170	350	30	59	32	23	27	110	79	94
22	150	120	140	470	340	410	27	20	24	81	58	71
23	120	77	99	440	360	410	22	18	20	900	58	410
24	77	64	68	380	310	360	21	17	19	670	180	370
25	67	56	61	310	230	270	22	18	20	380	98	200
26	59	52	55	230	180	210	20	13	17	310	98	160
27	55	42	51	180	150	170	21	15	18	1,820	300	960
28	42	30	34	150	120	130	24	16	19	650	270	430
29	---	---	---	120	99	110	20	9.9	14	270	180	220
30	---	---	---	110	74	93	14	7.6	10	190	---	---
31	---	---	---	74	52	66	---	---	---	120	100	110
MONTH	790	30	210	470	17	93	170	7.6	42	1,820	13	210

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	130	83	110	65	24	40	56	32	41	160	130	150
2	200	77	100	50	23	38	53	35	45	160	110	140
3	1,500	120	370	---	27	---	58	43	---	110	86	100
4	970	510	690	260	120	---	70	42	52	110	77	94
5	740	530	590	180	110	140	56	39	47	94	60	78
6	530	340	420	110	67	96	720	47	---	75	44	61
7	340	220	280	110	70	94	600	360	460	54	33	45
8	1,610	160	220	130	76	110	360	290	340	46	31	39
9	1,790	---	---	87	46	73	290	190	260	43	28	37
10	---	---	---	65	34	53	190	110	150	42	27	35
11	---	---	---	63	30	48	120	86	110	40	24	33
12	---	210	---	59	31	46	180	88	110	41	25	34
13	280	190	240	210	49	150	180	90	130	37	22	31
14	190	170	180	120	42	85	170	78	110	37	23	30
15	210	---	---	210	54	---	160	60	88	85	25	49
16	400	180	---	140	72	110	78	48	64	44	29	35
17	490	270	350	94	48	77	76	58	67	45	31	37
18	270	230	260	78	44	64	87	65	72	43	22	33
19	230	200	210	61	26	46	150	68	---	38	23	31
20	210	160	190	49	24	38	130	85	---	40	22	31
21	160	---	---	48	26	38	120	---	---	35	22	28
22	---	98	---	44	28	36	110	61	93	32	18	26
23	180	98	120	44	30	37	330	76	210	28	18	24
24	610	180	360	44	30	38	350	120	210	30	14	21
25	310	190	260	46	33	40	1,380	160	---	26	17	21
26	190	110	150	49	36	42	---	390	---	25	15	19
27	110	66	94	55	25	39	450	380	420	24	15	20
28	78	36	65	39	22	31	380	260	290	23	13	19
29	61	28	50	45	26	34	260	190	230	25	11	16
30	51	22	39	51	30	36	190	150	170	19	14	17
31	---	---	---	48	32	38	160	130	150	---	---	---
MONTH	1,790	22	240	260	22	61	1,380	32	160	160	11	44
YEAR	1,820	6.0	100									

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	25	---	---	---	---	36	20	27	35	28	30
2	26	17	21	---	---	---	20	13	16	43	26	33
3	25	18	21	---	---	---	13	10	11	26	14	19
4	32	22	25	---	---	---	11	9.4	10	110	15	---
5	25	19	21	---	---	---	15	10	11	350	110	190
6	25	20	22	---	---	---	21	15	18	120	93	110
7	26	21	24	---	---	---	22	17	19	95	80	87
8	28	19	23	---	---	---	23	19	21	88	69	77
9	25	20	22	---	---	---	21	16	19	70	52	57
10	27	20	23	22	16	19	19	13	16	53	40	46
11	26	21	23	26	18	21	14	9.6	11	40	31	36
12	24	17	21	21	15	17	15	9.6	12	31	25	27
13	20	13	17	25	12	15	14	8.4	10	25	22	24
14	15	11	13	18	12	14	8.9	6.3	6.9	---	---	---
15	19	14	16	22	18	21	7.0	5.3	6.0	---	---	---
16	21	17	19	40	22	28	6.9	5.3	6.1	---	---	---
17	22	18	20	44	27	31	8.2	5.7	6.4	---	---	---
18	22	18	20	43	26	30	13	7.7	9.5	---	---	---
19	21	17	19	29	21	24	13	5.9	9.1	---	---	---
20	23	18	20	33	21	24	6.7	3.2	5.6	---	---	---
21	25	18	20	24	18	21	6.8	5.5	6.1	---	---	---
22	28	23	25	24	20	21	5.7	5.0	5.3	---	---	---
23	27	20	23	24	19	22	5.7	5.0	5.4	---	---	---
24	23	20	21	37	16	22	6.0	5.0	5.5	---	---	---
25	25	20	23	77	37	50	6.2	4.6	5.2	120	100	110
26	---	---	---	77	55	59	4.7	4.0	4.4	110	88	96
27	---	---	---	74	48	55	7.0	4.0	4.9	88	70	78
28	---	---	---	140	56	88	14	4.7	6.5	71	56	63
29	---	---	---	140	57	84	18	7.0	10	56	49	51
30	---	---	---	57	36	44	28	15	21	50	44	47
31	---	---	---	---	---	---	31	24	27	45	39	41
MONTH	32	11	21	140	12	34	36	3.2	11	350	14	64

