

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS

LOCATION.--Lat 37°51'45", long 98°00'49", in NE ¼ SE ¼ NE ¼ sec.19, T.25 S., R.6 W., Reno County, Hydrologic Unit 11030014, on right bank at upstream side of county highway bridge, 10 mi south of Hutchinson, 18.1 mi upstream from Cheney Dam, and at mile 33.8.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--713 mi², of which 237 mi² is probably noncontributing.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,456.05 ft above NGVD of 1929. Prior to Feb. 12, 1996, at site 4 mi downstream, datum 1,431.75 ft above NGVD of 1929.

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 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 5	0800	2,040	10.43	Jun 19	1600	1,790	10.21
May 13	1700	1,390	9.83	Jul 4	1400	1,720	10.14
Jun 18	1900	*2,940	*11.10				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	29	41	68	e80	143	103	84	112	97	101	54
2	33	30	41	66	e90	143	100	86	115	147	91	49
3	45	31	44	64	e90	150	100	78	116	146	83	46
4	44	32	44	59	e95	457	101	74	116	944	79	43
5	39	32	44	35	106	1,800	103	70	127	455	75	42
6	36	33	47	74	e100	1,080	99	67	115	400	71	50
7	34	35	49	e50	e90	515	98	65	111	264	71	50
8	70	35	48	80	e80	334	97	65	109	177	68	39
9	164	37	60	84	108	253	97	63	109	137	68	38
10	97	40	58	81	114	208	103	65	110	114	108	42
11	80	41	e55	87	119	174	106	65	109	103	129	39
12	69	41	e50	71	87	154	102	66	102	90	158	34
13	62	44	e53	68	e80	143	94	802	517	81	117	30
14	54	42	e53	67	e110	134	89	594	291	75	94	26
15	49	43	e53	66	98	126	85	297	371	71	86	26
16	47	42	e53	66	110	116	82	223	215	68	83	26
17	44	45	e55	74	117	114	79	229	161	66	87	25
18	42	47	e70	76	122	115	76	263	1,810	65	184	22
19	41	43	82	73	129	114	75	235	1,510	59	179	20
20	38	43	81	71	135	112	81	196	1,020	51	120	18
21	36	43	81	68	134	108	89	170	719	43	101	22
22	35	42	81	65	130	107	88	154	420	39	90	24
23	35	43	80	65	127	105	84	145	233	76	84	37
24	28	40	78	66	125	102	98	138	160	271	79	62
25	29	46	77	68	122	100	106	134	125	510	75	68
26	31	42	75	71	121	100	97	132	105	513	70	58
27	35	41	72	e65	120	127	86	131	95	256	67	47
28	33	39	72	e60	119	135	79	124	97	161	65	42
29	30	41	69	e70	125	126	77	119	162	137	61	45
30	28	42	68	e80	---	121	78	118	132	128	59	45
31	28	---	67	e80	---	110	---	115	---	116	56	---
MEAN	47.4	39.5	61.3	69.0	110	246	91.7	167	316	189	92.2	39.0
MAX	164	47	82	87	135	1,800	106	802	1,810	944	184	68
MIN	28	29	41	35	80	100	75	63	95	39	56	18
AC-FT	2,910	2,350	3,770	4,240	6,310	15,130	5,460	10,250	18,830	11,620	5,670	2,320

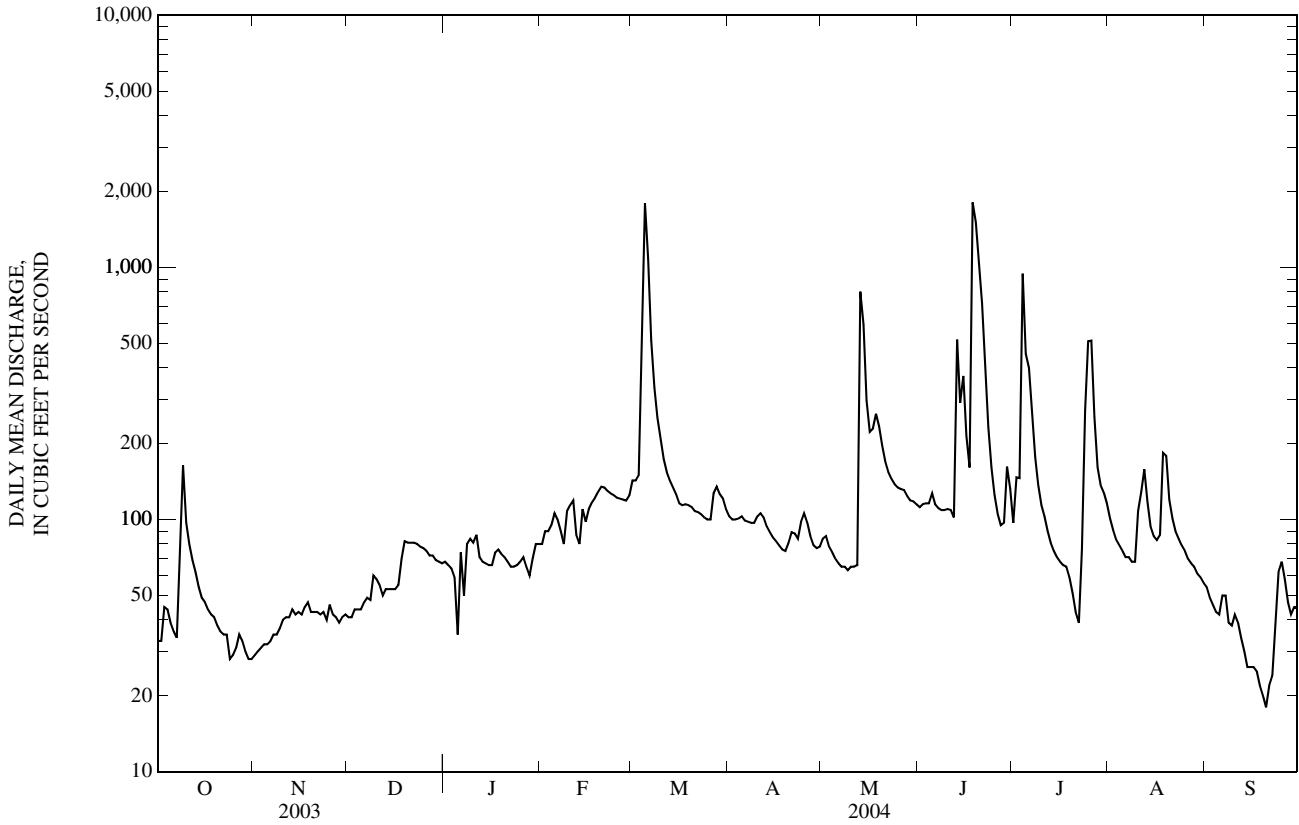
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	166	98.2	97.9	97.5	130	216	211	230	193	134	64.8	95.1
MAX	1,632	305	252	202	535	866	1,097	1,805	820	1,392	351	968
(WY)	(1980)	(1982)	(1974)	(1980)	(1993)	(1987)	(1974)	(1995)	(1995)	(1987)	(1977)	(1977)
MIN	15.0	36.0	39.5	50.3	54.7	44.7	48.3	32.5	16.5	13.0	8.08	6.80
(WY)	(1992)	(1967)	(1967)	(1977)	(1967)	(1967)	(1972)	(1967)	(1966)	(1968)	(1968)	(1971)

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL MEAN	113		122		145	
HIGHEST ANNUAL MEAN					388	1987
LOWEST ANNUAL MEAN					54.3	1968
HIGHEST DAILY MEAN	3,460	Mar 19	1,810	Jun 18	39,700	Oct 30, 1979
LOWEST DAILY MEAN	6.1	Aug 25	18	Sep 20	0.00	Jul 14, 1966
ANNUAL SEVEN-DAY MINIMUM	6.2	Aug 21	22	Sep 16	0.56	Jul 14, 1966
MAXIMUM PEAK FLOW			2,940	Jun 18	87,000	Oct 30, 1979
MAXIMUM PEAK STAGE			11.10	Jun 18	11.75	Mar 19, 2003
INSTANTANEOUS LOW FLOW			12	Jan 5	0.00	Jul 14, 1966
ANNUAL RUNOFF (AC-FT)	82,010		88,860		104,700	
10 PERCENT EXCEEDS	165		175		220	
50 PERCENT EXCEEDS	75		80		76	
90 PERCENT EXCEEDS	16		37		24	

e Estimated



07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1998 to current year.

pH: November 1998 to current year.

WATER TEMPERATURE: November 1998 to current year.

DISSOLVED OXYGEN: November 1998 to current year.

TURBIDITY (YSI 6026 sensor): November 1998 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,640 microsiemens/cm, Jan. 6, 2004; minimum, 122 microsiemens/cm, Sept. 18, 2001.

pH: Maximum, 9.4 standard units, Sept. 29, 2001; minimum, 7.0 standard units, June 18, 2004.

WATER TEMPERATURE: Maximum, 38.5°C, Aug. 1, 2002; minimum, -0.2°C, Jan. 1, 2002.

DISSOLVED OXYGEN: Maximum, 18.4 mg/L, Jan. 27, 2001; minimum, 2.3 mg/L, July 16, 1999.

TURBIDITY (YSI 6026 sensor): Maximum, >1,700 FNU, Sept. 17, 2001; minimum, 0.9 FNU, July 29, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,640 microsiemens/cm, Jan. 6; minimum, 213 microsiemens/cm, June 18.

pH: Maximum, 8.8 standard units, Feb. 23; minimum, 7.0 standard units, June 18.

WATER TEMPERATURE: Maximum, 36.4°C, July 15; minimum, -0.1°C, Dec. 10.

DISSOLVED OXYGEN: Maximum, 16.2 mg/L, Feb. 7; minimum, 5.4 mg/L, June 14.

TURBIDITY (YSI 6026 sensor): Maximum, 1,230 FNU, July 4; minimum, 2.0 FNU, Oct. 1.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1,130	1,080	1,110	1,170	1,160	1,170	1,260	1,240	1,250	1,320	1,300	1,310
2	1,190	1,120	1,150	1,160	1,140	1,150	1,260	1,220	1,250	1,320	1,280	1,290
3	1,200	1,000	1,110	1,180	1,140	1,170	1,240	1,220	1,230	1,320	1,290	1,300
4	1,200	1,170	1,190	1,200	1,180	1,190	1,250	1,220	1,240	1,340	1,290	1,320
5	1,240	1,200	1,230	1,220	1,200	1,210	1,280	1,210	1,250	1,490	1,340	1,410
6	1,260	1,240	1,250	1,230	1,220	1,220	1,300	1,220	1,260	1,640	1,420	1,520
7	1,250	1,240	---	1,240	1,220	1,230	1,290	1,220	1,260	1,590	1,510	1,560
8	---	481	---	1,240	1,220	1,230	1,270	1,240	1,250	1,520	1,340	1,440
9	746	461	575	1,240	1,210	1,230	1,250	1,110	1,170	1,380	1,280	1,320
10	1,090	746	970	1,220	1,170	1,210	1,290	986	1,170	1,320	1,070	1,190
11	1,210	1,090	1,160	1,200	1,180	1,200	1,230	988	1,090	1,240	1,160	1,210
12	1,190	1,140	1,150	1,200	1,150	1,170	1,280	1,060	1,170	1,260	1,170	1,220
13	1,180	1,160	1,170	1,220	1,160	1,180	1,260	1,160	1,220	1,310	1,260	1,290
14	1,220	1,180	1,200	1,240	1,220	1,230	1,350	1,180	1,230	1,330	1,310	1,320
15	1,230	1,210	1,220	1,220	1,200	1,210	1,410	1,200	1,340	1,340	1,300	1,310
16	1,220	1,200	1,210	1,220	1,210	1,220	1,370	1,320	1,350	1,300	1,230	1,280
17	1,220	1,200	1,210	1,230	1,210	1,220	1,420	1,310	1,360	1,240	1,160	1,200
18	1,210	1,180	1,200	1,250	1,230	1,240	1,430	1,290	1,390	1,290	1,160	1,230
19	1,180	1,120	1,160	1,260	1,240	1,250	1,500	1,360	1,400	1,400	1,290	1,340
20	1,130	1,090	1,110	1,250	1,240	1,240	1,520	1,430	1,480	1,380	1,340	1,370
21	1,170	1,120	1,150	1,250	1,230	1,240	1,510	1,460	1,490	1,360	1,290	1,320
22	1,170	1,150	1,160	1,250	1,230	1,240	1,500	1,460	1,480	1,320	1,270	1,290
23	1,170	1,150	1,160	1,280	1,240	1,260	1,520	1,480	1,500	1,320	1,260	1,300
24	1,170	1,160	1,160	1,330	1,220	1,270	1,520	1,480	1,500	1,330	1,310	1,320
25	1,160	1,110	1,130	1,290	1,230	1,270	1,490	1,430	1,460	1,310	1,270	1,290
26	1,190	1,160	1,180	1,290	1,250	1,270	1,460	1,370	1,400	1,400	1,230	1,310
27	1,210	1,170	1,190	1,260	1,240	1,250	1,380	1,350	1,370	1,480	1,270	1,410
28	1,180	1,160	1,160	1,260	1,220	1,240	1,390	1,330	1,360	1,490	1,270	1,360
29	1,180	1,160	1,170	1,250	1,220	1,240	1,380	1,340	1,360	1,540	1,390	1,450
30	1,180	1,170	1,180	1,270	1,230	1,250	1,360	1,310	1,340	1,510	1,360	1,460
31	1,180	1,170	1,180	---	---	---	1,340	1,300	1,320	1,480	1,350	1,420
MONTH	1,260	461	1,140	1,330	1,140	1,220	1,520	986	1,320	1,640	1,070	1,330

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1,400	1,340	1,380	1,150	1,120	1,140	1,230	1,210	1,220	1,120	1,090	1,100
2	1,400	1,310	1,340	1,250	1,150	1,200	1,230	1,220	1,230	1,130	1,070	1,090
3	1,380	1,270	1,320	1,250	1,140	1,200	1,230	1,220	1,220	1,170	1,130	1,150
4	1,330	1,260	1,290	1,210	605	970	1,230	1,200	1,210	1,300	1,140	1,190
5	1,300	1,240	1,260	657	380	503	1,220	1,190	1,210	1,280	1,170	1,230
6	1,270	1,140	1,220	699	581	647	1,210	1,190	1,200	1,240	1,150	1,190
7	1,300	1,150	1,220	762	685	737	1,200	1,160	1,190	1,260	1,180	1,230
8	1,330	1,240	1,300	890	762	822	1,230	1,180	1,200	1,270	1,220	1,240
9	1,360	1,110	1,250	1,010	890	960	1,210	1,120	1,170	1,270	1,220	1,240
10	1,360	1,090	1,200	1,110	1,010	1,070	1,160	1,110	1,130	1,250	1,220	1,230
11	1,270	1,120	1,210	1,150	1,110	1,130	1,130	1,090	1,110	1,240	1,220	1,230
12	1,330	1,130	1,200	1,180	1,150	1,170	1,230	1,070	1,150	1,240	1,070	1,220
13	1,360	1,130	1,260	1,180	1,170	1,180	1,210	1,190	1,200	1,140	236	519
14	1,360	1,060	1,230	1,190	1,180	1,180	1,230	1,200	1,220	621	314	441
15	1,420	1,290	1,340	1,200	1,180	1,190	1,220	1,180	1,200	917	621	772
16	1,330	1,280	1,310	1,210	1,200	1,200	1,180	1,100	1,150	1,120	917	1,040
17	1,340	1,240	1,290	1,220	1,210	1,220	1,150	1,120	1,140	1,120	884	1,040
18	1,290	1,240	1,270	1,230	1,220	1,230	1,140	1,100	1,130	1,020	843	933
19	1,250	1,200	1,220	1,230	1,210	1,230	1,160	1,130	1,140	1,120	1,000	1,060
20	1,270	1,190	1,230	1,220	1,200	1,210	1,160	1,090	1,110	1,180	1,090	1,160
21	1,300	1,270	1,280	1,230	1,220	1,220	1,140	1,080	1,100	1,260	1,170	1,210
22	1,300	1,270	1,280	1,230	1,200	1,220	1,200	1,140	1,180	1,230	1,090	1,180
23	1,280	1,260	1,270	1,240	1,200	1,220	1,200	1,130	1,170	1,240	1,120	1,210
24	1,280	1,250	1,270	1,240	1,200	1,220	1,130	1,070	1,100	1,240	1,190	1,220
25	1,280	1,260	1,270	1,230	1,220	1,220	1,160	1,060	1,100	1,240	1,200	1,220
26	1,290	1,240	1,260	1,220	1,210	1,220	1,220	1,160	1,190	1,240	1,210	1,220
27	1,290	1,240	1,260	1,220	986	1,110	1,220	1,200	1,210	1,230	1,210	1,220
28	1,260	1,240	1,250	1,110	1,030	1,060	1,230	1,200	1,210	1,240	1,210	1,230
29	1,250	1,110	1,180	1,240	1,110	1,180	1,240	1,210	1,230	1,260	1,240	1,250
30	---	---	---	1,250	1,230	1,240	1,210	1,100	1,170	1,250	1,240	1,250
31	---	---	---	1,240	1,220	1,230	---	---	---	1,250	1,230	1,240
MONTH	1,420	1,060	1,260	1,250	380	1,110	1,240	1,060	1,170	1,300	236	1,120

ARKANSAS RIVER BASIN

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1,260	1,230	1,240	1,120	990	1,060	---	---	---	---	---	---
2	1,230	1,110	1,170	1,180	859	1,010	---	---	---	---	---	---
3	1,200	1,100	1,160	1,020	835	927	1,230	---	---	1,290	---	---
4	1,190	1,140	1,160	1,040	332	549	1,250	1,200	1,230	1,290	1,260	1,280
5	1,170	778	1,010	775	486	658	1,250	1,200	---	1,290	1,160	1,250
6	1,040	985	1,010	742	582	664	1,250	1,240	1,240	1,220	1,160	1,190
7	1,100	1,040	1,070	938	741	824	1,240	1,170	1,220	1,250	1,200	1,220
8	1,180	1,090	1,130	1,100	938	1,030	1,210	1,160	1,190	1,270	1,220	1,250
9	1,180	1,140	1,160	1,140	1,100	1,130	1,210	1,170	1,190	---	1,200	---
10	1,180	1,160	1,170	1,180	1,140	1,170	1,190	764	1,040	1,300	1,250	1,280
11	1,180	1,140	1,160	1,180	1,150	1,170	1,060	767	917	1,330	1,270	1,300
12	1,190	1,150	1,170	1,220	1,170	1,200	966	808	854	1,320	1,270	1,290
13	1,190	292	460	1,240	1,200	1,210	1,000	818	912	1,310	1,260	1,290
14	615	405	523	1,220	1,190	1,210	1,140	1,000	1,070	1,310	1,220	1,270
15	631	529	572	1,210	1,160	1,190	1,170	1,110	1,140	1,290	1,140	1,220
16	830	621	726	1,240	1,150	1,180	1,180	1,140	1,160	1,240	1,160	1,210
17	1,010	830	904	1,230	1,180	1,210	1,200	1,110	1,170	1,260	1,200	1,230
18	970	213	371	1,210	1,140	1,190	1,110	607	843	1,260	1,220	1,240
19	376	266	324	1,190	1,130	1,170	753	593	662	1,240	1,190	1,210
20	608	376	489	1,190	1,130	1,160	---	753	---	1,260	1,220	1,240
21	666	603	640	1,200	1,160	1,170	---	---	---	1,270	1,120	1,190
22	748	649	682	1,200	1,160	1,180	---	---	---	1,230	1,160	1,200
23	889	748	812	1,180	719	923	1,240	---	---	1,230	1,060	1,100
24	997	889	944	719	530	612	1,260	1,220	1,240	1,240	1,110	1,140
25	1,090	997	1,050	592	536	557	1,270	1,230	1,250	1,360	1,190	1,250
26	1,150	1,090	1,120	671	586	624	1,260	---	---	1,380	1,350	1,370
27	1,180	1,150	1,160	794	671	734	---	---	---	1,350	1,330	1,340
28	1,150	1,110	1,130	949	794	866	---	---	---	1,340	1,270	1,300
29	1,140	741	935	1,000	943	981	---	---	---	1,270	1,240	1,250
30	990	742	859	1,040	986	1,000	---	---	---	1,290	1,250	1,270
31	---	---	---	---	1,040	---	---	---	---	---	---	---
MONTH	1,260	213	910	1,240	332	985	1,270	593	1,080	1,380	1,060	1,250

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.5	8.2	8.2	8.7	8.5	8.6	8.3	8.1	8.2	8.5	8.3	8.3
2	8.4	8.1	8.3	8.6	8.5	8.5	8.3	8.1	8.2	8.5	8.3	8.4
3	8.5	8.1	8.3	8.6	8.2	8.4	8.3	8.1	8.2	8.4	8.3	8.3
4	8.5	8.1	8.3	8.4	8.2	8.3	8.3	8.1	8.2	8.3	8.2	8.2
5	8.5	8.2	8.3	8.3	8.2	8.2	8.2	8.1	8.2	8.2	8.0	8.1
6	8.4	8.1	8.2	8.3	8.1	8.2	8.2	8.1	8.2	8.0	7.9	7.9
7	---	8.0	---	8.3	8.1	8.2	8.3	8.1	8.2	7.9	7.9	7.9
8	8.3	---	---	8.3	8.1	8.2	8.3	8.1	8.2	7.9	7.9	7.9
9	7.9	7.5	7.8	8.3	8.1	8.2	8.2	8.1	8.2	8.0	7.9	7.9
10	8.3	7.9	8.1	8.3	8.2	8.2	8.1	8.0	8.1	8.0	7.9	8.0
11	8.4	8.2	8.3	8.4	8.1	8.2	8.1	8.0	8.0	8.1	8.0	8.0
12	8.4	8.3	8.4	8.4	8.1	8.2	8.1	8.0	8.0	8.2	8.0	8.1
13	8.4	8.3	8.4	8.3	8.1	8.2	8.0	7.9	8.0	8.4	8.1	8.1
14	8.5	8.4	8.4	8.4	8.1	8.2	8.0	7.9	8.0	8.5	8.4	8.5
15	8.5	8.4	8.4	8.4	8.2	8.2	8.6	7.9	8.0	8.6	8.5	8.5
16	8.5	8.4	8.4	8.4	8.1	8.2	8.6	8.3	8.4	8.6	8.5	8.5
17	8.5	8.4	8.5	8.4	8.1	8.2	8.5	8.3	8.5	8.6	8.5	8.5
18	8.5	8.4	8.4	8.4	8.1	8.2	8.6	8.5	8.6	8.6	8.5	8.5
19	8.5	8.3	8.4	8.3	8.1	8.2	8.6	8.5	8.6	8.6	8.5	8.5
20	8.4	8.3	8.4	8.3	8.1	8.2	8.6	8.5	8.6	8.6	8.5	8.6
21	8.5	8.3	8.4	8.4	8.1	8.2	8.6	8.5	8.5	8.6	8.5	8.6
22	8.5	8.4	8.4	8.3	8.1	8.2	8.6	8.5	8.5	8.6	8.6	8.6
23	8.5	8.3	8.4	8.2	8.1	8.2	8.5	8.4	8.5	8.6	8.6	8.6
24	8.6	8.4	8.5	8.2	8.0	8.1	8.5	8.4	8.4	8.6	8.5	8.6
25	8.6	8.5	8.5	8.2	8.1	8.1	8.5	8.4	8.4	8.6	8.6	8.6
26	8.6	8.5	8.5	8.2	8.1	8.1	8.5	8.4	8.4	8.6	8.5	8.6
27	8.6	8.5	8.5	8.2	8.1	8.2	8.6	8.4	8.5	8.5	8.4	8.4
28	8.6	8.4	8.5	8.2	8.1	8.2	8.4	8.3	8.4	8.4	8.4	8.4
29	8.6	8.5	8.5	8.2	8.1	8.1	8.4	8.2	8.3	8.4	8.4	8.4
30	8.7	8.5	8.6	8.2	8.1	8.2	8.4	8.2	8.3	8.4	8.4	8.4
31	8.7	8.5	8.6	---	---	---	8.4	8.2	8.3	8.4	8.3	8.4
MAX	8.7	8.5	8.6	8.7	8.5	8.6	8.6	8.5	8.6	8.6	8.6	8.6
MIN	7.9	7.5	7.8	8.2	8.0	8.1	8.0	7.9	8.0	7.9	7.9	7.9

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

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

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

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

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.1	9.1	14.5	10.2	7.6	8.9	7.3	3.6	5.4	9.1	3.5	5.7
2	16.1	10.9	13.9	17.1	10.2	13.0	6.1	3.5	4.9	10.0	5.1	7.4
3	20.0	12.6	15.6	11.8	10.9	11.4	5.8	4.8	5.4	8.1	2.5	5.2
4	17.5	12.3	15.2	11.2	6.9	9.4	7.8	1.9	4.6	2.5	-0.1	0.7
5	23.6	12.9	17.7	6.9	4.1	5.3	4.6	0.0	2.1	0.2	-0.1	0.0
6	24.6	14.4	---	9.3	3.2	5.6	3.5	0.0	1.3	0.2	-0.1	0.0
7	---	14.9	---	9.8	2.4	6.1	6.4	0.2	3.1	0.2	-0.1	0.0
8	---	16.5	---	6.8	5.1	6.0	6.6	2.5	4.6	0.3	-0.1	0.0
9	21.5	16.5	18.6	11.5	5.7	8.1	5.0	0.0	2.1	0.3	-0.1	0.0
10	21.2	17.4	19.2	12.6	8.6	10.2	0.4	-0.1	0.1	0.5	-0.1	0.1
11	20.5	16.0	18.0	18.4	11.8	14.5	0.5	-0.1	0.1	1.0	-0.1	0.3
12	20.2	11.7	15.8	14.8	8.1	11.1	0.0	0.0	0.0	4.9	-0.1	1.8
13	18.1	13.1	15.4	9.0	6.4	7.6	0.4	-0.1	0.1	5.8	-0.1	2.3
14	19.4	10.3	14.5	9.9	5.3	7.5	0.4	0.0	0.0	7.8	0.7	4.1
15	19.7	11.1	15.2	14.8	8.2	10.7	0.4	-0.1	0.1	6.5	1.6	4.3
16	20.5	11.9	15.5	13.8	6.1	9.9	0.6	-0.1	0.1	8.5	5.7	7.1
17	18.3	10.2	14.0	16.4	10.2	13.5	0.9	-0.1	0.1	8.3	3.7	6.4
18	21.8	11.5	16.1	13.7	8.1	11.0	3.0	-0.1	1.1	5.7	1.3	3.2
19	23.1	13.0	17.8	13.3	5.3	9.1	4.7	-0.1	1.8	2.8	-0.1	0.9
20	24.3	14.9	19.3	12.6	7.0	9.8	5.7	-0.1	2.8	2.8	0.5	1.5
21	23.0	14.2	18.6	11.2	5.6	8.3	6.3	1.9	4.0	6.9	-0.1	3.0
22	24.2	14.4	19.0	9.3	4.8	6.9	5.3	3.4	4.7	6.5	0.8	3.5
23	23.6	14.8	19.0	5.7	0.2	2.7	5.9	0.8	3.2	8.3	0.5	4.1
24	20.5	13.0	17.1	3.7	0.0	1.2	5.4	0.3	2.8	6.2	2.3	4.6
25	13.0	9.5	11.1	4.6	0.8	2.5	6.5	0.3	3.3	4.9	3.2	3.9
26	14.7	6.3	10.5	7.1	0.0	3.4	9.0	3.6	5.9	3.2	-0.1	0.5
27	16.8	8.4	12.7	6.7	1.9	3.7	11.2	6.0	9.2	0.3	-0.1	0.0
28	17.2	11.8	13.9	5.9	0.0	2.5	6.2	2.1	4.2	0.2	-0.1	0.0
29	18.2	9.7	13.8	7.8	0.0	3.6	5.5	0.1	2.7	0.1	-0.1	-0.1
30	14.9	10.4	12.7	10.1	2.5	6.2	6.1	-0.1	2.8	0.3	-0.1	0.0
31	12.6	8.0	10	---	---	---	6.2	1.3	3.7	0.0	-0.1	0.0
MONTH	24.6	6.3	15.5	18.4	0.0	7.7	11.2	-0.1	2.8	10.0	-0.1	2.3

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	10.8	3.8	7.0	19.6	9.9	14.7	20.3	9.7	14.3
2	0.3	-0.1	0.0	9.9	4.0	6.9	20.4	11.0	15.5	21.6	11.6	16.3
3	0.3	0.0	0.0	8.0	6.3	7.2	18.4	10.4	14.4	22.0	11.0	16.4
4	0.1	0.0	0.0	7.5	5.6	6.4	19.9	9.6	14.7	24.2	13.9	18.8
5	0.2	-0.1	0.0	5.9	4.9	5.4	19.4	11.4	15.1	27.8	15.3	21.4
6	0.2	-0.1	0.0	9.3	4.4	6.8	17.8	12.7	15.4	29.4	18.0	23.4
7	0.3	-0.1	0.0	11.0	6.6	8.8	22.6	13.6	17.4	30.1	18.9	24.1
8	0.3	-0.1	0.0	13.6	7.1	10.3	21.5	12.1	16.7	30.0	19.2	24.2
9	0.4	-0.1	0.0	14.2	8.5	11.3	16.4	10.2	12.7	27.2	19.1	22.6
10	0.4	-0.1	0.1	13.2	7.8	10.6	12.3	8.8	10.2	25.9	18.9	21.6
11	0.5	-0.1	0.0	13.6	7.2	10.4	17.4	6.0	11.5	27.3	19.1	22.4
12	0.3	-0.1	0.0	13.1	6.8	10.1	13.5	9.4	11.0	28.5	19.5	23.2
13	0.4	-0.1	0.0	10.7	8.9	9.6	18.3	7.1	12.2	21.3	12.1	15.2
14	3.8	-0.1	0.9	14.7	7.2	10.8	20.3	9.2	14.5	18.8	10.6	14.3
15	5.0	-0.1	1.4	15.9	9.0	11.9	24.0	11.7	17.2	22.5	13.6	17.9
16	2.5	0.0	0.8	13.6	7.0	10.1	26.4	15.4	20.7	24.7	16.1	20.3
17	7.7	-0.1	3.0	17.5	7.4	12.4	26.7	17.4	21.6	26.8	18.2	22.4
18	10.7	2.2	6.2	18.5	10.4	14.2	21.8	17.2	19.2	24.9	20.7	22.6
19	13.3	5.7	9.4	15.4	11.1	13.4	24.4	15.3	19.6	30.2	21.0	25.3
20	12.2	5.0	8.4	16.8	11.7	13.9	22.3	16.4	19.0	30.5	22.5	26.1
21	11.1	3.6	7.4	15.9	8.0	11.8	22.0	14.0	18.1	29.6	21.5	25.4
22	12.9	5.7	9.2	15.1	7.2	11.1	18.0	15.1	16.4	30.5	20.6	25.1
23	11.7	6.1	8.6	19.2	8.1	13.6	15.5	12.3	13.7	31.2	19.7	25.2
24	7.1	3.6	5.2	17.5	12.9	15.4	16.9	12.9	14.5	30.6	20.9	25.4
25	6.1	2.6	3.8	19.8	15.5	17.2	21.8	10.5	16.0	24.5	18.2	21.5
26	10.0	-0.1	4.6	20.7	15.6	18.2	23.0	13.6	18.3	26.1	18.3	21.3
27	12.4	2.5	7.1	18.5	15.0	17.0	25.1	13.1	19.0	31.0	19.3	24.9
28	9.4	5.2	7.5	20.2	12.6	16.3	23.4	15.1	19.0	31.7	20.1	25.6
29	10.3	6.8	8.3	19.0	12.5	15.6	18.2	13.6	15.7	30.1	20.1	24.4
30	---	---	---	18.2	10.2	14.2	14.8	10.9	12.7	27.5	18.9	22.6
31	---	---	---	19.2	9.3	14.1	---	---	---	26.5	14.7	20.6
MONTH	13.3	-0.1	3.2	20.7	3.8	11.7	26.7	6.0	15.9	31.7	9.7	21.8

ARKANSAS RIVER BASIN

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	30.4	15.4	22.6	28.8	22.6	24.7	33.2	24.0	28.2	---	---	---
2	22.9	18.0	19.3	27.9	22.0	24.9	33.8	24.0	28.6	---	---	---
3	30.4	15.7	22.6	32.6	23.0	27.5	33.4	24.2	28.6	30.0	---	---
4	28.0	18.7	22.9	29.0	20.8	23.9	32.6	23.8	27.5	30.4	19.8	24.4
5	29.7	18.4	23.5	28.4	22.0	25.2	31.2	22.7	26.2	27.3	21.4	23.7
6	34.0	21.2	26.9	29.1	23.9	26.5	27.2	21.0	23.7	28.6	17.5	22.6
7	30.4	21.5	25.4	29.6	23.2	26.4	26.0	20.0	22.8	29.0	16.8	22.5
8	29.1	21.4	24.7	31.9	24.1	28.0	31.5	21.5	25.7	29.5	16.8	22.7
9	25.9	21.7	23.6	28.3	23.8	26.0	31.4	21.0	26.2	28.7	16.5	22.1
10	28.6	21.8	24.3	31.6	22.8	26.9	30.6	22.6	26.6	28.0	16.8	21.8
11	35.4	21.7	27.9	31.9	24.1	28.0	28.3	21.3	24.7	29.3	17.9	22.8
12	33.4	23.5	27.7	33.5	24.1	28.2	27.4	20.7	24.0	30.4	19.3	24.1
13	25.9	19.5	22.5	34.8	24.6	29.5	28.5	19.8	23.8	29.7	19.2	23.7
14	31.2	22.6	26.7	35.2	24.9	29.8	27.9	19.2	23.3	28.6	19.6	23.5
15	29.1	24.1	26.9	36.4	25.6	30.7	28.1	19.3	22.9	29.9	20.3	23.9
16	29.7	24.2	26.9	30.8	25.0	27.3	28.5	20.3	23.9	28.4	17.6	22.7
17	29.0	23.0	25.8	32.1	23.4	27.5	31.4	21.5	26.3	30.6	18.3	23.6
18	25.8	20.9	21.9	34.8	22.8	28.2	28.9	22.8	26.0	31.0	21.1	25.1
19	21.9	19.0	20.0	34.7	23.8	29.2	26.2	19.7	22.2	29.1	20.8	23.9
20	23.4	18.7	20.8	34.2	23.8	28.8	26.6	17.9	22.0	27.0	17.2	21.4
21	26.5	21.4	23.8	33.1	23.5	28.2	26.2	21.1	23.4	22.9	18.5	20.4
22	27.2	21.7	24.4	35.1	23.6	27.8	25.8	21.9	23.9	27.1	18.2	21.9
23	28.9	21.4	25.0	25.6	20.0	22.3	30.6	22.7	25.7	27.4	17.5	21.9
24	30.0	21.3	25.4	20.4	19.2	19.9	33.4	22.8	27.3	27.3	16.4	21.6
25	26.7	19.3	23.1	23.6	18.3	20.7	32.4	23.7	27.5	27.1	17.3	21.9
26	25.4	20.2	22.8	26.1	19.8	22.7	32.3	21.7	---	27.3	17.5	22.1
27	26.4	20.1	23.1	27.9	20.9	24.2	---	---	---	27.8	17.3	22.1
28	27.7	20.7	24.0	24.5	21.4	22.5	---	---	---	22.2	18.6	20.1
29	26.6	21.5	24.1	23.7	20.5	21.9	---	---	---	25.6	15.9	20.4
30	27.9	21.8	24.6	29.1	20.1	24.0	---	---	---	22.9	16.1	19.3
31	---	---	---	32.1	22.6	27.0	---	---	---	---	---	---
MONTH	35.4	15.4	24.1	36.4	18.3	26.1	33.8	17.9	25.2	31.0	15.9	22.5

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.8	8.3	11.9	---	---	---	13.6	11.5	12.6	12.9	11.4	12.4			
2	13.4	9.3	11.2	---	---	---	13.2	11.8	12.6	12.7	10.8	11.8			
3	12.6	9.1	11.1	---	---	---	13.1	11.8	12.3	13.2	11.0	12.4			
4	12.9	8.9	11.0	12.2	10.2	11.2	13.9	11.9	12.7	14.9	13.2	14.3			
5	12.5	7.8	10.3	13.2	11.4	12.5	14.8	12.4	13.7	15.0	14.3	14.7			
6	---	---	---	13.7	11.8	12.7	14.6	13.0	13.9	14.6	13.9	14.3			
7	---	---	---	13.8	11.3	12.6	14.2	11.7	13.0	14.5	13.8	14.2			
8	---	---	---	13.1	11.7	12.4	13.2	11.5	12.3	14.2	13.8	14.0			
9	---	---	---	12.9	10.8	12.0	14.2	11.7	13.1	14.8	14.1	14.5			
10	---	---	---	11.9	10.1	11.1	14.2	13.8	14.0	14.7	14.3	14.5			
11	---	---	---	11.3	9.0	10.1	14.2	13.5	13.9	14.6	13.6	14.3			
12	---	---	---	12.0	9.1	10.9	14.5	13.2	13.8	14.7	13.0	14.0			
13	---	---	---	13.1	11.4	12.1	13.8	12.1	13.0	14.9	12.3	13.7			
14	---	---	---	13.0	11.1	12.1	13.9	12.8	13.2	13.9	11.6	12.7			
15	---	---	---	12.2	10.0	11.1	13.8	13.2	13.4	13.8	11.9	12.8			
16	---	---	---	12.8	10.2	11.4	14.3	13.6	13.9	12.3	11.1	11.8			
17	---	---	---	11.3	9.1	10.3	14.3	13.4	13.9	12.9	11.2	12.0			
18	---	---	---	12.3	9.3	10.9	14.4	12.9	13.8	14.5	12.9	13.7			
19	---	---	---	13.2	10.5	11.9	14.4	12.7	13.7	15.1	14.0	14.6			
20	---	---	---	12.8	10.3	11.4	14.4	12.1	13.3	15.0	14.1	14.5			
21	---	---	---	13.2	10.6	11.8	13.5	11.8	12.6	15.3	12.7	14.1			
22	---	---	---	13.4	11.3	12.2	12.8	11.8	12.4	15.1	13.1	13.9			
23	---	---	---	14.7	11.9	13.6	14.1	12.3	13.1	15.2	12.2	13.7			
24	---	---	---	14.9	13.6	14.3	14.3	12.5	13.3	14.4	12.6	13.4			
25	---	---	---	14.3	12.7	13.7	14.2	12.0	13.1	14.0	12.9	13.5			
26	---	---	---	14.6	12.1	13.3	12.8	10.8	12.1	16.0	13.6	15.3			
27	---	---	---	14.1	12.6	13.2	11.6	10.6	11.0	15.8	15.0	15.3			
28	---	---	---	15.0	12.9	13.9	13.9	11.5	12.8	15.7	14.9	15.4			
29	---	---	---	14.7	11.8	13.3	14.5	12.7	13.5	15.8	15.4	15.6			
30	---	---	---	13.6	11.1	12.3	14.5	12.2	13.4	15.6	15.2	15.4			
31	---	---	---	---	---	---	14.1	12.4	13.1	15.4	14.8	15.2			
MONTH	13.8	7.8	11.1	15.0	9.0	12.2	14.8	10.6	13.1	16.0	10.8	13.9			

ARKANSAS RIVER BASIN

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.1	14.7	14.9	13.8	11.5	12.6	10.8	8.7	9.7	11.5	9.0	10.4
2	15.3	14.8	15.0	14.1	11.8	12.9	10.7	8.7	9.6	11.0	8.9	9.9
3	15.6	14.9	15.3	13.4	11.9	12.6	11.0	9.1	9.9	11.0	8.6	9.8
4	15.4	15.0	15.2	12.6	11.4	12.2	11.3	8.8	10.1	10.4	8.1	9.3
5	15.4	14.9	15.1	12.3	11.4	11.9	11.1	8.8	9.8	10.2	7.5	8.9
6	15.8	15.2	15.5	12.9	11.4	12.2	10.7	8.8	9.7	9.8	7.4	8.5
7	16.2	15.4	15.7	12.4	11.3	11.8	10.7	8.4	9.5	9.8	7.4	8.6
8	15.7	15.1	15.4	12.3	10.6	11.5	10.8	8.4	9.5	9.9	7.4	8.6
9	15.7	15.1	15.4	11.9	10.6	11.2	10.9	8.7	10.0	10.0	7.6	8.7
10	15.9	15.0	15.5	12.2	10.8	11.4	11.6	10.4	10.9	10.0	7.6	8.6
11	15.8	15.0	15.5	12.6	10.8	11.7	11.9	9.3	10.8	9.4	7.5	8.4
12	16.0	15.3	15.8	12.8	10.9	11.8	11.4	9.4	10.6	9.4	7.1	8.3
13	15.9	14.3	15.3	12.2	11.2	11.8	11.8	9.2	10.7	8.8	7.4	8.0
14	15.6	13.4	14.9	12.9	10.6	11.7	11.2	8.8	10	10.0	8.4	9.2
15	15.6	13.6	14.9	12.0	10.4	11.2	10.7	8.0	9.5	9.8	7.9	8.9
16	15.3	14.4	15.0	12.9	10.9	11.9	9.9	7.4	8.7	9.5	7.7	8.6
17	15.2	12.3	14.1	12.7	9.7	11.2	9.9	7.4	8.7	9.1	7.1	8.3
18	13.9	10.9	12.5	11.8	9.6	10.7	9.7	7.6	8.8	8.8	7.1	8.0
19	12.1	9.8	10.9	11.6	10.1	10.8	10.2	8.0	9.1	8.8	6.6	7.9
20	12.5	10.1	11.1	11.7	10.1	10.8	10.1	8.1	9.0	10.6	6.6	8.5
21	12.6	10.3	11.4	12.9	10.6	11.6	10.3	8.2	9.2	10.0	6.6	8.5
22	12.0	9.8	10.9	13.2	10.5	11.7	10.5	8.2	9.3	10.5	6.8	8.7
23	12.2	10.2	11.2	12.5	9.1	10.8	10.8	9.1	10	10.5	6.3	8.7
24	13.5	11.4	12.6	11.0	9.4	10.1	10.5	9.3	9.9	10.7	6.3	8.6
25	14.2	12.7	13.4	10.3	8.5	9.5	10.9	8.3	9.8	10.5	6.8	9.0
26	15.2	11.6	13.4	10.0	8.4	9.1	10.4	8.4	9.3	10.4	7.1	8.8
27	14.2	10.8	12.4	9.4	8.3	8.8	10.6	7.9	9.4	9.3	6.5	8.1
28	13.2	11.3	12.2	10.1	8.4	9.2	10.2	8.1	9.0	9.2	6.7	8.0
29	12.4	11.4	11.8	10.2	8.5	9.4	10.7	8.7	9.8	9.2	6.9	7.8
30	---	---	---	10.8	9.0	9.8	11.2	9.3	10.4	9.4	7.2	8.4
31	---	---	---	11.0	8.9	9.9	---	---	---	10.2	7.4	8.9
MONTH	16.2	9.8	13.9	14.1	8.3	11.1	11.9	7.4	9.7	11.5	6.3	8.7

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.7	6.8	8.3	8.8	7.0	7.8	11.8	6.2	8.7	---	---	---
2	9.3	6.9	8.5	8.4	6.9	7.7	12.2	6.1	8.8	---	---	---
3	9.4	6.7	8.1	8.6	5.9	7.6	9.9	6.1	7.7	---	7.3	---
4	8.9	6.8	7.9	7.1	5.7	6.4	9.1	6.2	7.7	9.0	7.0	8.0
5	8.6	6.3	7.6	8.3	6.5	7.4	8.9	6.4	7.8	8.8	7.2	7.9
6	8.5	6.0	7.3	8.1	6.5	7.4	9.1	6.8	8.1	9.4	7.3	8.3
7	8.3	6.2	7.4	9.4	7.1	8.1	9.2	7.2	8.3	9.6	7.2	8.5
8	8.4	6.6	7.5	8.6	6.4	7.7	8.7	6.8	7.8	9.5	7.1	8.4
9	8.9	6.4	7.6	10.3	6.4	8.2	8.8	6.6	7.8	9.6	7.3	8.4
10	8.5	6.2	7.3	10.6	6.4	8.5	9.3	6.4	7.7	9.7	7.4	8.5
11	7.9	---	---	10.4	6.2	8.3	9.3	6.6	8.1	9.4	7.0	8.3
12	---	---	---	9.8	6.1	7.9	8.6	7.1	7.8	9.2	6.9	8.0
13	---	---	---	9.2	5.8	7.7	9.2	7.2	8.2	---	---	---
14	7.4	5.4	6.4	8.6	5.7	7.4	9.6	7.3	8.5	---	---	---
15	7.2	5.4	6.4	8.8	5.5	7.2	9.6	7.3	8.5	---	---	---
16	8.5	6.2	7.2	9.7	5.6	7.4	9.1	6.9	8.1	---	7.3	---
17	9.2	6.4	7.9	11.0	6.3	8.5	8.8	6.4	7.9	9.5	6.8	8.1
18	7.6	5.6	6.2	12.0	6.0	8.8	7.6	6.3	6.9	9.2	7.0	---
19	7.4	5.9	7.0	11.7	5.8	8.7	8.2	6.3	7.5	---	---	---
20	7.7	6.8	7.4	11.6	5.8	8.5	8.7	---	---	---	7.4	---
21	7.4	6.7	7.1	11.7	6.0	8.7	---	---	---	9.7	7.5	8.5
22	7.9	6.7	7.4	11.4	6.5	8.6	---	---	---	9.8	7.3	8.4
23	9.1	7.0	8.0	10.9	6.8	8.6	8.5	---	---	9.9	7.3	8.5
24	9.7	7.0	8.3	8.2	7.7	7.9	9.6	6.0	7.7	9.8	7.1	8.5
25	9.8	7.0	8.6	8.2	7.2	7.8	10.9	6.0	8.0	9.8	7.3	8.5
26	9.6	7.3	8.5	8.2	7.2	7.7	---	---	---	9.9	7.3	8.5
27	9.2	7.4	8.2	8.9	7.2	8.1	---	---	---	9.8	7.3	8.5
28	9.2	7.3	8.2	8.8	7.2	8.1	---	---	---	9.7	---	---
29	9.0	7.3	8.1	10.3	7.8	8.9	---	---	---	---	---	---
30	8.6	7.3	7.9	11.3	6.8	9.2	---	---	---	---	8.0	---
31	---	---	---	11.5	6.5	8.9	---	---	---	---	---	---
MONTH	9.8	5.4	7.6	12.0	5.5	8.1	12.2	6.0	8.0	9.9	6.8	8.3

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16	2.0	9.0	14	8.4	10	17	13	14	23	18	20
2	12	5.5	9.1	16	9.8	13	17	11	13	21	16	19
3	170	5.0	24	16	11	13	16	11	13	22	13	18
4	16	7.6	13	16	10	12	23	12	15	18	13	15
5	16	8.2	11	14	9.7	12	24	9.9	17	22	5.2	12
6	26	12	18	16	11	14	31	9.4	19	14	4.0	8.0
7	34	17	---	19	13	15	25	16	19	14	7.6	11
8	1,200	17	---	17	11	13	20	14	17	18	9.9	12
9	1,070	330	610	17	13	15	43	15	27	22	12	15
10	330	96	150	20	14	17	28	12	20	30	9.1	17
11	100	62	76	31	17	21	36	10	18	61	17	33
12	62	44	49	25	14	19	21	10	14	42	17	31
13	46	36	40	24	14	18	27	7.9	15	34	16	26
14	38	29	34	24	15	18	60	6.9	22	27	22	25
15	36	27	31	22	15	18	57	21	35	23	17	20
16	34	22	27	21	16	18	70	16	35	20	15	18
17	27	19	23	24	16	20	100	8.9	40	27	20	23
18	27	18	23	31	14	20	71	15	47	30	22	25
19	30	18	23	16	12	13	55	25	43	36	17	26
20	24	18	22	16	12	13	57	31	42	28	18	23
21	22	15	19	16	12	13	45	36	39	26	18	21
22	22	16	19	15	11	13	44	29	36	21	17	19
23	22	12	17	18	14	15	40	30	35	21	17	19
24	17	10	13	33	10	19	48	28	34	21	15	18
25	13	9.1	11	33	18	21	35	26	30	20	14	16
26	14	10	12	26	17	20	33	25	27	32	16	22
27	20	11	14	19	13	16	34	22	28	20	6.8	13
28	15	11	13	25	10	17	29	22	25	24	5.1	12
29	15	11	12	22	13	18	25	20	22	20	6.8	12
30	14	8.9	11	17	14	16	27	18	22	17	4.8	11
31	12	8.3	10	---	---	---	23	17	20	12	6.0	9.5
MONTH	1,200	2.0	46	33	8.4	16	100	6.9	26	61	4.0	18

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15	9.3	12	50	26	39	21	15	18	20	9.5	13
2	15	6.3	9.9	54	28	36	22	15	19	24	17	20
3	12	5.6	8.5	54	27	35	---	---	---	20	11	15
4	13	9.3	11	560	43	180	---	---	---	20	13	15
5	14	10	12	690	350	---	---	---	---	19	13	16
6	15	7.8	12	350	210	280	---	---	---	19	12	16
7	23	4.3	11	210	160	180	---	---	---	16	13	14
8	28	5.3	12	160	110	130	19	---	---	17	12	14
9	25	9.1	16	110	87	98	17	10	13	17	10	13
10	38	13	23	88	63	74	20	11	15	23	11	17
11	52	22	34	65	50	56	28	16	21	33	17	22
12	63	9.5	26	50	40	44	29	16	21	56	19	24
13	94	11	34	40	34	38	22	13	16	860	31	370
14	81	20	49	38	32	35	27	14	18	340	110	200
15	61	21	35	36	32	34	23	13	17	110	54	75
16	51	20	36	43	25	28	26	16	20	57	34	42
17	45	15	31	27	23	25	22	15	19	100	32	61
18	39	26	31	26	22	24	22	15	18	97	84	90
19	39	29	32	27	22	24	20	12	14	91	67	79
20	37	27	32	27	22	24	44	13	17	78	56	66
21	32	22	26	22	17	18	30	17	21	65	47	55
22	26	22	23	20	14	16	30	17	21	68	43	53
23	25	16	20	21	15	18	19	12	15	57	39	49
24	20	13	16	26	20	---	46	14	27	54	33	45
25	18	13	15	23	18	20	45	31	38	48	36	41
26	21	15	17	23	18	21	43	22	30	42	28	34
27	20	15	17	240	20	56	26	14	20	42	31	35
28	20	13	15	68	34	40	25	16	19	40	30	35
29	32	14	21	36	27	32	17	11	13	43	26	33
30	---	---	---	33	24	29	15	8.9	12	33	23	28
31	---	---	---	28	18	22	---	---	---	30	17	24
MONTH	94	4.3	22	690	14	57	46	8.9	19	860	9.5	52

07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	29	16	23	60	45	50	88	43	57	---	---	---
2	27	14	20	100	48	80	---	---	---	---	---	---
3	46	15	28	110	61	90	58	30	44	---	---	---
4	36	21	28	1,230	57	340	42	32	35	---	---	---
5	180	24	64	180	110	130	41	27	31	---	---	---
6	53	27	38	140	94	120	32	24	27	---	---	---
7	40	26	32	95	71	86	30	21	25	---	---	---
8	48	26	35	77	51	62	30	21	25	---	---	---
9	---	18	---	55	46	51	28	21	25	---	---	---
10	37	22	31	56	42	47	190	27	100	---	---	---
11	52	27	37	53	41	46	170	100	120	---	---	---
12	48	27	37	46	33	38	180	160	170	---	---	---
13	700	31	360	40	31	35	170	82	---	---	---	---
14	190	110	140	35	28	30	85	56	---	---	---	---
15	140	82	110	35	26	30	61	47	---	---	---	---
16	84	58	75	40	20	27	49	42	45	---	---	---
17	67	49	59	39	19	24	110	39	52	---	---	---
18	540	53	280	43	22	29	410	110	240	---	---	---
19	170	100	140	59	27	38	200	89	130	---	---	---
20	100	72	86	54	24	---	91	---	---	---	---	---
21	72	68	70	37	20	---	---	---	---	---	---	---
22	75	59	69	---	---	---	---	---	---	---	---	---
23	62	50	58	150	19	46	40	24	---	---	---	---
24	55	45	51	410	94	280	37	26	30	---	---	---
25	49	38	44	290	130	200	46	24	30	---	---	---
26	42	32	37	170	78	120	34	18	---	---	---	---
27	36	26	31	97	61	81	---	---	---	---	---	---
28	32	26	29	68	42	56	---	---	---	---	---	---
29	160	32	120	68	33	49	---	---	---	---	---	---
30	140	51	89	68	37	51	---	---	---	---	---	---
31	---	---	---	81	39	53	---	---	---	---	---	---
MONTH	700	14	77	1,230	19	82	410	18	70	---	---	---

07144790 CHENEY RESERVOIR NEAR CHENEY, KS

LOCATION.--Lat 37°43'34", long 97°47'38", in NW 1/4 NE 1/4 SE 1/4 sec.6, T.27 S., R.4 W., Sedgwick County, Hydrologic Unit 11030014, in control house structure at outlet works of Cheney Dam on North Fork Ninnescah River, 6.0 mi north of Cheney, and at mile 15.9.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--901 mi², of which 237 mi² is probably noncontributing.

PERIOD OF RECORD.--November 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

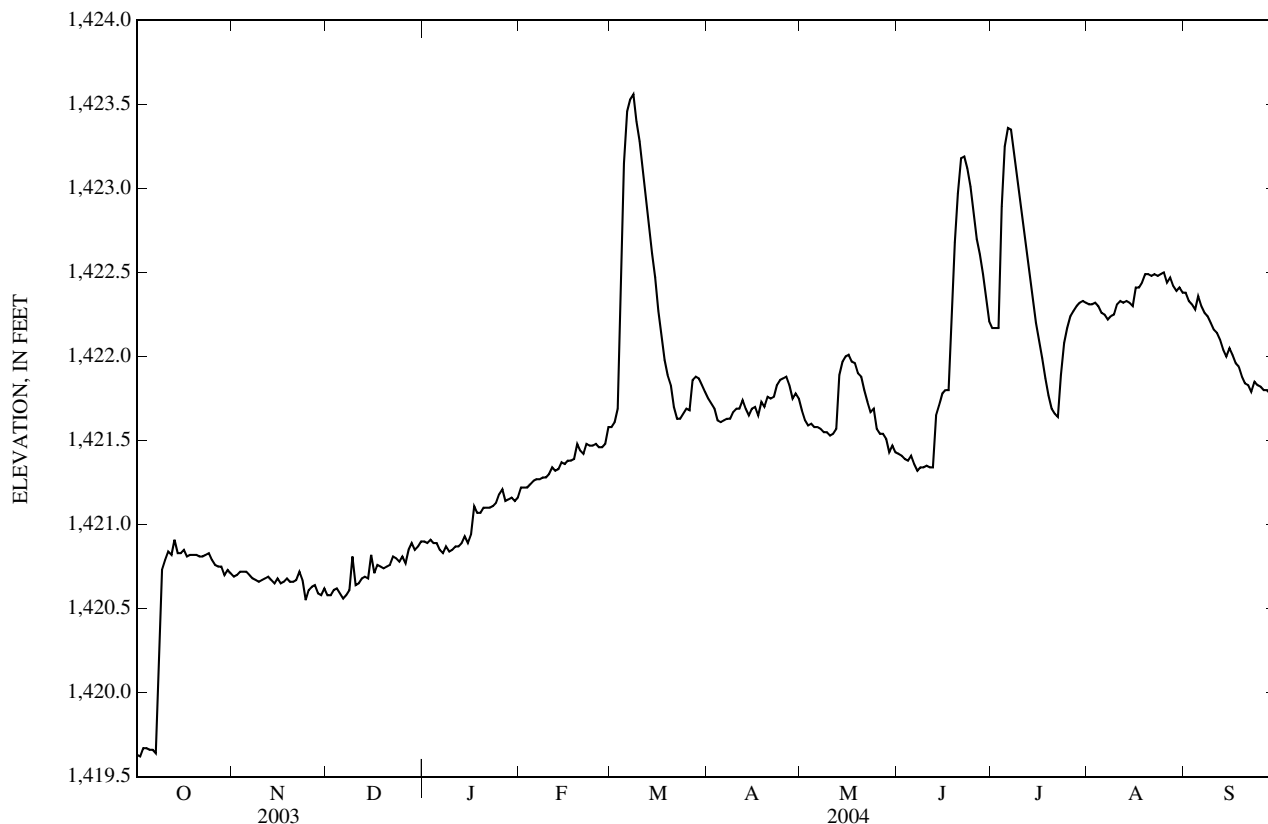
REMARKS.--Reservoir is formed by compacted earthfill dam. Storage began Nov. 17, 1964. Conservation pool elevation was first reached on Nov. 2, 1969. Total capacity, 566,300 acre-ft, consisting of the following: Dead storage, 979 acre-ft below elevation 1,378.5 ft; fish and wildlife storage, 14,310 acre-ft between elevations 1,378.5 ft and 1,392.9 ft; conservation pool, 151,800 acre-ft between elevations 1,392.9 ft and 1,421.6 ft; flood-control pool, 80,860 acre-ft between elevations 1,421.6 ft and 1,429.0 ft, crest of uncontrolled spillway; and uncontrolled storage, 318,300 acre-ft between elevations 1,429.0 ft and 1,447.8 ft. Reservoir is used for supplemental water supply for municipal and industrial uses in the city of Wichita, fish and wildlife conservation, flood control, and recreational purposes in Cheney Division Wichita project. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,429.40 ft, June 11, 1995, contents, 252,980 acre-ft; minimum elevation since conservation pool was first reached, 1,412.33 ft, Dec. 2-4, 1971, contents, 93,300 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,423.58 ft, Mar. 8, contents, 186,660 acre-ft; minimum elevation, 1,419.61 ft, Oct. 2, contents, 148,990 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Bureau of Reclamation computed in 1965)

Elevation	Contents	Elevation	Contents	Elevation	Contents
1,419	143,400	1,421	161,400	1,423	180,700
1,420	152,200	1,422	170,900	1,424	191,000



ARKANSAS RIVER BASIN

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,419.63	1,420.69	1,420.58	1,420.90	1,421.22	1,421.58	1,421.75	1,421.68	1,421.42	1,422.17	1,422.31	1,422.38
2	1,419.62	1,420.70	1,420.58	1,420.89	1,421.22	1,421.61	1,421.72	1,421.62	1,421.41	1,422.17	1,422.31	1,422.33
3	1,419.67	1,420.72	1,420.61	1,420.91	1,421.22	1,421.69	1,421.69	1,421.59	1,421.39	1,422.17	1,422.32	1,422.31
4	1,419.67	1,420.72	1,420.62	1,420.89	1,421.24	1,422.47	1,421.62	1,421.60	1,421.38	1,422.89	1,422.30	1,422.28
5	1,419.66	1,420.72	1,420.59	1,420.89	1,421.26	1,423.15	1,421.61	1,421.58	1,421.41	1,423.25	1,422.26	1,422.36
6	1,419.66	1,420.70	1,420.56	1,420.85	1,421.27	1,423.46	1,421.62	1,421.58	1,421.36	1,423.36	1,422.25	1,422.30
7	1,419.64	1,420.68	1,420.58	1,420.83	1,421.27	1,423.53	1,421.63	1,421.57	1,421.32	1,423.35	1,422.22	1,422.26
8	1,420.15	1,420.67	1,420.61	1,420.87	1,421.28	1,423.56	1,421.63	1,421.55	1,421.34	1,423.20	1,422.24	1,422.24
9	1,420.73	1,420.66	1,420.81	1,420.84	1,421.28	1,423.40	1,421.67	1,421.55	1,421.34	1,423.07	1,422.25	1,422.20
10	1,420.79	1,420.67	1,420.64	1,420.85	1,421.30	1,423.28	1,421.69	1,421.53	1,421.35	1,422.93	1,422.31	1,422.16
11	1,420.84	1,420.68	1,420.65	1,420.87	1,421.34	1,423.11	1,421.69	1,421.54	1,421.34	1,422.80	1,422.33	1,422.14
12	1,420.82	1,420.69	1,420.68	1,420.87	1,421.32	1,422.95	1,421.74	1,421.57	1,421.34	1,422.65	1,422.32	1,422.10
13	1,420.91	1,420.67	1,420.69	1,420.89	1,421.33	1,422.79	1,421.69	1,421.89	1,421.65	1,422.50	1,422.33	1,422.04
14	1,420.83	1,420.65	1,420.68	1,420.93	1,421.37	1,422.61	1,421.65	1,421.97	1,421.71	1,422.34	1,422.32	1,422.00
15	1,420.83	1,420.68	1,420.82	1,420.89	1,421.36	1,422.47	1,421.69	1,422.00	1,421.78	1,422.20	1,422.30	1,422.05
16	1,420.85	1,420.65	1,420.71	1,420.94	1,421.38	1,422.27	1,421.70	1,422.01	1,421.80	1,422.09	1,422.41	1,422.01
17	1,420.81	1,420.66	1,420.76	1,421.11	1,421.38	1,422.12	1,421.65	1,421.97	1,421.80	1,421.99	1,422.41	1,421.96
18	1,420.82	1,420.68	1,420.75	1,421.07	1,421.39	1,421.98	1,421.73	1,421.96	1,422.24	1,421.87	1,422.44	1,421.94
19	1,420.82	1,420.66	1,420.74	1,421.07	1,421.48	1,421.89	1,421.70	1,421.90	1,422.68	1,421.77	1,422.49	1,421.88
20	1,420.82	1,420.66	1,420.75	1,421.10	1,421.44	1,421.83	1,421.76	1,421.88	1,422.97	1,421.69	1,422.49	1,421.84
21	1,420.81	1,420.67	1,420.76	1,421.10	1,421.42	1,421.70	1,421.75	1,421.80	1,423.18	1,421.66	1,422.48	1,421.83
22	1,420.81	1,420.72	1,420.81	1,421.10	1,421.48	1,421.63	1,421.76	1,421.73	1,423.19	1,421.64	1,422.49	1,421.79
23	1,420.82	1,420.67	1,420.80	1,421.11	1,421.47	1,421.63	1,421.83	1,421.67	1,423.12	1,421.89	1,422.48	1,421.85
24	1,420.83	1,420.55	1,420.78	1,421.13	1,421.47	1,421.66	1,421.86	1,421.69	1,423.01	1,422.08	1,422.49	1,421.83
25	1,420.79	1,420.61	1,420.81	1,421.18	1,421.48	1,421.69	1,421.87	1,421.57	1,422.85	1,422.17	1,422.50	1,421.82
26	1,420.76	1,420.63	1,420.77	1,421.21	1,421.46	1,421.68	1,421.88	1,421.54	1,422.70	1,422.24	1,422.44	1,421.80
27	1,420.75	1,420.64	1,420.85	1,421.14	1,421.46	1,421.86	1,421.83	1,421.54	1,422.61	1,422.27	1,422.47	1,421.80
28	1,420.75	1,420.59	1,420.89	1,421.15	1,421.48	1,421.88	1,421.75	1,421.51	1,422.49	1,422.30	1,422.42	1,421.78
29	1,420.70	1,420.58	1,420.85	1,421.16	1,421.58	1,421.87	1,421.78	1,421.43	1,422.35	1,422.32	1,422.39	1,421.75
30	1,420.73	1,420.62	1,420.87	1,421.14	---	1,421.83	1,421.75	1,421.47	1,422.21	1,422.33	1,422.41	1,421.71
31	1,420.71	---	1,420.90	1,421.16	---	1,421.79	---	1,421.43	---	1,422.32	1,422.38	---
MEAN	1,420.52	1,420.66	1,420.73	1,421.00	1,421.37	1,422.29	1,421.72	1,421.67	1,422.03	1,422.38	1,422.37	1,422.03
MAX	1,420.91	1,420.72	1,420.90	1,421.21	1,421.58	1,423.56	1,421.88	1,422.01	1,423.19	1,423.36	1,422.50	1,422.38
MIN	1,419.62	1,420.55	1,420.56	1,420.83	1,421.22	1,421.58	1,421.61	1,421.43	1,421.32	1,421.64	1,422.22	1,421.71
(+)	158,720	157,900	160,460	162,890	166,880	168,880	168,500	165,460	172,940	174,030	174,620	168,120
(#)	+9,490	-820	+2,560	+2,430	+3,990	+2,000	-380	-3,040	+7,480	+1,090	+590	-6,500
CAL YR	2003 (#)	-8,230									
WTR YR	2004 (#)	+18,890									

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

CHANGE IN CONTENTS, IN ACRE-FEET.

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 2001 to current year.

pH: April 2001 to current year.

WATER TEMPERATURE: April 2001 to current year.

DISSOLVED OXYGEN: April 2001 to current year.

TURBIDITY (YSI 6026 sensor): April 2001 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 922 microsiemens/cm, Mar. 3, 2002; minimum, 558 microsiemens/cm, Mar. 21, 2003.

pH: Maximum, 9.1 standard units, Apr. 9, 2002; minimum, 7.5 standard units, Aug. 22, 2003.

WATER TEMPERATURE: Maximum, 32.8°C, Aug. 5, 2003; minimum, -0.1°C, Jan. 23, 2003.

DISSOLVED OXYGEN: Maximum 16.8 mg/L, Mar. 2, 2003; minimum, 0.7 mg/L, Aug. 15, 2003.

TURBIDITY (YSI 6026 sensor): Maximum, 200 FNU, July 16, 2002; minimum, 1.9 FNU, May 5, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 875 microsiemens/cm, Feb. 19; minimum, 729 microsiemens/cm, July 17.

pH: Maximum, 8.9 standard units, July 3; minimum, 7.7 standard units, Aug. 14.

WATER TEMPERATURE: Maximum, 30.4°C, July 18; minimum, 0.0°C, Jan. 27.

DISSOLVED OXYGEN: Maximum, 15.2 mg/L, Feb. 19; minimum, 3.4 mg/L, Aug. 14.

TURBIDITY (YSI 6026 sensor):: Maximum, 88 FNU, Mar. 30; minimum, 4.9 FNU, July 15.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	795	791	793	779	777	778	807	805	806	825	824	825
2	806	794	800	779	778	779	807	805	806	825	824	825
3	807	805	806	779	778	779	807	805	806	826	825	825
4	806	804	805	780	777	779	809	807	808	829	826	828
5	808	804	806	781	779	780	813	809	811	838	829	833
6	808	802	805	782	781	781	812	810	811	857	838	842
7	810	806	808	783	782	783	813	812	812	840	838	839
8	809	779	802	784	783	783	814	812	813	841	837	839
9	798	768	793	784	783	784	814	811	813	847	841	843
10	800	768	787	786	783	784	824	814	818	843	840	842
11	799	774	789	787	785	786	819	816	818	842	841	841
12	790	755	769	787	785	786	821	818	819	845	841	842
13	780	771	773	787	786	787	825	818	819	842	839	841
14	780	763	775	788	787	787	820	818	820	841	836	840
15	770	763	768	790	788	789	821	819	820	841	839	840
16	771	769	770	790	789	790	826	819	823	840	838	839
17	773	771	772	790	789	789	824	821	822	838	824	832
18	772	770	771	791	789	790	823	821	821	834	828	831
19	773	769	771	793	791	792	822	820	821	835	830	833
20	771	769	770	793	792	792	821	820	820	843	834	839
21	776	761	770	794	793	794	821	820	821	839	837	838
22	770	764	768	795	794	794	821	819	820	838	834	836
23	768	764	766	801	795	797	822	820	821	837	835	836
24	772	767	769	801	798	800	823	820	821	838	836	837
25	772	768	770	801	800	800	826	822	823	837	836	837
26	770	768	769	803	801	802	829	821	824	845	837	840
27	770	768	769	804	802	803	831	827	829	851	---	---
28	770	768	769	805	803	804	831	823	826	852	846	850
29	771	769	770	806	804	805	827	822	824	857	851	853
30	772	770	771	808	803	805	826	823	825	857	853	855
31	778	772	775	---	---	---	826	825	825	861	854	859
MONTH	810	755	781	808	777	790	831	805	818	861	824	839

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	860	855	857	841	838	840	798	797	797	815	812	814
2	856	855	856	839	834	836	797	797	797	817	814	815
3	858	856	857	837	829	834	798	797	797	825	815	819
4	859	858	859	836	813	829	799	798	798	826	822	823
5	859	857	858	827	765	799	799	798	798	824	823	824
6	862	858	859	826	813	820	799	798	798	825	824	824
7	866	862	863	814	759	798	805	798	800	826	825	826
8	866	863	865	811	805	808	802	801	801	827	826	826
9	865	863	864	806	762	790	802	800	801	828	827	827
10	865	863	864	807	792	802	801	800	800	829	828	828
11	866	863	865	798	784	792	804	800	802	830	828	829
12	867	865	866	798	781	794	803	801	802	831	830	830
13	868	865	866	798	794	797	809	803	806	830	824	827
14	870	865	867	796	789	793	808	806	807	828	826	827
15	871	867	869	793	789	790	807	806	806	828	827	828
16	868	866	867	795	792	793	807	807	807	829	826	828
17	872	866	868	794	786	791	808	807	807	827	824	826
18	870	865	866	792	785	790	810	808	809	826	824	825
19	875	863	867	790	787	789	810	809	810	826	824	825
20	869	820	837	791	789	790	811	808	809	828	826	827
21	856	826	847	792	789	790	811	809	810	828	827	828
22	856	848	852	790	790	790	810	809	810	828	827	828
23	849	839	846	790	790	790	810	807	809	832	828	829
24	851	844	847	794	790	792	809	808	808	829	828	829
25	851	848	850	794	792	792	817	808	811	830	828	829
26	851	848	850	794	794	794	815	811	812	831	829	830
27	851	839	845	795	793	794	812	811	812	833	829	830
28	842	838	840	797	788	793	813	812	812	831	829	831
29	841	838	840	798	796	797	814	812	813	833	830	832
30	---	---	---	797	793	795	814	813	814	835	833	834
31	---	---	---	801	794	797	---	---	---	836	835	835
MONTH	875	820	857	841	759	800	817	797	805	836	812	827

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	839	837	837	790	783	788	735	734	734	745	739	741
2	838	837	837	788	782	786	736	734	734	745	743	744
3	840	837	838	785	761	773	736	734	736	748	744	747
4	838	837	838	776	752	772	739	736	737	750	748	749
5	839	837	838	776	741	762	737	735	736	750	749	750
6	841	837	839	774	748	761	737	735	736	749	748	749
7	841	838	840	765	761	763	740	736	738	751	748	749
8	842	841	841	773	759	762	740	734	738	754	749	751
9	842	838	841	765	758	763	743	735	738	752	750	751
10	840	836	839	762	758	760	739	732	737	752	750	751
11	841	839	839	762	760	761	739	729	734	751	750	750
12	841	839	839	762	757	760	739	733	737	751	750	750
13	840	829	833	761	754	759	741	732	736	751	750	750
14	833	829	832	760	750	755	741	731	737	751	750	750
15	833	825	830	768	754	758	743	735	740	758	749	752
16	830	825	827	768	749	754	---	---	---	759	753	755
17	832	824	825	750	729	734	---	---	---	758	755	756
18	825	812	817	739	734	736	738	737	737	757	755	756
19	822	817	818	742	736	739	738	735	738	760	755	757
20	822	816	819	739	731	734	740	736	738	760	757	759
21	819	811	815	738	732	734	741	737	739	763	760	762
22	812	784	808	748	737	743	743	741	742	763	762	762
23	813	784	807	748	740	743	745	738	741	763	760	762
24	810	799	804	743	738	742	745	740	743	763	758	761
25	803	796	798	740	736	738	744	739	742	763	758	761
26	804	788	796	739	736	738	745	742	743	765	762	763
27	803	790	798	739	737	738	745	738	741	766	763	765
28	797	789	793	766	736	749	740	738	739	765	762	763
29	790	788	789	737	729	733	743	739	740	764	761	762
30	791	782	787	737	730	733	742	739	741	765	761	763
31	---	---	---	737	732	733	742	740	741	---	---	---
MONTH	842	782	822	790	729	752	745	729	738	766	739	755

ARKANSAS RIVER BASIN

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

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

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

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

ARKANSAS RIVER BASIN

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

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

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.3	17.8	18.4	13.7	13.4	13.5	6.0	5.6	5.7	3.7	3.3	3.5
2	17.8	17.3	17.6	14.0	13.4	13.6	5.8	5.6	5.7	4.1	3.5	3.7
3	18.2	17.0	17.5	13.6	13.5	13.5	5.8	5.4	5.6	4.0	3.6	3.8
4	17.8	17.2	17.4	13.5	12.6	13.0	6.1	5.2	5.5	3.7	2.7	3.2
5	18.2	16.9	17.2	12.6	11.4	12.0	5.2	4.5	4.8	2.7	0.5	1.7
6	20.2	16.9	17.5	11.5	10.8	11.2	4.7	4.5	4.6	1.1	0.1	0.7
7	17.6	16.6	17.0	10.9	10.4	10.7	4.7	4.5	4.6	1.1	0.8	0.9
8	17.2	16.7	16.8	10.5	10.3	10.4	4.9	4.6	4.7	1.3	0.8	1.1
9	18.3	16.7	17.0	10.6	10.2	10.4	4.8	3.2	4.1	0.9	0.2	0.6
10	18.0	16.6	17.1	10.3	10.2	10.2	3.2	2.3	2.6	1.2	0.7	1.0
11	17.7	16.6	17.0	11.2	10.1	10.3	3.1	2.4	2.9	1.2	1.0	1.1
12	17.3	16.9	17.0	10.8	10.0	10.3	2.7	1.6	2.1	1.3	0.9	1.1
13	17.0	16.7	16.9	10.1	9.8	9.9	2.1	1.2	1.8	1.4	0.7	1.2
14	17.2	16.0	16.6	9.8	9.6	9.7	2.0	1.7	1.9	1.6	1.3	1.5
15	16.7	16.4	16.5	10.5	9.5	9.7	2.2	1.8	1.9	1.8	1.4	1.7
16	17.7	16.1	16.5	9.7	9.3	9.4	2.0	1.1	1.4	2.1	1.8	1.9
17	16.2	15.8	16.0	10.0	9.3	9.7	1.6	1.0	1.3	2.7	2.1	2.3
18	16.3	15.7	15.9	10.8	9.9	10.3	2.0	1.4	1.7	2.4	2.0	2.2
19	16.9	15.9	16.2	11.8	10.1	10.5	1.9	1.7	1.8	2.1	0.9	1.8
20	16.7	15.8	16.2	10.2	9.9	10.0	2.2	1.8	2.0	2.1	1.6	1.9
21	20.4	16.4	17.8	10.1	9.6	9.8	2.2	1.9	2.1	2.0	1.4	1.8
22	19.4	17.3	18.1	9.6	9.0	9.4	2.6	2.1	2.3	2.2	1.4	1.9
23	17.9	16.7	17.3	9.1	6.9	7.8	2.6	2.2	2.3	2.2	1.9	2.1
24	18.1	16.3	17.0	7.5	6.7	7.1	2.7	2.3	2.5	2.4	2.1	2.2
25	16.8	15.4	15.9	7.2	6.8	7.0	2.7	2.0	2.4	2.4	2.3	2.3
26	15.9	15.0	15.4	7.6	6.7	7.1	2.9	2.4	2.6	2.3	0.4	1.6
27	16.0	14.8	15.4	7.2	6.1	6.4	3.5	2.9	3.3	0.8	0.0	0.3
28	15.4	14.9	15.1	6.3	5.5	5.8	3.4	3.2	3.3	0.8	0.2	0.5
29	15.0	14.8	14.9	6.0	5.7	5.8	3.6	2.9	3.3	0.4	0.0	0.3
30	14.8	14.4	14.7	7.5	5.8	6.1	3.5	3.2	3.4	0.3	0.0	0.2
31	14.4	13.7	14.0	---	---	---	3.4	3.1	3.3	0.3	0.2	0.2
MONTH	20.4	13.7	16.6	14.0	5.5	9.7	6.1	1.0	3.1	4.1	0.0	1.6

ARKANSAS RIVER BASIN

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.2	0.2	0.2	5.0	4.4	4.7	13.3	12.9	13.1	16.1	15.3	15.6
2	0.4	0.2	0.3	5.4	4.7	5.0	13.2	12.8	13.0	16.5	15.3	15.7
3	0.4	0.3	0.4	5.4	4.9	5.1	14.0	12.6	13.1	15.7	15.4	15.6
4	0.5	0.4	0.4	5.3	5.0	5.1	13.9	12.9	13.6	18.9	15.5	16.2
5	0.5	0.4	0.5	5.6	5.0	5.3	14.1	13.2	13.6	16.3	15.4	15.8
6	0.5	0.4	0.4	5.6	5.1	5.3	13.8	13.4	13.5	17.1	16.2	16.6
7	0.6	0.4	0.5	6.5	5.4	5.9	18.7	13.5	15.2	17.8	16.8	17.3
8	0.7	0.5	0.6	8.9	5.8	7.1	18.0	14.5	15.6	18.5	17.6	18.0
9	0.8	0.6	0.7	8.5	6.7	7.5	14.7	13.3	13.9	18.4	17.9	18.3
10	0.9	0.7	0.8	7.2	6.4	6.7	13.3	12.9	13.0	18.6	18.3	18.4
11	1.3	0.9	1.1	8.5	6.9	7.5	14.0	12.3	12.9	19.3	18.6	18.9
12	1.3	1.1	1.2	7.5	7.2	7.4	12.9	12.3	12.6	20.0	19.1	19.5
13	1.5	1.3	1.4	7.4	7.3	7.3	15.6	12.2	13.2	19.1	18.1	18.8
14	1.7	1.5	1.6	8.4	7.3	7.6	14.3	12.4	12.8	18.7	17.7	18.2
15	1.8	1.6	1.7	8.7	7.4	7.9	13.7	12.5	13.0	18.4	17.9	18.2
16	1.9	1.8	1.9	8.6	8.0	8.1	13.9	12.7	13.4	18.6	17.9	18.2
17	2.1	1.8	2.0	10.4	7.9	8.7	14.3	13.5	13.8	19.2	18.4	18.7
18	2.3	2.1	2.2	9.9	8.2	9.0	15.0	14.2	14.6	19.8	18.9	19.2
19	2.6	2.3	2.4	9.4	8.6	9.0	15.8	14.8	15.1	20.3	18.9	19.6
20	1.7	0.9	1.3	10.2	8.9	9.5	16.8	14.9	15.6	21.4	20.1	20.7
21	2.7	1.4	2.3	10.3	9.1	9.4	16.6	15.3	16.1	21.3	20.8	21.1
22	2.9	2.4	2.6	9.6	8.9	9.2	15.7	15.2	15.5	21.9	21.1	21.5
23	3.6	2.9	3.2	10.1	9.2	9.6	15.6	15.1	15.3	24.4	21.6	22.8
24	3.3	3.1	3.2	10.7	10.1	10.3	15.9	15.5	15.6	23.0	21.7	22.2
25	3.3	3.1	3.2	11.3	10.6	10.9	20.2	15.1	16.6	22.7	22.0	22.3
26	3.4	2.5	3.1	12.1	11.3	11.7	18.2	16.1	17.5	22.9	21.8	22.1
27	3.6	3.3	3.5	12.7	12.0	12.4	17.1	16.4	16.7	23.9	21.7	22.4
28	4.3	3.6	3.9	16.2	12.7	13.9	16.8	16.4	16.7	22.9	21.9	22.2
29	4.6	4.3	4.5	15.8	14.2	14.7	16.8	16.4	16.5	22.5	21.8	22.1
30	---	---	---	15.1	13.5	14.1	16.6	15.6	16.0	22.9	22.2	22.6
31	---	---	---	16.6	13.1	13.7	---	---	---	22.6	21.8	22.3
MONTH	4.6	0.2	1.8	16.6	4.4	8.7	20.2	12.2	14.6	24.4	15.3	19.4

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.3	22.0	22.5	24.2	23.2	23.5	24.9	24.0	24.4	24.8	23.9	24.4
2	22.0	21.6	21.8	25.7	23.6	24.3	26.0	24.6	25.1	24.0	23.8	23.9
3	23.1	21.4	21.8	27.0	24.6	25.5	25.8	24.6	25.3	24.0	23.7	23.9
4	21.9	21.4	21.6	25.4	24.1	24.5	26.8	25.2	25.9	24.3	23.8	24.0
5	21.8	21.3	21.5	26.9	24.0	24.5	26.1	25.3	25.6	24.3	24.0	24.1
6	23.4	21.5	22.3	26.9	23.9	25.4	25.6	24.9	25.3	24.9	23.8	24.1
7	22.8	21.8	22.2	25.9	25.0	25.5	25.4	24.8	25.1	24.2	23.6	23.9
8	22.8	22.2	22.5	25.6	24.2	25.2	25.6	24.9	25.2	24.8	23.5	23.7
9	22.7	22.5	22.6	25.5	24.9	25.2	28.5	24.8	25.7	23.6	23.3	23.4
10	22.9	22.6	22.7	25.6	25.0	25.3	26.6	24.7	25.4	23.5	23.1	23.3
11	25.1	22.8	23.7	26.1	25.3	25.7	26.3	24.4	25.3	23.3	23.0	23.1
12	23.9	22.8	23.2	26.9	25.6	26.1	25.6	24.8	25.0	23.4	22.8	23.1
13	23.8	23.0	23.4	28.9	26.2	27.4	26.6	24.5	25.3	23.3	22.9	23.1
14	24.7	23.2	23.7	28.4	26.9	27.6	25.3	24.3	24.8	23.2	23.0	23.1
15	24.8	23.1	23.4	28.9	25.9	27.1	24.3	24.0	24.1	24.2	22.9	23.3
16	25.8	23.2	24.2	28.5	26.5	27.6	---	---	---	23.2	22.8	23.0
17	26.9	24.2	24.9	28.4	27.2	27.8	25.6	---	---	23.1	22.8	22.8
18	25.8	24.1	24.9	30.4	27.5	28.1	25.1	24.6	24.8	23.5	22.9	23.1
19	24.6	23.9	24.2	28.5	26.5	27.4	24.6	23.7	24.1	23.4	23.1	23.2
20	23.9	23.4	23.6	28.4	27.7	28.0	24.3	23.3	23.6	23.2	22.9	23.1
21	26.6	23.2	24.6	28.1	27.4	27.7	23.7	23.0	23.4	22.9	22.6	22.8
22	25.3	24.3	24.7	27.8	---	---	23.5	22.8	23.1	22.7	22.4	22.5
23	26.0	23.8	24.8	27.2	26.1	26.6	23.6	23.1	23.3	23.2	22.2	22.5
24	25.3	23.9	24.6	26.1	24.8	25.6	24.4	23.4	23.7	23.3	22.2	22.5
25	24.5	23.2	23.6	25.4	24.5	24.8	24.8	23.7	24.2	23.2	22.0	22.3
26	23.4	23.2	23.3	26.6	24.3	24.9	24.7	23.8	24.3	22.0	21.8	21.9
27	24.7	23.1	23.7	24.6	24.0	24.3	27.2	24.3	25.4	24.0	21.7	22.3
28	24.0	23.3	23.5	24.0	23.8	23.9	26.6	25.3	25.8	23.3	21.8	22.5
29	23.4	23.3	23.3	23.8	23.6	23.7	25.3	24.7	25.1	22.3	21.8	21.9
30	23.4	23.2	23.3	26.8	23.5	24.4	25.1	24.4	24.6	21.8	21.3	21.5
31	---	---	---	24.3	23.5	23.8	24.8	24.3	24.5	---	---	---
MONTH	26.9	21.3	23.3	30.4	23.2	25.7	28.5	22.8	24.7	24.9	21.3	23.1

ARKANSAS RIVER BASIN

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.4	7.6	8.6	9.2	8.6	9.0	11.9	11.7	11.8	12.7	12.5	12.6
2	9.2	7.3	8.0	9.4	8.7	9.0	11.8	11.6	11.7	12.7	12.5	12.6
3	8.9	6.9	7.7	9.5	9.0	9.2	12.0	11.6	11.8	12.6	12.5	12.6
4	9.6	7.3	8.2	9.4	9.1	9.3	12.0	11.8	11.9	12.8	12.5	12.7
5	9.3	6.6	7.9	9.7	9.2	9.5	12.5	12.0	12.3	13.6	12.8	13.1
6	10.6	6.6	8.4	9.9	9.6	9.8	12.5	12.1	12.2	13.8	13.2	13.4
7	7.8	6.3	6.9	10.1	9.8	9.9	12.2	12.0	12.1	13.4	13.2	13.3
8	7.2	6.4	6.7	10.0	9.7	9.9	12.1	12.0	12.0	13.5	13.1	13.2
9	10.0	6.8	7.4	10.1	9.6	9.8	12.8	12.0	12.4	13.9	13.5	13.7
10	9.5	6.6	7.6	10.1	9.7	9.9	13.2	12.8	13.0	13.6	13.4	13.5
11	8.8	6.7	7.6	10.2	9.8	10.0	13.0	12.6	12.8	13.5	13.3	13.4
12	8.4	7.7	8.0	10.7	9.8	10.3	13.2	12.7	12.9	13.7	13.4	13.5
13	8.3	7.9	8.0	10.6	10.2	10.4	13.2	12.7	13.0	13.6	13.4	13.5
14	9.2	8.2	8.6	10.7	10.4	10.6	13.1	12.7	12.8	13.6	13.4	13.5
15	8.5	8.2	8.4	11.0	10.3	10.7	13.0	12.7	12.8	13.6	13.4	13.5
16	9.2	8.1	8.5	10.8	10.2	10.6	13.6	12.9	13.3	13.5	13.3	13.4
17	8.8	8.5	8.7	10.7	10.5	10.6	13.5	13.1	13.3	13.4	13.2	13.4
18	8.9	8.5	8.6	11.0	10.6	10.8	13.4	13.0	13.2	13.5	13.3	13.4
19	9.8	8.1	8.6	11.0	10.7	10.9	13.2	13.0	13.1	13.6	13.3	13.4
20	8.6	7.2	8.1	10.8	10.5	10.7	13.1	13.0	13.0	13.5	13.3	13.4
21	11.0	8.3	9.3	11.0	10.6	10.8	13.0	13.0	13.0	13.6	13.3	13.5
22	11.0	9.3	9.9	10.8	10.7	10.8	13.0	12.6	12.9	13.9	13.5	13.6
23	10.8	8.8	10.0	11.8	10.7	11.4	13.0	12.9	12.9	13.9	13.5	13.7
24	9.9	8.0	8.9	11.8	11.3	11.5	13.0	12.9	12.9	13.8	13.6	13.7
25	8.7	8.0	8.3	11.5	11.3	11.4	12.9	12.8	12.8	13.6	13.5	13.6
26	9.1	8.2	8.5	11.6	11.3	11.4	12.9	12.8	12.9	14.1	13.4	13.7
27	9.1	8.6	8.8	11.8	11.3	11.6	12.9	12.8	12.8	14.2	13.9	14.0
28	9.6	8.6	9.0	12.0	11.7	11.9	12.8	12.8	12.8	14.1	13.9	14.0
29	8.9	8.5	8.7	11.8	11.6	11.7	12.8	12.5	12.7	14.2	13.9	14.0
30	9.6	8.4	8.8	11.8	11.6	11.7	12.7	12.5	12.6	14.1	13.9	14.0
31	9.6	8.8	9.1	---	---	---	12.7	12.6	12.7	14.4	13.9	14.2
MONTH	11.0	6.3	8.4	12.0	8.6	10.5	13.6	11.6	12.7	14.4	12.5	13.5

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	14.3	14.0	14.1	13.4	13.0	13.2	9.2	8.6	9.0	9.5	9.0	9.2
2	14.2	14.0	14.1	13.4	12.7	13.1	8.9	8.5	8.7	9.6	9.1	9.4
3	14.3	14.0	14.1	13.2	12.6	12.8	9.3	8.6	8.9	9.5	9.0	9.3
4	14.3	14.0	14.2	12.8	12.5	12.6	9.9	9.0	9.5	9.4	8.8	9.1
5	14.2	13.8	14.0	12.8	12.3	12.5	10.3	9.0	9.5	9.2	8.8	9.0
6	15.0	14.0	14.3	12.8	12.5	12.6	9.5	8.9	9.2	9.2	8.9	9.0
7	15.0	14.2	14.6	13.0	12.3	12.7	9.9	9.0	9.4	9.1	8.9	9.0
8	14.9	14.1	14.4	13.7	12.6	13.1	9.7	9.2	9.4	9.1	8.8	8.9
9	14.6	14.2	14.3	13.3	12.5	12.8	9.3	8.5	8.8	8.9	8.6	8.8
10	14.7	14.0	14.3	12.6	12.2	12.4	9.2	8.7	9.0	8.8	8.2	8.6
11	14.6	13.3	14.0	12.4	11.8	12.2	9.7	9.0	9.3	8.7	8.5	8.6
12	14.6	13.3	13.9	12.2	11.8	12.0	9.5	9.0	9.3	8.6	8.3	8.5
13	14.6	14.2	14.4	12.0	11.6	11.9	9.6	9.1	9.4	8.8	8.3	8.5
14	14.5	14.0	14.3	12.1	11.5	11.7	9.4	9.0	9.2	9.2	8.7	8.9
15	14.5	13.9	14.3	11.7	11.4	11.6	9.5	9.2	9.3	8.9	8.2	8.7
16	14.6	14.3	14.5	11.6	11.0	11.3	9.5	9.2	9.3	8.9	8.3	8.6
17	14.8	13.8	14.4	11.4	10.8	11.1	9.3	9.1	9.3	8.9	8.6	8.7
18	14.9	14.3	14.7	11.3	10.6	10.9	9.3	9.0	9.2	8.9	8.6	8.7
19	15.2	13.5	14.6	11.0	10.6	10.8	9.2	8.8	9.0	9.0	8.5	8.7
20	14.9	14.0	14.3	10.9	10.6	10.7	9.7	8.8	9.1	9.2	8.7	8.9
21	14.5	14.0	14.3	10.8	10.4	10.6	9.2	8.7	9.0	8.7	8.4	8.6
22	14.2	14.0	14.1	10.5	10.3	10.4	9.0	8.7	8.9	8.8	8.5	8.6
23	14.2	14.0	14.1	10.5	10.2	10.4	8.9	8.8	8.8	9.8	8.4	9.0
24	14.1	13.9	14.0	10.4	10.1	10.3	9.0	8.8	8.9	8.9	8.0	8.4
25	14.0	13.8	13.9	10.2	10.0	10.1	9.3	8.9	9.1	9.3	8.2	8.8
26	13.9	13.7	13.7	10.0	9.9	9.9	9.2	8.9	9.0	8.8	8.0	8.2
27	13.8	13.5	13.7	9.9	9.6	9.7	9.1	8.8	8.9	9.8	7.5	8.4
28	13.6	13.4	13.5	10.1	9.3	9.6	9.0	8.8	8.9	8.5	7.7	8.0
29	13.5	13.2	13.3	10.0	9.5	9.7	9.0	8.8	8.9	8.0	7.6	7.8
30	---	---	---	10.0	9.4	9.6	9.1	8.8	8.9	8.7	7.8	8.3
31	---	---	---	9.9	9.0	9.4	---	---	---	9.0	8.4	8.6
MONTH	15.2	13.2	14.2	13.7	9.0	11.3	10.3	8.5	9.1	9.8	7.5	8.7