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	42	39	40	20	16	18	---	---	---	13	9.3	11
2	45	38	42	23	15	18	---	---	---	13	8.7	11
3	73	40	53	24	17	20	---	---	---	16	10	12
4	72	48	52	26	22	24	---	---	---	15	11	13
5	59	45	48	29	23	26	---	---	---	19	15	16
6	63	45	49	27	23	25	26	21	23	19	15	16
7	200	63	160	28	19	24	27	22	24	22	16	18
8	260	160	200	19	14	16	29	22	25	42	19	24
9	280	230	270	15	12	13	37	29	35	300	21	47
10	240	190	---	16	11	13	49	36	41	300	100	170
11	210	140	170	21	13	17	40	23	32	130	56	80
12	140	130	130	28	21	24	27	22	24	110	59	76
13	230	120	170	28	22	25	41	23	34	510	67	300
14	500	230	350	25	18	22	110	41	74	430	230	280
15	530	380	460	23	19	21	110	43	65	230	180	210
16	380	300	330	20	16	18	44	42	43	180	150	160
17	300	230	260	20	16	18	48	43	46	180	160	170
18	230	180	200	22	15	18	48	37	43	170	120	140
19	180	140	160	19	12	16	38	28	34	140	90	110
20	140	130	140	19	15	17	30	21	26	100	69	88
21	140	99	120	200	19	35	21	15	18	69	54	65
22	99	80	91	310	200	260	18	13	16	64	46	53
23	80	51	66	270	230	250	14	11	13	510	---	---
24	51	42	45	260	190	230	14	11	12	400	120	230
25	44	37	40	200	150	180	13	12	12	240	---	---
26	38	34	36	150	120	140	13	8.6	11	220	---	---
27	35	27	33	120	98	110	12	9.7	11	1,060	150	---
28	27	19	22	99	80	88	16	---	---	---	120	---
29	---	---	---	80	66	73	---	6.8	---	210	100	---
30	---	---	---	73	51	63	10	5.3	7.1	130	74	---
31	---	---	---	---	---	---	---	---	---	83	71	75
MONTH	530	19	140	310	11	61	110	5.3	29	1,060	8.7	99

07144100 LITTLE ARKANSAS RIVER NEAR SEDGWICK, KS—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRARED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU—CONTINUED

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	91	55	73	32	14	24	23	10	17	99	78	88
2	94	55	62	32	13	23	28	13	20	96	68	84
3	810	76	220	69	16	29	29	14	22	68	52	62
4	560	330	420	170	37	---	29	18	23	62	45	55
5	460	340	380	120	79	98	30	18	25	53	34	45
6	340	230	280	82	45	68	570	25	230	46	26	35
7	230	160	200	74	47	63	390	270	320	30	17	25
8	1,060	120	160	85	52	73	270	230	250	25	16	21
9	1,080	---	---	60	29	49	230	150	190	22	14	19
10	---	---	---	44	22	34	150	77	110	24	14	19
11	---	---	---	42	19	31	87	50	73	22	13	18
12	---	---	---	38	19	29	120	54	74	21	13	18
13	---	---	---	140	32	100	120	61	90	21	11	16
14	---	---	---	83	28	58	120	55	74	19	12	16
15	---	---	---	150	35	96	110	43	62	44	12	26
16	---	---	---	95	50	77	55	32	45	22	16	18
17	320	180	230	64	32	53	52	31	43	24	17	20
18	180	160	170	54	27	42	45	24	37	22	12	17
19	160	140	150	39	17	29	42	24	35	20	12	16
20	150	110	130	32	13	23	48	24	37	22	11	17
21	110	83	99	31	14	23	64	34	52	19	11	15
22	86	71	79	32	13	21	73	46	---	17	8.6	13
23	130	71	84	28	13	21	200	46	130	14	8.7	12
24	420	130	240	28	15	22	230	76	---	15	7.0	11
25	220	140	190	30	18	24	780	110	430	13	8.2	11
26	140	76	110	34	22	27	290	220	240	13	7.3	9.4
27	76	44	65	31	15	24	270	220	250	11	7.5	---
28	51	23	43	27	13	20	220	160	180	13	6.1	---
29	40	17	32	27	13	20	160	120	140	15	5.1	---
30	32	13	25	27	11	19	120	94	110	10	6.5	8.1
31	---	---	---	25	10	18	100	79	93	---	---	---
MONTH	1,080	13	160	170	10	41	780	10	120	99	5.1	26
YEAR	1,080	3.2	66									

07144200 LITTLE ARKANSAS RIVER AT VALLEY CENTER, KS

LOCATION.--Lat 37°49'56", long 97°23'19", 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 left 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.