ARKANSAS RIVER BASIN

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.1	7.6	8.9	7.8	5.8	7.0	6.7	5.4	6.2	8.3	4.1	6.4
2	7.8	7.3	7.5	9.9	7.1	8.1	7.6	6.0	6.6	5.3	4.4	4.8
3	8.8	7.3	7.9	13.9	7.9	10.2	7.2	6.0	6.6	5.3	4.5	4.7
4	8.0	7.3	7.6	10.0	6.9	7.9	8.2	5.9	7.2	5.4	4.6	5.0
5	8.1	7.0	7.6	11.2	6.7	7.7	8.7	6.7	7.4	6.3	5.4	5.8
6	9.2	7.4	8.2	12.2	6.6	9.4	7.7	5.2	6.6	8.4	6.3	7.1
7	8.8	7.6	8.0	9.8	7.4	8.8	7.6	5.2	6.2	8.4	5.9	6.8
8	8.2	7.6	7.9	8.9	5.8	7.8	9.0	6.8	7.8	7.4	4.9	5.9
9	8.2	7.7	7.9	7.6	6.6	7.1	12.6	5.9	8.4	5.5	4.2	4.7
10	7.9	7.5	7.7	7.4	6.5	6.9	9.6	6.7	7.6	6.4	4.5	5.6
11	9.7	7.7	8.5	7.9	6.8	7.3	11.1	6.1	8.5	6.3	5.6	5.9
12	8.3	7.3	7.8	9.0	7.0	7.8	9.6	7.1	8.0	6.7	5.6	6.2
13	8.3	7.5	7.9	10.3	7.0	8.7	12.0	5.6	8.5	6.9	6.1	6.5
14	10.1	6.5	8.1	10.9	6.8	9.0	9.6	3.4	7.3	7.4	6.7	7.0
15	8.2	6.5	7.2	9.5	6.0	7.9	7.0	3.4	5.1	9.6	6.8	7.7
16	10.2	6.8	8.4	9.5	6.6	8.1	---	---	---	7.5	6.3	6.7
17	11.1	7.4	9.0	11.3	7.1	8.9	10.3	---	---	6.7	5.7	6.3
18	10.8	7.7	8.6	12.5	7.4	9.2	9.5	8.4	9.0	7.9	6.6	7.2
19	8.2	6.8	7.5	10.6	4.7	7.7	8.4	7.0	7.6	7.5	6.4	7.0
20	7.0	5.8	6.6	9.8	8.1	9.0	8.9	7.0	7.6	7.5	6.5	6.9
21	9.4	5.6	7.5	8.3	6.8	7.4	8.5	---	---	8.2	6.1	7.2
22	10.3	8.1	8.9	8.1	5.7	---	---	---	---	7.8	7.2	7.5
23	13.0	7.6	9.9	6.2	5.3	5.9	---	---	---	9.6	7.2	8.1
24	10.5	7.7	9.7	6.3	5.6	5.9	---	---	---	11.2	7.3	8.7
25	9.7	7.1	7.9	8.1	6.2	6.9	---	---	---	11.2	7.3	8.7
26	8.2	6.8	7.6	8.5	6.3	7.0	---	---	---	7.4	6.1	7.0
27	8.9	6.9	7.7	6.3	5.0	5.9	10.0	---	---	8.0	5.0	6.3
28	8.1	7.1	7.5	6.3	4.7	5.5	9.3	8.0	8.4	8.6	7.0	7.9
29	7.4	6.9	7.3	6.0	5.1	5.5	8.6	7.0	7.6	7.5	4.9	6.6
30	7.0	6.3	6.8	7.7	5.5	6.2	7.7	6.0	6.7	6.8	5.0	5.7
31	---	---	---	6.0	5.2	5.6	7.7	6.0	6.6	---	---	---
MONTH	13.0	5.6	8.0	13.9	4.7	7.5	12.6	3.4	7.3	11.2	4.1	6.6

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	33	22	26	54	23	34	24	22	23	20	16	18
2	33	20	26	64	23	33	24	21	23	21	16	18
3	31	16	24	68	26	38	29	22	24	25	17	22
4	24	17	20	40	28	33	32	19	23	42	23	29
5	27	18	22	37	28	33	35	24	28	36	26	29
6	27	15	20	43	28	33	25	21	23	35	20	26
7	26	18	22	36	24	28	24	20	22	24	22	23
8	38	18	24	34	23	28	21	17	20	29	20	23
9	49	20	25	39	24	28	55	20	33	33	20	25
10	28	19	23	33	26	30	63	32	47	21	19	20
11	82	17	34	36	21	26	33	24	27	21	18	20
12	42	23	34	50	23	34	26	23	24	20	18	18
13	57	27	31	38	24	27	27	22	23	19	17	18
14	36	28	32	32	27	30	24	20	21	19	17	18
15	37	27	33	31	21	25	34	20	23	20	17	18
16	40	24	32	34	23	26	40	25	31	19	17	18
17	33	27	30	37	27	29	26	19	23	22	17	20
18	31	26	28	70	27	47	32	21	25	27	20	22
19	29	24	26	41	23	32	22	18	20	22	17	20
20	38	22	27	31	24	28	20	19	20	20	17	19
21	28	20	24	36	25	32	20	18	19	19	16	18
22	23	20	21	39	29	31	23	18	20	21	16	18
23	22	18	20	66	38	55	26	16	20	19	16	18
24	55	19	31	42	32	34	19	16	18	19	16	18
25	43	32	36	34	25	30	20	17	18	19	18	18
26	36	27	31	32	26	28	19	18	19	---	---	---
27	30	24	27	28	26	27	21	19	19	---	---	---
28	43	24	31	32	25	28	20	17	19	22	18	21
29	60	25	31	26	25	26	30	19	23	23	16	19
30	42	27	33	26	21	23	24	19	22	18	15	16
31	32	28	31	---	---	---	20	17	18	17	14	15
MONTH	82	15	28	70	21	31	63	16	23	42	14	20

ARKANSAS RIVER BASIN

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16	14	15	22	11	15	34	28	31	41	26	35
2	16	14	14	20	12	16	34	30	32	---	25	---
3	15	14	14	15	11	14	45	33	38	33	23	28
4	15	13	14	35	13	16	42	25	33	33	22	25
5	15	13	14	55	16	32	33	21	26	27	20	23
6	14	13	14	19	11	14	28	22	25	28	22	25
7	14	12	14	78	18	41	29	20	25	31	23	26
8	14	13	14	26	16	18	44	22	31	30	24	26
9	14	13	13	55	16	31	39	27	33	32	21	24
10	15	13	14	38	17	24	45	38	40	26	19	23
11	15	13	14	55	18	34	43	29	35	23	19	20
12	14	13	14	28	18	21	46	27	35	31	21	25
13	14	12	13	24	15	20	42	26	33	46	25	32
14	14	12	13	28	15	20	36	25	31	34	24	30
15	14	12	13	61	16	25	38	28	34	29	18	23
16	13	11	12	36	15	21	30	25	28	24	18	21
17	12	11	11	17	12	14	32	27	30	27	22	24
18	12	11	11	19	12	15	39	31	35	26	18	21
19	12	9.8	11	17	12	15	38	25	32	20	15	17
20	11	9.3	10	27	12	20	35	26	30	20	14	16
21	11	9.2	10	32	18	23	37	26	29	24	17	20
22	12	8.7	10	25	18	22	32	26	28	26	18	21
23	13	10	11	31	23	27	45	29	36	32	17	23
24	13	11	12	34	30	32	36	26	30	23	14	18
25	13	11	12	37	31	33	37	24	30	35	18	25
26	14	9.7	11	37	31	34	27	20	24	24	15	20
27	12	9.4	10	39	34	36	29	21	25	28	19	23
28	13	8.4	11	53	27	36	35	22	31	21	18	19
29	15	9.1	12	72	27	38	43	22	30	33	18	24
30	---	---	---	88	34	45	41	34	37	62	28	41
31	---	---	---	42	28	33	---	---	---	38	22	31
MONTH	16	8.4	12	88	11	25	46	20	31	62	14	24

07144790 CHENEY RESERVOIR NEAR CHENEY, KS—Continued

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

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	30	13	23	14	7.3	9.8	31	22	25	26	22	24
2	22	13	19	34	7.4	14	32	21	26	26	22	24
3	21	12	16	34	11	20	34	21	26	27	21	24
4	18	13	15	24	11	15	41	24	32	26	22	24
5	21	15	17	41	12	21	32	19	23	28	22	26
6	22	14	16	27	13	20	24	19	21	31	24	28
7	24	15	17	20	9.6	14	21	15	18	29	22	25
8	27	18	22	23	11	15	25	11	17	29	22	24
9	20	17	19	21	12	15	27	17	22	27	23	25
10	20	17	18	22	10	14	36	18	24	28	21	25
11	20	14	17	20	11	15	34	20	26	29	25	27
12	19	14	17	19	9.7	15	44	14	22	27	24	25
13	24	15	19	22	7.8	11	38	20	26	28	23	26
14	21	14	16	18	5.8	11	56	17	24	30	25	28
15	42	18	23	25	4.9	8.4	34	21	28	32	24	27
16	23	9.4	16	23	7.5	15	---	---	---	27	21	24
17	20	9.4	14	27	11	20	---	---	---	30	23	26
18	17	10	13	30	10	16	36	24	30	28	21	24
19	20	12	16	24	10	15	43	28	36	28	23	25
20	22	12	17	30	11	19	36	27	32	29	25	27
21	23	11	16	38	16	23	33	22	28	28	22	25
22	38	9.7	16	21	11	17	32	21	28	25	21	24
23	17	7.3	9.7	22	13	19	29	21	25	28	18	23
24	21	8.6	12	29	18	22	35	25	30	24	18	20
25	27	15	21	32	18	24	44	25	32	23	17	20
26	20	11	15	27	15	18	36	26	29	21	16	18
27	27	12	16	19	12	15	37	26	---	21	18	19
28	21	9.9	16	21	14	17	43	30	34	23	18	21
29	15	10	12	25	15	21	31	25	28	26	18	21
30	21	10	14	28	18	21	28	21	25	29	18	23
31	---	---	---	28	18	22	26	21	24	---	---	---
MONTH	42	7.3	17	41	4.9	17	56	11	26	32	16	24

ARKANSAS RIVER BASIN

07144795 NORTH FORK NINNESCAH RIVER AT CHENEY DAM, KS

LOCATION.--Lat 37°43'17", long 97°47'39", in NE ¼ SW ¼ SE ¼ sec.6, T.27 S., R.4 W., Sedgwick County, Hydrologic Unit 11030014, on right bank 1,400 ft downstream from Cheney Dam, 6.0 mi north of Cheney, and at mile 15.5.

DRAINAGE AREA.--901 mi², of which 237 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete Parshall flume. Datum of gage is 1,366.02 ft above NGVD of 1929 (Bureau of Reclamation bench mark). Prior to Oct. 1, 1973, at datum 1.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow completely regulated since 1964 by Cheney Reservoir (station 07144790), 1,400 ft upstream. Satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	0.55	0.40	0.31	e0.00	0.19	257	283	1.1	888	0.52	0.31
2	1.5	0.55	0.43	0.31	e0.00	0.19	258	282	0.96	361	0.50	0.31
3	1.5	0.56	0.42	0.30	e0.00	0.34	257	118	0.82	1.7	0.51	0.31
4	1.4	0.60	0.36	0.28	e0.00	1.3	260	1.2	0.54	2.7	0.45	0.33
5	1.3	0.58	0.31	e0.28	e0.00	0.60	96	1.1	0.50	2.2	0.45	0.45
6	1.2	0.59	0.27	e0.28	e0.00	0.39	1.3	1.1	0.43	1.9	0.50	0.32
7	1.2	0.59	0.29	e0.27	e0.00	0.35	1.3	1.2	0.37	478	0.51	0.32
8	2.1	0.63	0.28	e0.26	e0.00	465	1.4	1.4	0.38	900	0.59	0.31
9	1.2	0.62	0.47	e0.25	e0.00	1,050	1.5	1.5	0.42	915	0.56	0.14
10	0.75	0.59	e0.28	e0.24	e0.00	1,170	1.4	1.7	0.56	909	0.58	0.11
11	0.64	0.57	0.28	e0.22	e0.00	1,170	1.4	1.8	0.41	918	0.47	0.08
12	0.62	0.56	0.37	0.23	e0.00	1,150	1.4	2.0	0.41	934	0.45	0.07
13	0.59	0.59	0.67	0.23	e0.00	1,150	1.4	2.1	1.8	917	0.41	0.06
14	0.57	0.62	0.51	0.23	e0.00	1,150	1.4	1.9	0.45	907	0.45	0.06
15	0.61	0.56	0.50	0.23	e0.00	1,140	1.4	1.9	0.41	807	0.46	0.07
16	0.62	0.57	0.40	0.24	0.00	1,150	1.3	2.0	0.35	658	0.65	0.05
17	0.68	0.60	0.33	0.50	e0.00	1,140	1.3	179	0.41	684	0.51	0.05
18	0.61	0.52	0.34	0.22	e0.10	1,010	1.4	277	0.71	707	0.46	0.04
19	0.52	0.54	0.33	e0.25	e0.17	744	1.4	277	0.65	560	0.57	0.03
20	0.54	0.55	0.32	e0.25	e0.17	658	1.5	277	0.62	205	0.40	0.03
21	0.53	0.50	0.32	e0.25	e0.17	660	1.5	276	0.47	0.79	0.36	0.04
22	0.58	0.52	0.32	0.25	e0.17	350	1.4	277	141	0.80	0.37	0.04
23	0.56	0.52	0.32	0.24	e0.17	246	1.6	277	685	1.5	0.41	0.08
24	0.57	0.49	0.32	0.22	e0.17	1.1	1.4	279	961	1.0	0.39	0.03
25	0.62	0.49	0.33	0.23	e0.17	1.1	1.3	161	941	0.95	0.37	0.03
26	0.67	0.49	0.35	0.22	0.17	1.1	1.3	1.3	941	0.99	0.36	0.03
27	0.66	0.46	0.33	e0.22	0.18	1.3	158	1.2	912	0.89	0.36	0.04
28	0.61	0.46	0.31	e0.22	0.18	1.1	277	1.1	892	0.76	0.34	0.05
29	0.52	0.48	0.32	e0.17	0.29	155	277	1.1	901	0.70	0.36	0.05
30	0.52	0.47	0.32	e0.03	---	257	282	1.1	887	0.61	0.36	0.05
31	0.53	---	0.29	e0.00	---	257	---	1.1	---	0.58	0.32	---
MEAN	0.84	0.55	0.36	0.24	0.07	486	71.7	96.5	242	380	0.45	0.13
MAX	2.1	0.63	0.67	0.50	0.29	1,170	282	283	961	934	0.65	0.45
MIN	0.52	0.46	0.27	0.00	0.00	0.19	1.3	1.1	0.35	0.58	0.32	0.03
AC-FT	52	33	22	15	4.2	29,910	4,270	5,930	14,430	23,340	28	7.7

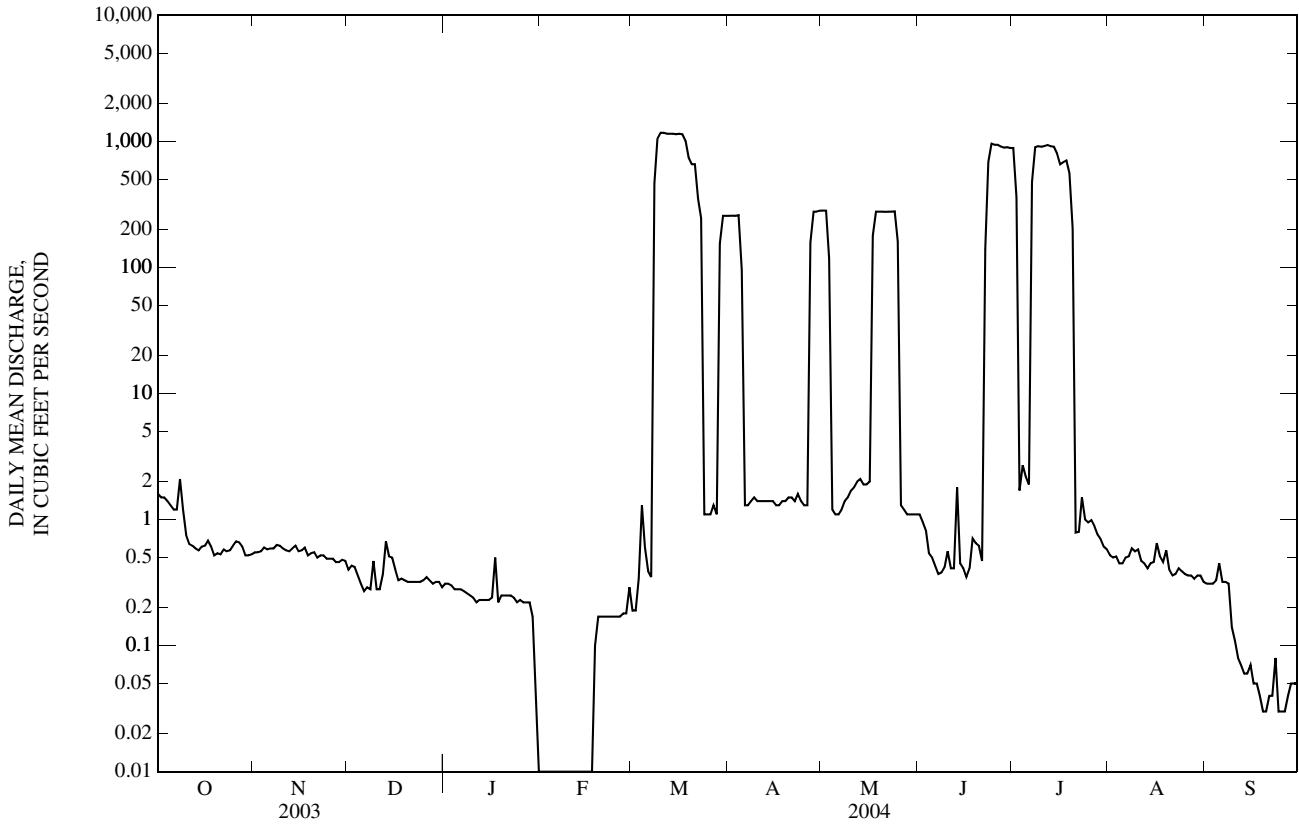
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	105	118	58.3	61.2	95.4	158	224	198	200	116	25.0	72.7
MAX	1,054	1,782	334	360	569	681	933	1,142	1,504	1,162	377	973
(WY)	(1974)	(1980)	(1993)	(1998)	(1993)	(2001)	(1973)	(1993)	(1995)	(1987)	(1993)	(1977)
MIN	0.13	0.08	0.08	0.02	0.04	0.06	0.11	0.14	0.10	0.12	0.11	0.03
(WY)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(1965)	(1965)	(1966)	(1966)	(1985)	(2000)

07144795 NORTH FORK NINNESCAH RIVER AT CHENEY DAM, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL MEAN	135		107		119	
HIGHEST ANNUAL MEAN					406	1993
LOWEST ANNUAL MEAN					0.24	2002
HIGHEST DAILY MEAN	1,220	Mar 23	1,170	Mar 10	1,910	Apr 30, 1969
LOWEST DAILY MEAN	0.27	Dec 6	0.00	Jan 31	0.00	May 18, 1966
ANNUAL SEVEN-DAY MINIMUM	0.31	Dec 5	0.00	Jan 31	0.00	Aug 16, 1980
MAXIMUM PEAK FLOW			1,200	Mar 9	2,070	Nov 13, 1979
MAXIMUM PEAK STAGE			4.94	Mar 9	5.51	Jul 13, 1987
INSTANTANEOUS LOW FLOW			0.00	Feb 7	0.00	at times
ANNUAL RUNOFF (AC-FT)	97,440		78,040		86,320	
10 PERCENT EXCEEDS	589		392		380	
50 PERCENT EXCEEDS	0.72		0.55		0.48	
90 PERCENT EXCEEDS	0.41		0.07		0.14	

e Estimated



07144910 SOUTH FORK NINNESCAH RIVER NEAR PRATT, KS

LOCATION.--Lat 37°38'16", long 98°43'14", in NW ¼ NW ¼ SW ¼ sec.2, T.28 S., R.13 W., Pratt County, Hydrologic Unit 11030015, on left bank at downstream side of county highway bridge, 500 ft southwest of sewage disposal facility at Pratt, 3.3 mi downstream from major left bank tributary, and at mile 135.2.

DRAINAGE AREA.--117 mi², approximately.

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,820.83 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated at times by State Fish Hatchery diversion, 0.5 mi upstream. Satellite telemeter at station.

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

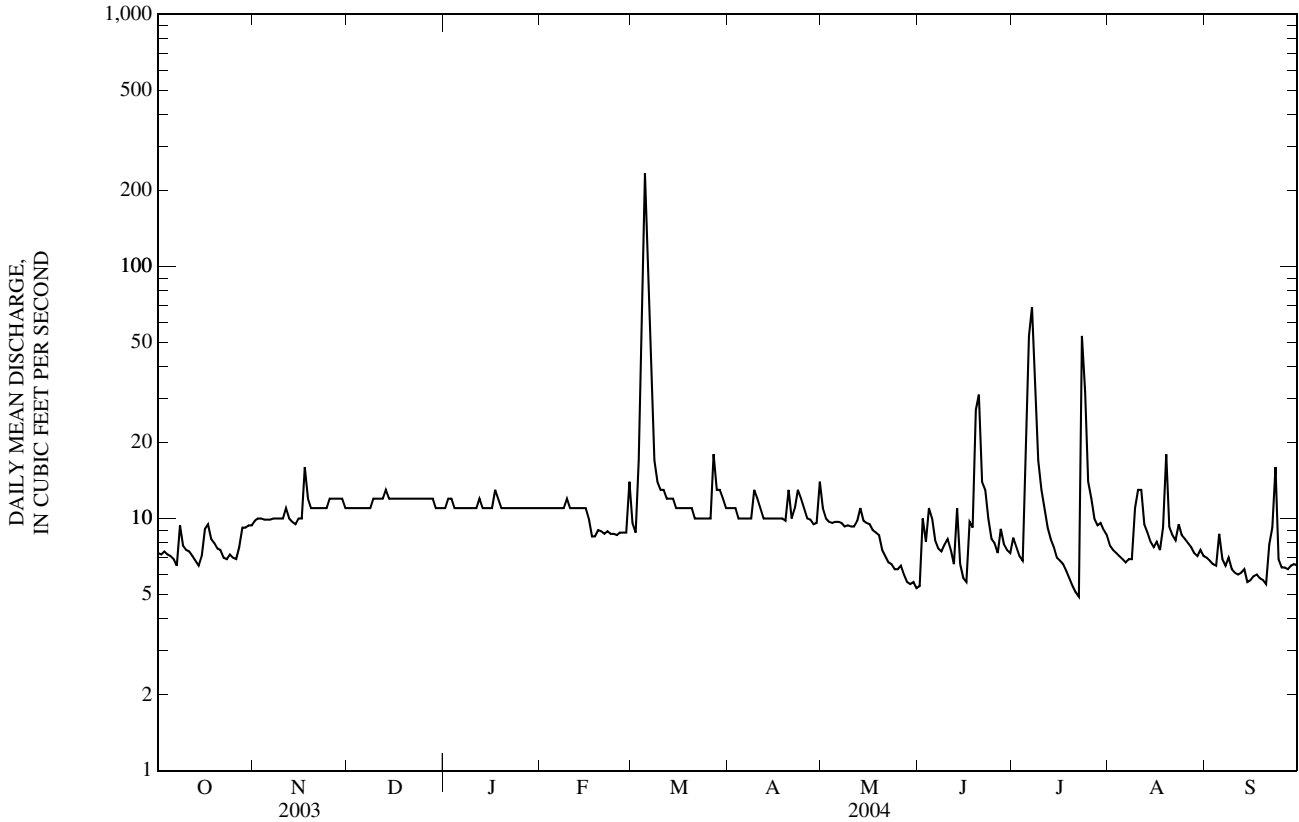
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	9.8	11	11	11	9.6	11	11	5.4	8.4	7.8	7.0
2	7.2	10	11	12	11	8.8	11	10	10	7.7	7.5	6.8
3	7.4	10	11	12	11	17	11	9.7	8.1	7.1	7.3	6.6
4	7.2	9.9	11	11	11	79	10	9.6	11	6.8	7.1	6.5
5	7.1	9.9	11	11	11	234	10	9.7	10	14	6.9	8.7
6	6.9	9.9	11	11	11	64	10	9.7	8.2	53	6.7	6.9
7	6.5	10	11	11	11	30	10	9.6	7.6	69	6.9	6.5
8	9.4	10	11	11	11	17	10	9.3	7.4	35	6.9	7.0
9	7.8	10	12	11	12	14	13	9.4	7.9	17	11	6.3
10	7.5	10	12	11	11	13	12	9.3	8.3	13	13	6.1
11	7.4	11	12	11	11	13	11	9.3	7.5	11	13	6.0
12	7.1	10	12	12	11	12	10	9.8	6.6	9.2	9.5	6.1
13	6.8	9.7	13	11	11	12	10	11	11	8.3	8.8	6.3
14	6.5	9.5	12	11	11	12	10	9.8	6.6	7.7	8.1	5.6
15	7.1	10	12	11	11	11	10	9.6	5.8	7.0	7.7	5.7
16	9.1	10	12	11	10	11	10	9.5	5.6	6.8	8.1	5.9
17	9.5	16	12	13	8.5	11	10	9.0	9.7	6.6	7.5	6.0
18	8.3	12	12	12	8.5	11	10	8.8	9.2	6.2	9.2	5.8
19	8.0	11	12	11	9.0	11	9.8	8.6	27	5.8	18	5.7
20	7.6	11	12	11	8.9	11	13	7.5	31	5.4	9.3	5.5
21	7.5	11	12	11	8.7	10	10	7.1	14	5.1	8.6	7.9
22	7.0	11	12	11	8.9	10	11	6.7	13	4.9	8.2	9.2
23	6.9	11	12	11	8.7	10	13	6.6	10	53	9.5	16
24	7.2	11	12	11	8.7	10	12	6.3	8.3	32	8.6	6.9
25	7.0	12	12	11	8.6	10	11	6.3	8.0	14	8.3	6.4
26	6.9	12	12	11	8.8	10	10	6.5	7.3	12	8.0	6.4
27	7.7	12	12	11	8.8	18	9.9	6.0	9.1	10	7.7	6.3
28	9.2	12	12	11	8.8	13	9.5	5.6	7.9	9.4	7.3	6.5
29	9.2	12	11	11	14	13	9.6	5.5	7.5	9.6	7.1	6.6
30	9.4	11	11	11	---	12	14	5.6	7.3	9.0	7.5	6.5
31	9.4	---	11	11	---	11	---	5.3	---	8.6	7.1	---
MEAN	7.71	10.8	11.7	11.2	10.2	23.5	10.7	8.31	9.88	15.2	8.65	6.86
MAX	9.5	16	13	13	14	234	14	11	31	69	18	16
MIN	6.5	9.5	11	11	8.5	8.8	9.5	5.3	5.4	4.9	6.7	5.5
AC-FT	474	644	718	688	585	1,440	638	511	588	937	532	408

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

	15.0	15.1	12.3	11.9	12.8	22.0	25.4	28.3	20.1	22.3	19.1	12.1
MEAN	64.0	81.5	28.5	16.8	22.8	110	251	160	46.9	143	169	100
(WY)	(2003)	(1997)	(1985)	(1998)	(2000)	(2000)	(1991)	(1995)	(1995)	(1997)	(1996)	(1996)
MIN	6.02	7.73	8.46	8.90	8.89	9.28	7.61	7.20	6.76	5.72	3.55	4.24
(WY)	(1995)	(1995)	(2002)	(2002)	(1992)	(2002)	(1992)	(1992)	(1994)	(1990)	(1990)	(1984)

07144910 SOUTH FORK NINNESCAH RIVER NEAR PRATT, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL MEAN	13.6		11.3		18.1	
HIGHEST ANNUAL MEAN					39.4	1997
LOWEST ANNUAL MEAN					9.36	2002
HIGHEST DAILY MEAN	452	Aug 30	234	Mar 5	6,240	Apr 13, 1991
LOWEST DAILY MEAN	3.2	Aug 25	4.9	Jul 22	0.85	Sep 8, 1990
ANNUAL SEVEN-DAY MINIMUM	3.4	Aug 19	5.7	May 26	1.1	Sep 3, 1990
MAXIMUM PEAK FLOW			412	Mar 5	26,200	Apr 13, 1991
MAXIMUM PEAK STAGE			6.24	Mar 5	14.27	Apr 13, 1991
INSTANTANEOUS LOW FLOW			4.5	Jul 21	0.75	Sep 7, 1990
ANNUAL RUNOFF (AC-FT)	9,870		8,170		13,090	
10 PERCENT EXCEEDS	15		13		19	
50 PERCENT EXCEEDS	9.5		10		11	
90 PERCENT EXCEEDS	5.7		6.5		5.9	



07145200 SOUTH FORK NINNESCAH RIVER NEAR MURDOCK, KS

LOCATION.--Lat 37°33'41", long 97°51'11", in SW ¼ SW ¼ SE ¼ sec.34, T.28 S., R.5 W., Kingman County, Hydrologic Unit 11030015, on right bank at upstream side of county highway bridge, 4.0 mi southeast of Murdock, and at mile 68.0.

DRAINAGE AREA.--650 mi², of which 107 mi² is probably noncontributing.

PERIOD OF RECORD.--August 1950 to September 1959. Annual maximums, water years 1960-64. June 1964 to current year.

REVISED RECORDS.--WSP 1561: 1957(P).

GAGE.--Water-stage recorder. Datum of gage is 1,357.81 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Mar. 30, 1951, nonrecording gage. Mar. 30, 1951, to Sept. 30, 1959, water-stage recorder, and Oct. 1, 1959, to June 3, 1964, crest-stage gage. at same site and 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 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	0200	3,790	7.64	Jun 19	1500	2,220	6.60
Mar 4	1900	*4,390	*7.99				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	150	163	167	e190	253	257	158	49	197	161	94
2	173	147	156	166	e180	236	245	153	57	947	146	88
3	173	142	162	161	e160	265	233	132	69	546	129	89
4	168	150	162	165	e168	1,800	211	119	74	285	121	92
5	164	146	164	135	e142	2,500	201	110	94	355	119	94
6	160	154	156	e130	e140	1,380	199	99	105	391	113	101
7	155	158	153	e140	e120	878	198	84	92	306	116	101
8	749	161	160	e150	e150	566	194	75	85	430	121	99
9	2,150	163	201	e140	e160	454	202	70	76	313	134	97
10	564	162	202	e150	e170	388	247	68	97	247	354	94
11	360	162	195	e164	e160	334	249	68	77	197	201	90
12	271	161	165	e166	e140	286	224	70	69	167	163	85
13	223	147	e165	e166	e185	269	207	290	405	147	176	82
14	202	152	e165	168	e203	264	197	490	268	138	172	81
15	190	166	e165	169	e220	265	188	297	199	124	149	84
16	179	171	e165	172	241	256	181	228	132	118	211	85
17	164	166	e180	335	213	244	174	209	179	107	279	84
18	161	167	187	435	217	237	165	179	1,020	98	205	79
19	164	153	187	284	226	229	157	164	1,530	91	153	77
20	158	153	190	233	237	225	174	157	990	85	190	73
21	151	162	201	209	224	220	181	136	891	71	186	76
22	148	168	216	209	205	229	177	114	567	63	145	88
23	145	179	228	206	196	237	277	100	371	196	134	107
24	139	172	226	210	188	225	456	90	288	926	119	122
25	128	179	216	221	183	207	277	83	229	660	110	126
26	137	173	205	e200	184	199	218	81	198	421	101	109
27	147	175	199	e168	179	235	178	83	179	271	97	100
28	151	168	193	e168	168	398	149	81	177	211	96	99
29	144	164	188	e160	193	307	133	69	167	195	91	102
30	146	166	178	e150	---	277	132	62	163	189	91	99
31	152	---	173	e170	---	262	---	55	---	176	93	---
MEAN	268	161	183	189	184	456	209	135	297	280	151	93.2
MAX	2,150	179	228	435	241	2,500	456	490	1,530	947	354	126
MIN	128	142	153	130	120	199	132	55	49	63	91	73
AC-FT	16,470	9,590	11,240	11,640	10,600	28,020	12,460	8,280	17,650	17,190	9,270	5,550

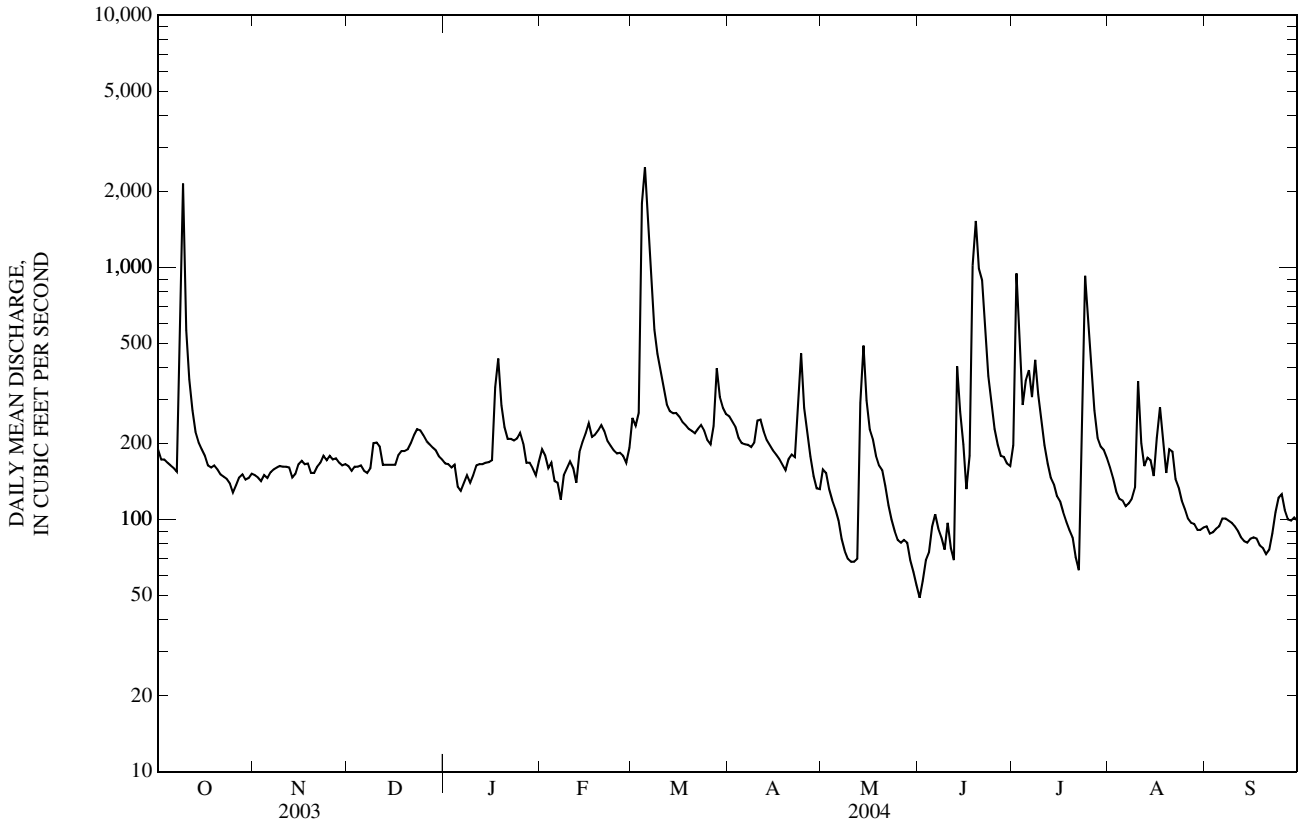
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	211	195	166	156	187	275	260	315	308	165	114	170
MAX	1,215	820	319	305	486	1,110	726	1,100	1,808	889	372	1,271
(WY)	(1974)	(1980)	(1974)	(1988)	(2001)	(1973)	(1973)	(1957)	(1957)	(1987)	(1977)	(1973)
MIN	38.4	71.9	79.6	72.1	113	93.9	84.3	86.7	41.5	31.2	13.7	19.0
(WY)	(1957)	(1957)	(1957)	(1957)	(1981)	(1955)	(1955)	(1956)	(1956)	(1954)	(1956)	(1956)

07145200 SOUTH FORK NINNESCAH RIVER NEAR MURDOCK, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL MEAN	230		218		211	
HIGHEST ANNUAL MEAN					371 1973	
LOWEST ANNUAL MEAN					89.0 1956	
HIGHEST DAILY MEAN	3,400	Mar 19	2,500	Mar 5	18,000	Oct 31, 1979
LOWEST DAILY MEAN	36	Aug 20	49	Jun 1	7.9	Aug 4, 1956
ANNUAL SEVEN-DAY MINIMUM	39	Aug 18	62	May 29	8.8	Aug 3, 1956
MAXIMUM PEAK FLOW			4,390	Mar 4	28,700	Oct 31, 1979
MAXIMUM PEAK STAGE			7.99	Mar 4	12.84	Oct 31, 1979
INSTANTANEOUS LOW FLOW			29	Jan 5	5.0	Aug 5, 1964
ANNUAL RUNOFF (AC-FT)	166,700		158,000		152,800	
10 PERCENT EXCEEDS	355		300		310	
50 PERCENT EXCEEDS	165		167		138	
90 PERCENT EXCEEDS	57		89		68	

e Estimated



ARKANSAS RIVER BASIN

07145500 NINNESCAH RIVER NEAR PECK, KS

LOCATION.--Lat 37°27'25", long 97°25'25", in NW ¼ SW ¼ NW ¼ sec.10, T.30 S., R.1 W., Sumner County, Hydrologic Unit 11030016, on right bank at downstream side of county highway bridge, 3.0 mi southwest of Peck, and at mile 31.6.

DRAINAGE AREA.--2,129 mi², of which 344 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1937 to current year. Prior to April 1938 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1211: 1944(M). WSP 1241: 1944, 1945(M), 1947-48(M).

GAGE.--Water-stage recorder. Datum of gage is 1,222.38 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Feb. 4, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow partially regulated since 1964 by Cheney Reservoir (station 07144790). Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 9, 1923, reached a stage of 26.4 ft from floodmark, discharge, about 70,000 ft³/s.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	207	185	190	e240	283	664	541	159	1,270	325	146
2	199	202	182	188	e210	328	646	553	156	4,070	295	143
3	207	204	187	189	e220	305	625	540	161	2,420	268	138
4	220	208	187	e150	e250	2,740	608	423	162	2,480	247	131
5	198	218	184	e100	e250	12,900	591	277	180	3,500	234	126
6	183	210	181	e60	e250	4,240	478	243	206	2,970	227	126
7	173	207	182	e110	e230	2,220	351	221	263	1,620	219	133
8	192	207	187	e130	e220	1,430	332	204	181	1,340	213	130
9	7,390	204	196	e150	e250	1,470	338	192	180	1,610	211	126
10	4,490	203	e180	e170	e280	1,760	374	186	878	1,420	225	121
11	1,310	205	e170	e200	e300	1,730	411	181	1,160	1,310	385	117
12	856	205	e160	e220	e260	1,630	392	179	344	1,240	300	111
13	652	201	154	260	e230	1,580	350	8,350	4,390	1,190	254	105
14	560	194	160	216	e300	1,540	317	5,900	7,950	1,150	240	99
15	443	196	245	198	506	1,520	299	1,580	1,750	1,130	237	97
16	393	197	366	196	426	1,500	282	799	1,150	922	231	98
17	358	196	292	289	376	1,480	269	551	775	843	331	97
18	333	192	256	1,120	434	1,480	261	515	5,690	815	436	94
19	314	188	246	754	437	1,310	260	571	6,180	799	323	90
20	301	185	246	444	367	1,040	506	541	4,330	727	261	86
21	285	185	245	363	315	954	356	505	5,210	497	283	83
22	267	186	244	324	278	920	298	494	2,550	335	264	86
23	250	183	244	300	256	762	803	454	1,350	372	233	100
24	241	183	236	289	247	619	2,430	435	1,350	2,060	216	114
25	234	183	227	287	239	446	1,310	429	1,420	1,900	200	125
26	224	190	218	292	233	409	631	377	1,330	1,020	186	138
27	223	186	210	e200	228	417	439	249	1,290	633	174	122
28	221	185	206	e220	223	1,100	421	215	1,350	470	161	109
29	215	182	200	e210	236	971	535	203	1,270	411	153	105
30	209	184	195	e200	---	699	533	332	1,230	378	149	105
31	206	---	191	e210	---	711	---	173	---	353	146	---
MEAN	695	196	212	265	286	1,629	537	852	1,820	1,331	246	113
MAX	7,390	218	366	1,120	506	12,900	2,430	8,350	7,950	4,070	436	146
MIN	173	182	154	60	210	283	260	173	156	335	146	83
AC-FT	42,730	11,660	13,020	16,320	16,450	100,200	31,950	52,390	108,300	81,830	15,130	6,750

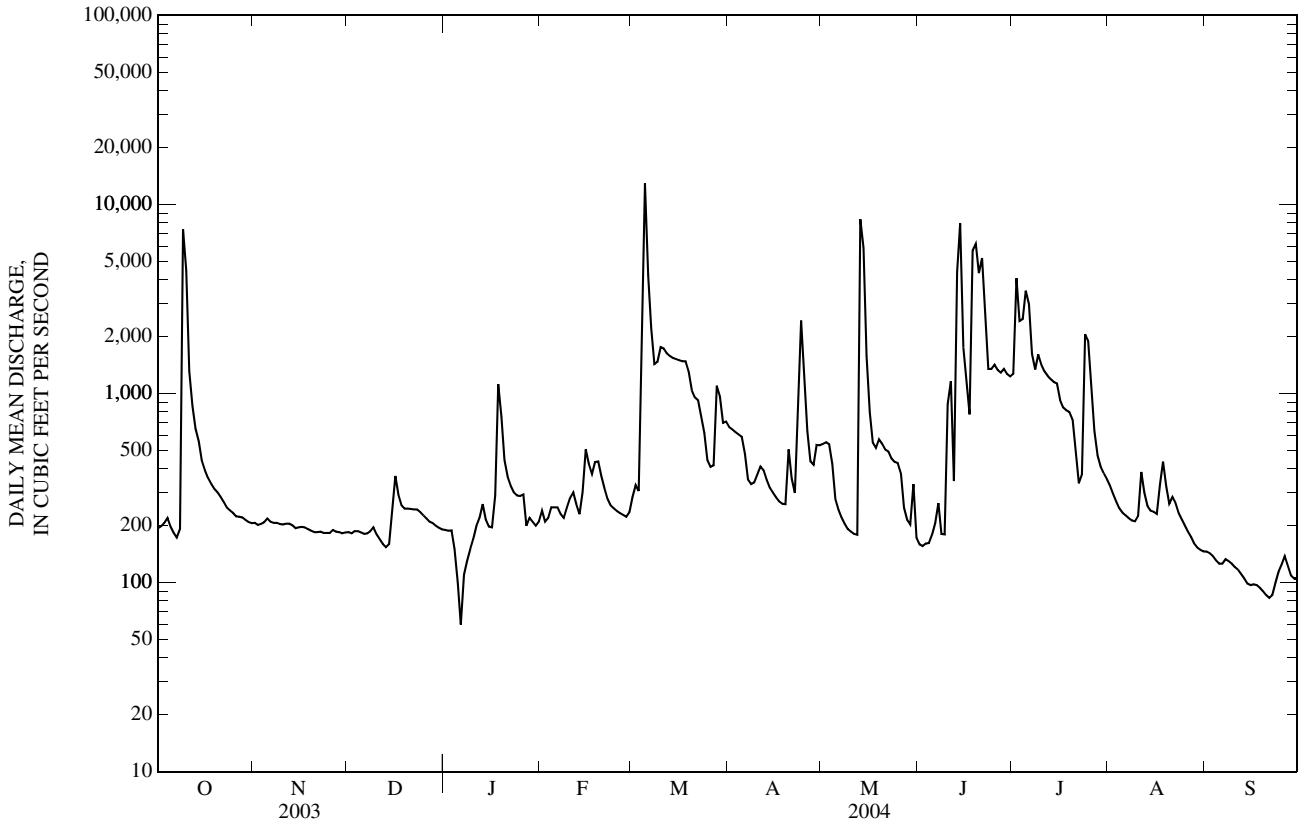
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	462	434	322	323	436	673	722	834	889	498	272	431
MAX	3,170	2,767	1,032	1,429	3,027	3,245	3,568	4,314	3,813	3,258	1,397	2,705
(WY)	(1986)	(1980)	(1945)	(1949)	(1949)	(1973)	(1944)	(1993)	(1957)	(1948)	(1948)	(1977)
MIN	38.5	80.9	95.5	81.5	117	104	120	91.4	43.0	18.3	5.43	3.24
(WY)	(1940)	(1955)	(1957)	(1957)	(1967)	(1967)	(1972)	(1967)	(1956)	(1954)	(1956)	(1956)

07145500 NINNESCAH RIVER NEAR PECK, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL MEAN	573		684		524	
HIGHEST ANNUAL MEAN					1,234	1993
LOWEST ANNUAL MEAN					158	1966
HIGHEST DAILY MEAN	11,600	Mar 20	12,900	Mar 5	33,700	May 17, 1957
LOWEST DAILY MEAN	32	Aug 25	60	Jan 6	0.20	Sep 3, 1956
ANNUAL SEVEN-DAY MINIMUM	33	Aug 22	91	Sep 16	0.34	Sep 1, 1956
MAXIMUM PEAK FLOW			16,100	Mar 5	38,200	May 17, 1957
MAXIMUM PEAK STAGE			17.10	Mar 5	21.85	May 17, 1957
INSTANTANEOUS LOW FLOW			44	Jan 6	0.20	Sep 3, 1956
ANNUAL RUNOFF (AC-FT)	415,000		496,700		379,400	
10 PERCENT EXCEEDS	1,430		1,470		1,040	
50 PERCENT EXCEEDS	240		260		240	
90 PERCENT EXCEEDS	63		150		78	

e Estimated



07145700 SLATE CREEK AT WELLINGTON, KS

LOCATION.--Lat 37°14'58", long 97°24'13", in SE 1/4 NE 1/4 SE 1/4 sec.22, T.32 S., R.1 W., Sumner County, Hydrologic Unit 11030013, on right bank at upstream side of bridge on U.S. Highway 81, at south edge of Wellington.

DRAINAGE AREA.--154 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1954-66. Annual maximum, water years 1960-69. April 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,157.24 ft above NGVD of 1929. Prior to Apr. 1, 1969, crest-stage gage at present site and at datum 3.0 ft higher.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	2200	2,990	19.46	Jun 18	2300	1,500	15.31
Mar 5	1100	5,480	21.70	Jun 22	1000	1,460	15.10
Apr 24	0900	3,290	19.94	Jul 3	0300	2,850	19.23
May 14	0700	*7,050	*22.39	Jul 24	1200	1,450	15.09

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

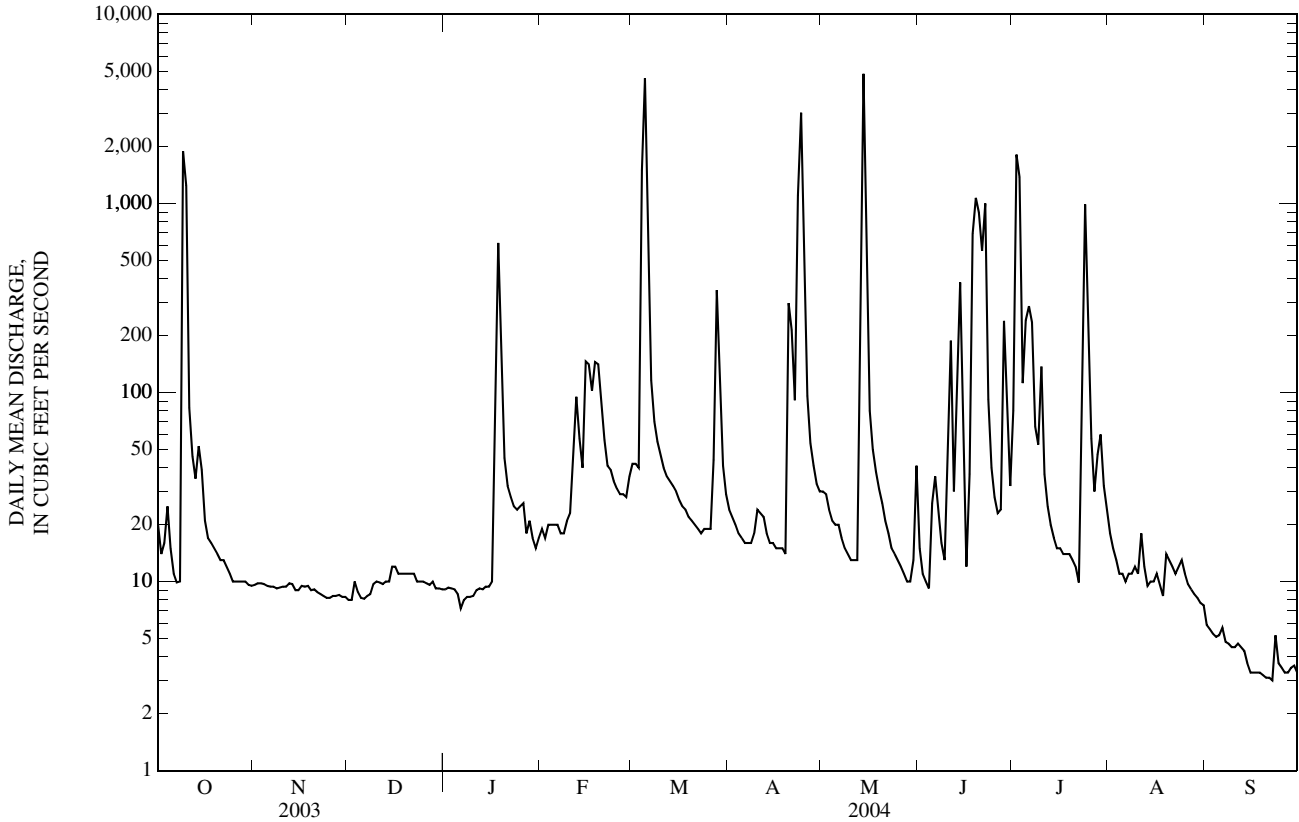
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	9.6	8.0	9.1	19	42	24	30	15	80	18	5.9
2	14	9.8	8.0	9.3	17	42	22	29	11	1,810	15	5.6
3	16	9.8	10	9.2	20	40	20	24	10	1,380	13	5.3
4	25	9.7	8.8	9.1	20	1,500	18	21	9.2	112	11	5.1
5	15	9.5	8.2	8.6	20	4,600	17	20	26	241	11	5.2
6	11	9.4	8.1	7.2	20	890	16	20	36	286	10	5.7
7	9.9	9.4	8.4	8.0	18	116	16	17	24	235	11	4.8
8	10	9.2	8.6	8.3	18	70	16	15	16	66	11	4.7
9	1,890	9.3	9.7	8.3	21	55	18	14	13	53	12	4.5
10	1,240	9.4	10	8.4	23	47	24	13	33	137	11	4.5
11	83	9.4	9.9	9.0	52	40	23	13	188	37	18	4.7
12	46	9.8	9.7	9.2	95	36	22	13	30	25	12	4.5
13	35	9.7	10	9.1	57	34	18	968	123	20	9.5	4.3
14	52	9.0	10	9.4	40	32	16	4,850	382	17	10	3.7
15	39	9.0	12	9.4	146	30	16	315	39	15	10	3.3
16	21	9.5	12	10	141	27	15	80	12	15	11	3.3
17	17	9.4	11	124	102	25	15	50	37	14	9.6	3.3
18	16	9.5	11	618	145	24	15	38	691	14	8.4	3.3
19	15	9.0	11	121	141	22	14	31	1,070	14	14	3.2
20	14	9.1	11	45	93	21	297	26	897	13	13	3.1
21	13	8.8	11	32	56	20	214	21	562	12	12	3.1
22	13	8.6	11	28	41	19	91	18	999	9.9	11	3.0
23	12	8.4	10	25	39	18	1,100	15	92	42	12	5.2
24	11	8.2	10	24	34	19	3,020	14	40	989	13	3.7
25	10	8.2	10	25	31	19	632	13	28	223	11	3.5
26	10	8.4	9.8	26	29	19	96	12	23	57	9.7	3.3
27	10	8.4	9.6	18	29	44	54	11	24	30	9.1	3.3
28	10	8.5	10	21	28	348	41	10	239	47	8.6	3.5
29	10	8.3	9.2	17	36	110	33	10	107	60	8.2	3.6
30	9.6	8.3	9.2	15	---	41	30	13	32	32	7.7	3.3
31	9.5	---	9.1	17	---	29	---	41	---	24	7.5	---
MEAN	120	9.09	9.82	41.9	52.8	270	198	218	194	197	11.2	4.12
MAX	1,890	9.8	12	618	146	4,600	3,020	4,850	1,070	1,810	18	5.9
MIN	9.5	8.2	8.0	7.2	17	18	14	10	9.2	9.9	7.5	3.0
AC-FT	7,350	541	604	2,570	3,040	16,620	11,810	13,420	11,520	12,120	691	245

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

MEAN	53.5	61.5	28.3	26.8	56.9	140	91.7	106	154	65.8	48.5	55.5
MAX	405	408	229	116	331	739	477	1,091	972	369	408	620
(WY)	(2003)	(1999)	(2000)	(1993)	(2001)	(1973)	(1983)	(1993)	(1995)	(1999)	(1977)	(1973)
MIN	0.32	0.39	1.85	2.30	2.86	3.40	2.39	3.14	0.49	0.17	0.40	0.28
(WY)	(1981)	(1981)	(1989)	(1981)	(1981)	(1991)	(1981)	(1981)	(1972)	(1980)	(1978)	(1984)

07145700 SLATE CREEK AT WELLINGTON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL MEAN	85.7		111		73.9	
HIGHEST ANNUAL MEAN					210	1993
LOWEST ANNUAL MEAN					4.29	1981
HIGHEST DAILY MEAN	2,870	Mar 19	4,850	May 14	10,200	Jun 17, 1975
LOWEST DAILY MEAN	0.69	Aug 26	3.0	Sep 22	0.00	Aug 21, 1972
ANNUAL SEVEN-DAY MINIMUM	0.81	Aug 22	3.2	Sep 16	0.00	Jul 10, 1980
MAXIMUM PEAK FLOW			7,050	May 14	28,500	Jun 17, 1975
MAXIMUM PEAK STAGE			22.39	May 14	25.82	Jun 17, 1975
INSTANTANEOUS LOW FLOW			2.8	Sep 22	0.00	at times
ANNUAL RUNOFF (AC-FT)	62,040		80,530		53,570	
10 PERCENT EXCEEDS	83		123		75	
50 PERCENT EXCEEDS	11		15		8.5	
90 PERCENT EXCEEDS	3.1		8.1		1.0	



ARKANSAS RIVER BASIN

07146500 ARKANSAS RIVER AT ARKANSAS CITY, KS

LOCATION.--Lat 37°03'23", long 97°03'32", in NE ¼ NE ¼ NE ¼ sec.35, T.34 S., R.3 E., Cowley County, Hydrologic Unit 11030013, on left bank at downstream side of bridge on U.S. Highway 166, 0.5 mi west of Arkansas City, 5.4 mi upstream from Walnut River, and at mile 701.4.

DRAINAGE AREA.--43,713 mi², of which 7,607 mi² is probably noncontributing.

PERIOD OF RECORD.--September 1902 to September 1906, September 1921 to current year. Published as "near Arkansas City" 1903-04. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1311: 1905. WSP 1341: 1922-23, 1927, 1929, 1931, 1933, 1940, 1945-46(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,050.04 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Sept. 23, 1902, to July 31, 1906, nonrecording gage at site 0.5 mi upstream at datum 9.5 ft higher. Sept. 10, 1921, to Sept 27, 1929, nonrecording gage and Sept. 28, 1929, to Aug. 28, 1956, water-stage recorder at site 0.5 mi upstream at datum 2.97 ft higher than present datum.

REMARKS.--Records good. Flow slightly regulated since 1948 by John Martin Reservoir (station 07130000), and since 1964 by Cheney Reservoir (station 07144790). Diversions upstream from regulation for irrigation. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 10	2200	32,800	19.70	Jun 20	0500	14,400	15.81
Mar 6	1500	*43,000	*21.43	Jun 22	0700	11,300	14.91
Apr 24	0400	11,900	15.11	Jul 3	1600	10,100	14.52
May 14	2100	21,900	17.98	Jul 6	1000	12,700	15.32
Jun 15	0600	12,500	15.25	Jul 25	2300	15,500	16.14

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

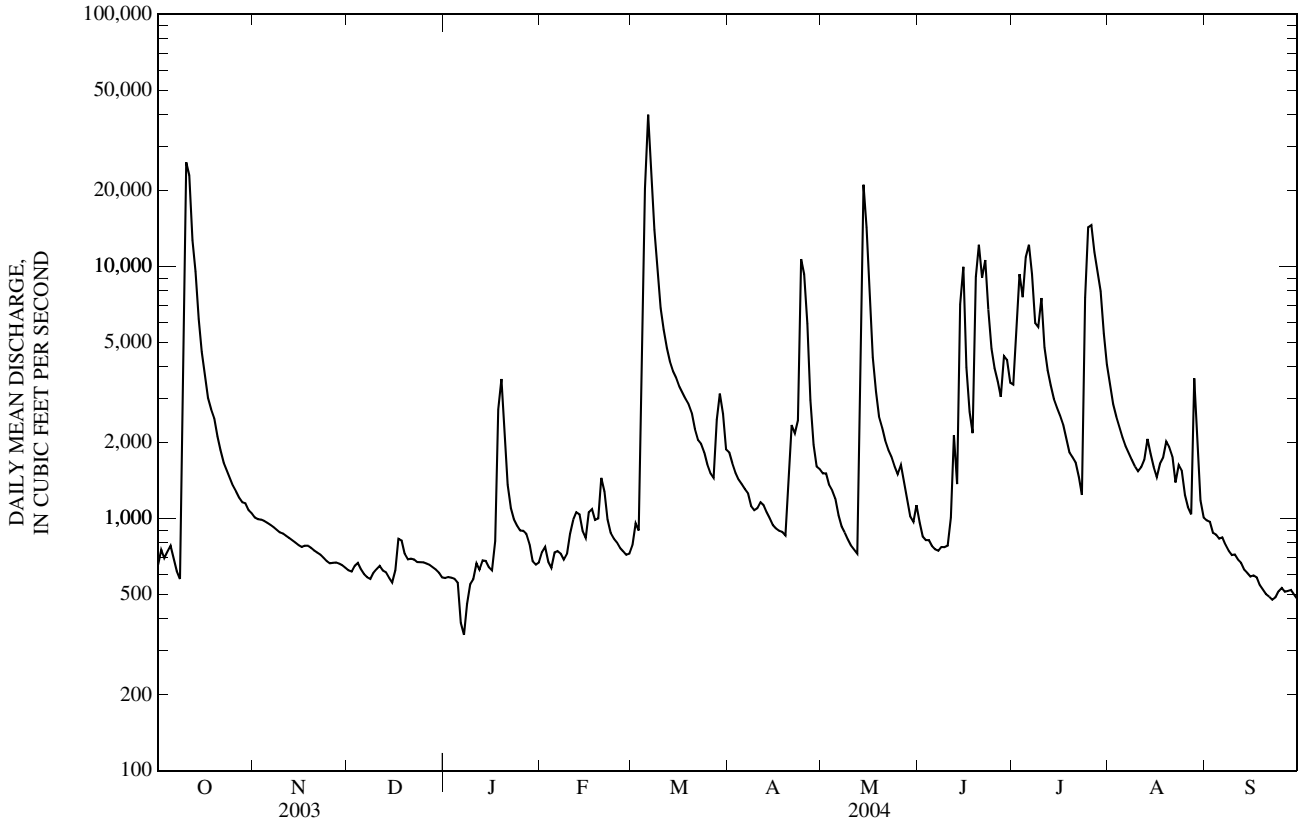
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	656	1,010	623	581	737	784	1,830	1,510	965	3,400	3,370	983
2	753	995	616	586	773	959	1,660	1,510	850	6,130	2,850	970
3	696	990	649	583	673	897	1,520	1,360	821	9,320	2,540	879
4	741	979	667	577	638	4,440	1,430	1,290	822	7,550	2,310	863
5	780	962	630	557	733	20,400	1,370	1,200	777	10,900	2,100	832
6	694	944	602	386	743	40,000	1,310	1,030	755	12,200	1,940	842
7	619	925	585	346	725	24,900	1,260	931	745	9,340	1,820	786
8	576	902	576	458	687	14,000	1,120	880	771	5,970	1,710	746
9	8,110	881	609	550	725	10,100	1,080	827	770	5,750	1,610	717
10	25,900	872	631	575	871	6,840	1,100	782	781	7,500	1,540	720
11	23,000	854	649	665	991	5,610	1,160	754	1,010	4,780	1,600	687
12	12,700	837	622	627	1,060	4,750	1,130	725	2,140	3,870	1,710	668
13	9,550	820	612	682	1,040	4,200	1,060	3,670	1,370	3,380	2,070	627
14	6,190	802	582	679	896	3,840	1,000	21,100	7,080	2,980	1,810	609
15	4,580	785	558	641	839	3,620	943	14,300	9,970	2,760	1,600	589
16	3,650	771	624	623	1,060	3,340	912	7,900	3,980	2,560	1,460	595
17	3,010	780	832	814	1,090	3,160	894	4,360	2,650	2,360	1,650	584
18	2,710	781	819	2,710	988	2,980	885	3,190	2,180	2,080	1,740	545
19	2,500	766	725	3,580	1,000	2,840	858	2,540	9,090	1,830	2,020	522
20	2,120	747	689	2,180	1,450	2,620	1,390	2,290	12,200	1,750	1,920	501
21	1,870	733	693	1,360	1,280	2,270	2,350	2,040	9,030	1,670	1,760	490
22	1,670	719	688	1,100	993	2,050	2,180	1,870	10,600	1,460	1,390	476
23	1,560	700	672	994	876	1,980	2,450	1,760	6,750	1,240	1,630	487
24	1,450	678	671	937	833	1,830	10,700	1,610	4,720	7,510	1,550	515
25	1,350	665	670	897	804	1,640	9,320	1,500	3,950	14,300	1,240	531
26	1,280	668	663	894	766	1,510	5,930	1,630	3,500	14,600	1,110	513
27	1,210	669	655	870	742	1,450	2,950	1,410	3,040	11,400	1,040	516
28	1,160	663	641	791	718	2,470	1,960	1,200	4,410	9,540	3,600	521
29	1,150	653	628	677	725	3,130	1,610	1,020	4,260	7,970	2,210	498
30	1,080	638	610	657	---	2,600	1,570	971	3,460	5,420	1,180	480
31	1,050	---	584	669	---	1,880	---	1,130	---	4,090	1,010	---
MEAN	4,012	806	648	911	878	5,906	2,164	2,848	3,782	5,987	1,842	643
MAX	25,900	1,010	832	3,580	1,450	40,000	10,700	21,100	12,200	14,600	3,600	983
MIN	576	638	558	346	638	784	858	725	745	1,240	1,010	476
AC-FT	246,700	47,980	39,820	56,030	50,490	363,200	128,800	175,100	225,000	368,200	113,200	38,270

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

MEAN	1,705	1,407	974	890	1,246	2,102	2,374	3,005	3,643	2,650	1,616	1,544
MAX	18,890	11,550	3,908	3,673	9,658	14,600	14,780	16,890	16,040	17,190	13,320	7,870
(WY)	(1974)	(1999)	(1945)	(1949)	(1949)	(1973)	(1944)	(1993)	(1923)	(1951)	(1950)	(1951)
MIN	19.6	8.27	18.2	84.1	41.6	36.9	118	334	248	112	65.4	32.4
(WY)	(1922)	(1922)	(1922)	(1922)	(1923)	(1923)	(1923)	(1967)	(1956)	(1934)	(1934)	(1956)

07146500 ARKANSAS RIVER AT ARKANSAS CITY, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1903 - 2004	
ANNUAL MEAN	1,979		2,552		1,931	
HIGHEST ANNUAL MEAN					5,830	
LOWEST ANNUAL MEAN					366	
HIGHEST DAILY MEAN	30,400	Mar 21	40,000	Mar 6	79,700	Nov 3, 1998
LOWEST DAILY MEAN	204	Aug 27	346	Jan 7	4.0	Oct 23, 1921
ANNUAL SEVEN-DAY MINIMUM	223	Aug 22	493	Jan 4	5.6	Nov 5, 1921
MAXIMUM PEAK FLOW			43,000	Mar 6	103,000	Jun 10, 1923
MAXIMUM PEAK STAGE			21.43	Mar 6	28.89	Nov 3, 1998
INSTANTANEOUS LOW FLOW			265	Jan 6	1.0	Oct 9, 1921
ANNUAL RUNOFF (AC-FT)	1,433,000		1,853,000		1,399,000	
10 PERCENT EXCEEDS	4,650		6,150		4,090	
50 PERCENT EXCEEDS	832		1,060		910	
90 PERCENT EXCEEDS	416		611		284	



ARKANSAS RIVER BASIN

07147070 WHITEWATER RIVER AT TOWANDA, KS

LOCATION.--Lat 37°47'45", long 97°00'45", in SE 1/4 SW 1/4 SE 1/4 sec.8, T.26 S., R.4 E., Butler County, Hydrologic Unit 11030017, on right bank at downstream side of bridge on Kansas Highway 254, 0.5 mi west of Towanda, 2.4 mi downstream from West Branch, and at mile 17.5.

DRAINAGE AREA.--426 mi².

PERIOD OF RECORD.--Annual maximum, water years 1960-61. October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,231.47 ft above NGVD of 1929 (levels by Kansas State Highway Commission). Prior to Oct. 1, 1961, crest-stage gage at same site at datum 5.22 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1944 reached a stage of 28.6 ft from floodmark.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	2100	*14,800	24.83	Jun 28	1900	4,520	15.06
Mar 5	1600	10,500	23.81	Jul 2	1200	5,970	17.78
May 13	2200	5,410	18.97	Jul 5	1300	3,620	13.22
Jun 13	1700	3,120	12.12	Jul 6	1900	2,850	11.50
Jun 15	2100	3,560	13.08	Jul 10	0000	6,200	18.20
Jun 18	2200	2,390	10.37	Jul 25	0200	14,200	*25.04

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	39	40	35	43	98	121	55	30	211	189	52
2	52	40	40	35	47	108	101	56	29	4,470	166	48
3	100	40	44	36	e46	97	85	53	29	1,190	147	47
4	132	43	47	35	49	2,010	76	45	28	987	129	48
5	66	42	46	34	48	8,910	71	42	27	2,670	115	43
6	49	43	44	29	47	5,540	69	39	28	2,020	104	42
7	43	43	42	33	e47	1,590	70	44	28	1,090	98	41
8	86	41	42	32	e47	820	68	41	28	345	95	40
9	10,000	40	43	32	e48	410	67	37	30	2,370	90	39
10	10,800	41	44	32	e52	284	69	35	34	2,640	91	38
11	2,470	42	43	33	58	221	70	35	37	399	109	38
12	1,120	43	43	34	66	187	65	34	33	208	137	38
13	463	41	44	34	65	159	61	3,330	1,580	153	103	37
14	256	40	44	34	59	139	59	3,940	530	119	90	33
15	190	41	44	34	89	128	57	828	1,320	102	83	36
16	144	41	43	34	116	118	55	325	817	90	88	36
17	112	46	40	47	98	107	53	208	173	80	112	32
18	95	47	38	246	151	99	51	163	1,010	73	92	31
19	82	45	37	171	337	89	50	143	1,040	69	83	30
20	73	44	36	98	335	83	78	107	312	65	95	30
21	64	45	37	69	222	75	77	81	746	61	99	30
22	59	44	38	57	148	69	62	66	992	58	86	30
23	53	44	39	52	105	67	e64	62	288	1,720	97	e31
24	50	46	39	49	85	67	e110	49	168	10,000	108	e31
25	45	44	39	50	72	66	e106	49	111	11,800	86	e30
26	43	44	39	e48	63	67	e100	43	83	3,690	68	e30
27	44	44	39	e45	58	98	83	44	74	1,040	62	e29
28	44	41	39	e43	55	915	67	40	2,550	493	150	e29
29	42	40	37	e40	58	503	56	39	1,080	329	80	29
30	40	40	36	e42	---	231	51	35	322	273	61	26
31	40	---	35	e43	---	155	---	31	---	223	54	---
MEAN	868	42.5	40.7	52.8	93.6	758	72.4	326	452	1,582	102	35.8
MAX	10,800	47	47	246	337	8,910	121	3,940	2,550	11,800	189	52
MIN	40	39	35	29	43	66	50	31	27	58	54	26
AC-FT	53,390	2,530	2,500	3,250	5,380	46,630	4,310	20,030	26,890	97,270	6,280	2,130

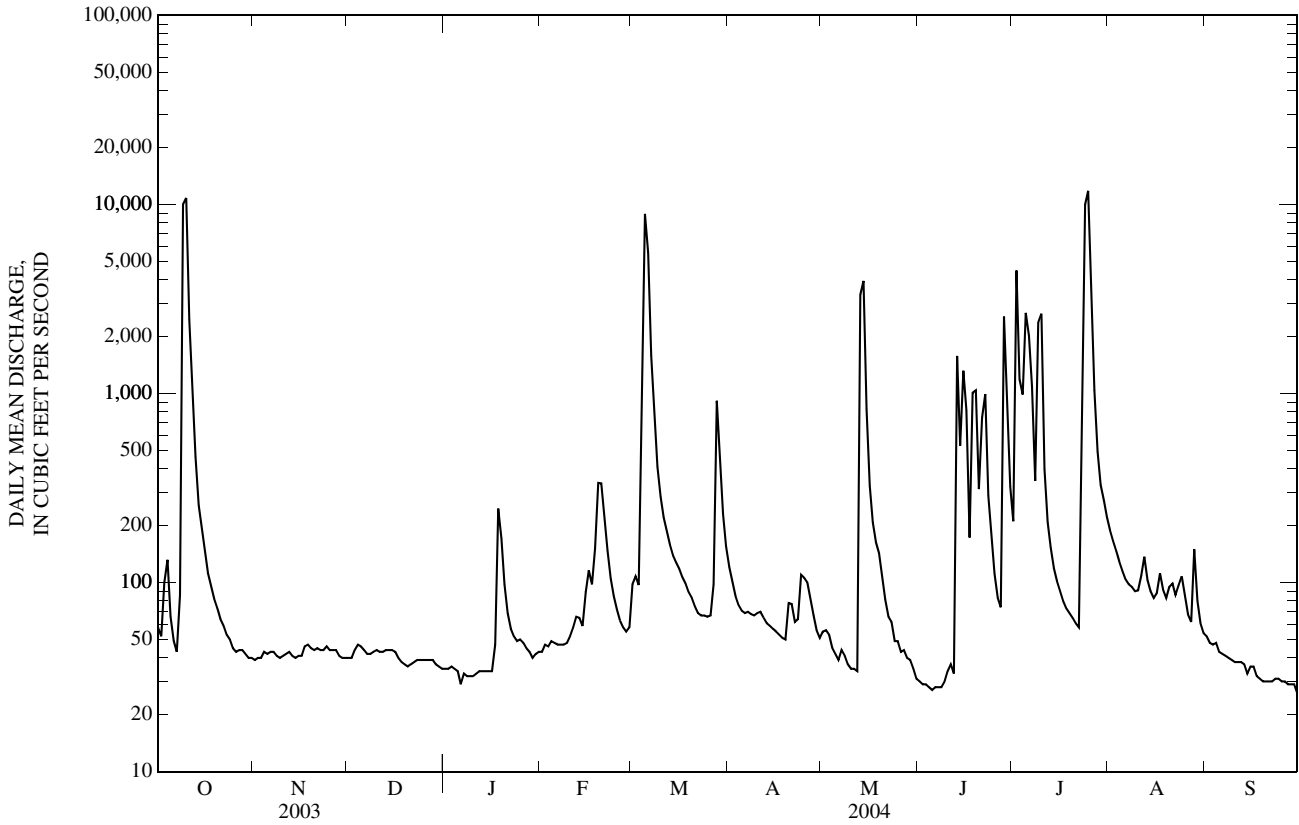
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	177	196	94.6	64.1	139	253	245	326	514	241	104	134
MAX	1,797	3,494	508	401	850	1,933	1,123	2,097	2,467	1,582	1,436	1,599
(WY)	(1986)	(1999)	(1993)	(1962)	(2001)	(1973)	(1999)	(1995)	(1995)	(2004)	(1995)	(1965)
MIN	0.74	2.34	4.34	6.20	5.31	4.77	8.29	3.55	10.4	6.35	4.24	1.11
(WY)	(1992)	(1981)	(1967)	(1967)	(1967)	(1967)	(1967)	(1967)	(1972)	(1980)	(1966)	(1980)

07147070 WHITEWATER RIVER AT TOWANDA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL MEAN	250		373		207	
HIGHEST ANNUAL MEAN					682	1999
LOWEST ANNUAL MEAN					21.3	1981
HIGHEST DAILY MEAN	10,800	Oct 10	11,800	Jul 25	49,400	Nov 1, 1998
LOWEST DAILY MEAN	4.2	Aug 28	26	Sep 30	0.30	Oct 20, 1972
ANNUAL SEVEN-DAY MINIMUM	4.7	Aug 22	28	Jun 2	0.47	Oct 20, 1991
MAXIMUM PEAK FLOW			14,800	Oct 9	80,600	Nov 1, 1998
MAXIMUM PEAK STAGE			24.83	Oct 9	30.54	Nov 1, 1998
INSTANTANEOUS LOW FLOW			25	Jun 6	0.20	Jul 14, 1966
ANNUAL RUNOFF (AC-FT)	180,700		270,600		150,000	
10 PERCENT EXCEEDS	276		511		250	
50 PERCENT EXCEEDS	40		58		36	
90 PERCENT EXCEEDS	13		34		8.0	

e Estimated



ARKANSAS RIVER BASIN

07147800 WALNUT RIVER AT WINFIELD, KS

LOCATION.--Lat 37°13'26", long 96°59'45", in SW ¼ SW ¼ NE ¼ sec.33, T.32 S., R.4 E., Cowley County, Hydrologic Unit 11030018, on left bank at upstream side of bridge on U.S. Highway 77, 1.0 mi south of Winfield, 1.0 mi upstream from Black Crook Creek, and at mile 25.4.

DRAINAGE AREA.--1,880 mi².

PERIOD OF RECORD.--October 1921 to current year. October to November 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 607: 1923(M), WDR KS-82-1: Drainage area. WSP 1241: 1922(M), 1923, 1926-27, 1928-29(M), 1934, 1940-41.

GAGE.--Water-stage recorder. Datum of gage is 1,082.86 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Oct. 1, 1934, nonrecording gage on upstream side of former bridge just upstream from present gage at same datum.

REMARKS.--Records good. Some regulation at low flow by City Water Works Dam and Timber Creek Reservoir upstream from station. Flow moderately regulated since 1981 by El Dorado Lake (station 07146622). Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 11	1515	25,600	22.36	Jul 3	1620	11,000	11.78
Mar 6	1345	25,200	22.08	Jul 5	0420	13,000	13.32
Apr 24	0000	16,200	15.77	Jul 10	0820	11,600	12.26
May 15	0545	*26,600	*22.99	Jul 26	0420	18,200	17.17

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

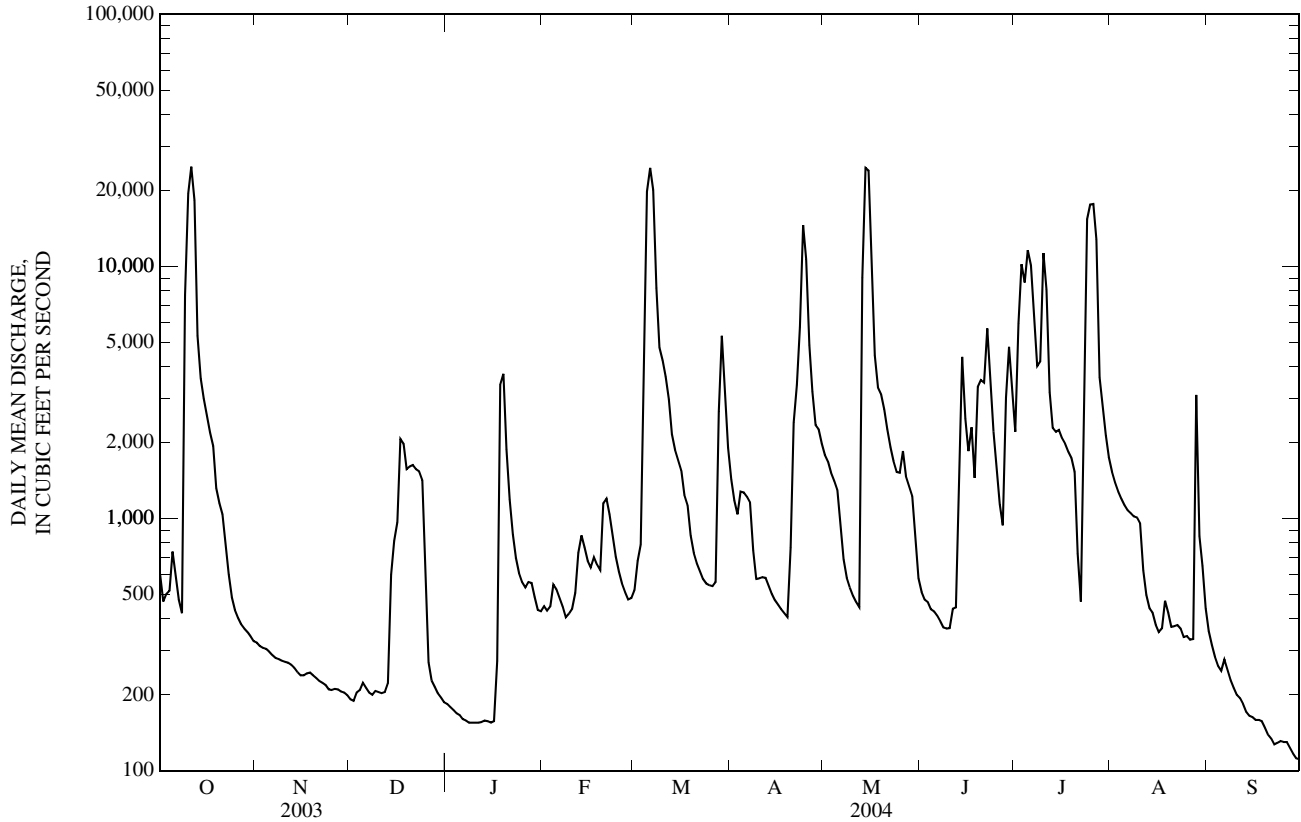
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	602	322	192	184	449	520	1,430	1,790	511	2,210	1,530	358
2	469	312	189	179	431	679	1,180	1,680	477	5,950	1,390	315
3	502	307	204	174	448	788	1,040	1,520	466	10,200	1,280	283
4	518	304	209	169	547	6,690	1,280	1,410	437	8,640	1,200	260
5	739	296	223	166	523	19,800	1,270	1,300	428	11,600	1,130	249
6	589	287	213	160	484	24,600	1,220	913	412	10,100	1,080	276
7	477	280	204	158	447	20,100	1,160	689	391	6,410	1,050	251
8	421	277	200	155	406	8,220	748	582	370	4,030	1,020	229
9	7,680	273	207	155	420	4,770	576	533	366	4,200	1,010	213
10	19,500	270	205	155	438	4,240	579	494	368	11,300	958	200
11	24,900	268	203	155	508	3,650	585	467	439	8,100	622	194
12	18,300	263	205	156	731	2,970	582	445	444	3,170	498	184
13	5,310	256	222	158	857	2,160	541	9,020	1,010	2,290	441	171
14	3,600	246	599	157	769	1,870	502	24,600	4,380	2,210	424	165
15	2,990	239	814	155	679	1,710	474	24,000	2,490	2,250	379	163
16	2,550	239	967	157	640	1,550	455	8,590	1,850	2,080	355	159
17	2,200	243	2,070	272	703	1,240	437	4,440	2,300	1,980	367	159
18	1,940	245	1,980	3,390	657	1,130	421	3,310	1,450	1,840	472	157
19	1,320	239	1,570	3,750	624	858	407	3,120	3,330	1,740	423	148
20	1,150	233	1,610	1,880	1,150	730	768	2,710	3,540	1,530	372	139
21	1,040	227	1,630	1,190	1,200	665	2,400	2,260	3,460	725	374	134
22	780	223	1,570	865	1,040	617	3,390	1,920	5,680	469	378	127
23	602	219	1,540	698	843	575	5,750	1,690	3,730	4,480	366	129
24	486	210	1,420	606	707	552	14,600	1,530	2,210	15,400	339	131
25	434	209	550	559	615	544	10,700	1,520	1,630	17,600	342	130
26	403	211	269	533	553	539	4,880	1,850	1,140	17,700	331	130
27	381	210	228	560	510	559	3,190	1,470	940	12,800	333	123
28	366	206	215	555	478	2,660	2,350	1,340	3,020	3,630	3,090	117
29	355	204	203	489	484	5,310	2,260	1,230	4,800	2,810	852	112
30	341	199	195	434	---	3,000	1,980	817	3,320	2,140	649	111
31	326	---	187	429	---	1,910	---	580	---	1,750	441	---
MEAN	3,267	251	655	607	632	4,039	2,238	3,478	1,846	5,849	758	184
MAX	24,900	322	2,070	3,750	1,200	24,600	14,600	24,600	5,680	17,700	3,090	358
MIN	326	199	187	155	406	520	407	445	366	469	331	111
AC-FT	200,900	14,910	40,250	37,300	36,380	248,300	133,200	213,900	109,900	359,700	46,600	10,940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2004, BY WATER YEAR (WY)

MEAN	731	716	423	351	526	1,023	1,378	1,575	1,837	1,013	459	585
MAX	6,877	11,710	3,313	2,633	3,631	8,777	10,080	10,320	11,710	9,335	4,492	4,782
(WY)	(1987)	(1999)	(1945)	(1949)	(1949)	(1973)	(1944)	(1993)	(1995)	(1951)	(1950)	(1965)
MIN	0.00	0.84	4.12	4.33	7.10	8.73	8.87	4.50	23.9	3.90	0.00	0.00
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1955)	(1956)	(1933)	(1936)	(1936)	(1954)

07147800 WALNUT RIVER AT WINFIELD, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1922 - 2004	
ANNUAL MEAN	1,426		2,000		885	
HIGHEST ANNUAL MEAN					2,948	1999
LOWEST ANNUAL MEAN					26.2	1954
HIGHEST DAILY MEAN	24,900	Oct 11	24,900	Oct 11	85,200	Nov 2, 1998
LOWEST DAILY MEAN	54	Aug 26	111	Sep 30	0.00	Nov 11, 1928
ANNUAL SEVEN-DAY MINIMUM	57	Aug 22	122	Sep 24	0.00	Jul 27, 1936
MAXIMUM PEAK FLOW			26,600	May 15	105,000	Apr 23, 1944
MAXIMUM PEAK STAGE			22.99	May 15	38.30	Apr 23, 1944
INSTANTANEOUS LOW FLOW			110	Sep 29	0.00	at times
ANNUAL RUNOFF (AC-FT)	1,032,000		1,452,000		641,100	
10 PERCENT EXCEEDS	2,990		4,400		1,730	
50 PERCENT EXCEEDS	369		582		172	
90 PERCENT EXCEEDS	117		188		24	



07149000 MEDICINE LODGE RIVER NEAR KIOWA, KS

LOCATION.--Lat 37°02'21", long 98°28'12", in SE 1/4 SW 1/4 sec.36, T.34 S., R.11 W., Barber County, Hydrologic Unit 11060003, on right bank at downstream side of bridge on Kansas Highway 14, 200 ft downstream from the Atchison, Topeka and Santa Fe Railway Co. bridge, 1.5 mi northeast of Kiowa, and at mile 22.2.

DRAINAGE AREA.--903 mi².

PERIOD OF RECORD.--May 1895 to October 1896, October 1937 to September 1950, October 1954 to September 1955, June 1959 to current year. Published as Medicine River near Kiowa 1895-96. All figures of discharge above 2,000 ft³/s for June and July 1896, published in Eighteenth Annual Report of the Geological Survey (Part 4), have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1391: 1938(M), 1942(M). WSP 1921: Drainage area. See also "PERIOD OF RECORD."

GAGE.--Water-stage recorder. Datum of gage is 1,286.99 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). May 1895 to October 1896, nonrecording gage at site 2.0 mi upstream at different datum. Feb. 11 to Mar. 2, 1938, nonrecording gage and Mar. 3, 1938, to Sept. 30, 1944, water-stage recorder at present site and datum 3.00 ft higher. Oct. 1, 1944, to Sept. 30, 1950, and Oct. 1, 1954, to Sept. 30, 1955, water-stage recorder at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of May 8, 1922, and June 1957 reached stages of about 16 ft and 15.5 ft, respectively, present site and datum, from the Atchison, Topeka and Santa Fe Railway Co. records and information by local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 6	0000	*2,730	*6.60	No peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	79	90	93	102	134	156	153	49	93	34	24
2	67	80	88	88	93	141	154	157	46	97	27	23
3	67	83	90	87	e88	148	150	147	51	64	21	23
4	69	84	91	88	e98	625	146	137	63	57	19	19
5	69	88	91	73	e95	2,480	144	133	79	60	20	18
6	69	88	91	52	e95	1,850	143	129	102	75	20	18
7	66	89	94	67	95	622	142	123	122	191	18	17
8	76	92	93	86	98	385	142	116	77	132	17	17
9	491	91	98	98	127	305	144	111	67	86	20	16
10	345	90	99	102	137	268	161	107	66	70	19	15
11	163	92	100	111	156	241	172	105	65	60	29	14
12	123	93	83	113	140	213	165	103	58	50	28	12
13	107	91	78	104	117	197	152	375	52	42	28	10
14	97	90	105	99	115	188	143	572	47	35	25	8.2
15	92	89	138	95	124	182	138	233	44	30	23	7.1
16	88	89	142	92	118	178	136	164	42	28	24	7.2
17	87	90	127	120	113	172	133	135	46	27	23	7.3
18	83	91	123	157	112	172	130	120	239	26	19	6.5
19	81	91	124	140	116	165	130	108	329	24	18	5.9
20	80	89	116	123	120	161	216	97	189	20	20	5.3
21	80	89	111	119	116	155	190	86	271	17	26	6.1
22	80	89	108	116	112	153	202	80	170	15	21	8.1
23	79	89	105	111	110	147	230	74	108	17	51	25
24	77	90	101	106	106	147	573	67	84	34	96	38
25	75	92	100	105	103	152	318	62	70	50	80	43
26	76	91	98	101	102	156	234	61	61	43	46	35
27	77	93	97	85	102	160	197	61	57	39	31	32
28	77	92	98	89	104	272	176	60	58	34	24	30
29	77	91	94	85	112	236	162	54	71	36	21	30
30	77	91	90	77	---	187	154	55	70	40	23	32
31	78	---	92	85	---	161	---	52	---	39	21	---
MEAN	105	89.2	102	98.9	111	347	181	130	95.1	52.6	28.8	18.4
MAX	491	93	142	157	156	2,480	573	572	329	191	96	43
MIN	66	79	78	52	88	134	130	52	42	15	17	5.3
AC-FT	6,430	5,310	6,260	6,080	6,400	21,330	10,780	8,010	5,660	3,240	1,770	1,100

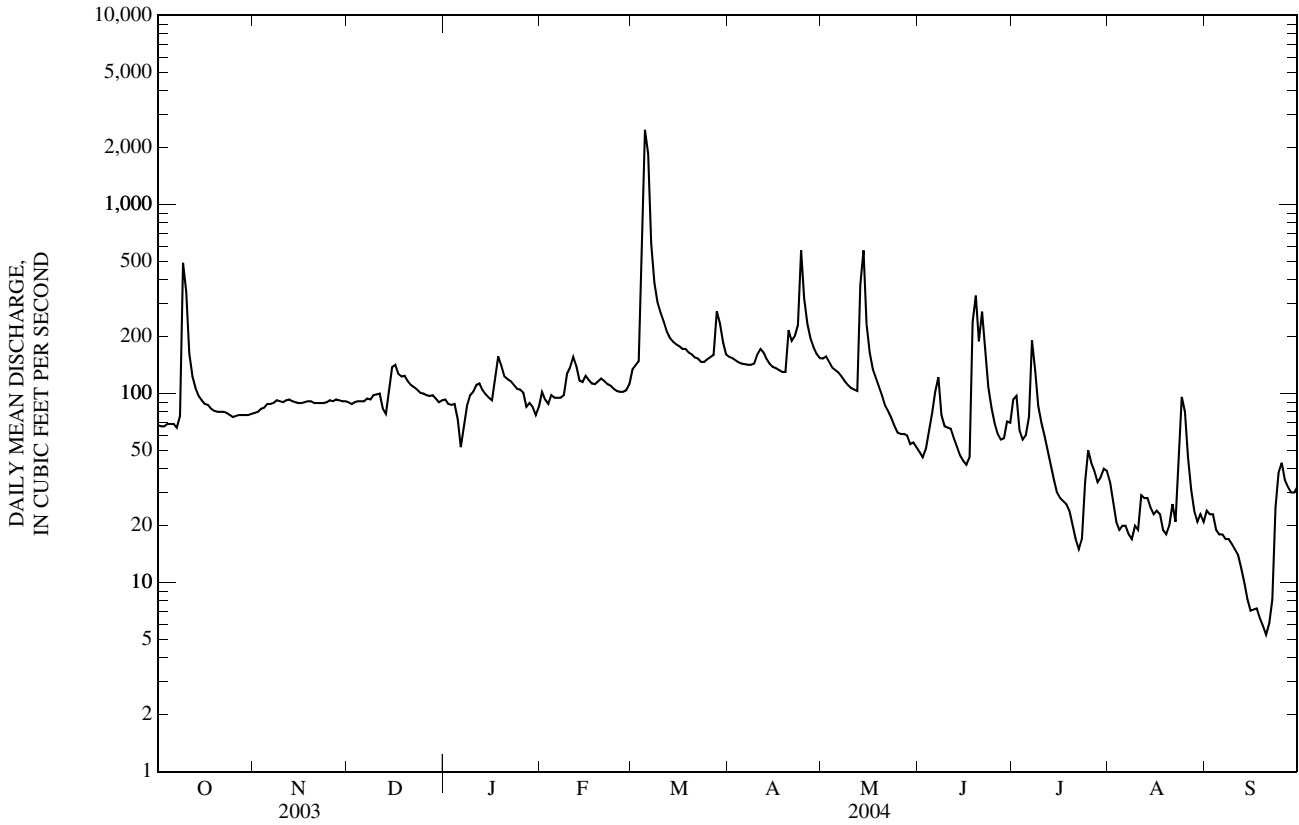
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

	145	119	104	108	135	190	225	269	239	112	105	107
MEAN	145	119	104	108	135	190	225	269	239	112	105	107
MAX	1,083	627	334	322	913	932	1,032	1,549	1,226	588	970	887
(WY)	(1942)	(1997)	(1997)	(1998)	(1949)	(1987)	(1973)	(1938)	(1949)	(1996)	(1996)	(1949)
MIN	0.00	0.00	2.45	0.00	31.0	42.5	38.6	26.5	26.3	0.88	0.00	0.00
(WY)	(1940)	(1940)	(1940)	(1940)	(1955)	(1955)	(1955)	(1963)	(1972)	(1946)	(1946)	(1939)

07149000 MEDICINE LODGE RIVER NEAR KIOWA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL MEAN	135		113		153	
HIGHEST ANNUAL MEAN					494	1949
LOWEST ANNUAL MEAN					36.5	1964
HIGHEST DAILY MEAN	1,660	Mar 20	2,480	Mar 5	9,660	Oct 22, 1941
LOWEST DAILY MEAN	0.22	Aug 26	5.3	Sep 20	0.00	Jul 7, 1939
ANNUAL SEVEN-DAY MINIMUM	0.31	Aug 20	6.5	Sep 15	0.00	Jul 7, 1939
MAXIMUM PEAK FLOW			2,730	Mar 6	16,000	Oct 22, 1941
MAXIMUM PEAK STAGE			6.60	Mar 6	12.10	Oct 12, 1973
INSTANTANEOUS LOW FLOW			4.8	Sep 20	0.00	at times
ANNUAL RUNOFF (AC-FT)	98,010		82,350		111,000	
10 PERCENT EXCEEDS	211		172		267	
50 PERCENT EXCEEDS	101		91		87	
90 PERCENT EXCEEDS	7.5		21		14	

e Estimated



07151500 CHIKASKIA RIVER NEAR CORBIN, KS

LOCATION.--Lat 37°07'44", long 97°36'04", in NW ¼ SW ¼ SW ¼ sec.36, T.33 S., R.3 W., Sumner County, Hydrologic Unit 11060005, on right bank at downstream side of bridge on Kansas Highway 49, 1 mi upstream from Prairie Creek, 3 mi west of Corbin, and at mile 67.5.

DRAINAGE AREA.--794 mi².