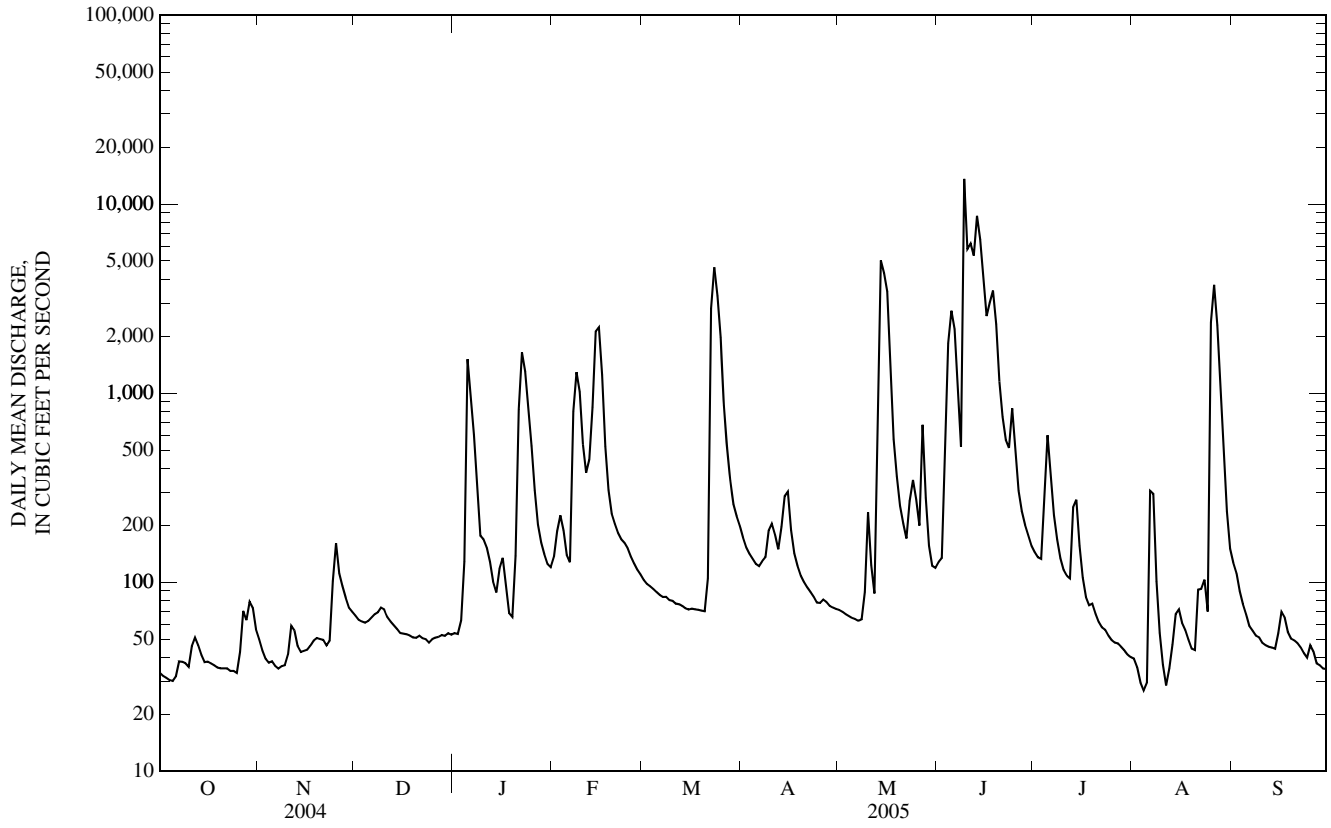
GAGE.--River gage is water-stage recorder. Datum of river gage is 1,325.66 ft above NGVD of 1929. Prior to Feb. 12, 1935, nonrecording gage at site 2.0 mi downstream at different datum. Feb. 12, 1935, to July 1, 1951, water-stage recorder, July 2, 1951, to Feb. 16, 1952, nonrecording gage, and Feb. 17, 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)
Feb 14	167	May 13	244	Jun 5	442	Jun 13	5,640	Jun 19	360
Feb 15	230	May 14	2,520	Jun 6	149	Jun 14	3,660	Aug 25	660
Mar 22	838	May 15	1,980	Jun 9	10,500	Jun 15	1,540	Aug 26	942
Mar 23	2,160	May 16	1,360	Jun 10	3,060	Jun 16	479	Aug 27	158
Mar 24	1,010	May 17	95	Jun 11	3,410	Jun 17	865		
Mar 25	157	Jun 4	144	Jun 12	2,660	Jun 18	1,180		