PERIOD OF RECORD.--August 1950 to September 1965, October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,108.00 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Mar. 23, 1951, wire-weight gage at same 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 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	1400	4,730	9.06	May 13	1900	*16,500	*15.33
Mar 5	0900	13,700	14.15	Jul 2	1500	4,760	9.09
Apr 20	1400	3,690	8.06	Jul 24	1300	4,420	8.78
Apr 24	0400	8,600	11.66				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	113	110	127	e150	212	345	383	130	172	258	99
2	145	116	104	127	e140	226	330	365	122	2,900	239	100
3	142	120	113	128	e130	201	319	339	130	1,220	219	95
4	149	121	108	125	e140	2,980	308	317	134	452	202	91
5	136	123	105	98	e130	10,800	300	305	162	343	191	89
6	120	120	102	e90	e120	3,040	296	291	298	494	184	89
7	112	120	105	e110	e110	1,800	293	274	222	599	175	88
8	119	122	112	e120	153	1,120	290	260	149	400	170	84
9	2,990	120	123	e115	190	827	288	250	132	395	168	82
10	902	120	e127	e120	205	702	316	245	395	333	423	78
11	387	124	e124	e125	238	622	353	244	339	269	312	75
12	280	124	e125	e130	306	565	334	241	164	229	242	72
13	237	117	110	137	240	528	293	7,910	122	202	219	70
14	233	112	125	128	291	500	271	e3,900	105	180	229	66
15	201	114	166	122	446	473	262	e1,540	94	169	184	65
16	194	113	171	122	352	455	258	e903	89	160	167	65
17	182	114	148	210	270	440	254	e640	288	145	162	65
18	173	113	143	1,040	284	424	248	e516	581	135	159	65
19	166	110	138	454	276	406	246	e465	630	120	174	64
20	160	108	141	269	273	392	2,000	e434	1,060	104	168	60
21	151	106	144	230	214	373	765	e390	1,440	93	161	61
22	138	105	142	214	186	357	478	e357	811	86	156	64
23	136	105	142	202	183	350	2,480	e325	326	102	151	76
24	137	105	142	197	177	342	5,610	e276	233	3,230	168	82
25	134	107	140	197	174	337	1,330	e229	202	1,230	151	82
26	128	117	141	199	170	339	653	e198	174	506	134	81
27	127	119	141	133	168	367	505	e187	162	370	120	77
28	132	113	136	e110	168	1,640	446	174	208	321	111	73
29	129	112	133	e100	177	718	405	158	159	325	104	71
30	125	113	130	e110	---	443	383	151	140	329	101	73
31	117	---	127	e120	---	374	---	157	---	283	102	---
MEAN	279	115	130	184	209	1,044	689	723	307	513	184	76.7
MAX	2,990	124	171	1,040	446	10,800	5,610	7,910	1,440	3,230	423	100
MIN	112	105	102	90	110	201	246	151	89	86	101	60
AC-FT	17,130	6,840	7,970	11,320	12,020	64,170	40,980	44,480	18,250	31,530	11,310	4,570

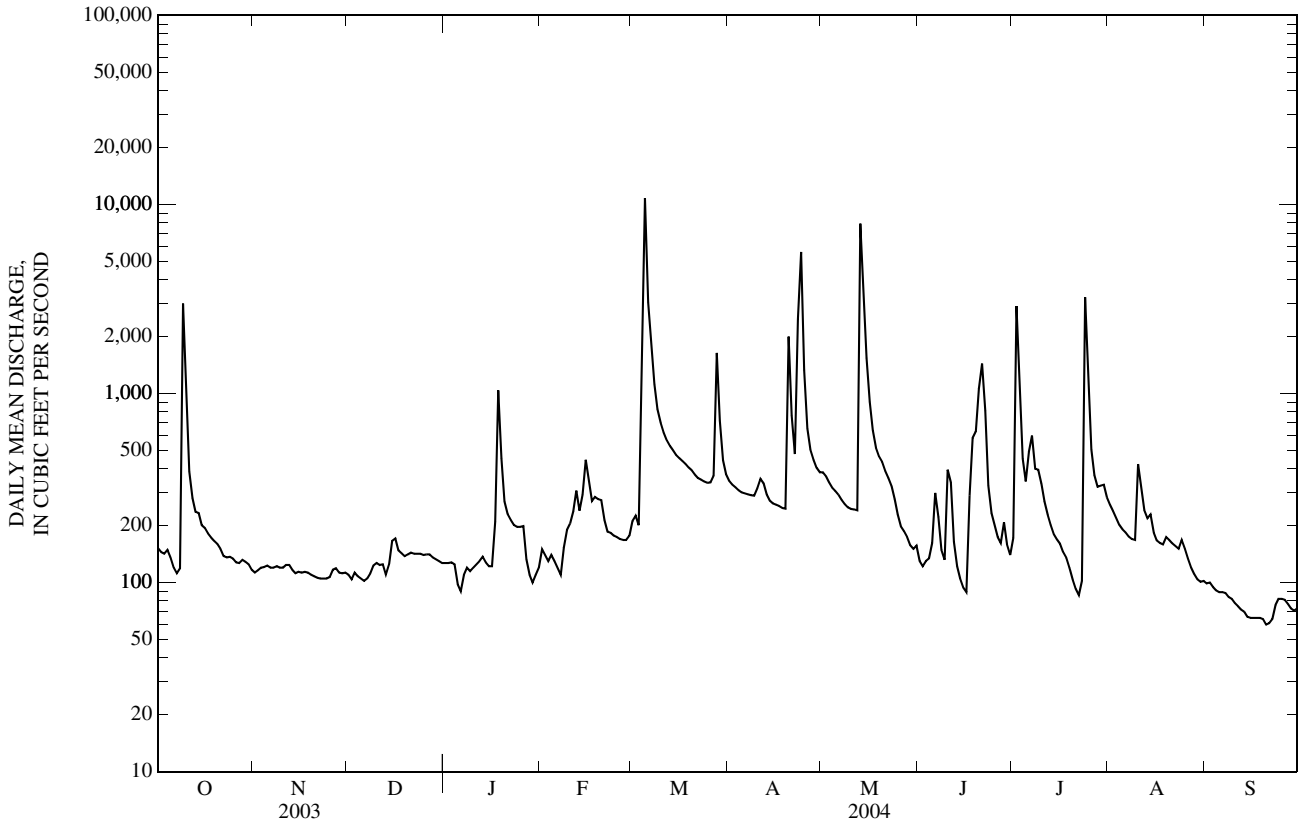
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	242	238	134	124	174	361	302	492	454	247	115	190
MAX	1,894	1,923	467	365	752	1,907	1,184	2,690	2,055	1,496	428	1,172
(WY)	(1986)	(1999)	(1998)	(1998)	(2001)	(2000)	(1999)	(1993)	(1951)	(1951)	(1997)	(1977)
MIN	0.00	0.00	13.7	15.4	30.3	32.0	26.9	24.0	12.9	0.80	0.00	0.00
(WY)	(1957)	(1957)	(1955)	(1957)	(1957)	(1955)	(1955)	(1956)	(1953)	(1954)	(1956)	(1956)

07151500 CHIKASKIA RIVER NEAR CORBIN, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL MEAN	319		373		256	
HIGHEST ANNUAL MEAN					609	1951
LOWEST ANNUAL MEAN					40.0	1954
HIGHEST DAILY MEAN	9,120	Mar 19	10,800	Mar 5	27,800	Oct 11, 1985
LOWEST DAILY MEAN	9.4	Aug 28	60	Sep 20	0.00	Jun 27, 1953
ANNUAL SEVEN-DAY MINIMUM	10	Aug 22	63	Sep 16	0.00	Sep 16, 1953
MAXIMUM PEAK FLOW			16,500	May 13	39,300	Oct 11, 1985
MAXIMUM PEAK STAGE			15.33	May 13	22.90	Nov 1, 1998
INSTANTANEOUS LOW FLOW			58	Jan 6	0.00	at times
ANNUAL RUNOFF (AC-FT)	231,100		270,600		185,600	
10 PERCENT EXCEEDS	470		520		438	
50 PERCENT EXCEEDS	138		168		99	
90 PERCENT EXCEEDS	31		100		20	

e Estimated



ARKANSAS RIVER BASIN

07155590 CIMARRON RIVER NEAR ELKHART, KS

LOCATION.--Lat 37°07'19", long 101°53'51", in NW ¼ NW ¼ NW ¼ sec.4, T.34 S., R.42 W., Morton County, Hydrologic Unit 11040002, Cimarron National Grasslands, on left bank at downstream side of bridge on Kansas Highway 27, 8.0 mi north of Elkhart, and at mile 499.4.

DRAINAGE AREA.--2,899 mi², of which 483 mi² does not contribute directly to surface runoff.

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

REVISED RECORDS.--WDR KS-84-1: 1983.

GAGE.--Water-stage recorder. Datum of gage is 3,376.89 ft above NGVD of 1929. Prior to May 25, 1999, at datum 5.0 ft higher.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 26	2100	*20	*7.51	No peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	e0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	e0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	e0.00	0.29	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	e0.00	0.01	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	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	0.02	0.00	0.00	0.00	0.10	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	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	0.01	0.02	0.01
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	0.05	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.01	0.00	0.01
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.96	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	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	0.09	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.06	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	e5.0	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e2.0	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	e0.00	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	0.01	0.00	0.30	0.01	0.02	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.06	0.10	0.03	5.0	0.09	0.29	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	0.1	0.3	0.06	18	0.3	1.0	0.04

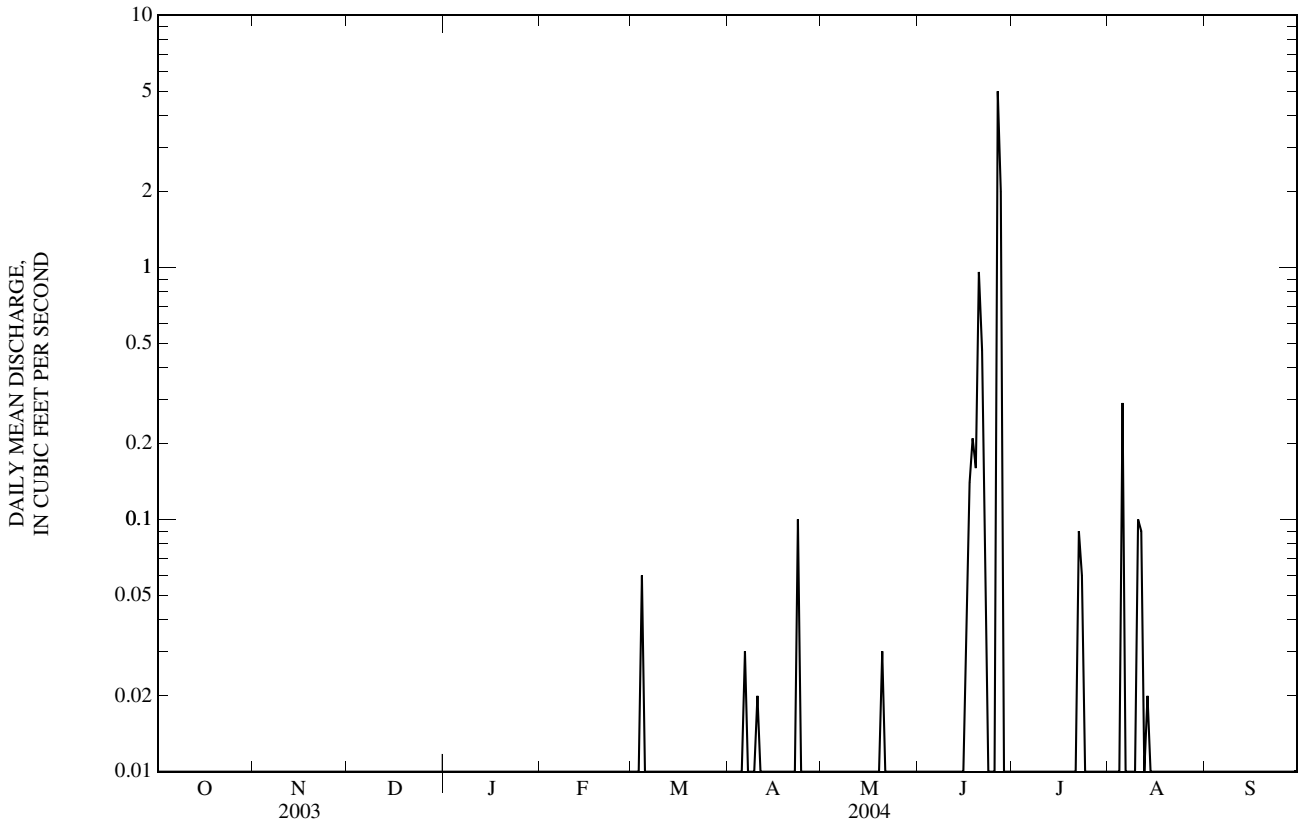
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

MEAN	0.05	0.05	0.22	0.34	0.26	0.61	5.70	31.7	25.8	12.1	28.6	7.13
MAX	1.12	1.52	6.88	10.3	7.06	16.9	107	519	368	113	239	102
(WY)	(1974)	(1998)	(1998)	(1998)	(1998)	(1998)	(1977)	(1977)	(1978)	(1977)	(1997)	(1973)
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)	(1972)	(1972)	(1972)	(1972)	(1972)	(1972)	(1972)	(1985)	(1983)	(1974)	(1978)	(1972)

07155590 CIMARRON RIVER NEAR ELKHART, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1972 - 2004	
ANNUAL MEAN	0.27		0.03		9.44	
HIGHEST ANNUAL MEAN					82.6	1977
LOWEST ANNUAL MEAN					0.00	1985
HIGHEST DAILY MEAN	45	Jun 6	5.0	Jun 26	6,190	May 26, 1977
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1971
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1971
MAXIMUM PEAK FLOW			e20	Jun 26	21,500	May 26, 1977
MAXIMUM PEAK STAGE			7.51	Jun 26	9.17	May 26, 1977
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	most years
ANNUAL RUNOFF (AC-FT)	196		20		6,840	
10 PERCENT EXCEEDS	0.00		0.00		0.94	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



ARKANSAS RIVER BASIN

07157500 CROOKED CREEK NEAR ENGLEWOOD, KS

LOCATION.--Lat 37°01'54", long 100°12'29", in SE ¼ NW ¼ sec.1, T.35 S., R.27 W., Meade County, Hydrologic Unit 11040007, on right bank at downstream side of county highway bridge, 11.5 mi west of Englewood, and at mile 14.0.

DRAINAGE AREA.--1,157 mi², of which 344 mi² is probably noncontributing.

PERIOD OF RECORD.--August 1942 to current year. Published as "near Nye" August 1942 to September 1995. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1211: 1950. WSP 1311: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 2,163.79 ft above NGVD of 1929. Prior to Sept. 12, 1942, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Extensive diversion for irrigation upstream from station. Satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 20	0645	*311	*5.93	No peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.8	6.3	6.8	7.2	7.1	9.4	10	3.8	10	4.8	4.4
2	4.4	4.8	6.5	6.7	e6.8	6.7	9.3	9.7	3.7	14	4.4	4.3
3	4.3	4.8	6.5	6.7	e7.0	8.8	9.2	9.4	3.6	11	4.2	4.2
4	4.4	4.9	6.5	6.7	7.5	14	9.2	9.3	3.4	9.7	4.2	4.1
5	4.4	5.1	6.5	e6.2	7.2	14	9.3	9.2	3.4	9.6	4.0	4.0
6	4.5	5.3	6.7	e6.4	7.0	13	9.7	9.0	3.4	11	4.9	3.9
7	4.4	5.3	6.9	e6.9	e6.5	12	9.7	8.9	3.0	9.0	5.2	3.9
8	4.7	5.3	6.8	e7.2	e6.3	11	9.5	8.8	2.7	8.4	4.9	3.8
9	4.9	5.3	7.1	7.5	6.5	9.9	10	8.7	2.6	7.9	4.6	3.7
10	4.8	5.4	7.2	7.2	6.0	9.6	11	8.6	2.6	7.5	4.5	3.7
11	4.6	5.3	7.1	7.2	6.0	8.7	10	8.6	2.2	7.0	6.0	3.6
12	4.4	5.4	6.9	7.1	6.2	8.3	10	8.4	2.0	6.5	5.4	3.5
13	4.4	6.0	8.4	7.0	e6.2	8.4	10	8.3	1.9	6.1	5.0	3.5
14	4.4	6.2	8.0	7.0	6.1	8.4	9.4	8.2	1.7	5.8	4.9	3.4
15	4.3	5.9	7.9	7.0	6.0	8.3	9.4	8.1	1.8	5.5	4.8	3.5
16	4.4	5.8	7.5	7.1	6.2	7.9	9.8	7.9	9.0	5.3	4.7	3.5
17	4.3	5.8	7.4	7.3	6.3	7.7	10	7.8	6.2	5.3	4.5	3.4
18	4.3	5.6	7.2	7.0	6.7	7.3	11	7.6	5.4	5.3	4.2	3.3
19	4.1	5.7	7.1	7.1	6.6	7.4	11	7.5	5.5	5.0	14	3.4
20	3.9	5.8	7.2	7.1	6.7	7.7	80	6.9	14	4.6	10	3.6
21	4.0	5.9	7.2	7.0	6.9	7.8	17	6.4	15	4.9	7.9	3.6
22	4.0	6.1	7.2	7.0	6.6	8.1	15	6.1	12	4.5	7.2	4.9
23	3.9	6.2	7.0	7.0	6.4	8.2	15	5.8	10	6.3	6.9	7.1
24	4.0	6.4	7.0	7.0	6.2	8.3	16	5.4	9.2	7.4	6.5	6.2
25	4.1	6.5	7.0	7.1	6.1	8.6	14	5.1	14	6.8	6.2	5.6
26	4.3	6.4	6.9	7.1	6.2	9.1	13	5.1	8.8	6.1	5.9	5.3
27	4.4	6.4	6.8	e6.8	6.3	9.7	12	4.7	8.8	5.6	5.6	5.2
28	4.5	6.3	6.7	e6.8	6.3	9.9	11	4.5	8.3	5.3	5.3	5.3
29	4.5	6.4	6.8	e7.2	7.6	9.7	10	4.2	8.1	6.1	5.1	5.4
30	4.4	6.3	7.0	e7.0	---	9.5	10	3.9	8.4	5.6	4.9	5.3
31	4.6	---	6.8	7.2	---	9.5	---	3.9	---	5.2	4.6	---
MEAN	4.35	5.71	7.04	6.98	6.54	9.18	13.3	7.29	6.15	7.04	5.65	4.29
MAX	4.9	6.5	8.4	7.5	7.6	14	80	10	15	14	14	7.1
MIN	3.9	4.8	6.3	6.2	6.0	6.7	9.2	3.9	1.7	4.5	4.0	3.3
AC-FT	268	340	433	429	376	565	793	448	366	433	348	255

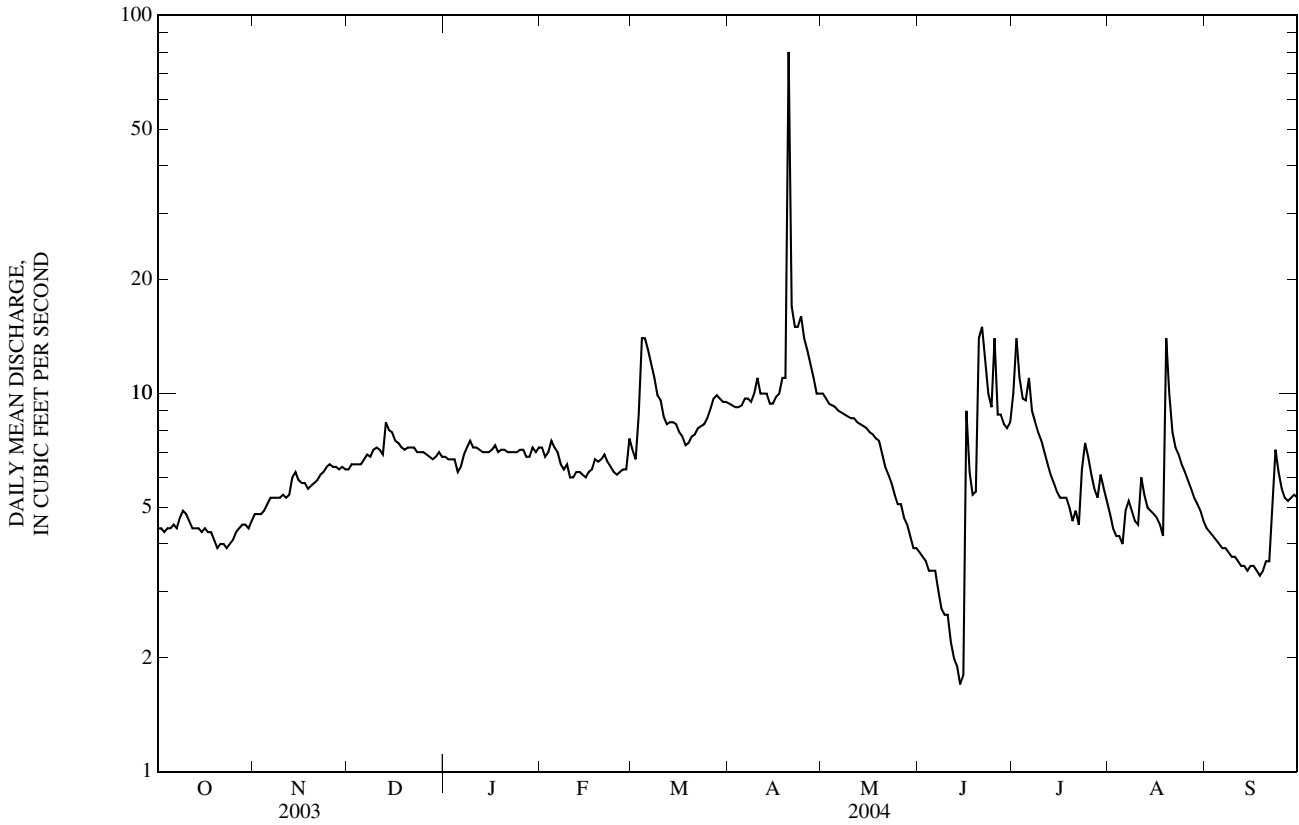
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

	24.6	17.0	14.0	14.9	16.6	25.8	37.4	71.4	38.6	32.8	29.2	25.6
MEAN	24.6	17.0	14.0	14.9	16.6	25.8	37.4	71.4	38.6	32.8	29.2	25.6
MAX	463	176	32.6	34.1	74.9	528	582	1,233	325	375	453	224
(WY)	(1950)	(1972)	(1974)	(1954)	(1949)	(1973)	(1973)	(1955)	(1949)	(1950)	(1950)	(1950)
MIN	0.00	1.22	5.13	4.98	4.47	3.48	4.74	3.71	0.60	0.00	0.00	0.00
(WY)	(1957)	(1957)	(2002)	(2002)	(2002)	(2002)	(2002)	(1956)	(1956)	(1952)	(1956)	(1943)

07157500 CROOKED CREEK NEAR ENGLEWOOD, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1943 - 2004	
ANNUAL MEAN	14.5		6.96		29.1	
HIGHEST ANNUAL MEAN					176	1951
LOWEST ANNUAL MEAN					4.48	2002
HIGHEST DAILY MEAN	1,150	May 17	80	Apr 20	12,700	May 20, 1955
LOWEST DAILY MEAN	0.70	Aug 25	1.7	Jun 14	0.00	Jul 23, 1943
ANNUAL SEVEN-DAY MINIMUM	0.94	Aug 20	2.1	Jun 9	0.00	Jul 23, 1943
MAXIMUM PEAK FLOW			311	Apr 20	13,600	May 20, 1955
MAXIMUM PEAK STAGE			5.93	Apr 20	9.00	Aug 31, 1963
INSTANTANEOUS LOW FLOW			1.3	Jun 14	0.00	most years
ANNUAL RUNOFF (AC-FT)	10,520		5,050		21,070	
10 PERCENT EXCEEDS	16		9.9		31	
50 PERCENT EXCEEDS	6.3		6.5		11	
90 PERCENT EXCEEDS	3.1		4.0		2.4	

e Estimated



07157940 BLUFF CREEK NEAR BUTTERMILK, KS

LOCATION.--Lat 37°01'55", long 99°28'45", in NW ¼ sec.3, T.35 S., R.20 W., Comanche County, Hydrologic Unit 11040008, near left bank of county highway bridge, 2.2 mi north of Kansas-Oklahoma State line, 11.3 mi southwest of Buttermilk, and at mile 0.3.

DRAINAGE AREA.--657 mi², of which 76 mi² is probably noncontributing.

PERIOD OF RECORD.--September 1973 to September 1979. October 2002 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,700.33 ft above NGVD of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.57	0.36	4.5	11	e13	25	24	24	e1.3	3.0	0.46	18
2	0.54	0.38	4.8	12	e12	24	24	23	e1.2	2.9	0.43	3.6
3	0.56	0.41	5.2	12	e11	26	24	22	e1.1	2.4	0.45	1.6
4	0.51	0.41	5.3	10	e13	59	23	21	e1.1	2.1	0.41	1.1
5	0.49	0.39	5.2	7.5	e12	123	23	20	e1.0	2.3	0.43	0.96
6	0.48	0.38	4.3	6.9	e11	88	23	19	e0.95	3.7	0.49	0.81
7	0.46	0.41	6.6	5.9	e10	57	24	18	e0.89	3.1	0.66	0.72
8	0.54	0.47	6.8	6.2	e14	47	24	16	e0.83	2.6	0.49	0.68
9	0.55	0.60	7.1	19	e20	46	24	15	e0.79	2.5	0.45	0.66
10	0.45	0.84	5.6	27	23	45	25	13	e0.80	2.0	0.42	0.64
11	0.39	0.95	6.0	17	23	43	26	13	e0.72	1.7	0.61	0.60
12	0.36	0.91	e6.3	13	20	36	25	12	e0.66	1.7	0.44	0.65
13	0.35	1.3	6.7	12	e19	34	24	11	e0.61	1.5	0.43	0.82
14	0.33	1.5	e7.9	11	e18	33	24	11	e0.59	1.3	0.41	0.88
15	0.32	1.6	9.3	12	21	33	24	10	e0.55	1.1	0.44	0.41
16	0.30	1.9	22	13	21	32	24	9.3	0.51	1.1	0.46	0.40
17	0.30	2.3	26	19	21	30	23	8.2	0.72	1.0	0.46	0.51
18	0.28	1.8	19	24	21	30	23	7.4	1.0	0.93	0.45	0.54
19	0.28	2.0	15	21	22	30	23	6.5	1.3	0.85	0.50	0.56
20	0.26	2.1	16	20	22	30	38	4.7	6.9	0.80	0.49	0.59
21	0.25	2.2	17	18	22	29	36	3.4	4.2	0.81	0.43	0.64
22	0.24	2.5	15	17	21	27	30	2.7	1.6	0.82	0.43	0.79
23	0.24	2.6	14	18	21	26	33	2.2	1.4	0.93	0.46	0.87
24	0.24	2.3	13	18	20	26	39	2.1	1.4	0.82	0.43	0.78
25	0.26	3.1	14	20	20	26	35	e2.0	1.5	0.76	0.44	0.76
26	0.27	3.8	14	18	19	26	31	e2.0	1.8	0.72	0.42	0.77
27	0.27	3.9	13	15	20	26	28	e1.9	5.2	0.67	0.40	0.79
28	0.29	3.8	12	e13	20	26	27	e1.8	53	0.63	0.41	0.83
29	0.31	4.4	11	e12	22	26	25	e1.7	6.9	0.63	0.41	0.83
30	0.31	4.6	12	e10	---	24	24	e1.5	3.6	0.56	97	0.79
31	0.33	---	12	e12	---	24	---	e1.4	---	0.48	99	---
MEAN	0.37	1.81	10.9	14.5	18.3	37.3	26.7	9.90	3.47	1.50	6.75	1.42
MAX	0.57	4.6	26	27	23	123	39	24	53	3.7	99	18
MIN	0.24	0.36	4.3	5.9	10	24	23	1.4	0.51	0.48	0.40	0.40
AC-FT	22	108	668	894	1,060	2,290	1,590	609	207	92	415	84

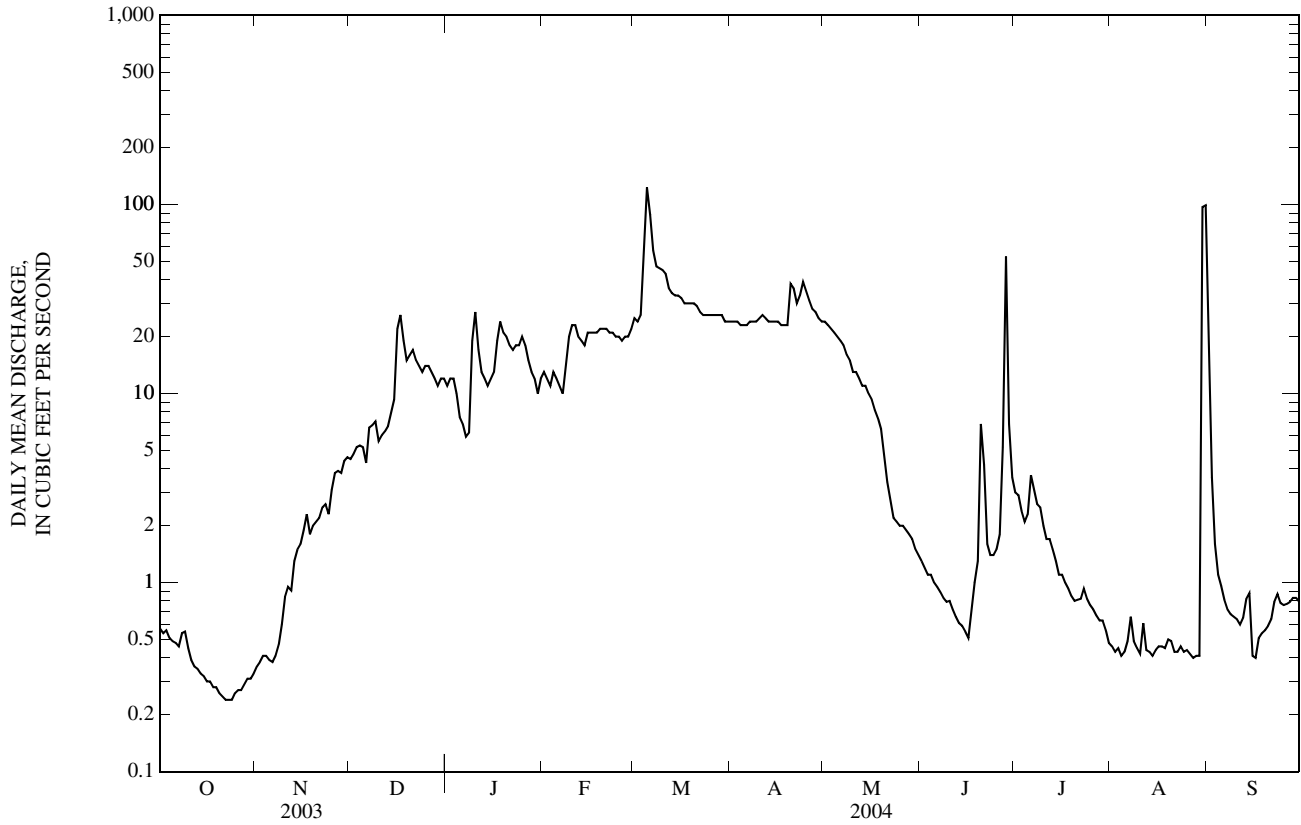
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY)

MEAN	36.5	22.5	29.8	26.8	31.5	43.0	49.0	86.8	75.4	18.5	11.4	53.8
MAX	221	83.5	112	63.6	60.7	113	142	347	324	74.0	44.0	416
(WY)	(1974)	(1974)	(1974)	(1974)	(1974)	(1974)	(1976)	(1978)	(1975)	(1975)	(1975)	(1973)
MIN	0.37	1.81	8.15	9.39	8.46	13.2	12.5	9.90	3.47	1.16	0.99	0.97
(WY)	(2004)	(2004)	(1978)	(1979)	(1978)	(1977)	(1979)	(2004)	(2004)	(2003)	(1976)	(2003)

07157940 BLUFF CREEK NEAR BUTTERMILK, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1973 - 2004	
ANNUAL MEAN	20.0		11.1		36.7	
HIGHEST ANNUAL MEAN					71.4	
LOWEST ANNUAL MEAN					11.1	
HIGHEST DAILY MEAN	114	Apr 25	123	Mar 5	6,260	Sep 26, 1973
LOWEST DAILY MEAN	0.24	Oct 22	0.24	Oct 22	0.00	Aug 6, 1977
ANNUAL SEVEN-DAY MINIMUM	0.25	Oct 20	0.25	Oct 20	0.00	Jun 26, 1979
MAXIMUM PEAK FLOW			201	Aug 30	16,000	Sep 26, 1973
MAXIMUM PEAK STAGE			9.05	Aug 30	14.35	Sep 26, 1973
INSTANTANEOUS LOW FLOW			0.20	Sep 15	0.00	Aug 6, 1977
ANNUAL RUNOFF (AC-FT)	14,480		8,030		26,560	
10 PERCENT EXCEEDS	46		26		66	
50 PERCENT EXCEEDS	15		3.8		17	
90 PERCENT EXCEEDS	0.41		0.42		0.89	

e Estimated



07166500 VERDIGRIS RIVER NEAR ALTOONA, KS

LOCATION.--Lat 37°29'25", long 95°40'47", in SE 1/4 NE 1/4 SW 1/4 sec.29, T.29 S., R.16 E., Wilson County, Hydrologic Unit 11070101, on left bank at downstream side of county highway bridge, 2.5 mi southwest of Altoona, 2.5 mi downstream from Big Cedar Creek, and at mile 227.9.

DRAINAGE AREA.--1,138 mi².

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 780.18 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Sept. 9, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable regulation since 1960 by Toronto Lake (station 07165900), 43.6 mi upstream. Diversion from Altoona Reservoir upstream from station for municipal supply of Altoona and considerable diversion for irrigation upstream from station. Satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	5.3	12	69	188	e235	2,280	1,430	1,160	3,460	97	34
2	212	6.6	14	64	402	e271	1,640	1,340	1,130	2,900	81	31
3	74	7.9	19	59	584	245	1,400	1,120	1,080	3,760	78	32
4	37	12	19	58	324	3,220	1,370	1,100	988	2,500	73	32
5	25	12	18	53	244	12,400	1,350	1,070	1,110	3,510	63	33
6	23	9.1	16	93	301	11,600	1,310	1,040	1,100	4,710	62	36
7	21	8.7	15	381	366	2,890	513	1,010	1,080	3,500	60	34
8	20	7.0	15	410	340	3,830	246	993	1,050	2,890	44	32
9	37	6.1	18	394	344	4,610	237	978	500	6,520	24	29
10	48	6.3	42	388	383	5,070	253	964	712	7,440	18	30
11	128	7.2	41	390	344	5,080	278	1,000	556	e6,000	16	31
12	281	8.9	36	388	244	4,980	275	869	307	e4,000	18	31
13	292	11	86	386	203	4,880	248	4,040	6,810	2,640	16	29
14	356	9.4	119	384	182	4,790	189	7,630	3,330	2,230	14	29
15	321	8.8	367	381	168	4,670	176	2,340	937	2,230	11	28
16	239	11	479	483	162	3,690	221	665	1,150	e2,250	11	30
17	88	39	217	1,260	156	2,070	196	985	1,080	e2,260	13	32
18	40	155	113	2,490	585	1,470	210	1,730	1,240	e2,300	12	32
19	25	38	78	1,340	951	1,440	207	5,810	1,210	e2,300	13	32
20	18	21	73	822	926	1,430	590	2,320	1,090	e2,300	16	31
21	14	17	209	974	885	1,400	2,250	1,530	2,020	2,330	17	31
22	12	62	221	1,160	885	1,370	797	1,400	1,400	3,340	29	30
23	8.0	93	330	1,030	860	1,360	1,050	1,330	1,230	3,670	31	31
24	6.4	87	181	963	844	1,360	7,150	1,280	1,250	3,660	32	33
25	6.1	81	142	1,080	830	1,340	5,160	1,040	1,250	3,600	33	32
26	5.3	45	87	1,490	819	776	899	822	809	3,510	31	31
27	4.8	22	82	1,140	811	530	975	1,070	855	3,360	37	31
28	5.9	14	174	1,010	511	3,490	1,250	1,120	2,070	1,690	37	31
29	6.3	11	131	990	204	2,810	1,170	1,170	2,450	714	54	30
30	5.3	10	95	1,020	---	1,050	1,020	1,210	2,660	682	57	30
31	5.3	---	79	564	---	1,910	---	1,170	---	297	41	---
MEAN	85.5	27.7	114	700	484	3,105	1,164	1,664	1,454	3,115	36.7	31.3
MAX	356	155	479	2,490	951	12,400	7,150	7,630	6,810	7,440	97	36
MIN	4.8	5.3	12	53	156	235	176	665	307	297	11	28
AC-FT	5,260	1,650	7,000	43,070	27,860	190,900	69,240	102,300	86,510	191,500	2,260	1,860

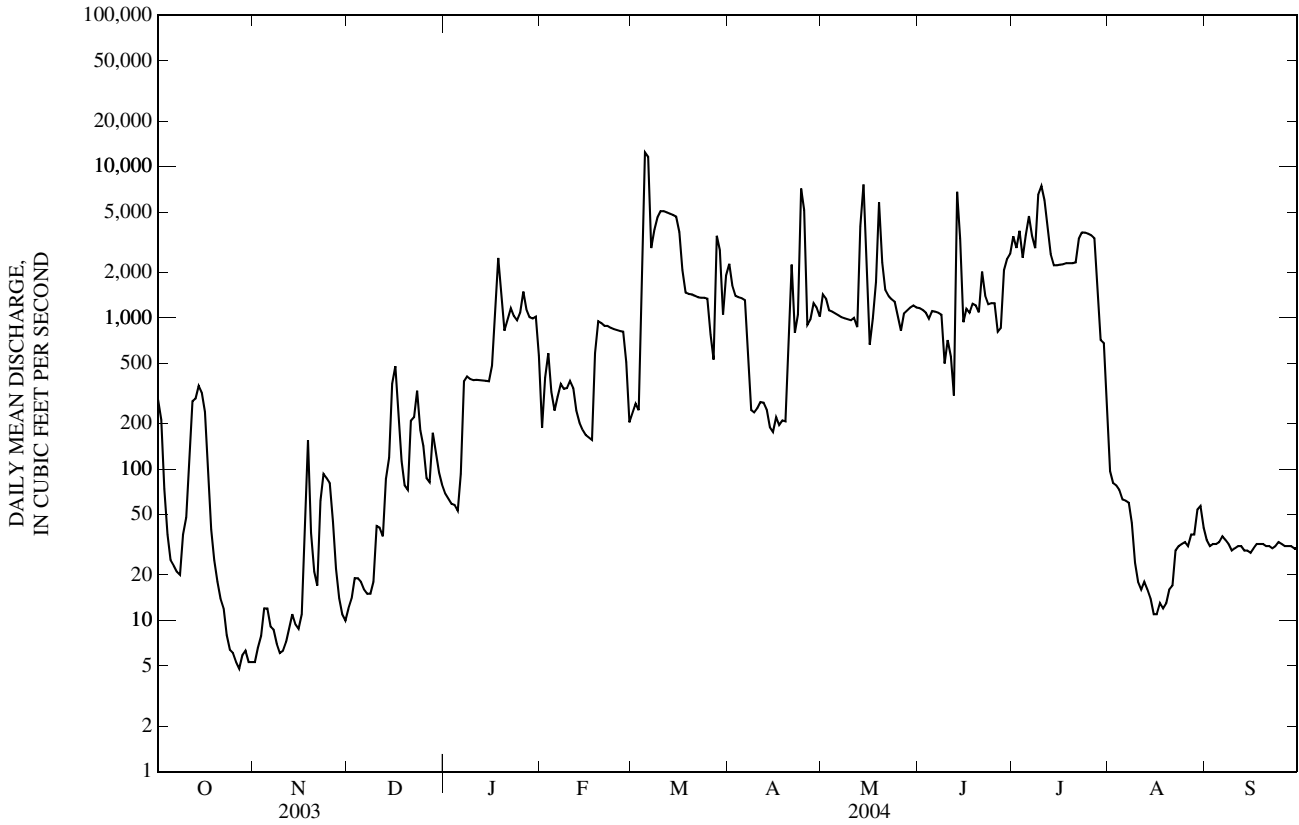
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	630	652	447	358	525	1,063	1,234	1,159	1,342	870	261	513
MAX	6,663	6,814	3,297	2,242	2,654	5,062	6,006	6,826	4,841	11,000	1,943	5,119
(WY)	(1987)	(1999)	(1993)	(1973)	(1949)	(1973)	(1944)	(1961)	(1995)	(1951)	(1985)	(1961)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.02	26.3	2.52	4.13	0.00	0.00
(WY)	(1940)	(1957)	(1956)	(1940)	(1957)	(1957)	(1956)	(1964)	(1953)	(1954)	(1953)	(1956)

07166500 VERDIGRIS RIVER NEAR ALTOONA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL MEAN	418		1,005		761	
HIGHEST ANNUAL MEAN					1,903	1951
LOWEST ANNUAL MEAN					20.9	1953
HIGHEST DAILY MEAN	7,920	Mar 20	12,400	Mar 5	57,000	Jul 13, 1951
LOWEST DAILY MEAN	0.73	Aug 25	4.8	Oct 27	0.00	Jul 22, 1939
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 21	5.5	Oct 26	0.00	Jul 25, 1939
MAXIMUM PEAK FLOW			15,000	Mar 6	71,000	Jul 12, 1951
MAXIMUM PEAK STAGE			24.37	Mar 6	31.09	Jul 12, 1951
INSTANTANEOUS LOW FLOW			4.4	Oct 27	0.00	at times
ANNUAL RUNOFF (AC-FT)	302,900		729,500		551,000	
10 PERCENT EXCEEDS	1,150		2,890		2,270	
50 PERCENT EXCEEDS	73		327		110	
90 PERCENT EXCEEDS	5.7		14		6.2	

e Estimated



ARKANSAS RIVER BASIN

07167500 OTTER CREEK AT CLIMAX, KS

LOCATION.--Lat 37°42'29", long 96°13'24", in SW ¼ SW ¼ SE ¼ sec.8, T.27 S., R.11 E., Greenwood County, Hydrologic Unit 11070102, on right bank at downstream side of bridge on Kansas Highway 99, 0.5 mi south of Climax, 5.2 mi upstream from mouth, and 5.5 mi downstream from confluence of North and South Branches.

DRAINAGE AREA.--129 mi².

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 977.76 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	1000	9,940	19.48	May 13	1600	11,400	20.95
Mar 4	1800	*23,900	*25.65	Jul 9	1645	9,710	19.23

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

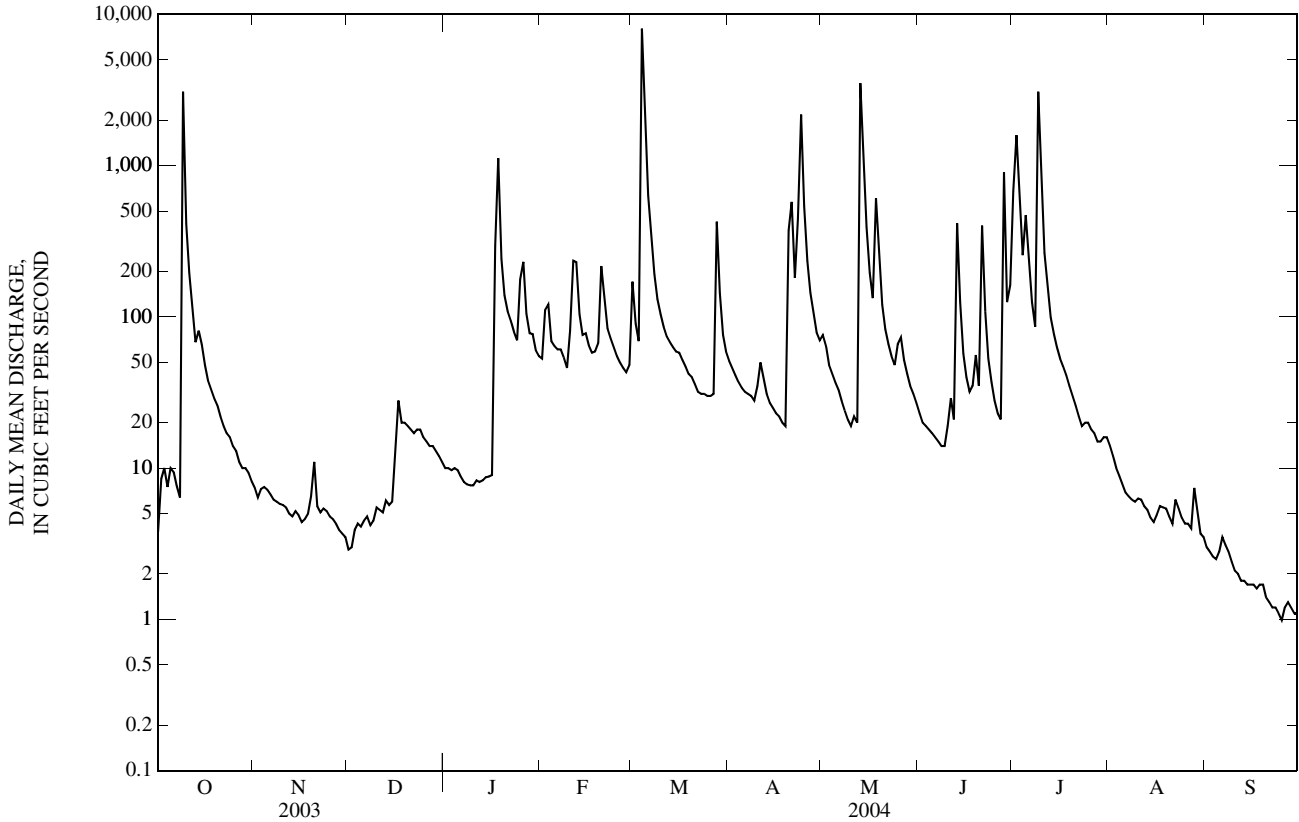
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	7.4	2.9	10	53	171	51	76	23	678	14	3.0
2	8.5	6.4	3.0	10	111	90	46	64	20	1,590	12	2.8
3	10	7.3	3.9	9.7	121	69	41	48	19	611	10	2.6
4	7.5	7.5	4.3	10	69	8,030	37	42	18	256	8.9	2.5
5	10	7.2	4.1	9.7	64	2,030	34	37	17	471	7.8	2.8
6	9.4	6.7	4.5	8.8	61	636	32	33	16	242	6.9	3.5
7	7.6	6.2	4.8	8.1	61	363	31	28	15	125	6.5	3.1
8	6.4	6.0	4.2	7.8	54	191	30	24	14	86	6.2	2.8
9	3,080	5.8	4.5	7.7	46	131	28	21	14	3,080	6.0	2.4
10	413	5.7	5.5	7.7	81	104	35	19	19	709	6.3	2.1
11	195	5.5	5.3	8.3	235	86	50	22	29	264	6.2	2.0
12	112	5.0	5.1	8.1	230	74	39	20	21	154	5.6	1.8
13	68	4.8	6.1	8.3	104	68	31	3,510	416	99	5.3	1.8
14	81	5.2	5.7	8.7	76	63	27	1,220	125	77	4.7	1.7
15	66	4.9	6.0	8.8	78	59	25	392	57	63	4.4	1.7
16	48	4.4	14	9.0	65	58	23	195	40	53	4.9	1.7
17	38	4.6	28	295	58	52	22	133	32	47	5.6	1.6
18	33	5.0	20	1,120	59	47	20	608	35	41	5.5	1.7
19	29	6.5	20	242	67	42	19	271	56	35	5.4	1.7
20	26	11	19	139	217	40	373	120	35	30	4.8	1.4
21	22	5.6	18	109	129	36	576	83	401	26	4.3	1.3
22	19	5.1	17	94	84	32	181	66	108	22	6.2	1.2
23	17	5.4	18	80	72	31	445	55	53	19	5.4	1.2
24	16	5.2	18	70	63	31	2,170	48	37	20	4.7	1.1
25	14	4.8	16	177	55	30	541	66	28	20	4.3	0.99
26	13	4.6	15	231	50	30	234	73	23	18	4.3	1.2
27	11	4.3	14	105	46	31	144	52	21	17	4.0	1.3
28	10	3.9	14	78	43	426	106	42	900	15	7.4	1.2
29	10	3.7	13	77	48	144	79	35	125	15	5.3	1.1
30	9.3	3.5	12	60	---	76	70	31	162	16	3.7	1.1
31	8.2	---	11	55	---	59	---	27	---	16	3.5	---
MEAN	142	5.64	10.9	99.1	86.2	430	185	241	96.0	288	6.13	1.88
MAX	3,080	11	28	1,120	235	8,030	2,170	3,510	900	3,080	14	3.5
MIN	3.8	3.5	2.9	7.7	43	30	19	19	14	15	3.5	0.99
AC-FT	8,730	336	668	6,090	4,960	26,440	10,990	14,800	5,710	17,680	377	112

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	53.9	83.8	42.5	38.0	66.4	125	148	135	152	74.8	19.2	54.8
MAX	644	1,068	255	235	370	689	1,325	762	857	798	200	596
(WY)	(1987)	(1999)	(1993)	(1973)	(1985)	(1973)	(1994)	(1961)	(1951)	(1976)	(1995)	(1961)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.96	0.09	0.00	0.00	0.00
(WY)	(1954)	(1954)	(1954)	(1954)	(1954)	(1956)	(1981)	(1996)	(1953)	(1953)	(1953)	(1953)

07167500 OTTER CREEK AT CLIMAX, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL MEAN	79.2		133		82.5	
HIGHEST ANNUAL MEAN					231	1999
LOWEST ANNUAL MEAN					0.55	1953
HIGHEST DAILY MEAN	4,120	Mar 19	8,030	Mar 4	21,700	Jul 3, 1976
LOWEST DAILY MEAN	0.26	Aug 27	0.99	Sep 25	0.00	Jun 12, 1953
ANNUAL SEVEN-DAY MINIMUM	0.29	Aug 22	1.1	Sep 24	0.00	Jun 12, 1953
MAXIMUM PEAK FLOW			23,900	Mar 4	107,000	Jul 3, 1976
MAXIMUM PEAK STAGE			25.65	Mar 4	31.47	Jul 3, 1976
INSTANTANEOUS LOW FLOW			0.92	Sep 24	0.00	at times
ANNUAL RUNOFF (AC-FT)	57,320		96,900		59,790	
10 PERCENT EXCEEDS	110		221		121	
50 PERCENT EXCEEDS	10		22		9.7	
90 PERCENT EXCEEDS	1.7		3.8		0.00	



ARKANSAS RIVER BASIN

07169500 FALL RIVER AT FREDONIA, KS

LOCATION.--Lat 37°30'30", long 95°50'00", in SW 1/4 SW 1/4 NW 1/4 sec.24, T.29 S., R.14 E., Wilson County, Hydrologic Unit 11070102, on right bank at downstream side of bridge on Kansas Highway 96, 0.8 mi upstream from Clear Creek, 1.0 mi downstream from Salt Creek, 1.0 mi south of Fredonia, and at mile 25.3.

DRAINAGE AREA.--827 mi².

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October and November 1938, published in WSP 1311. Published as "near Fredonia" 1952-57.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1341: 1939-40.

GAGE.--Water-stage recorder. Datum of gage is 819.09 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 21, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable regulation since 1949 by Fall River Lake (station 07168000), 28.9 mi upstream, and during low flow by Fredonia City Water Reservoir, 1.0 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1904, 36.17 ft Apr. 16, 1945, site and datum then in use.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	16	11	35	200	314	1,210	1,310	1,080	66	26	14
2	111	16	12	33	893	316	1,180	1,020	1,050	69	23	12
3	32	17	22	31	509	275	1,160	912	436	173	21	11
4	27	16	26	32	352	4,340	1,140	873	328	416	20	9.2
5	34	15	20	28	272	11,100	1,090	847	207	420	18	6.5
6	27	15	17	253	369	1,340	660	838	124	1,190	18	9.7
7	23	15	17	432	390	1,360	356	1,380	120	340	15	9.4
8	19	15	17	430	372	1,870	272	1,440	116	151	13	10
9	708	14	18	418	370	2,570	271	1,420	96	430	13	11
10	1,420	15	37	415	418	3,110	288	1,410	260	3,470	14	10
11	1,270	14	37	414	304	3,070	314	1,390	107	3,770	14	8.9
12	1,230	15	57	411	248	3,020	303	1,370	90	3,710	15	9.1
13	1,200	17	136	403	196	2,970	282	4,050	4,730	3,650	15	7.7
14	1,380	20	138	404	176	2,940	268	5,260	1,050	3,670	14	3.7
15	1,220	19	237	400	166	2,910	263	1,040	400	3,630	13	3.3
16	1,160	20	581	400	160	2,890	262	512	192	3,690	12	2.9
17	1,100	21	293	1,010	155	2,560	260	1,650	119	3,650	12	3.2
18	739	38	225	2,460	798	2,480	257	2,140	123	3,570	11	4.1
19	706	21	189	889	933	2,430	251	1,750	163	3,490	10	5.5
20	692	16	165	600	945	2,390	657	2,250	107	3,390	16	5.4
21	683	15	153	1,000	972	2,320	1,500	2,330	282	3,220	15	4.5
22	679	56	147	1,070	922	2,300	625	2,770	330	1,800	14	4.4
23	664	118	218	1,040	893	2,260	1,440	2,740	137	318	13	4.6
24	51	115	192	1,020	880	2,120	7,920	2,690	75	116	12	4.5
25	31	113	123	1,310	831	888	1,840	2,650	53	54	11	4.5
26	20	88	56	1,580	296	550	524	2,610	43	40	10	4.9
27	17	30	51	1,160	242	528	963	2,500	38	34	9.6	5.7
28	16	e19	133	1,040	234	2,300	998	1,270	225	31	10	6.2
29	17	e11	66	999	245	1,250	948	1,140	197	31	16	27
30	16	e11	48	941	---	805	941	1,120	91	32	21	181
31	15	---	39	323	---	1,240	---	1,100	---	29	19	---
MEAN	501	31.0	112	677	474	2,284	948	1,799	412	1,569	15.0	13.5
MAX	1,420	118	581	2,460	972	11,100	7,920	5,260	4,730	3,770	26	181
MIN	15	11	11	28	155	275	251	512	38	29	9.6	2.9
AC-FT	30,790	1,850	6,900	41,620	27,260	140,500	56,420	110,600	24,530	96,500	920	801

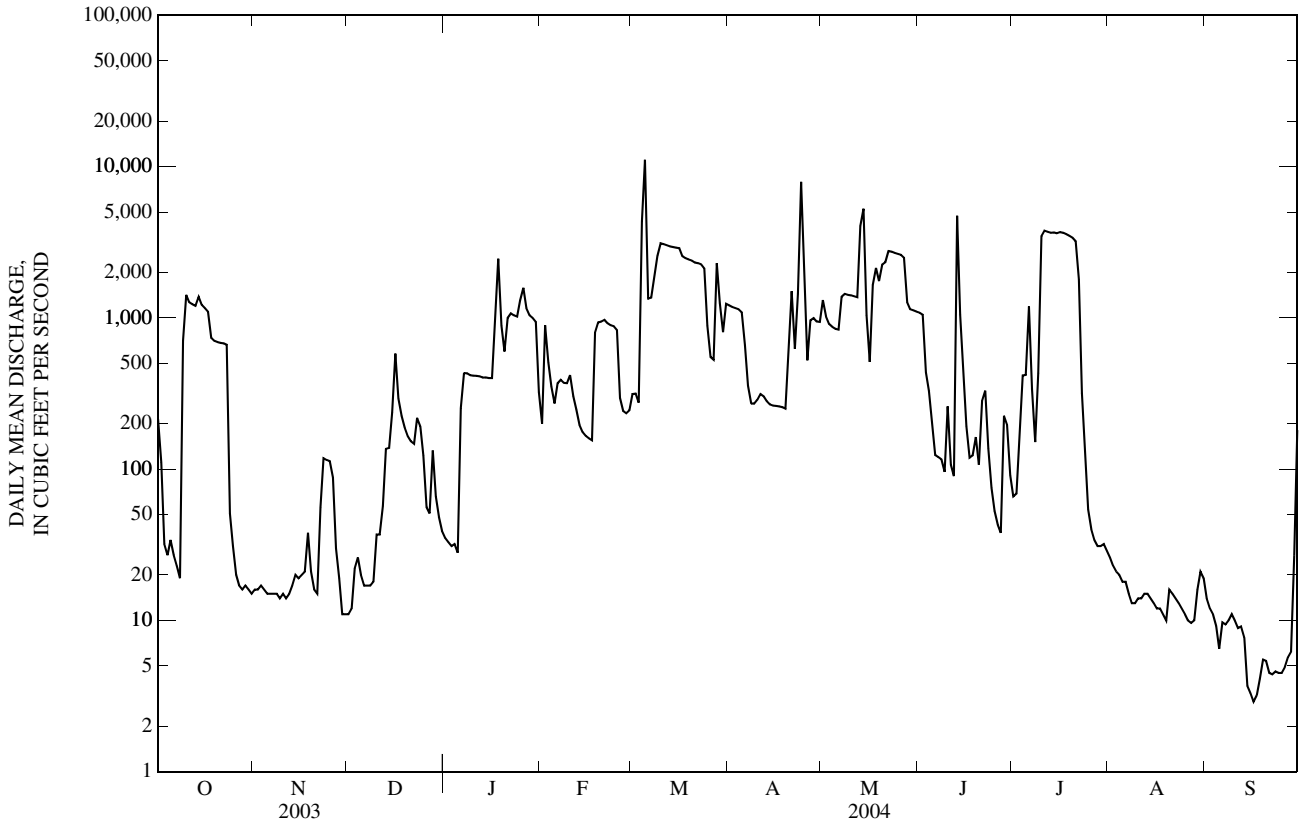
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	390	419	314	268	361	759	901	808	863	543	151	321
MAX	4,332	3,899	2,060	1,954	2,005	3,551	4,517	5,487	3,806	6,435	1,231	3,387
(WY)	(1987)	(1999)	(1993)	(1993)	(1949)	(1973)	(1944)	(1961)	(1957)	(1951)	(1950)	(1961)
MIN	0.00	0.00	1.16	0.00	0.79	1.59	0.91	18.7	10.3	1.52	1.96	0.47
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1981)	(1981)	(1967)	(1954)	(1940)	(1946)	(1939)

07169500 FALL RIVER AT FREDONIA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL MEAN	450		742		508	
HIGHEST ANNUAL MEAN					1,286	1999
LOWEST ANNUAL MEAN					16.5	1953
HIGHEST DAILY MEAN	4,570	Mar 19	11,100	Mar 5	39,300	Apr 16, 1945
LOWEST DAILY MEAN	2.3	Aug 21	2.9	Sep 16	0.00	Aug 6, 1939
ANNUAL SEVEN-DAY MINIMUM	5.1	Aug 16	4.0	Sep 14	0.00	Sep 7, 1939
MAXIMUM PEAK FLOW			13,500	Mar 5	49,000	Apr 16, 1945
MAXIMUM PEAK STAGE			24.01	Mar 5	36.17	Apr 16, 1945
INSTANTANEOUS LOW FLOW			2.2	Sep 16	0.00	at times
ANNUAL RUNOFF (AC-FT)	325,600		538,700		368,000	
10 PERCENT EXCEEDS	1,280		2,400		1,430	
50 PERCENT EXCEEDS	114		250		76	
90 PERCENT EXCEEDS	9.9		12		8.3	

e Estimated



ARKANSAS RIVER BASIN

07169800 ELK RIVER AT ELK FALLS, KS

LOCATION.--Lat 37°22'32", long 96°11'07", in SW ¼ SE ¼ SE ¼ sec.3, T.31 S., R.11 E., Elk County, Hydrologic Unit 11070104, on left bank at downstream side of bridge on U.S. Highway 160 in Elk Falls, 2.0 mi upstream from Wildcat Creek, and at mile 57.5.

DRAINAGE AREA.--220 mi².

PERIOD OF RECORD.--January 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 897.30 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 5	0000	*12,300	*18.60	May 13	2000	5,470	11.41
Apr 24	0300	6,240	12.59				

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

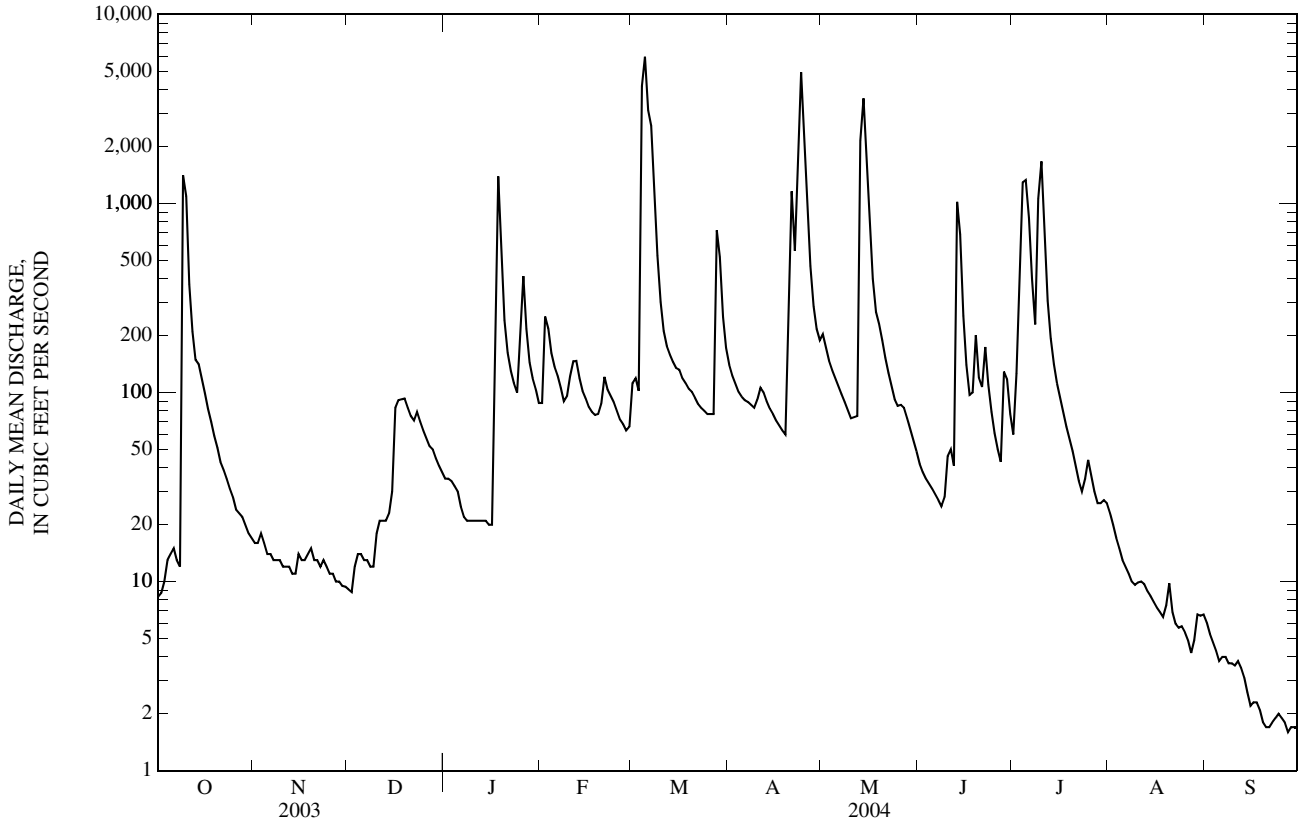
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	16	9.1	35	88	112	140	203	42	60	23	6.1
2	8.7	16	8.8	35	252	119	123	172	38	126	20	5.3
3	10	18	12	34	218	102	111	147	35	447	17	4.8
4	13	16	14	32	162	4,180	101	131	33	1,290	15	4.3
5	14	14	14	30	137	5,970	95	119	31	1,330	13	3.8
6	15	14	13	25	123	3,110	91	108	29	839	12	4.0
7	13	13	13	22	106	2,570	89	98	27	401	11	4.0
8	12	13	12	21	90	1,270	86	89	25	229	10	3.7
9	1,410	13	12	21	96	530	83	81	28	1,060	9.6	3.7
10	1,090	12	18	21	122	301	92	73	46	1,670	9.9	3.6
11	374	12	21	21	146	212	106	74	50	675	10	3.8
12	210	12	21	21	147	176	100	75	41	305	9.7	3.5
13	149	11	21	21	119	159	90	2,150	1,020	194	8.9	3.1
14	141	11	23	21	102	145	82	3,600	686	141	8.4	2.6
15	118	14	30	20	93	135	77	1,800	254	112	7.8	2.2
16	99	13	83	20	84	132	71	811	140	93	7.3	2.3
17	82	13	91	204	79	119	67	399	97	79	6.9	2.3
18	70	14	92	1,390	76	112	63	267	100	66	6.5	2.1
19	59	15	93	542	77	105	60	231	201	57	7.5	1.8
20	51	13	83	241	87	101	225	189	120	49	9.8	1.7
21	43	13	75	162	121	94	1,160	153	107	41	6.9	1.7
22	39	12	71	130	104	87	562	127	174	34	6.0	1.8
23	35	13	79	112	96	83	1,500	108	110	30	5.7	1.9
24	31	12	70	100	89	80	4,940	92	79	35	5.8	2.0
25	28	11	63	209	80	77	2,320	85	61	44	5.4	1.9
26	24	11	57	413	72	77	993	86	50	36	4.9	1.8
27	23	10	52	217	68	77	467	83	43	30	4.2	1.6
28	22	10	50	144	63	721	286	73	129	26	4.9	1.7
29	20	9.5	45	119	66	522	217	64	118	26	6.7	1.7
30	18	9.4	41	104	---	251	189	56	77	27	6.6	1.7
31	17	---	38	88	---	172	---	49	---	26	6.7	---
MEAN	137	12.8	42.7	148	109	706	486	380	133	309	9.26	2.88
MAX	1,410	18	93	1,390	252	5,970	4,940	3,600	1,020	1,670	23	6.1
MIN	8.3	9.4	8.8	20	63	77	60	49	25	26	4.2	1.6
AC-FT	8,420	761	2,630	9,070	6,270	43,440	28,930	23,390	7,920	19,000	569	172

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

MEAN	113	148	104	80.2	134	259	253	271	278	114	28.5	47.8
MAX	1,410	954	488	394	554	1,247	1,227	1,232	1,287	2,080	208	381
(WY)	(1987)	(1999)	(1993)	(1973)	(1987)	(1973)	(1994)	(1993)	(1995)	(1976)	(1985)	(1986)
MIN	0.00	0.00	0.04	0.01	0.02	0.07	0.06	6.26	2.57	0.22	0.00	0.00
(WY)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1991)	(1996)	(1980)	(1980)	(1980)

07169800 ELK RIVER AT ELK FALLS, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL MEAN	145		207		152	
HIGHEST ANNUAL MEAN					322	1999
LOWEST ANNUAL MEAN					6.17	1991
HIGHEST DAILY MEAN	4,940	Mar 19	5,970	Mar 5	47,500	Jul 3, 1976
LOWEST DAILY MEAN	0.68	Aug 26	1.6	Sep 27	0.00	Aug 26, 1970
ANNUAL SEVEN-DAY MINIMUM	0.85	Aug 22	1.8	Sep 24	0.00	Aug 26, 1970
MAXIMUM PEAK FLOW			12,300	Mar 5	200,000	Jul 3, 1976
MAXIMUM PEAK STAGE			18.60	Mar 5	34.85	Jul 3, 1976
INSTANTANEOUS LOW FLOW			1.4	Sep 27	0.00	at times
ANNUAL RUNOFF (AC-FT)	105,200		150,600		110,300	
10 PERCENT EXCEEDS	216		326		264	
50 PERCENT EXCEEDS	38		63		22	
90 PERCENT EXCEEDS	4.5		6.1		0.69	



07170500 VERDIGRIS RIVER AT INDEPENDENCE, KS

LOCATION.--Lat 37°13'25", long 95°40'39", in NW ¼ NE ¼ NE ¼ sec.32, T.32 S., R.16 E., Montgomery County, Hydrologic Unit 11070103, on left bank at downstream side of bridge on U.S. Highway 160, 1.0 mi east of Independence, 3.7 mi downstream from Elk River, and at mile 194.2.

DRAINAGE AREA.--2,892 mi².

PERIOD OF RECORD.--August 1895 to September 1904 (monthly figures only, published in WSP 1311), October 1921 to current year.

REVISED RECORDS.--WSP 977: 1922, 1927-29. WSP 1117: Drainage area. WSP 1341: 1923-25(M), 1939.

GAGE.--Water-stage recorder. Datum of gage is 716.63 ft above NGVD of 1929. Aug. 2, 1895, to Nov. 30, 1903, nonrecording gage at former mill dam 5.0 mi downstream and 2.5 mi northwest of Liberty, at datum about 4.00 ft lower. Apr. 20 to Sept. 25, 1904, nonrecording gage at Myrtle Street highway bridge 0.8 mi upstream at different datum. Nov. 14, 1921, to Sept. 30, 1929, nonrecording gage at Myrtle Street bridge at datum 0.87 ft higher than present datum. Oct. 1, 1929, to Dec. 25, 1933, nonrecording gage at site 400 ft upstream at present datum. Dec. 26, 1933, to Oct. 5, 1989, recording gage at site 400 ft upstream at present datum.

REMARKS.--Records good. Flow regulated since 1949 by Fall River Lake (station 07168000), since 1960 by Toronto Lake (station 07165900), and since 1966 by Elk City Lake (station 07170050). Satellite telemeter at station.

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

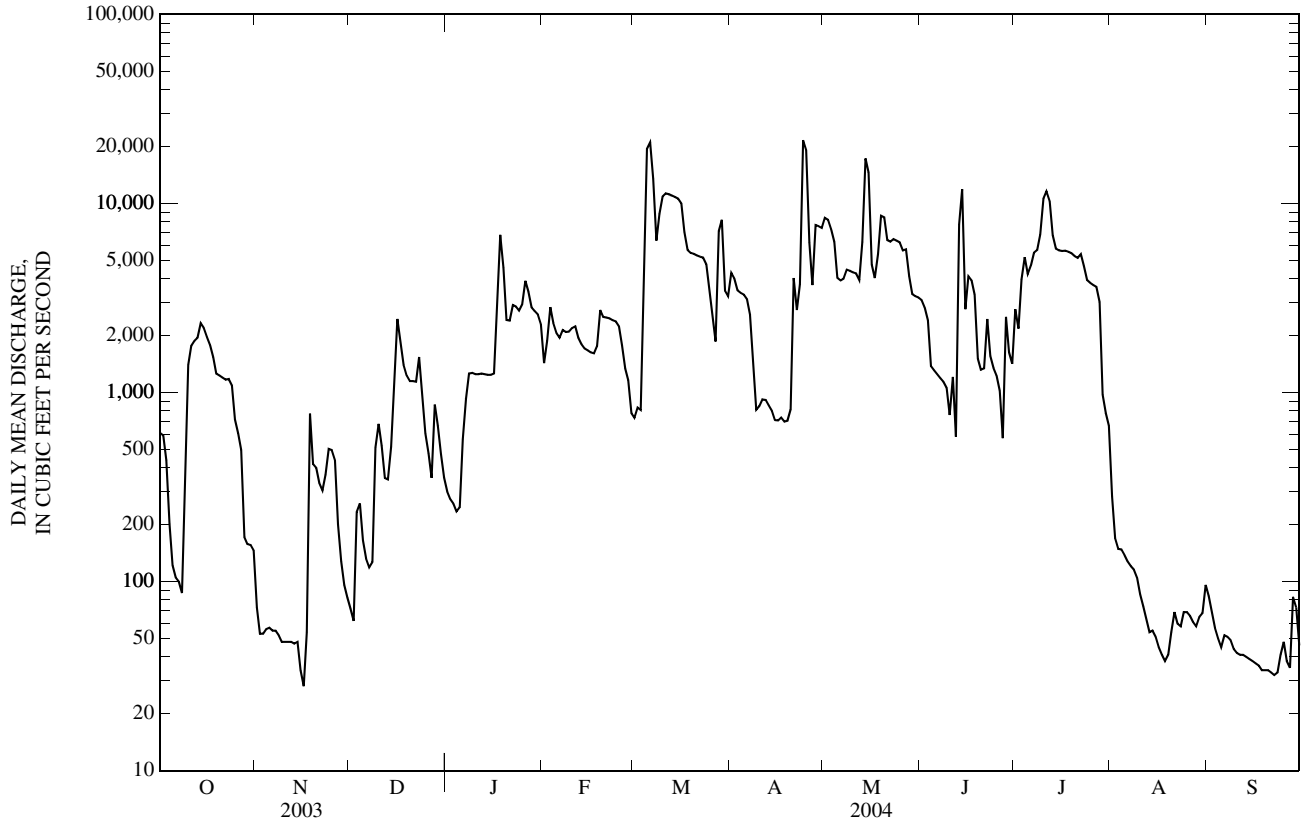
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	612	73	72	299	1,430	735	4,290	8,390	3,080	2,760	282	84
2	593	53	62	273	1,870	832	4,010	8,190	2,820	2,180	170	69
3	438	53	233	258	2,830	808	3,470	7,320	2,410	3,960	149	57
4	202	56	259	235	2,330	4,990	3,370	6,260	1,380	5,200	148	50
5	122	57	165	247	2,060	19,400	3,300	4,040	1,310	4,230	138	45
6	105	55	132	567	1,950	21,000	3,120	3,920	1,250	4,700	128	52
7	100	55	119	927	2,140	13,500	2,580	4,000	1,190	5,490	121	51
8	87	52	127	1,260	2,090	6,360	1,450	4,460	1,140	5,670	116	49
9	377	48	511	1,270	2,100	8,790	812	4,400	1,060	6,850	105	44
10	1,400	48	682	1,250	2,190	10,900	848	4,320	761	10,600	86	42
11	1,770	48	523	1,250	2,240	11,300	919	4,270	1,210	11,600	74	41
12	1,880	48	353	1,260	1,950	11,200	914	3,940	584	10,300	63	41
13	1,950	47	347	1,250	1,800	11,000	855	6,250	7,750	6,800	54	40
14	2,330	48	516	1,240	1,710	10,800	800	17,300	11,900	5,770	55	39
15	2,200	34	1,130	1,240	1,670	10,600	715	14,600	2,760	5,650	51	38
16	1,970	28	2,450	1,260	1,630	10,000	712	4,750	4,120	5,610	45	37
17	1,790	54	1,830	3,190	1,610	7,060	738	4,030	3,920	5,630	41	36
18	1,540	773	1,400	6,830	1,760	5,670	702	5,380	3,290	5,550	38	34
19	1,260	419	1,230	4,580	2,730	5,480	709	8,610	1,510	5,450	41	34
20	1,230	400	1,150	2,420	2,510	5,410	815	8,440	1,320	5,270	54	34
21	1,200	333	1,150	2,400	2,490	5,310	4,030	6,400	1,340	5,150	69	33
22	1,170	304	1,140	2,900	2,470	5,230	2,730	6,280	2,450	5,390	60	32
23	1,180	367	1,540	2,850	2,410	5,170	3,740	6,480	1,560	4,670	58	33
24	1,090	503	971	2,710	2,380	4,770	21,600	6,350	1,350	3,930	69	41
25	720	496	608	2,920	2,240	3,530	19,200	6,230	1,230	3,800	69	48
26	608	439	476	3,890	1,780	2,540	6,210	5,640	1,020	3,700	66	38
27	496	201	354	3,420	1,340	1,860	3,700	5,710	574	3,620	61	35
28	172	128	864	2,820	1,160	7,150	7,690	4,110	2,510	3,010	58	83
29	158	96	667	2,700	777	8,190	7,580	3,320	1,630	975	65	73
30	156	82	469	2,590	---	3,450	7,420	3,230	1,420	777	68	46
31	146	---	355	2,300	---	3,230	---	3,180	---	667	96	---
MEAN	937	180	706	2,020	1,988	7,299	3,968	6,123	2,328	4,999	87.0	46.0
MAX	2,330	773	2,450	6,830	2,830	21,000	21,600	17,300	11,900	11,600	282	84
MIN	87	28	62	235	777	735	702	3,180	574	667	38	32
AC-FT	57,620	10,710	43,410	124,200	114,300	448,800	236,100	376,500	138,500	307,400	5,350	2,740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

MEAN	1,790	2,194	1,542	1,299	1,738	3,442	3,267	3,384	3,903	1,828	658	764
MAX	21,880	13,130	7,961	6,799	6,186	13,500	12,520	9,018	11,820	10,880	4,967	4,888
(WY)	(1987)	(1975)	(1993)	(1973)	(1975)	(1973)	(1988)	(1994)	(1995)	(1976)	(1985)	(1989)
MIN	18.3	23.1	28.0	16.8	16.7	18.5	13.6	214	67.1	26.6	20.9	13.2
(WY)	(1996)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1992)	(1972)	(1980)	(1983)	(1980)

07170500 VERDIGRIS RIVER AT INDEPENDENCE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL MEAN	1,436		2,570		2,150	
HIGHEST ANNUAL MEAN					4,753	
LOWEST ANNUAL MEAN					199	
HIGHEST DAILY MEAN	13,400	May 17	21,600	Apr 24	103,000	Oct 4, 1986
LOWEST DAILY MEAN	15	Aug 21	28	Nov 16	1.5	Sep 25, 1980
ANNUAL SEVEN-DAY MINIMUM	19	Aug 20	34	Sep 17	4.4	Oct 13, 1991
MAXIMUM PEAK FLOW			23,500		117,000	
MAXIMUM PEAK STAGE			31.24		47.60	
INSTANTANEOUS LOW FLOW			27		0.00	
ANNUAL RUNOFF (AC-FT)	1,040,000		1,866,000		1,557,000	
10 PERCENT EXCEEDS	4,620		6,370		6,950	
50 PERCENT EXCEEDS	423		1,260		461	
90 PERCENT EXCEEDS	90		51		34	



ARKANSAS RIVER BASIN

07170700 BIG HILL CREEK NEAR CHERRYVALE, KS

LOCATION.--Lat 37°16'00", long 95°28'08", in SE 1/4 SE 1/4 sec.7, T.32 S., R.18 E., Labette County, Hydrologic Unit 11070103, on right bank at side of county highway bridge, 4.3 mi east of Cherryvale, and at mile 32.5.

DRAINAGE AREA.--37 mi².

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 795.93 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to May 6, 1958, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flow completely regulated since 1981 by Big Hill Lake (station 07170695), 1,200 ft upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in 1951 reached a stage of 18.92 ft, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.09	0.14	3.0	19	9.4	4.1	71	73	0.43	6.4	0.05	0.00
2	e0.08	0.15	3.5	17	9.8	4.3	49	59	0.31	13	0.00	0.02
3	e0.07	0.15	5.2	16	8.8	4.6	35	41	0.20	22	0.00	0.01
4	e0.06	0.16	4.6	14	9.0	181	26	29	0.12	40	0.04	0.00
5	e0.05	0.16	4.8	11	9.4	578	20	23	0.14	50	0.08	0.00
6	e0.05	0.16	5.0	9.3	9.1	372	17	18	0.17	118	0.01	0.01
7	e0.04	0.18	5.3	7.8	8.1	238	15	15	0.10	92	0.00	0.00
8	e0.04	0.17	5.6	7.0	6.9	161	13	13	0.13	60	0.00	0.00
9	e0.06	0.14	8.2	6.5	7.0	115	12	11	0.21	39	0.00	0.00
10	e0.04	0.14	5.7	5.5	7.1	76	13	9.7	0.42	25	0.00	0.00
11	e0.03	0.16	5.1	4.8	7.9	53	12	8.2	0.51	17	0.00	0.00
12	e0.05	0.18	5.1	5.0	8.5	37	11	6.8	1.1	12	0.00	0.01
13	e0.07	0.21	5.7	4.8	8.1	28	9.1	45	141	9.2	0.00	0.03
14	e0.10	0.19	6.4	4.6	7.8	23	7.8	205	178	6.9	0.00	0.00
15	e0.09	0.16	11	4.3	7.5	20	6.3	167	125	4.7	0.00	0.01
16	e0.06	0.20	20	4.7	6.9	18	6.0	119	82	3.1	0.00	0.01
17	e0.06	1.7	22	15	6.8	15	5.5	78	52	2.3	0.00	0.02
18	e0.10	1.3	20	51	6.2	13	4.7	51	39	1.3	0.00	0.02
19	e0.09	0.84	19	49	5.9	11	5.0	32	26	0.55	0.00	0.03
20	e0.08	0.97	17	37	6.6	11	6.2	22	17	0.25	0.01	0.00
21	e0.07	1.1	16	29	5.8	9.1	8.1	16	13	0.14	0.00	0.01
22	0.06	1.3	17	23	5.3	7.3	10	12	11	0.07	0.00	0.00
23	0.07	1.8	52	19	5.8	5.7	30	9.7	8.0	0.11	0.00	0.00
24	0.07	1.4	54	18	6.4	5.3	639	7.2	5.8	0.10	0.00	0.00
25	0.03	1.7	40	18	5.2	5.1	508	6.3	4.4	0.12	0.00	0.00
26	0.01	1.9	30	19	4.1	5.7	307	4.7	2.8	0.00	0.00	0.00
27	0.03	2.0	27	17	3.7	5.9	194	4.1	1.9	0.00	0.00	0.00
28	0.08	2.1	43	15	3.4	162	128	3.4	6.3	0.00	0.00	0.00
29	0.12	2.4	39	14	4.3	208	89	2.4	9.0	0.06	0.00	0.00
30	0.11	2.7	28	12	---	152	64	1.7	7.3	0.08	0.01	0.00
31	0.12	---	23	10	---	106	---	1.1	---	0.05	0.00	---
MEAN	0.07	0.86	17.8	15.7	6.92	85.0	77.4	35.3	24.4	16.9	0.01	0.01
MAX	0.12	2.7	54	51	9.8	578	639	205	178	118	0.08	0.03
MIN	0.01	0.14	3.0	4.3	3.4	4.1	4.7	1.1	0.10	0.00	0.00	0.00
AC-FT	4.1	51	1,090	967	398	5,230	4,610	2,170	1,450	1,040	0.4	0.4

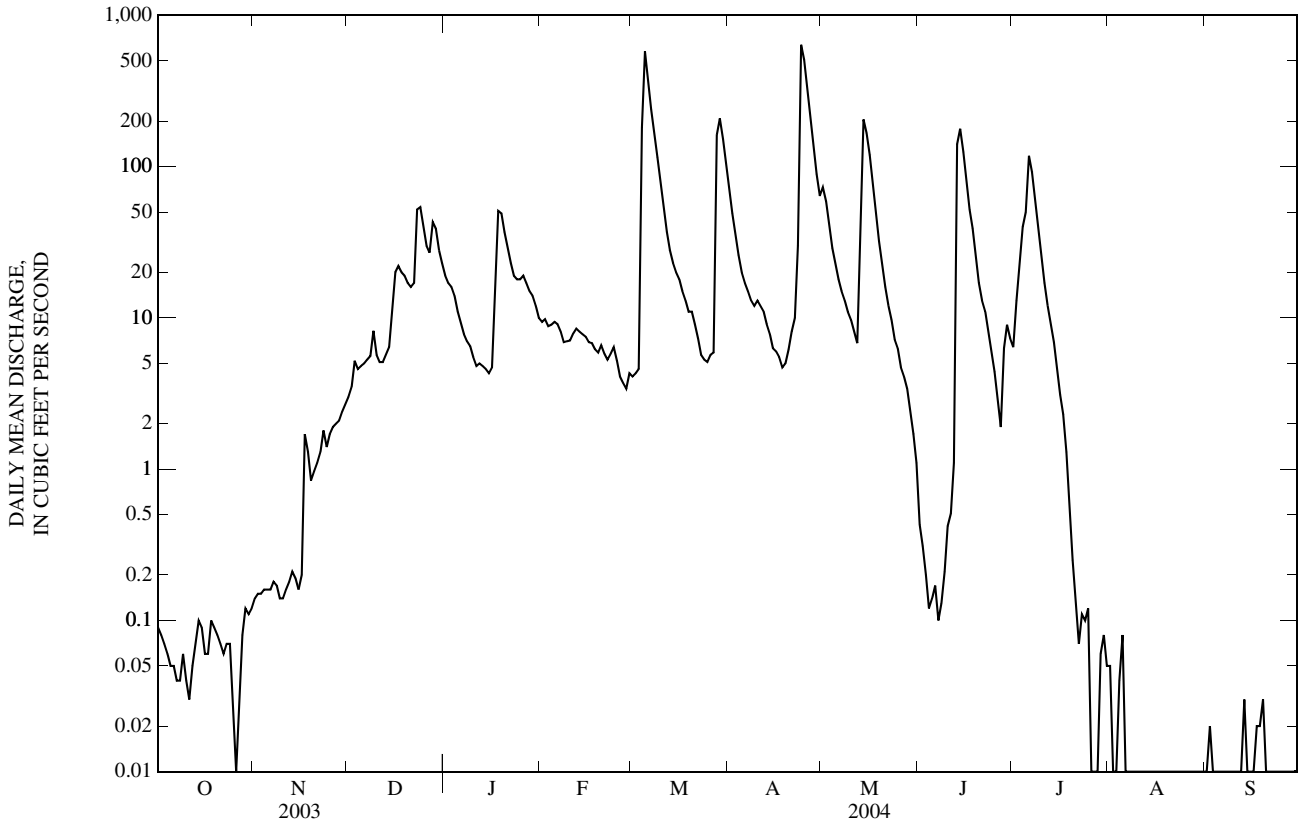
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

MEAN	22.7	26.3	16.7	17.4	19.4	40.6	35.9	46.2	43.4	23.4	6.18	14.7
MAX	384	151	143	145	164	228	219	269	219	403	97.4	123
(WY)	(1987)	(1993)	(1993)	(1973)	(1985)	(1973)	(1994)	(1961)	(1977)	(1976)	(1995)	(1993)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
(WY)	(1958)	(1964)	(1964)	(1964)	(1964)	(1964)	(1981)	(1982)	(1980)	(1963)	(1962)	(1963)

07170700 BIG HILL CREEK NEAR CHERRYVALE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004	
ANNUAL MEAN	9.28		23.4		26.1	
HIGHEST ANNUAL MEAN					70.0	
LOWEST ANNUAL MEAN					0.07	
HIGHEST DAILY MEAN	430	May 17	639	Apr 24	10,700	Jul 3, 1976
LOWEST DAILY MEAN	0.00	Feb 1	0.00	Jul 26	0.00	Oct 1, 1957
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 1	0.00	Aug 7	0.00	Oct 1, 1957
MAXIMUM PEAK FLOW			741	Apr 24	36,000	Jul 3, 1976
MAXIMUM PEAK STAGE			10.78	Apr 24	23.02	Jul 3, 1976
INSTANTANEOUS LOW FLOW			0.00	Oct 5	0.00	most years
ANNUAL RUNOFF (AC-FT)	6,720		17,010		18,890	
10 PERCENT EXCEEDS	22		51		48	
50 PERCENT EXCEEDS	0.10		5.1		1.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated



ARKANSAS RIVER BASIN

07170990 VERDIGRIS RIVER AT COFFEYVILLE, KS

LOCATION.--Lat 37°00'19", long 95°35'33", in NW ¼ NE ¼ NW ¼ sec.18, T.35 S., R.17 E., Montgomery County, Hydrologic Unit 11070103, on right bank at downstream side of county road 0.75 mi north Oklahoma State line, and at mile 162.5.

DRAINAGE AREA.--3,342 mi².

PERIOD OF RECORD.--April 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 675.00 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1949 by Fall River Lake (station 07168000), since 1960 by Toronto Lake (station 07165900), and since 1966 by Elk City Lake (station 07170050). Satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	637	138	99	478	1,790	763	4,720	9,550	3,220	2,020	611	80
2	652	83	82	414	1,630	823	4,760	9,240	3,020	3,870	301	74
3	615	56	167	374	2,830	912	3,970	8,190	2,880	3,810	208	64
4	425	53	649	338	2,570	14,000	3,690	7,630	1,870	8,310	185	55
5	220	54	400	303	2,170	33,700	3,590	4,880	1,450	6,540	178	51
6	141	51	266	398	2,050	27,100	3,470	4,310	1,480	6,680	156	62
7	112	49	196	660	2,080	21,000	2,980	4,200	1,360	6,600	141	53
8	94	55	173	1,210	2,080	8,870	1,990	4,650	1,310	6,710	131	50
9	2,610	49	682	1,300	2,140	9,490	1,040	4,670	1,300	7,170	122	47
10	1,470	46	2,360	1,270	2,410	11,700	924	4,580	977	10,600	104	44
11	2,010	52	1,140	1,250	2,490	12,700	1,040	4,520	1,260	13,000	83	41
12	1,920	46	736	1,260	2,260	12,700	1,040	4,490	1,020	12,300	69	39
13	2,020	39	599	1,260	1,920	12,500	966	7,570	4,420	9,250	61	38
14	3,070	42	693	1,250	1,770	12,300	881	22,000	14,800	7,190	56	38
15	2,630	40	2,230	1,240	1,700	12,100	796	18,900	6,280	6,700	55	37
16	2,140	40	5,440	1,250	1,650	11,900	736	8,360	3,850	6,620	54	38
17	1,930	175	2,650	5,160	1,620	9,490	755	4,180	4,350	6,640	51	35
18	1,720	2,550	1,820	11,400	1,610	7,200	734	5,660	4,040	6,540	47	35
19	1,390	1,110	1,490	7,480	2,470	6,530	719	7,520	2,150	6,380	48	30
20	1,300	597	1,350	3,190	2,560	6,380	790	10,200	1,610	6,170	75	26
21	1,270	504	1,270	2,430	2,440	6,200	2,700	7,470	1,450	5,850	63	26
22	1,220	426	1,390	2,920	2,450	6,010	4,590	6,860	2,270	6,210	70	26
23	1,210	425	4,410	3,100	2,370	5,950	2,230	7,210	1,990	5,690	68	26
24	1,220	579	2,020	2,880	2,310	5,760	24,000	7,050	1,610	4,470	62	29
25	954	596	1,070	2,920	2,260	4,340	26,400	6,890	1,460	3,940	65	31
26	683	572	777	4,110	1,920	2,990	14,100	6,350	1,340	3,730	68	39
27	624	420	631	e3,500	1,460	2,080	3,880	6,200	915	3,560	64	41
28	395	236	2,510	3,000	1,220	11,800	7,520	4,900	1,810	3,360	67	36
29	174	151	1,340	2,840	1,000	13,200	8,240	3,560	2,420	1,860	59	53
30	157	114	831	2,650	---	6,090	8,060	3,340	1,740	1,230	60	66
31	150	---	607	2,510	---	3,510	---	3,310	---	924	62	---
MEAN	1,134	312	1,293	2,398	2,042	9,680	4,710	7,046	2,655	5,933	111	43.7
MAX	3,070	2,550	5,440	11,400	2,830	33,700	26,400	22,000	14,800	13,000	611	80
MIN	94	39	82	303	1,000	763	719	3,310	915	924	47	26
AC-FT	69,750	18,540	79,490	147,500	117,500	595,200	280,300	433,300	158,000	364,800	6,830	2,600

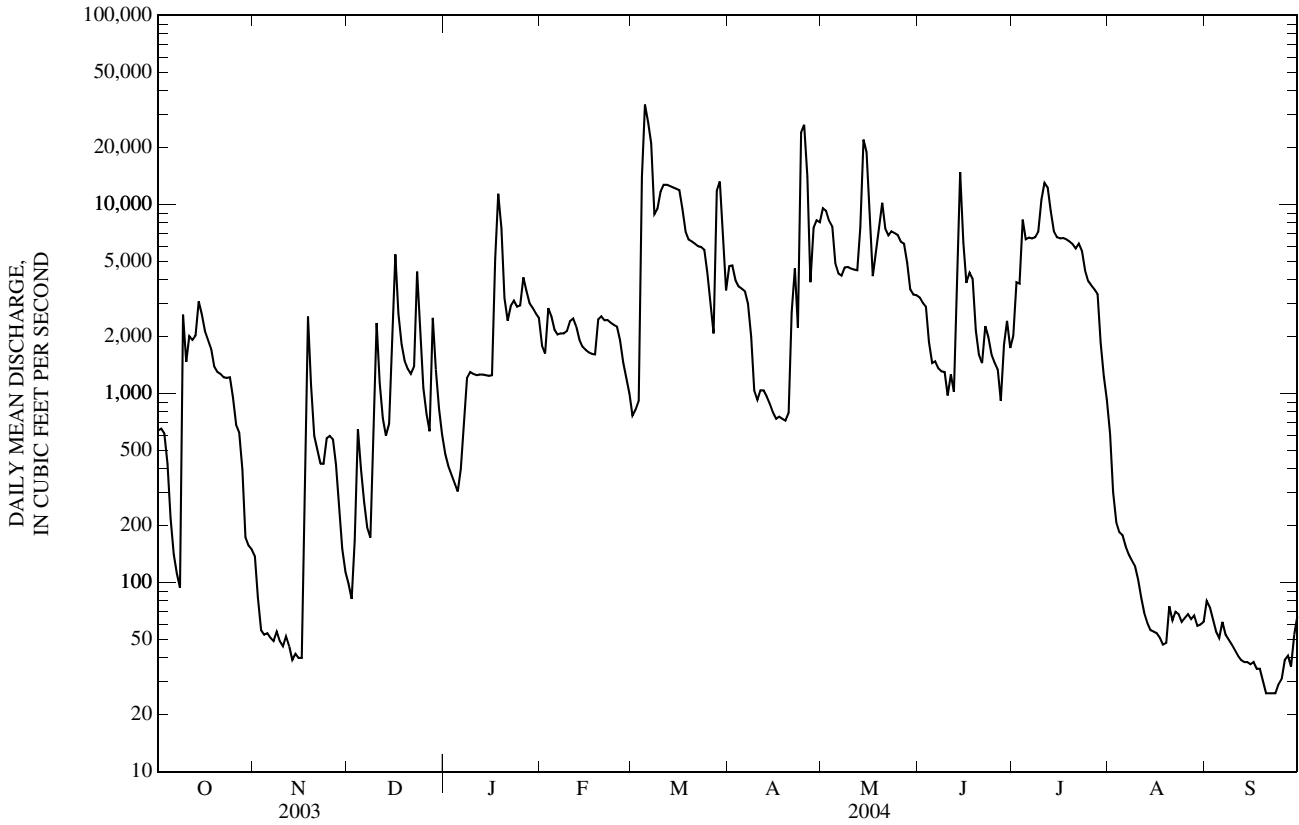
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004
MEAN	617	180	681	1,401	1,207	7,076	2,724	7,363	3,763	2,217	332	836
MAX	1,134	312	1,293	2,398	2,042	9,680	4,710	9,521	6,362	5,933	828	2,382
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2002)	(2004)	(2003)	(2003)
MIN	99.4	48.1	68.5	404	341	4,472	371	5,522	2,272	265	58.1	43.7
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2002)	(2004)

07170990 VERDIGRIS RIVER AT COFFEYVILLE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL MEAN	1,870		3,132		2,395	
HIGHEST ANNUAL MEAN					3,132 2004	
LOWEST ANNUAL MEAN					1,657 2003	
HIGHEST DAILY MEAN	24,000	May 17	33,700	Mar 5	33,700	Mar 5, 2004
LOWEST DAILY MEAN	5.4	Aug 24	26	Sep 20	4.5	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	8.9	Aug 22	28	Sep 19	6.4	Sep 7, 2002
MAXIMUM PEAK FLOW			35,100	Mar 5	35,100	Mar 5, 2004
MAXIMUM PEAK STAGE			30.66	Mar 5	30.66	Mar 5, 2004
INSTANTANEOUS LOW FLOW			24	Sep 22	3.9	Sep 11, 2002
ANNUAL RUNOFF (AC-FT)	1,354,000		2,274,000		1,735,000	
10 PERCENT EXCEEDS	6,300		7,590		7,410	
50 PERCENT EXCEEDS	578		1,550		693	
90 PERCENT EXCEEDS	94		53		53	

e Estimated



ARKANSAS RIVER BASIN

07172000 CANEY RIVER NEAR ELGIN, KS

LOCATION.--Lat 37°00'14", long 96°18'59", in NW ¼ NW ¼ SE ¼ sec.16, T.35 S., R.10 E., Chautauqua County, Hydrologic Unit 11070106, on right bank at upstream side of county highway bridge, 2 mi west of Elgin, and at mile 117.8.