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)
Mar 23	0700	5,080	--	Jun 13	1800	9,720	--
May 14	1300	5,420	--	Jun 17	2200	4,250	--
Jun 9	1100	*19,700	--	Aug 25	2100	4,690	--
Jun 11	1800	7,920	--				



07144200 LITTLE ARKANSAS RIVER AT VALLEY CENTER, KS—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	50	67	54	136	103	172	71	128	144	40	127
2	32	44	63	53	186	98	153	70	134	136	36	112
3	31	39	62	63	226	95	141	68	362	133	29	90
4	30	38	61	129	188	92	133	66	1,840	e300	27	77
5	30	38	62	1,510	139	89	125	65	2,730	e600	29	68
6	32	36	65	978	128	86	122	64	2,180	e370	305	59
7	38	35	68	602	801	84	129	63	1,100	226	294	55
8	38	36	69	320	1,290	84	136	64	522	168	101	52
9	37	36	74	177	1,020	81	188	89	13,600	134	54	51
10	36	42	72	169	537	80	204	235	5,780	117	37	48
11	46	59	65	153	380	77	178	123	6,190	108	28	47
12	51	56	62	129	447	77	150	87	5,350	105	e35	46
13	46	46	59	101	842	75	196	1,030	8,670	250	e47	45
14	41	43	57	88	2,120	73	285	5,030	6,500	274	e68	44
15	38	43	54	118	2,230	72	301	4,320	3,960	156	e72	54
16	38	44	54	135	1,250	72	188	3,450	2,560	106	e61	70
17	37	46	53	97	523	72	142	1,370	3,020	84	56	65
18	36	49	52	69	307	72	122	572	3,490	75	50	55
19	35	51	51	65	231	71	108	363	2,320	77	45	50
20	35	50	51	138	204	70	100	254	1,150	68	44	49
21	35	50	52	824	182	105	94	205	749	62	91	48
22	35	46	51	1,640	169	2,810	89	170	568	58	92	45
23	34	49	e50	1,300	162	4,640	84	268	514	56	103	42
24	34	102	e48	806	152	3,270	78	347	831	52	70	40
25	33	161	e50	526	137	1,970	78	274	501	49	2,370	46
26	43	112	51	306	126	860	81	200	304	48	3,740	43
27	71	95	51	202	117	517	79	680	238	47	2,290	37
28	63	83	53	162	110	344	75	280	201	46	1,030	36
29	79	73	52	141	---	259	74	156	176	44	488	35
30	73	70	54	125	---	224	72	122	156	41	237	35
31	56	---	53	120	---	198	---	119	---	40	151	---
MEAN	41.8	57.4	57.6	365	512	543	136	654	2,527	135	391	55.7
MAX	79	161	74	1,640	2,230	4,640	301	5,030	13,600	600	3,740	127
MIN	30	35	48	53	110	70	72	63	128	40	27	35
AC-FT	2,570	3,420	3,540	22,410	28,440	33,360	8,090	40,220	150,400	8,280	24,040	3,310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2005, BY WATER YEAR (WY)

MEAN	288	198	101	90.6	209	387	387	565	635	459	227	253
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1923 - 2005	
ANNUAL MEAN	324		453		317	
HIGHEST ANNUAL MEAN					1,698	1993
LOWEST ANNUAL MEAN					24.9	1934
HIGHEST DAILY MEAN	15,100	Mar 5	13,600	Jun 9	28,600	Jul 15, 1993
LOWEST DAILY MEAN	30	Oct 4	27	Aug 4	1.1	Oct 6, 1956
ANNUAL SEVEN-DAY MINIMUM	32	Sep 30	32	Oct 1	1.9	Oct 5, 1956
MAXIMUM PEAK FLOW			19,700	Jun 9	32,000	Apr 16, 1945
MAXIMUM PEAK STAGE					22.05	Apr 16, 1945
INSTANTANEOUS LOW FLOW			26	Aug 4	0.00	Nov 19, 1992
ANNUAL RUNOFF (AC-FT)	235,100		328,100		229,600	
10 PERCENT EXCEEDS	406		1,020		498	
50 PERCENT EXCEEDS	64		84		60	
90 PERCENT EXCEEDS	38		38		21	

e Estimated