DRAINAGE AREA.--445 mi².

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 763.32 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Sept. 13, 1961, at site 300 ft downstream at same datum. Prior to Apr. 6, 1989, at site on left bank at upstream side of county highway bridge at same datum.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 9	0800	11,200	10.07	May 14	0100	16,900	13.40
Mar 4	2100	*26,500	*18.52	Jul 5	1000	6,310	6.95
Apr 24	0430	22,000	16.21				

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

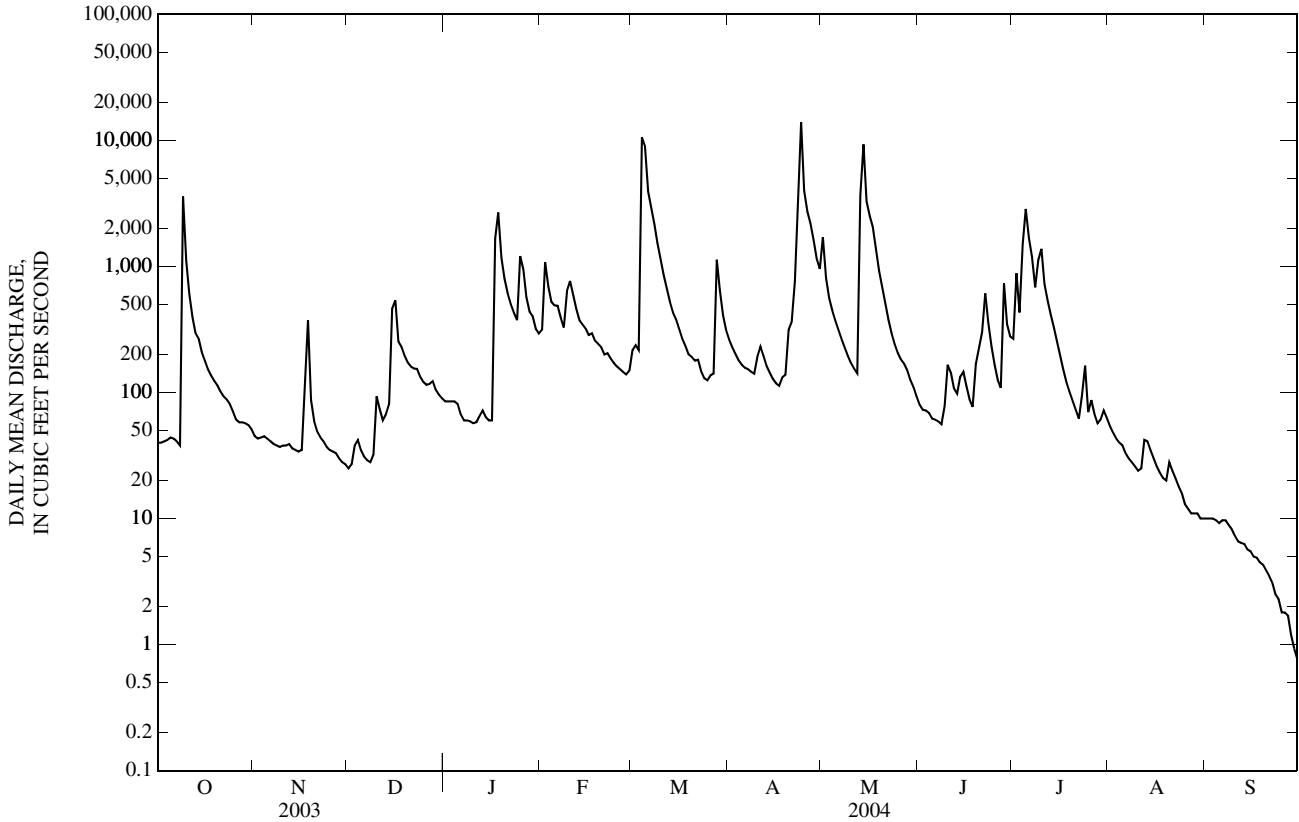
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	45	25	85	315	217	262	1,710	80	267	54	10
2	40	43	27	85	1,080	237	229	804	73	884	48	10
3	41	44	38	85	696	217	202	563	72	432	43	10
4	42	45	42	85	526	10,600	181	447	69	1,510	40	9.7
5	44	43	35	81	491	9,020	166	372	62	2,860	38	9.2
6	43	41	31	67	488	3,930	157	314	61	1,670	33	9.7
7	41	39	29	60	391	2,970	153	266	59	1,190	30	9.7
8	38	38	28	60	328	2,160	146	228	56	683	28	8.9
9	3,590	37	32	59	640	1,530	141	196	78	1,120	26	8.2
10	1,110	38	93	57	765	1,130	192	171	166	1,380	24	7.3
11	608	38	74	58	585	856	231	155	144	724	25	6.6
12	396	39	60	65	460	668	194	142	108	535	42	6.4
13	295	36	67	72	373	525	162	3,670	98	416	41	6.3
14	267	35	81	64	347	430	143	9,300	133	327	35	5.7
15	210	34	462	60	321	380	128	3,280	146	255	30	5.5
16	179	35	538	60	286	318	118	2,520	113	196	26	5.0
17	153	113	254	1,670	295	267	113	2,060	88	153	23	4.9
18	136	375	230	2,680	258	233	132	1,400	77	121	21	4.5
19	124	87	196	1,170	243	201	138	925	168	102	20	4.3
20	114	59	173	803	229	191	314	674	223	86	28	3.9
21	102	49	161	613	200	179	362	501	301	73	24	3.5
22	93	44	155	501	205	182	761	378	614	62	21	3.1
23	88	41	154	431	186	148	2,880	297	356	94	18	2.5
24	81	37	133	375	172	130	13,900	242	232	163	16	2.3
25	71	35	121	1,210	161	125	3,980	207	167	70	13	1.8
26	61	34	115	949	153	137	2,730	183	126	87	12	1.8
27	58	33	117	570	145	141	2,210	170	109	68	11	1.7
28	58	30	123	437	139	1,130	1,620	151	734	57	11	1.2
29	57	28	105	404	149	651	1,160	127	349	61	11	0.93
30	55	27	96	320	---	410	956	111	278	72	10	0.77
31	51	---	90	294	---	314	---	94	---	63	10	---
MEAN	267	54.1	125	436	366	1,278	1,135	1,021	178	509	26.2	5.51
MAX	3,590	375	538	2,680	1,080	10,600	13,900	9,300	734	2,860	54	10
MIN	38	27	25	57	139	125	113	94	56	57	10	0.77
AC-FT	16,440	3,220	7,710	26,840	21,080	78,600	67,560	62,790	10,590	31,300	1,610	328

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	247	233	157	143	207	425	497	541	428	199	61.7	155
MAX	5,482	1,929	800	1,130	1,279	2,502	2,511	3,041	2,242	1,611	1,039	2,058
(WY)	(1987)	(1975)	(1993)	(1973)	(1987)	(1973)	(1944)	(1961)	(1957)	(1950)	(1950)	(1961)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.08	7.37	6.85	0.00	0.00	0.00
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1940)	(1981)	(1956)	(1972)	(1954)	(1954)	(1953)

07172000 CANEY RIVER NEAR ELGIN, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL MEAN	455		452		274	
HIGHEST ANNUAL MEAN					891	1987
LOWEST ANNUAL MEAN					8.61	1981
HIGHEST DAILY MEAN	14,200	Jun 6	13,900	Apr 24	79,200	Oct 3, 1986
LOWEST DAILY MEAN	0.01	Aug 27	0.77	Sep 30	0.00	Oct 1, 1939
ANNUAL SEVEN-DAY MINIMUM	0.22	Aug 22	1.5	Sep 24	0.00	Oct 1, 1939
MAXIMUM PEAK FLOW			26,500	Mar 4	104,000	Oct 3, 1986
MAXIMUM PEAK STAGE			18.52	Mar 4	42.35	Oct 3, 1986
INSTANTANEOUS LOW FLOW			0.34	Sep 30	0.00	at times
ANNUAL RUNOFF (AC-FT)	329,100		328,100		198,800	
10 PERCENT EXCEEDS	988		951		534	
50 PERCENT EXCEEDS	90		128		41	
90 PERCENT EXCEEDS	16		13		0.08	



ARKANSAS RIVER BASIN

07179500 NEOSHO RIVER AT COUNCIL GROVE, KS

LOCATION.--Lat 38°39'57", long 96°29'36", in NE ¼ NE ¼ NW ¼ sec.14, T.16 S., R.8 E., Morris County, Hydrologic Unit 11070201, on right bank at downstream side of bridge, 300 ft downstream from Mozler Creek, 1.0 mi upstream from Elm Creek, 1.7 mi downstream from Council Grove Lake, and at mile 448.0.

DRAINAGE AREA.--250 mi².

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1341: 1939-40(M), 1942.

GAGE.--Water-stage recorder. Concrete control since Jan. 8, 1997. Datum of gage is 1,205.63 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to June 7, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow completely regulated since 1964 by Council Grove Lake (station 07179400), 1.7 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1903 reached a stage of 37.3 ft at water plant, from information by U.S. Army Corps of Engineers.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	7.5	3.3	1.7	0.64	1.6	83	88	22	1,560	1,220	3.7
2	6.5	7.8	3.3	1.7	0.80	126	82	88	22	e131	832	1.8
3	6.7	7.8	3.7	1.6	0.58	234	84	91	23	e498	249	2.1
4	6.7	7.2	3.0	1.6	0.62	e200	87	91	22	1,330	12	3.9
5	6.6	5.3	2.6	1.4	0.70	e10	88	43	21	1,320	11	5.1
6	6.7	4.4	3.0	1.3	0.62	e3.0	89	5.6	21	1,320	8.8	4.5
7	6.8	4.3	2.6	1.3	0.56	912	69	5.4	19	1,310	4.7	3.9
8	7.0	4.5	2.6	1.4	0.53	1,630	7.3	4.8	16	1,120	4.6	3.9
9	7.4	4.6	2.7	1.3	0.56	1,620	7.2	4.8	18	e257	4.5	4.0
10	6.9	4.8	1.9	1.3	0.55	1,610	6.8	5.2	20	9.9	3.7	4.0
11	7.3	4.6	1.9	1.4	0.55	1,300	6.4	5.1	20	6.7	4.0	4.1
12	7.1	4.4	1.9	1.3	0.50	1,010	7.1	4.4	20	427	3.9	4.2
13	7.2	4.4	2.2	1.2	0.43	1,010	7.4	4.8	22	710	3.8	4.0
14	6.8	4.6	2.1	1.2	0.48	992	6.3	4.1	20	704	3.5	3.9
15	6.2	4.5	2.2	1.1	0.49	601	5.5	3.9	e20	702	3.7	4.2
16	5.8	4.3	2.1	1.2	0.45	274	5.8	3.8	609	293	3.5	3.9
17	5.7	4.4	2.1	1.3	0.47	270	6.8	4.1	1,190	8.9	3.3	3.9
18	5.9	3.9	1.9	0.99	0.59	266	7.2	6.2	e885	8.4	3.2	4.2
19	5.9	3.5	1.9	0.90	1.2	265	6.1	49	452	8.3	3.3	4.2
20	5.9	3.6	1.9	0.84	1.5	258	11	86	956	8.3	3.4	3.8
21	6.3	3.5	2.1	0.93	1.2	261	25	87	1,660	8.6	3.0	3.9
22	7.3	3.5	2.4	1.0	1.1	112	26	88	2,320	9.1	3.0	4.5
23	6.8	3.3	2.3	1.1	1.1	5.0	26	87	2,300	9.7	3.5	4.6
24	7.1	3.4	2.3	1.1	0.92	4.4	26	89	2,270	e11	2.7	4.6
25	7.2	3.7	2.3	1.2	0.79	4.2	25	90	2,220	e10	5.7	4.7
26	6.9	3.7	1.9	0.93	0.78	4.0	61	153	2,070	1,050	11	4.7
27	7.1	3.6	1.8	0.94	0.73	9.6	89	186	1,390	1,900	11	4.7
28	7.0	3.2	1.7	0.75	0.73	16	90	113	686	1,890	9.8	4.8
29	7.3	3.3	1.6	0.63	1.3	5.1	89	24	1,320	1,870	10	5.0
30	7.6	3.5	1.6	0.56	---	4.4	88	22	1,690	1,590	10	4.6
31	7.3	---	1.7	0.51	---	47	---	22	---	1,230	8.5	---
MEAN	6.76	4.50	2.28	1.15	0.74	421	40.6	50.3	744	687	79.5	4.11
MAX	7.6	7.8	3.7	1.7	1.5	1,630	90	186	2,320	1,900	1,220	5.1
MIN	5.7	3.2	1.6	0.51	0.43	1.6	5.5	3.8	16	6.7	2.7	1.8
AC-FT	416	268	140	71	43	25,920	2,420	3,090	44,280	42,270	4,890	245

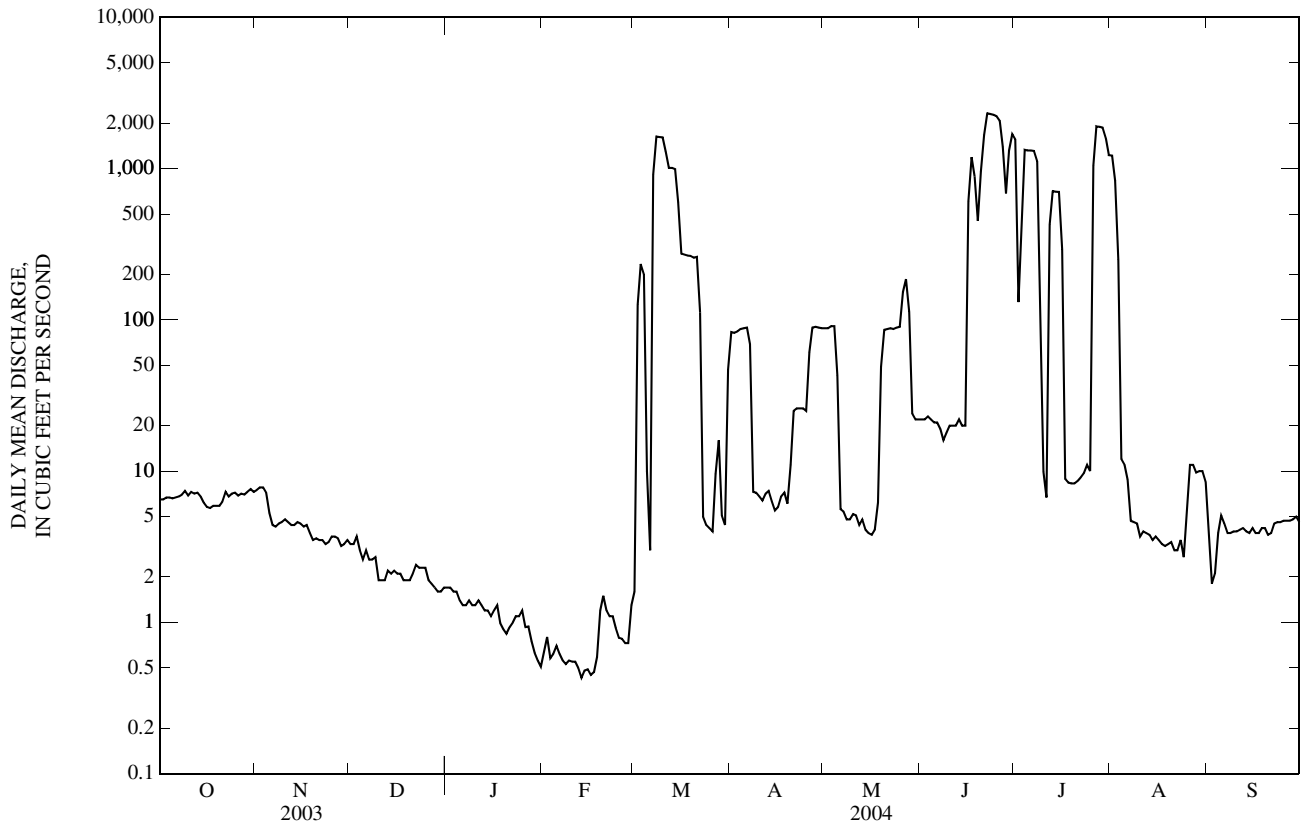
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	107	62.0	57.5	52.0	60.3	121	192	219	248	216	71.6	74.6
MAX	1,387	852	718	503	579	702	1,424	1,387	1,656	2,858	1,103	984
(WY)	(1974)	(1999)	(1945)	(1973)	(1949)	(1973)	(1944)	(1993)	(1995)	(1951)	(1993)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.03	0.00	0.00	0.00
(WY)	(1939)	(1939)	(1939)	(1939)	(1939)	(1940)	(1940)	(1954)	(1956)	(1940)	(1939)	(1939)

07179500 NEOSHO RIVER AT COUNCIL GROVE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL MEAN	20.5		171		124	
HIGHEST ANNUAL MEAN					498	1951
LOWEST ANNUAL MEAN					5.37	1953
HIGHEST DAILY MEAN	677	Jul 1	2,320	Jun 22	34,000	Jul 11, 1951
LOWEST DAILY MEAN	0.43	Mar 10	0.43	Feb 13	0.00	Oct 1, 1938
ANNUAL SEVEN-DAY MINIMUM	0.48	Mar 9	0.48	Feb 11	0.00	Oct 1, 1938
MAXIMUM PEAK FLOW			2,390	Jun 25	121,000	Jul 11, 1951
MAXIMUM PEAK STAGE			13.13	Jun 25	36.29	Jul 11, 1951
INSTANTANEOUS LOW FLOW			0.34	Feb 13	0.00	at times
ANNUAL RUNOFF (AC-FT)	14,840		124,000		89,610	
10 PERCENT EXCEEDS	33		703		227	
50 PERCENT EXCEEDS	6.2		5.4		13	
90 PERCENT EXCEEDS	0.95		1.1		0.84	

e Estimated



07179730 NEOSHO RIVER NEAR AMERICUS, KS

LOCATION.--Lat 38°28'01", long 96°15'01", in SW ¼ SW ¼ NW ¼ sec.24, T.18 S., R.10 E., Lyon County, Hydrologic Unit 11070201, on right bank, 0.1 mi below Ruggles Dam, 2.0 mi south of Americus, 12.5 mi upstream from Allen Creek, and 24.0 mi upstream from Cottonwood River.

DRAINAGE AREA.--622 mi².

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,106.99 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Apr. 10, 1989, to Nov. 1990 at site 0.4 mi upstream at present datum. Aug. 8, 1963, to Apr. 11, 1989, and Nov. 21, 1990, to current year, water-stage recorder at present site and datum.

REMARKS.--Records good. Flow moderately regulated since 1964 by Council Grove Lake (station 07179400). Low flow occasionally regulated by Ruggles Dam 0.1 mi upstream. Satellite telemeter at station.

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

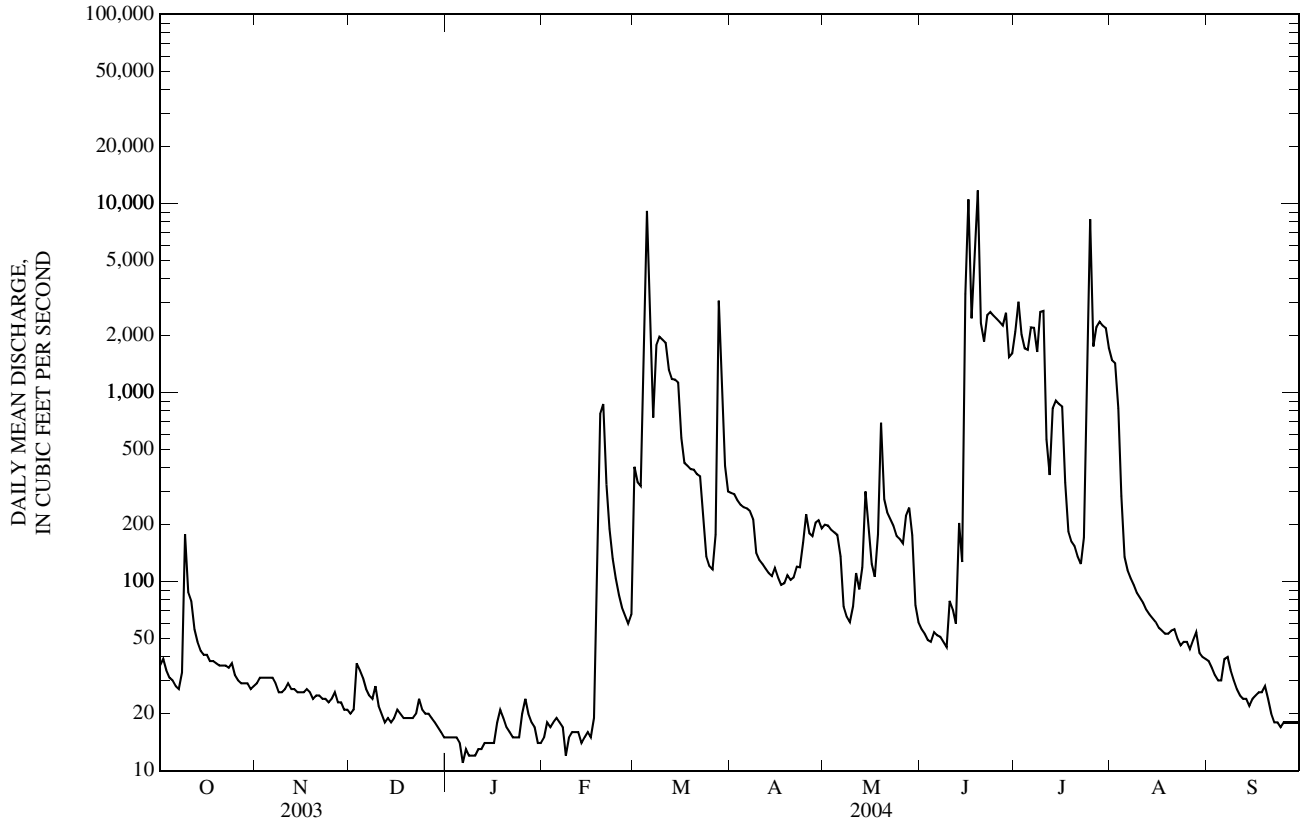
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	29	20	15	15	405	294	200	56	2,090	1,480	38
2	39	31	21	15	18	335	290	198	53	3,020	1,430	35
3	34	31	37	15	17	320	269	188	49	2,030	826	32
4	31	31	34	15	18	2,650	255	182	48	1,710	284	30
5	30	31	31	14	19	9,120	247	176	54	1,680	135	30
6	28	31	27	11	18	3,130	244	136	52	2,210	115	39
7	27	29	25	13	17	738	236	74	51	2,200	104	40
8	33	26	24	12	12	1,780	214	65	48	1,640	96	34
9	178	26	28	12	15	1,970	142	61	45	2,670	87	30
10	88	27	22	12	16	1,900	130	74	79	2,700	82	27
11	79	29	20	13	16	1,830	124	111	71	566	77	25
12	56	27	18	13	16	1,320	117	91	60	366	71	24
13	48	27	19	14	14	1,180	111	119	204	824	67	24
14	43	26	18	14	15	1,170	107	300	127	907	64	22
15	41	26	19	14	16	1,130	118	187	3,320	870	61	24
16	41	26	21	14	15	575	105	124	10,500	844	57	25
17	38	27	20	18	19	424	96	106	2,470	334	55	26
18	38	26	19	21	97	409	98	178	5,640	184	53	26
19	37	24	19	19	769	394	108	691	11,700	163	53	28
20	36	25	19	17	869	391	102	273	2,330	154	55	24
21	36	25	19	16	325	371	105	232	1,860	136	56	20
22	36	24	20	15	190	361	120	213	2,570	124	50	18
23	35	24	24	15	132	216	119	197	2,670	171	46	18
24	37	23	21	15	104	136	161	174	2,550	2,460	48	17
25	32	24	20	20	85	121	227	168	2,460	8,240	48	18
26	30	26	20	24	73	116	180	159	2,360	1,750	44	18
27	29	23	19	20	66	177	174	223	2,260	2,220	49	18
28	29	23	18	18	60	3,060	205	246	2,640	2,370	54	18
29	29	21	17	17	67	1,150	211	176	1,540	2,260	42	18
30	27	21	16	14	---	409	191	75	1,610	2,190	40	18
31	28	---	15	14	---	300	---	61	---	1,720	39	---
MEAN	42.9	26.3	21.6	15.5	107	1,213	170	176	1,983	1,639	186	25.5
MAX	178	31	37	24	869	9,120	294	691	11,700	8,240	1,480	40
MIN	27	21	15	11	12	116	96	61	45	124	39	17
AC-FT	2,640	1,560	1,330	950	6,170	74,560	10,120	10,830	118,000	100,800	11,440	1,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	259	215	162	125	200	369	521	592	654	435	161	170
MAX	2,278	2,304	916	854	1,048	2,100	2,258	3,285	2,761	3,127	1,498	1,526
(WY)	(1974)	(1999)	(1974)	(1973)	(1973)	(1973)	(1999)	(1995)	(1995)	(1993)	(1993)	(1973)
MIN	2.41	6.90	5.87	3.73	3.64	6.87	11.1	24.4	15.9	12.5	12.5	10.7
(WY)	(1965)	(1967)	(1967)	(1967)	(1967)	(1967)	(1989)	(1967)	(1989)	(1964)	(1978)	(1980)

07179730 NEOSHO RIVER NEAR AMERICUS, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL MEAN	127		468		322	
HIGHEST ANNUAL MEAN					1,106	1993
LOWEST ANNUAL MEAN					28.2	1989
HIGHEST DAILY MEAN	4,270	Aug 31	11,700	Jun 19	14,700	Nov 2, 1998
LOWEST DAILY MEAN	11	Mar 16	11	Jan 6	0.00	Oct 2, 1963
ANNUAL SEVEN-DAY MINIMUM	12	Mar 10	12	Jan 6	0.24	Oct 26, 1964
MAXIMUM PEAK FLOW			15,600	Jun 19	17,400	Jul 22, 1993
MAXIMUM PEAK STAGE			27.68	Jun 19	27.84	Jul 22, 1993
INSTANTANEOUS LOW FLOW			1.7	Feb 8	0.00	at times
ANNUAL RUNOFF (AC-FT)	91,680		339,800		233,400	
10 PERCENT EXCEEDS	240		1,730		856	
50 PERCENT EXCEEDS	28		53		61	
90 PERCENT EXCEEDS	15		17		11	



07179795 NORTH COTTONWOOD RIVER BELOW MARION LAKE, KS

LOCATION.--Lat 38°22'00", long 97°05'00", in SE 1/4 NW 1/4 SE 1/4 sec.27, T.19 S., R.3 E., Marion County, Hydrologic Unit 11070202, on left bank, 0.25 mi downstream from outlet of dam, 1.6 mi upstream from South Cottonwood River, 3.0 mi northwest of Marion, and at mile 126.5.

DRAINAGE AREA.--200 mi².

PERIOD OF RECORD.--July 1968 to current year. Prior to Oct. 1, 1991, published as "Cottonwood River."

REVISED RECORDS.--WDR KS-77-1: 1976.

GAGE.--Water-stage recorder. Datum of gage is 1,296.57 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow completely regulated since 1968 by Marion Lake (station 07179794), 0.25 mi upstream. Satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	9.0	1.0	4.8	2.5	1.9	91	4.7	8.3	94	1,300	13
2	14	9.0	0.97	4.8	2.7	2.2	92	4.8	8.3	95	507	13
3	10	9.0	0.64	5.3	2.7	2.3	92	4.5	8.4	92	13	13
4	10	5.5	2.1	5.8	3.0	e4.0	92	4.3	8.4	93	13	13
5	9.9	2.9	2.6	5.3	3.6	e3.0	40	4.4	8.4	93	13	13
6	10	2.7	2.1	4.6	3.7	2.3	5.0	4.6	8.7	97	13	13
7	10	3.1	1.9	5.0	3.6	563	5.2	4.6	9.2	95	12	13
8	12	3.2	1.8	4.6	3.6	827	5.4	4.5	9.2	478	12	13
9	e10	3.1	2.4	4.3	3.4	504	5.4	4.5	9.3	294	13	12
10	7.8	2.4	2.5	4.0	3.0	639	5.6	4.4	9.4	16	13	13
11	8.5	2.2	1.8	3.9	2.4	810	5.5	4.4	9.4	4.6	13	13
12	8.5	2.4	1.6	4.0	2.4	925	5.5	6.1	9.7	58	13	13
13	8.6	2.4	1.7	3.6	2.4	919	5.4	9.2	11	93	13	13
14	9.5	2.2	1.7	3.4	2.4	915	5.3	9.1	11	92	12	12
15	9.0	1.4	1.9	3.5	2.4	385	5.2	8.9	13	49	12	13
16	9.2	1.4	2.2	3.4	2.2	34	5.3	8.8	11	18	12	11
17	9.9	1.4	1.8	3.5	2.2	34	5.4	8.8	16	18	12	11
18	11	2.0	1.6	3.7	2.2	33	5.5	9.0	16	18	13	11
19	11	1.9	1.7	3.2	2.3	33	5.5	8.9	12	18	13	12
20	11	1.9	1.4	3.4	2.3	33	5.5	8.8	12	18	13	8.3
21	11	2.2	1.4	3.4	2.3	33	5.2	9.1	13	18	13	7.8
22	10	2.3	4.7	3.4	2.2	33	5.0	9.0	13	18	13	9.8
23	10	3.1	5.4	3.3	2.2	33	5.0	8.8	399	19	13	11
24	10	2.4	5.0	3.1	1.8	34	5.0	8.6	645	e23	13	11
25	10	1.6	4.3	3.3	2.2	34	4.4	9.0	351	e24	13	11
26	9.9	1.6	4.3	3.9	2.3	34	4.3	8.9	89	1,230	14	11
27	9.4	1.7	4.2	3.8	1.9	34	4.4	8.6	91	2,230	13	11
28	9.9	1.5	5.1	1.8	0.84	34	4.3	8.3	91	2,200	14	12
29	9.6	2.0	5.0	2.6	0.97	34	4.3	8.4	92	2,180	13	11
30	9.5	1.1	4.5	2.8	---	69	4.7	8.6	94	1,650	13	9.7
31	9.2	---	4.6	2.6	---	92	---	8.3	---	1,310	13	---
MEAN	9.94	2.95	2.71	3.81	2.47	230	17.8	7.19	69.6	411	70.3	11.7
MAX	14	9.0	5.4	5.8	3.7	925	92	9.2	645	2,230	1,300	13
MIN	7.8	1.1	0.64	1.8	0.84	1.9	4.3	4.3	8.3	4.6	12	7.8
AC-FT	611	176	166	234	142	14,150	1,060	442	4,140	25,260	4,320	697

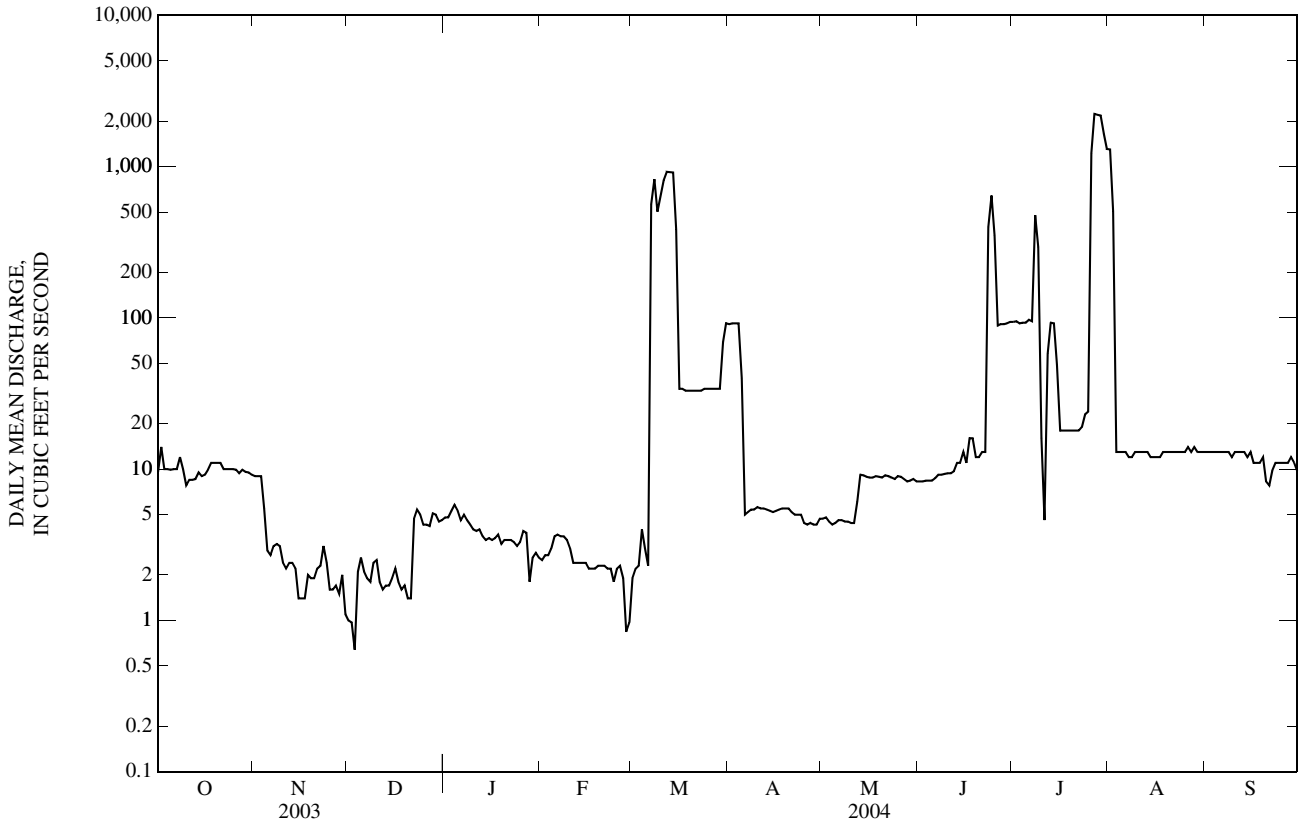
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

MEAN	55.3	62.6	43.1	28.0	53.2	82.5	103	135	132	116	36.9	26.6
MAX	692	549	469	229	411	703	559	1,035	860	997	528	191
(WY)	(1974)	(1999)	(1999)	(1973)	(1973)	(1973)	(1973)	(1993)	(1995)	(1993)	(1993)	(1985)
MIN	0.99	1.04	0.67	0.77	1.05	0.70	0.54	1.61	2.00	3.85	1.87	1.74
(WY)	(1969)	(1969)	(1969)	(1992)	(1992)	(1969)	(1969)	(1992)	(1992)	(1992)	(1992)	(1992)

07179795 NORTH COTTONWOOD RIVER BELOW MARION LAKE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1969 - 2004	
ANNUAL MEAN	27.2		70.8		72.8	
HIGHEST ANNUAL MEAN					322	1993
LOWEST ANNUAL MEAN					1.98	1992
HIGHEST DAILY MEAN	853	May 1	2,230	Jul 27	4,000	May 26, 1993
LOWEST DAILY MEAN	0.64	Dec 3	0.64	Dec 3	0.00	Oct 3, 1984
ANNUAL SEVEN-DAY MINIMUM	0.83	Mar 10	1.3	Nov 27	0.25	Mar 30, 1969
MAXIMUM PEAK FLOW			2,280	Jul 26	4,530	May 26, 1993
MAXIMUM PEAK STAGE			11.28	Jul 26	22.58	Dec 4, 1998
INSTANTANEOUS LOW FLOW			0.48	Nov 30	0.00	Oct 3, 1984
ANNUAL RUNOFF (AC-FT)	19,700		51,400		52,770	
10 PERCENT EXCEEDS	11		92		100	
50 PERCENT EXCEEDS	8.6		8.8		7.6	
90 PERCENT EXCEEDS	1.1		2.2		1.9	

e Estimated



ARKANSAS RIVER BASIN

07180400 COTTONWOOD RIVER NEAR FLORENCE, KS

LOCATION.--Lat 38°14'10", long 96°52'37", in NW ¼ SW ¼ sec.10, T.21 S., R.5 E., Marion County, Hydrologic Unit 11070202, on left bank at downstream side of county highway bridge, 0.4 mi upstream from Martin Creek, 2.5 mi east of Florence, 3.3 mi downstream from Doyle Creek, and at mile 102.4.

DRAINAGE AREA.--754 mi².

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,231.49 ft above NGVD of 1929. Since Aug. 10, 1965, auxiliary water-stage recorder 2.8 mi downstream at datum 1,219.49 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow moderately regulated since 1968 by Marion Lake (station 07179794), 24 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1872, 32.5 ft, July 11, 1951, from information by local residents.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	78	57	58	e46	78	228	88	59	200	1,390	84
2	57	77	57	60	e45	90	216	88	57	251	1,190	82
3	57	79	63	61	e43	103	208	83	56	517	223	81
4	54	82	61	59	e43	3,540	202	81	55	1,750	168	78
5	53	78	60	55	e43	12,100	195	76	55	985	156	80
6	51	72	60	49	e43	5,680	132	75	55	1,140	145	87
7	51	68	59	e49	e42	910	117	73	56	886	139	79
8	57	66	60	53	e42	1,360	114	69	54	431	134	76
9	5,530	66	66	53	e45	779	110	67	53	1,820	130	72
10	3,950	68	70	52	49	751	112	65	60	1,480	136	72
11	423	69	64	54	50	799	110	65	61	340	150	71
12	231	67	61	53	47	1,060	107	65	56	199	130	71
13	176	65	e60	53	48	1,060	106	e118	486	225	127	69
14	146	62	e58	53	50	1,040	102	e118	201	214	118	67
15	129	63	62	52	54	925	98	115	260	199	110	68
16	119	62	62	53	56	194	99	108	656	138	107	71
17	111	63	61	60	59	158	97	98	2,570	118	110	67
18	105	64	60	67	88	142	96	95	3,260	111	107	65
19	103	61	59	66	156	132	95	94	4,000	108	108	64
20	100	60	60	61	182	125	97	91	454	99	118	61
21	96	60	60	58	182	116	95	87	774	94	108	60
22	93	60	63	57	122	112	95	81	619	90	101	58
23	89	61	71	55	94	108	95	77	297	592	212	62
24	87	59	67	55	81	109	111	e69	688	6,690	215	65
25	84	58	64	57	74	109	112	e66	638	14,700	116	64
26	81	59	62	59	72	107	104	e64	219	5,620	101	63
27	82	59	62	48	68	117	91	67	185	2,160	95	62
28	81	58	61	e47	65	619	84	65	1,190	1,960	89	62
29	83	56	60	e46	67	499	81	63	433	1,880	87	63
30	80	58	59	e45	---	248	81	63	239	1,770	84	62
31	78	---	58	e45	---	242	---	61	---	1,420	84	---
MEAN	403	65.3	61.5	54.6	70.9	1,078	120	80.5	595	1,554	203	69.5
MAX	5,530	82	71	67	182	12,100	228	118	4,000	14,700	1,390	87
MIN	51	56	57	45	42	78	81	61	53	90	84	58
AC-FT	24,780	3,880	3,780	3,360	4,080	66,270	7,120	4,950	35,400	95,580	12,470	4,140

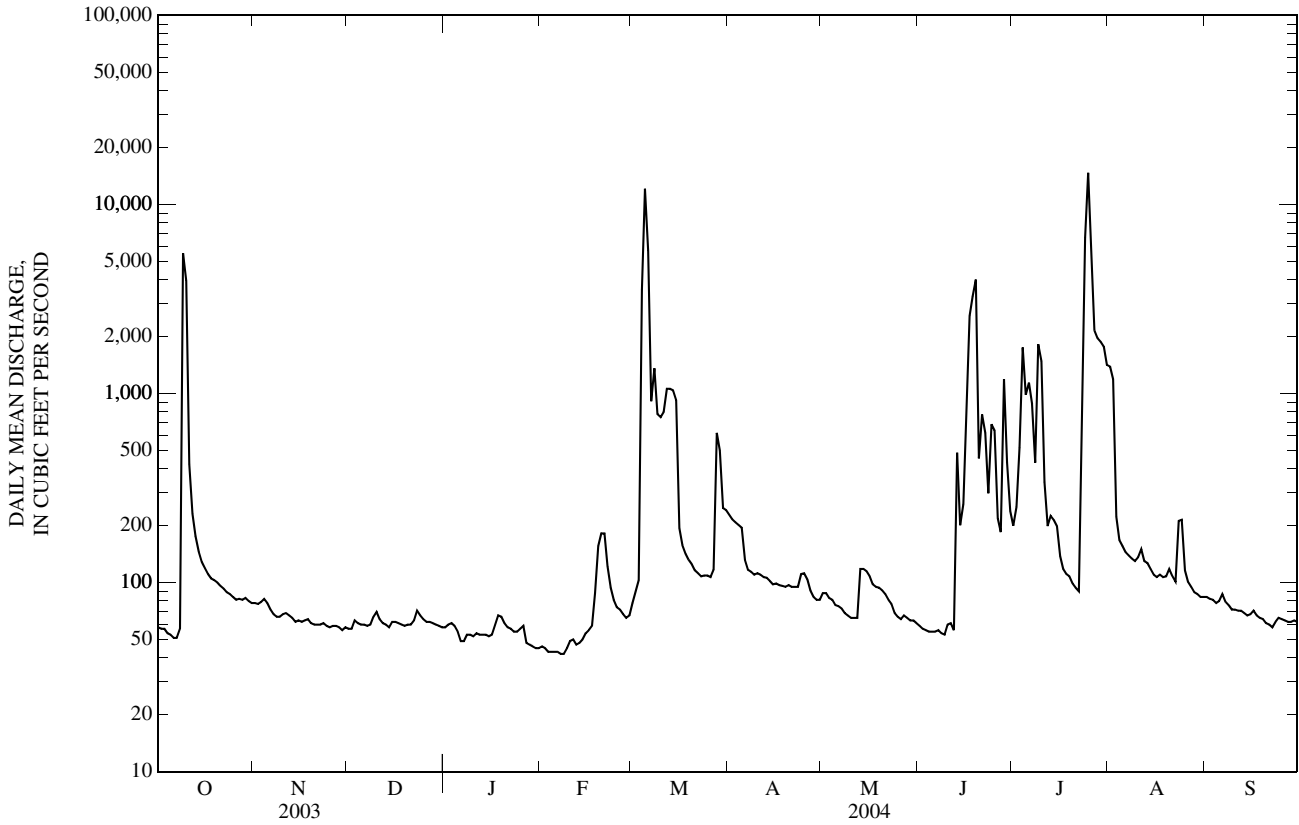
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	273	303	156	131	220	390	409	541	678	383	149	217
MAX	2,203	4,356	755	728	1,308	3,251	1,533	4,981	3,691	4,044	833	1,755
(WY)	(1986)	(1999)	(1999)	(1962)	(1973)	(1973)	(1983)	(1993)	(1965)	(1993)	(1985)	(1962)
MIN	11.5	19.8	18.2	20.4	19.8	26.9	25.6	23.0	53.4	22.8	16.9	21.8
(WY)	(1965)	(1967)	(1992)	(1967)	(1967)	(1981)	(1981)	(1967)	(1991)	(1966)	(1991)	(1966)

07180400 COTTONWOOD RIVER NEAR FLORENCE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL MEAN	199		366		321	
HIGHEST ANNUAL MEAN					1,298	1993
LOWEST ANNUAL MEAN					39.9	1991
HIGHEST DAILY MEAN	5,530	Oct 9	14,700	Jul 25	47,800	Nov 2, 1998
LOWEST DAILY MEAN	18	Aug 26	42	Feb 7	4.8	Jun 28, 1991
ANNUAL SEVEN-DAY MINIMUM	20	Aug 20	43	Feb 2	6.9	Oct 8, 1964
MAXIMUM PEAK FLOW			15,700	Jul 25	73,700	Nov 2, 1998
MAXIMUM PEAK STAGE			24.90	Jul 25	28.81	Nov 2, 1998
INSTANTANEOUS LOW FLOW			31	Jan 27	4.4	Jun 28, 1991
ANNUAL RUNOFF (AC-FT)	144,000		265,800		232,400	
10 PERCENT EXCEEDS	342		666		645	
50 PERCENT EXCEEDS	61		81		81	
90 PERCENT EXCEEDS	29		54		28	

e Estimated



ARKANSAS RIVER BASIN

07180500 CEDAR CREEK NEAR CEDAR POINT, KS

LOCATION.--Lat 38°11'47", long 96°49'27", in NE ¼ SE ¼ NE ¼ sec.25, T.21 S., R.5 E., Chase County, Hydrologic Unit 11070202, on right bank at upstream side of county highway bridge, 4.0 mi south of Cedar Point, and at mile 9.4.

DRAINAGE AREA.--110 mi².

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1211: 1944(M). WSP 1341: 1940-41, 1942(M), 1943, 1945(M).

GAGE.--Water-stage recorder. Datum of gage is 1,262.50 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Sept. 28, 1944, nonrecording gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1929 reached a stage of 24.63 ft from floodmarks on house on left bank where flood in 1951 reached a stage of 25.7 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar	4	1900	6,510	Jul	9	*12,200	*20.49
Jul	4	1000	5,070				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	23	11	11	30	85	60	38	14	27	51	17
2	17	19	11	11	35	45	55	34	14	340	45	17
3	15	18	15	11	32	40	50	31	13	225	41	16
4	15	18	18	10	31	2,760	47	30	13	2,230	38	16
5	14	18	15	9.6	33	1,740	45	30	13	352	36	16
6	14	17	14	8.7	32	243	43	28	13	372	35	17
7	13	17	13	8.6	29	128	43	27	12	199	33	16
8	14	16	14	8.9	29	100	41	27	12	91	33	15
9	1,250	16	15	9.3	31	85	39	26	11	4,810	31	14
10	128	16	14	9.1	30	78	40	26	16	489	35	13
11	63	17	13	9.5	32	72	40	27	19	257	40	13
12	48	18	12	9.7	31	66	37	27	15	162	33	13
13	41	16	e11	9.7	29	65	36	70	26	112	31	12
14	39	16	e12	9.5	31	62	35	78	32	88	29	12
15	37	16	14	9.5	55	60	34	64	178	76	27	13
16	35	16	14	9.9	54	59	35	37	102	66	27	15
17	34	17	14	14	72	56	34	31	249	61	28	13
18	34	16	13	76	151	54	33	28	680	54	26	13
19	33	15	13	54	128	51	34	29	161	50	27	12
20	31	14	13	36	60	50	41	27	46	45	32	12
21	29	14	12	32	42	46	51	24	277	40	27	11
22	30	14	14	31	34	45	37	21	125	37	24	11
23	28	14	16	30	30	45	36	20	42	112	25	10
24	29	13	13	30	27	45	52	19	30	1,080	26	10
25	27	12	12	32	25	45	54	19	26	319	24	11
26	28	13	12	37	24	45	37	18	23	138	22	10
27	28	13	12	33	24	107	32	19	68	89	20	11
28	29	12	12	31	23	677	31	18	463	70	22	11
29	26	11	11	29	26	120	29	16	55	77	20	10
30	27	12	11	28	---	79	33	17	33	93	19	10
31	30	---	10	28	---	67	---	15	---	60	18	---
MEAN	71.2	15.6	13.0	21.8	41.7	233	40.5	29.7	92.7	394	29.8	13.0
MAX	1,250	23	18	76	151	2,760	60	78	680	4,810	51	17
MIN	13	11	10	8.6	23	40	29	15	11	27	18	10
AC-FT	4,380	926	801	1,340	2,400	14,320	2,410	1,830	5,520	24,240	1,830	774

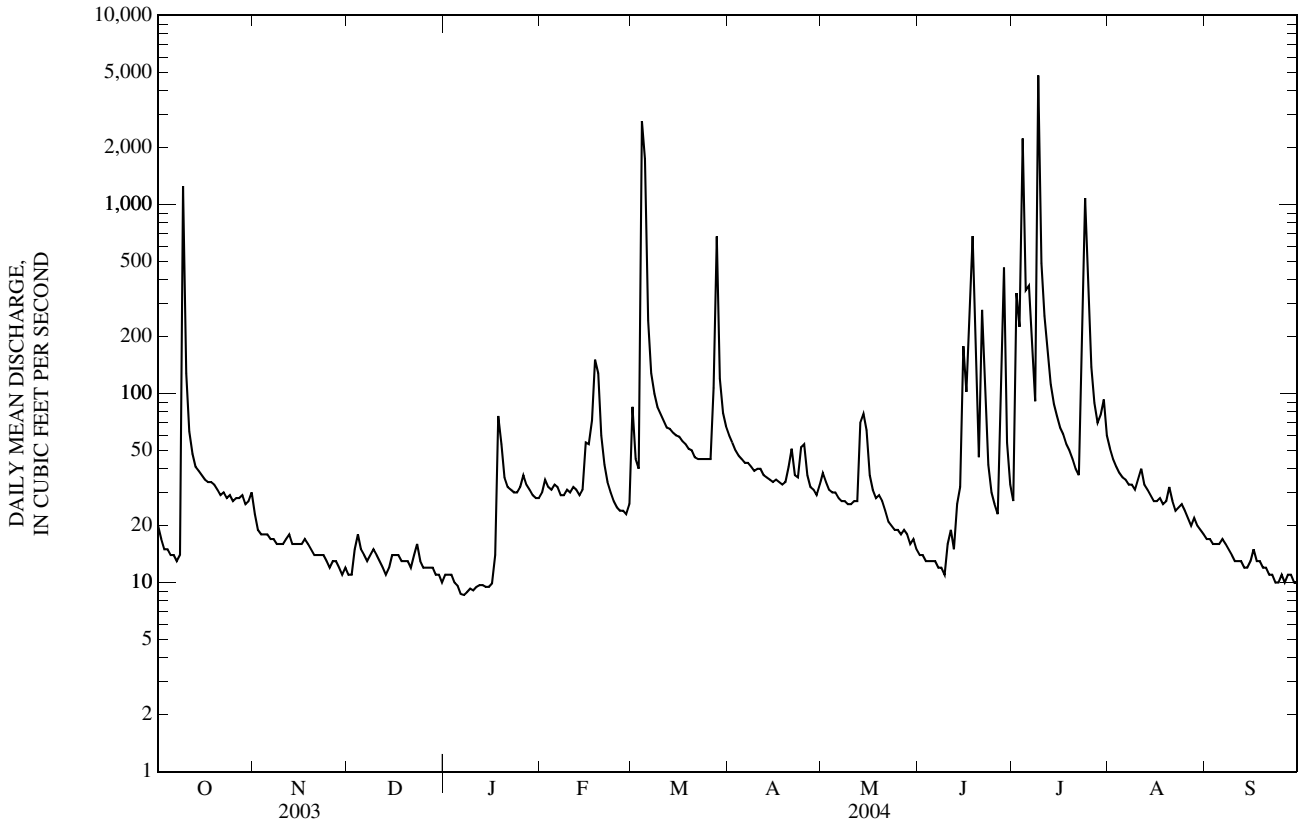
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	46.6	39.9	30.0	26.0	41.9	73.0	89.9	85.4	119	67.4	29.0	38.8
MAX	392	542	264	195	260	449	554	507	814	594	179	414
(WY)	(1986)	(1999)	(1945)	(1949)	(2001)	(1973)	(1944)	(1993)	(1965)	(1951)	(1995)	(1941)
MIN	0.00	0.00	0.00	0.00	0.00	0.44	0.58	0.01	0.00	0.00	0.00	0.00
(WY)	(1940)	(1954)	(1955)	(1940)	(1957)	(1956)	(1954)	(1955)	(1955)	(1954)	(1954)	(1953)

07180500 CEDAR CREEK NEAR CEDAR POINT, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL MEAN	47.7		83.7		57.2	
HIGHEST ANNUAL MEAN					159	1993
LOWEST ANNUAL MEAN					0.91	1954
HIGHEST DAILY MEAN	1,290	Apr 24	4,810	Jul 9	10,900	Jun 29, 1951
LOWEST DAILY MEAN	0.80	Aug 28	8.6	Jan 7	0.00	Jul 12, 1939
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 22	9.1	Jan 5	0.00	Jul 12, 1939
MAXIMUM PEAK FLOW			12,200	Jul 9	52,400	Jun 29, 1951
MAXIMUM PEAK STAGE			20.49	Jul 9	23.70	Jun 29, 1951
INSTANTANEOUS LOW FLOW			8.6	Jan 6	0.00	at times
ANNUAL RUNOFF (AC-FT)	34,500		60,760		41,460	
10 PERCENT EXCEEDS	60		92		76	
50 PERCENT EXCEEDS	15		29		16	
90 PERCENT EXCEEDS	4.7		12		2.0	

e Estimated



07182250 COTTONWOOD RIVER NEAR PLYMOUTH, KS

LOCATION.--Lat 38°23'51", long 96°21'21", in NE ¼ NE ¼ SE ¼ sec.13, T.19 S., R.9 E., Chase County, Hydrologic Unit 11070203, on right bank at upstream side of county highway bridge, 0.8 mi downstream from Buckeye Creek, 1.5 mi southwest of Plymouth, and at mile 39.2.

DRAINAGE AREA.--1,740 mi².

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,109.04 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow partially regulated since 1968 by Marion Lake (station 07179794), 87.3 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1903, 37.8 ft, July 11, 1951, from information by local residents, discharge not determined.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 11	0700	7,110	22.24	Jul 2	1000	5,240	18.09
Mar 5	0800	*19,700	*33.18	Jul 5	1900	6,250	20.09
Mar 28	1400	5,310	18.23	Jul 10	0600	18,900	33.10
Jun 15	1600	13,600	31.88	Jul 27	1700	12,400	30.21
Jun 19	0800	13,000	31.08				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	259	141	157	e240	750	1,060	469	206	1,150	2,190	205
2	268	259	140	155	e240	594	981	459	195	3,570	2,010	198
3	249	257	184	158	e220	531	907	423	186	1,930	1,820	189
4	233	257	201	162	e240	5,640	845	396	181	3,440	951	184
5	222	256	182	152	e260	18,100	806	381	176	5,840	683	180
6	209	250	164	e145	e253	18,000	773	363	174	4,290	618	193
7	197	238	154	e138	240	15,700	714	340	170	3,140	575	189
8	194	227	152	138	227	7,600	645	321	164	2,370	542	182
9	4,010	219	156	137	227	2,910	608	304	163	7,570	517	169
10	6,060	216	157	138	222	2,090	595	384	203	16,400	501	160
11	6,280	218	e157	134	228	1,750	588	e450	228	11,000	487	153
12	1,680	219	e153	136	e230	1,680	564	342	216	3,570	502	149
13	882	211	e154	135	e240	1,810	539	e427	1,170	1,830	472	146
14	746	202	156	134	254	1,780	515	e1,140	894	1,430	440	143
15	655	198	168	134	467	1,730	491	1,060	8,500	1,230	408	145
16	583	192	171	134	403	1,650	471	664	6,820	1,090	383	145
17	524	193	168	154	409	1,040	455	531	6,320	972	361	146
18	481	196	162	348	826	871	437	462	10,800	841	348	144
19	450	189	161	395	1,370	806	426	480	12,600	762	341	138
20	430	185	157	355	1,050	765	465	441	9,090	697	347	133
21	399	177	157	287	732	705	524	384	3,530	628	340	129
22	373	171	167	256	593	660	480	340	2,790	575	320	126
23	354	168	232	239	488	640	459	310	1,950	884	298	121
24	341	163	212	233	404	619	717	286	1,220	4,040	300	119
25	317	162	205	287	358	608	868	280	1,290	10,100	490	119
26	297	159	195	e260	330	603	655	268	1,240	10,800	332	121
27	289	156	189	e235	312	785	556	259	893	12,100	271	119
28	289	153	179	e220	296	4,350	497	259	2,740	8,110	260	118
29	282	150	172	e200	308	3,240	447	239	2,710	3,360	251	116
30	277	146	165	e220	---	1,790	427	230	1,550	2,910	235	115
31	268	---	159	e230	---	1,220	---	218	---	2,710	217	---
MEAN	906	202	170	200	402	3,259	617	416	2,612	4,172	575	150
MAX	6,280	259	232	395	1,370	18,100	1,060	1,140	12,600	16,400	2,190	205
MIN	194	146	140	134	220	531	426	218	163	575	217	115
AC-FT	55,730	11,990	10,450	12,310	23,140	200,400	36,720	25,610	155,400	256,500	35,330	8,910

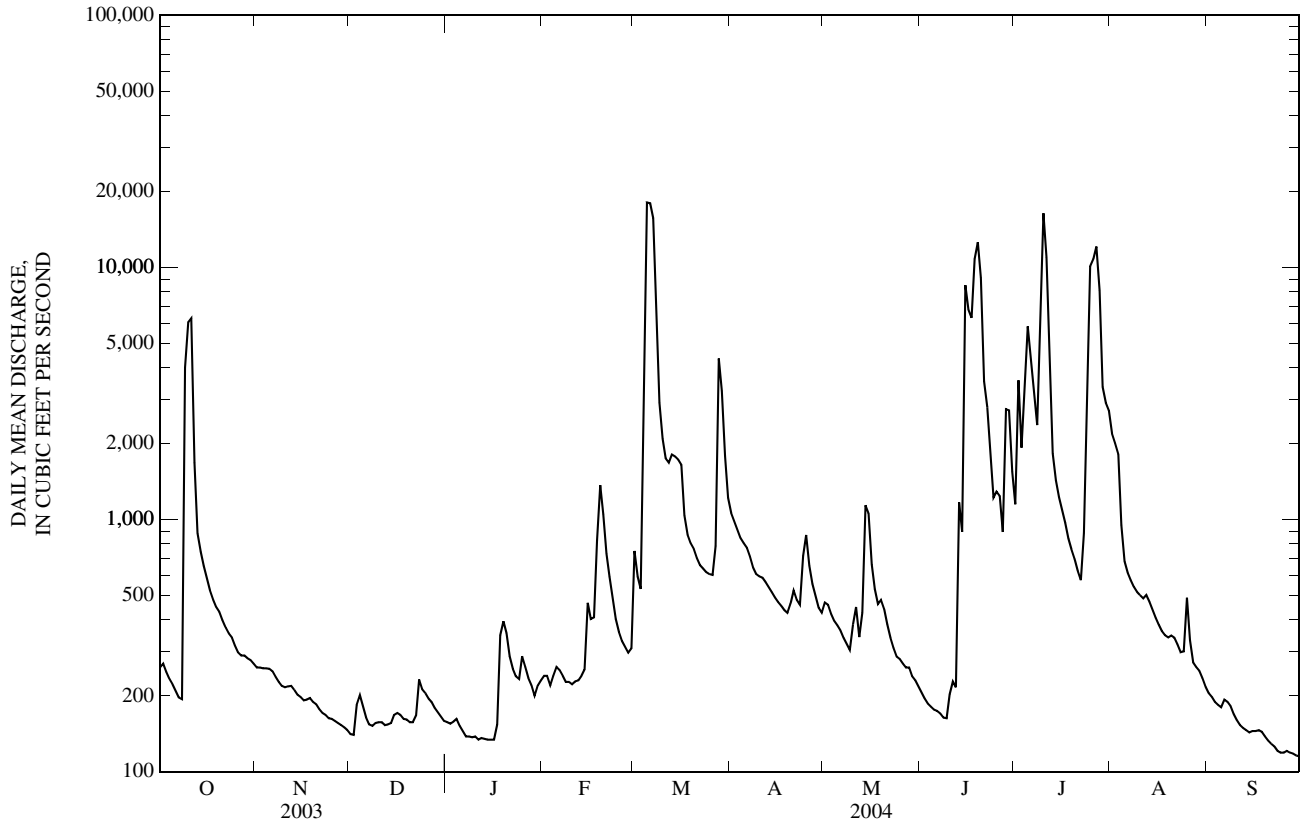
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	710	755	452	361	657	1,144	1,339	1,442	1,850	934	412	478
MAX	6,370	8,861	2,389	1,727	2,948	7,548	5,588	8,608	9,568	7,881	2,199	2,654
(WY)	(1986)	(1999)	(1993)	(1974)	(1973)	(1973)	(1999)	(1993)	(1965)	(1993)	(1985)	(1965)
MIN	12.3	29.5	31.9	38.0	31.9	43.0	48.2	51.2	127	42.0	21.4	20.6
(WY)	(1992)	(1981)	(1992)	(1981)	(1967)	(1981)	(1989)	(1967)	(1980)	(1980)	(1991)	(1980)

07182250 COTTONWOOD RIVER NEAR PLYMOUTH, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL MEAN	612		1,147		877	
HIGHEST ANNUAL MEAN					2,701	1993
LOWEST ANNUAL MEAN					121	1991
HIGHEST DAILY MEAN	12,600	Apr 25	18,100	Mar 5	73,500	Nov 2, 1998
LOWEST DAILY MEAN	26	Aug 27	115	Sep 30	8.7	Oct 21, 1964
ANNUAL SEVEN-DAY MINIMUM	32	Aug 22	118	Sep 24	11	Oct 18, 1964
MAXIMUM PEAK FLOW			19,700	Mar 5	92,900	Nov 2, 1998
MAXIMUM PEAK STAGE			33.18	Mar 5	36.78	Nov 2, 1998
INSTANTANEOUS LOW FLOW			114	Sep 30	8.7	Oct 21, 1964
ANNUAL RUNOFF (AC-FT)	443,300		832,600		635,300	
10 PERCENT EXCEEDS	1,270		2,720		1,890	
50 PERCENT EXCEEDS	197		331		259	
90 PERCENT EXCEEDS	56		153		46	

e Estimated



07182510 NEOSHO RIVER AT BURLINGTON, KS

LOCATION.--Lat 38°11'40", long 95°44'10", in SE ¼ NW ¼ sec.26, T.21 S., R.15 E., Coffey County, Hydrologic Unit 11070204, on right bank at upstream side of county highway bridge at Burlington, 0.3 mi upstream from Rock Creek, and at mile 338.4.

DRAINAGE AREA.--3,042 mi², includes that of Rock Creek.

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 983.56 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow completely regulated since 1963 by John Redmond Reservoir (station 07182450), 5.3 mi upstream. Records include flow of Rock Creek. Satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	64	134	225	56	1,540	3,230	1,320	574	8,660	8,240	572
2	47	63	222	222	56	1,710	3,490	1,320	156	5,220	8,870	409
3	59	64	698	226	56	1,700	3,410	620	118	2,780	9,250	264
4	59	225	887	231	57	2,960	3,300	256	67	6,240	8,720	263
5	60	368	213	513	57	2,000	3,240	780	71	6,210	5,900	266
6	60	366	210	760	55	196	3,140	774	69	6,200	2,970	264
7	60	366	207	766	56	3,760	3,040	767	68	6,330	2,880	261
8	61	365	203	748	56	9,130	2,420	760	69	6,710	2,820	261
9	66	362	122	415	55	11,600	1,250	755	74	6,390	2,710	160
10	1,140	362	59	55	56	13,200	706	760	77	7,400	2,660	60
11	3,050	358	58	54	272	12,800	706	1,210	71	8,910	2,750	61
12	3,210	358	59	55	496	12,400	704	938	70	9,190	1,410	61
13	3,320	361	61	55	494	12,100	705	480	90	10,100	437	101
14	3,300	361	59	285	490	11,700	703	469	72	10,500	437	251
15	2,020	358	320	485	496	11,600	701	468	891	10,000	437	287
16	661	357	574	413	494	11,300	701	475	4,040	8,580	440	281
17	294	213	519	428	744	10,800	700	873	6,990	7,470	437	282
18	294	57	514	445	1,110	10,300	703	1,870	7,830	7,080	435	277
19	294	57	511	426	1,650	8,250	696	1,850	8,160	6,680	529	276
20	297	56	507	737	1,870	6,620	714	1,820	8,510	6,240	691	178
21	297	57	502	1,010	1,880	6,310	1,140	1,350	9,460	4,400	684	63
22	583	58	410	1,270	1,890	5,980	1,530	945	11,600	2,420	678	63
23	874	63	218	1,860	1,880	5,340	1,050	942	12,800	1,750	673	63
24	555	173	56	1,810	1,870	3,890	746	946	12,400	1,810	716	62
25	258	310	56	1,800	1,850	2,380	639	997	11,900	1,890	816	62
26	258	208	55	1,450	1,840	1,190	1,030	955	11,300	4,610	542	62
27	257	58	55	876	1,660	316	1,350	1,060	10,800	7,620	264	62
28	256	58	55	801	1,360	521	1,350	1,010	10,200	8,100	264	63
29	255	57	56	e64	1,360	1,100	1,340	1,070	9,580	8,460	263	62
30	254	55	56	57	---	1,900	1,340	1,070	9,120	8,580	266	62
31	167	---	136	56	---	2,720	---	1,060	---	8,440	329	---
MEAN	723	208	251	600	837	6,042	1,526	967	4,908	6,612	2,210	182
MAX	3,320	368	887	1,860	1,890	13,200	3,490	1,870	12,800	10,500	9,250	572
MIN	40	55	55	54	55	196	639	256	67	1,750	263	60
AC-FT	44,440	12,370	15,460	36,890	48,130	371,500	90,790	59,450	292,000	406,600	135,900	10,830

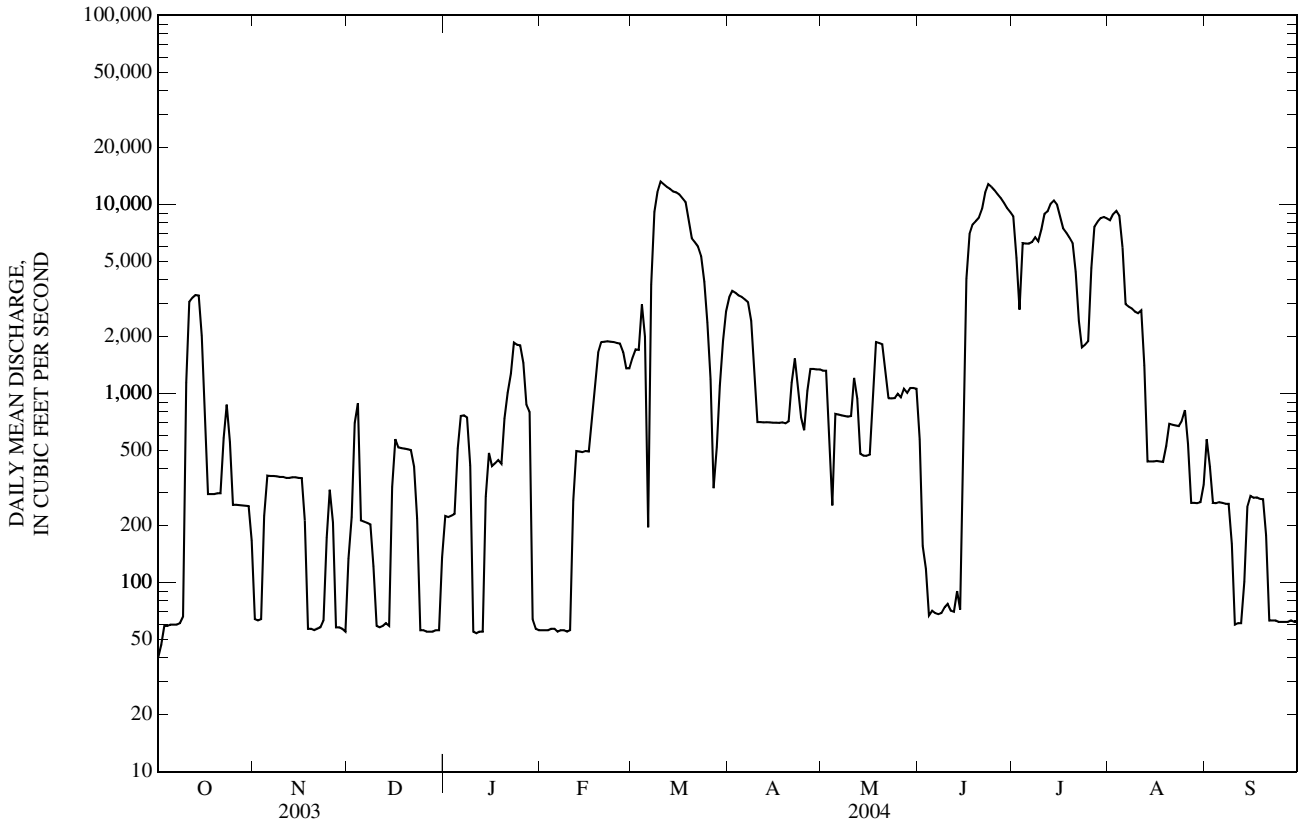
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	1,297	1,402	1,005	754	976	1,852	2,208	2,403	3,426	2,113	939	855
MAX	11,540	15,410	6,925	3,578	5,363	7,637	8,191	9,790	12,890	7,332	10,330	6,599
(WY)	(1974)	(1999)	(1993)	(1973)	(1973)	(1973)	(1984)	(1999)	(1995)	(1969)	(1993)	(1962)
MIN	22.4	12.0	12.4	17.7	17.1	13.8	21.5	44.5	162	66.0	44.3	30.8
(WY)	(1989)	(1991)	(1991)	(1989)	(1989)	(1981)	(1981)	(1989)	(1988)	(1966)	(2002)	(1963)

07182510 NEOSHO RIVER AT BURLINGTON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL MEAN	933		2,100		1,603	
HIGHEST ANNUAL MEAN					4,982	
LOWEST ANNUAL MEAN					190	
HIGHEST DAILY MEAN	9,940	Apr 29	13,200	Mar 10	23,900	Sep 28, 1962
LOWEST DAILY MEAN	27	Feb 2	40	Oct 1	0.86	Nov 28, 1980
ANNUAL SEVEN-DAY MINIMUM	28	Feb 2	55	Oct 1	1.3	Sep 14, 1963
MAXIMUM PEAK FLOW			13,400	Mar 10	26,200	Sep 13, 1961
MAXIMUM PEAK STAGE			20.14	Mar 10	31.53	Sep 13, 1961
INSTANTANEOUS LOW FLOW			38	Oct 1	0.00	Nov 28, 1980
ANNUAL RUNOFF (AC-FT)	675,200		1,524,000		1,161,000	
10 PERCENT EXCEEDS	3,310		8,240		5,110	
50 PERCENT EXCEEDS	234		630		392	
90 PERCENT EXCEEDS	29		59		28	

e Estimated



ARKANSAS RIVER BASIN

07183000 NEOSHO RIVER NEAR IOLA, KS

LOCATION.--Lat 37°53'27", long 95°25'50", in SW ¼ NE ¼ NE ¼ sec.9, T.25 S., R.18 E., Allen County, Hydrologic Unit 11070204, on left bank 1.0 mi downstream from Elm Creek, 3.0 mi southwest of Iola, and at mile 287.4.

DRAINAGE AREA.--3,818 mi².

PERIOD OF RECORD.--August 1895 to December 1903 (published as "at Iola"), October 1917 to current year. Monthly discharge only for some periods, published in WSP 1311. Figures of daily discharge for August 1895 to January 1898, published in previous reports, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1037: 1819-24, 1926-29, 1935(M). WSP 1117: Drainage area. WSP 1311: 1895-98. WSP 1391: 1896(M), 1899, 1901-02(M), 1903-04.

GAGE.--Water-stage recorder. Datum of gage is 914.77 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1917, nonrecording gage at tailgate of flume at mill dam, 4.8 mi upstream at datum 12.2 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable regulation since 1963 by John Redmond Reservoir (station 07182450), 59.3 mi upstream. Satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	247	67	123	183	1,440	3,100	1,360	948	8,590	7,770	280
2	76	132	74	257	171	1,760	3,250	1,350	579	9,110	7,610	474
3	64	94	246	263	181	1,800	3,360	1,300	228	4,680	8,460	394
4	64	93	634	271	220	9,910	3,260	697	183	7,590	8,350	254
5	75	135	793	262	197	27,500	3,160	353	121	9,520	7,780	250
6	76	357	287	456	181	22,400	3,060	746	98	7,650	4,230	300
7	75	368	239	683	162	3,900	2,970	752	94	6,770	3,050	253
8	75	367	235	656	150	7,040	2,860	733	87	6,470	2,970	243
9	89	e369	255	765	152	9,660	2,070	718	124	8,730	2,890	242
10	88	e368	220	472	146	11,100	1,100	712	2,050	9,630	2,780	208
11	1,320	e372	104	151	165	12,000	775	716	2,150	8,660	2,800	106
12	2,820	e368	75	95	355	11,600	770	1,150	6,020	8,650	2,830	73
13	2,960	e361	82	83	738	11,300	747	897	4,510	8,710	1,120	66
14	3,020	e361	84	80	693	11,000	722	788	2,090	9,560	456	65
15	2,960	e367	85	164	669	10,700	703	906	662	9,530	427	178
16	1,540	e367	221	457	739	10,600	696	725	1,150	9,060	419	266
17	663	e380	692	468	669	10,300	687	608	5,800	7,480	420	253
18	339	e328	615	1,790	892	9,850	676	2,320	8,190	6,900	411	251
19	318	e134	560	1,750	1,510	9,270	672	2,950	8,670	6,550	415	250
20	315	e79	531	828	2,280	7,020	789	1,930	7,960	6,180	479	245
21	313	70	522	908	2,440	6,250	1,060	1,750	8,350	5,700	604	214
22	309	69	521	1,060	2,090	5,960	1,560	1,180	9,550	3,620	604	106
23	529	81	455	1,430	1,960	5,650	1,600	899	11,100	2,220	595	71
24	806	73	315	1,820	1,900	4,870	5,060	868	11,500	1,930	626	65
25	562	90	155	1,840	1,860	3,070	6,540	935	11,200	2,900	640	64
26	295	287	113	2,870	1,830	2,270	1,990	977	10,700	2,700	716	65
27	284	274	113	1,740	1,800	988	1,510	1,370	10,600	5,940	515	64
28	284	128	119	1,040	1,550	3,970	1,460	1,470	10,900	7,280	299	65
29	279	75	154	926	1,350	4,600	1,370	1,120	9,610	7,670	259	63
30	283	69	132	335	---	2,230	1,330	1,040	8,870	7,920	252	63
31	282	---	114	271	---	2,190	---	981	---	7,930	250	---
MEAN	686	229	284	784	939	7,813	1,964	1,106	5,136	6,962	2,291	183
MAX	3,020	380	793	2,870	2,440	27,500	6,540	2,950	11,500	9,630	8,460	474
MIN	64	69	67	80	146	988	672	353	87	1,930	250	63
AC-FT	42,200	13,610	17,480	48,230	54,020	480,400	116,800	68,040	305,600	428,100	140,900	10,890

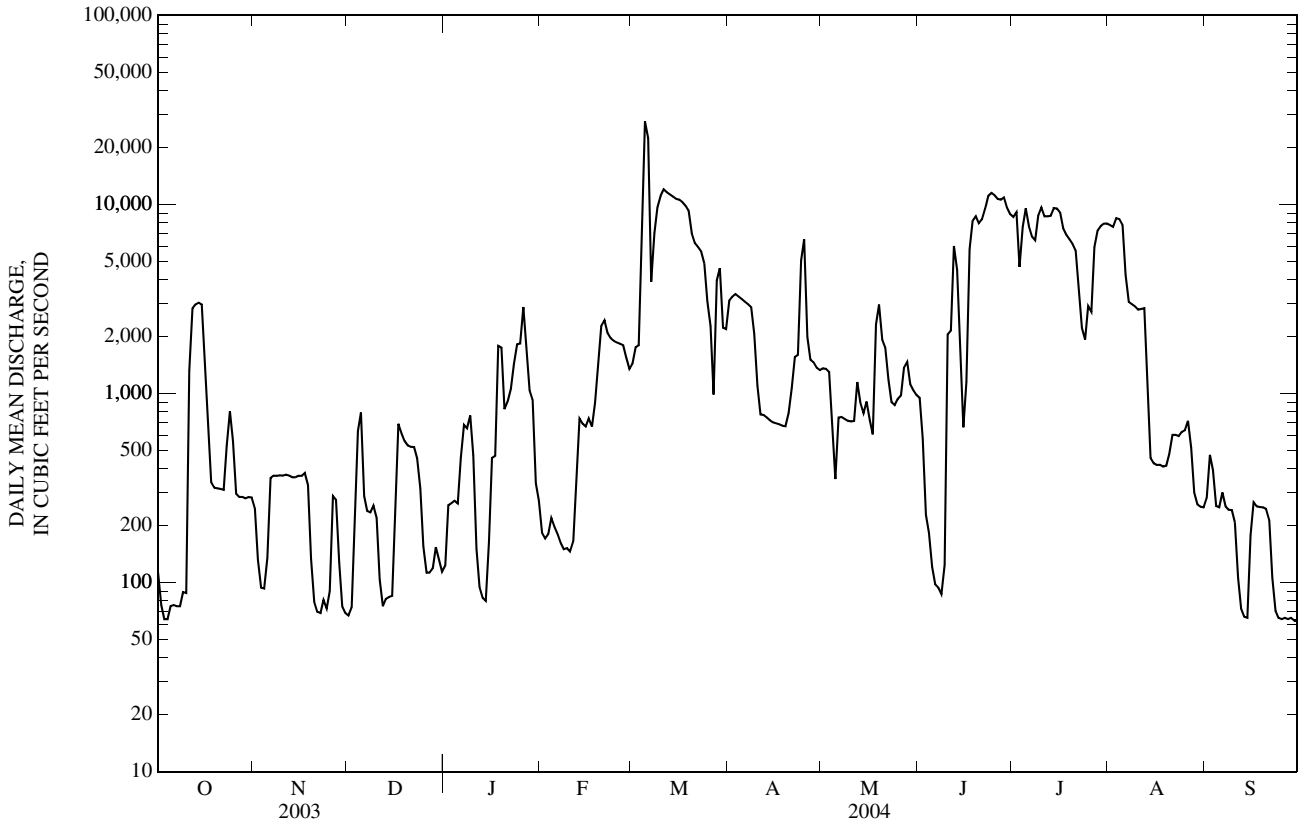
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 2004, BY WATER YEAR (WY)

MEAN	1,512	1,433	988	801	1,020	1,993	2,864	3,005	3,670	2,594	1,133	1,346
MAX	15,890	18,520	9,116	4,773	6,994	11,010	19,580	14,270	15,390	43,540	10,700	11,140
(WY)	(1942)	(1999)	(1993)	(1993)	(1949)	(1973)	(1944)	(1938)	(1995)	(1951)	(1993)	(1951)
MIN	0.21	0.52	1.39	1.33	3.24	11.4	19.8	82.3	126	10.8	1.10	0.64
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1956)	(1981)	(1967)	(1933)	(1954)	(1936)	(1956)

07183000 NEOSHO RIVER NEAR IOLA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1899 - 2004	
ANNUAL MEAN	1,064		2,378		1,865	
HIGHEST ANNUAL MEAN					6,635	
LOWEST ANNUAL MEAN					141	
HIGHEST DAILY MEAN	13,900	Sep 1	27,500	Mar 5	344,000	Jul 13, 1951
LOWEST DAILY MEAN	23	Jan 24	63	Sep 29	0.00	Aug 19, 1936
ANNUAL SEVEN-DAY MINIMUM	26	Jan 7	64	Sep 24	0.00	Aug 19, 1936
MAXIMUM PEAK FLOW			28,500	Mar 5	436,000	Jul 13, 1951
MAXIMUM PEAK STAGE			25.71	Mar 5	43.00	Jul 13, 1951
INSTANTANEOUS LOW FLOW			59	Sep 30	0.00	at times
ANNUAL RUNOFF (AC-FT)	770,600		1,726,000		1,351,000	
10 PERCENT EXCEEDS	3,720		8,380		5,240	
50 PERCENT EXCEEDS	279		716		400	
90 PERCENT EXCEEDS	31		90		35	

e Estimated



ARKANSAS RIVER BASIN

07183500 NEOSHO RIVER NEAR PARSONS, KS

LOCATION.--Lat 37°20'24", long 95°06'35", in NE ¼ NW ¼ NE ¼ sec.21, T.31 S., R.21 E., Labette County, Hydrologic Unit 11070205, on right bank at downstream side of bridge on U.S. Highway 160, 0.4 mi upstream from Hickory Creek, 2.7 mi upstream from dam of Kansas Army Ammunition Plant, 8.0 mi east of Parsons, and at mile 204.1.

DRAINAGE AREA.--4,905 mi².

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921, published in WSP 1311.

REVISED RECORDS.--WSP 807: 1922-23. WSP 1391: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 810.25 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1929, nonrecording gage at bridge 0.5 mi downstream at datum 0.04 ft lower. Oct. 1, 1929, to Feb. 7, 1935, nonrecording gage, and Feb. 8, 1935, to Dec. 7, 1966, water-stage recorder at present site and datum. Dec. 8, 1966, to June 8, 1987, water-stage recorder 2.7 mi downstream at present datum.

REMARKS.--Records good. Flow moderately regulated since 1963 by John Redmond Reservoir (station 07182450), 139.6 mi upstream. Small diversion by the Kansas Army Ammunition Plant. Records include flow of Hickory Creek. Satellite telemeter at station.

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

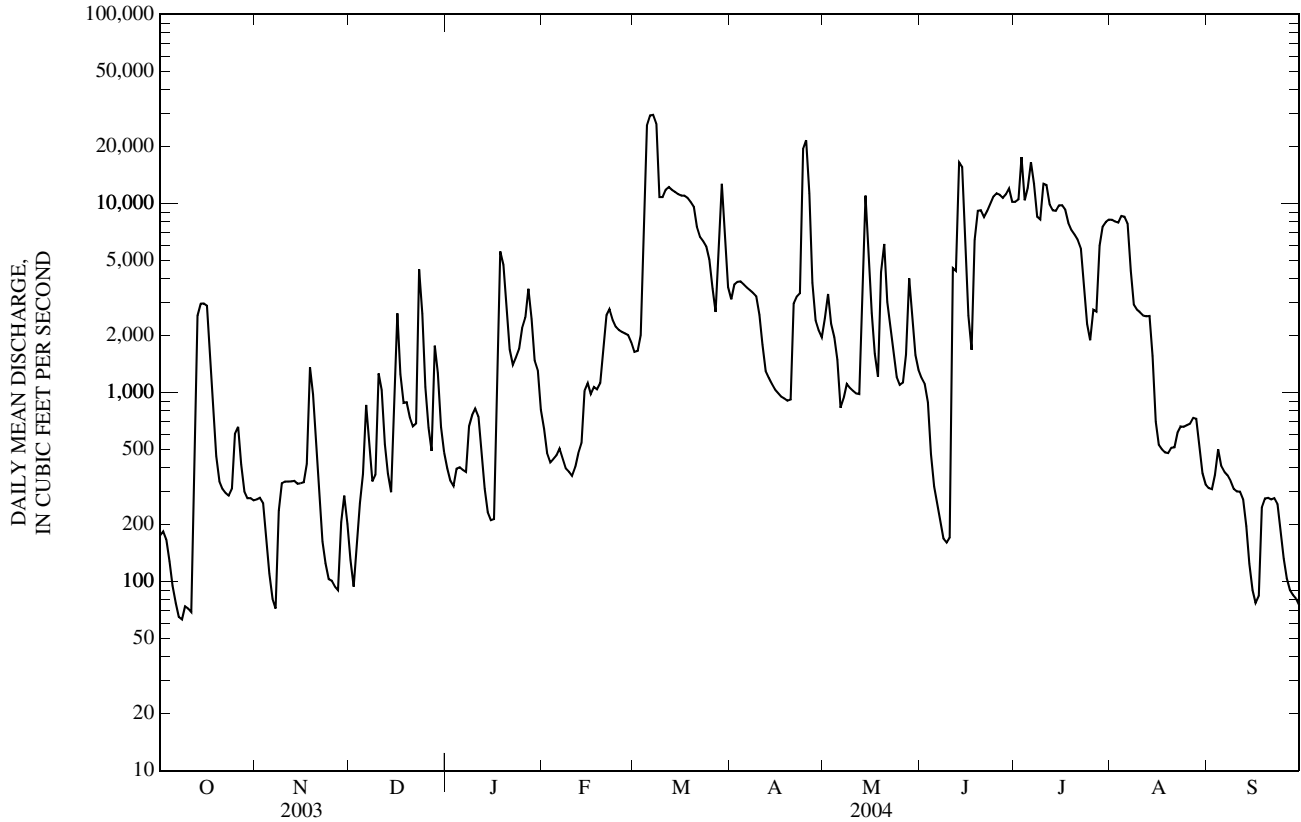
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	272	130	397	642	1,640	3,110	2,470	1,190	10,200	8,200	312
2	184	277	94	342	478	1,660	3,720	3,320	1,110	10,500	8,030	308
3	167	260	151	320	427	2,010	3,850	2,310	886	17,600	7,920	367
4	128	176	260	395	444	8,710	3,870	1,960	473	10,400	8,590	500
5	95	110	370	402	466	25,800	3,730	1,490	318	12,100	8,510	409
6	77	81	860	390	505	29,200	3,590	830	262	16,500	7,830	381
7	65	72	547	380	445	29,400	3,480	930	210	12,700	4,400	365
8	63	237	339	662	397	26,400	3,360	1,110	169	8,500	2,920	341
9	74	331	367	760	381	10,800	3,230	1,060	161	8,230	2,740	309
10	72	338	1,260	822	362	10,800	2,570	1,020	171	12,700	2,650	300
11	69	338	1,030	746	403	11,800	1,790	990	4,540	12,500	2,550	299
12	348	339	533	467	477	12,200	1,300	981	4,390	9,870	2,530	273
13	2,550	341	372	309	540	11,800	1,200	2,730	16,500	9,200	2,540	196
14	2,950	329	297	233	1,020	11,500	1,110	11,000	15,600	9,150	1,560	124
15	2,960	331	854	211	1,120	11,200	1,040	5,380	7,390	9,770	701	90
16	2,880	335	2,620	214	982	11,000	993	2,630	2,550	9,790	529	77
17	1,750	419	1,250	855	1,070	11,000	952	1,600	1,680	9,280	500	84
18	903	1,360	882	5,570	1,040	10,700	929	1,210	6,410	7,880	482	246
19	461	978	889	4,730	1,120	10,200	904	4,330	9,140	7,230	478	275
20	339	463	739	3,030	1,740	9,590	918	6,110	9,220	6,840	510	277
21	309	266	663	1,690	2,560	7,540	2,950	3,010	8,480	6,440	513	272
22	294	163	686	1,400	2,760	6,650	3,220	2,200	9,130	5,780	613	276
23	285	125	4,480	1,530	2,420	6,320	3,350	1,640	9,960	3,700	661	257
24	310	103	2,610	1,700	2,230	5,920	19,400	1,210	10,900	2,300	659	190
25	604	101	1,070	2,190	2,140	5,050	21,600	1,100	11,300	1,890	671	132
26	659	94	651	2,490	2,090	3,550	11,300	1,130	11,100	2,740	683	104
27	416	90	491	3,540	2,050	2,670	3,800	1,590	10,700	2,680	735	90
28	300	206	1,770	2,450	2,010	6,650	2,410	4,020	11,200	5,980	726	85
29	276	285	1,270	1,480	1,840	12,700	2,140	2,460	12,000	7,540	521	81
30	276	202	656	1,310	---	7,270	1,960	1,580	10,200	7,980	374	75
31	269	---	484	809	---	3,610	---	1,320	---	8,210	326	---
MEAN	655	301	925	1,349	1,178	10,490	3,926	2,410	6,245	8,586	2,602	236
MAX	2,960	1,360	4,480	5,570	2,760	29,400	21,600	11,000	16,500	17,600	8,590	500
MIN	63	72	94	211	362	1,640	904	830	161	1,890	326	75
AC-FT	40,280	17,900	56,880	82,960	67,750	645,300	233,600	148,200	371,600	528,000	160,000	14,070

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2004, BY WATER YEAR (WY)

MEAN	2,256	2,228	1,456	1,255	1,676	3,016	4,276	4,416	5,202	3,617	1,357	1,909
MAX	25,520	20,340	12,760	7,762	9,492	18,100	25,520	22,110	20,610	52,780	11,140	15,030
(WY)	(1987)	(1999)	(1993)	(1973)	(1949)	(1973)	(1927)	(1961)	(1995)	(1951)	(1993)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	8.10	18.6	282	210	10.8	0.00	0.90
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1981)	(1967)	(1980)	(1954)	(1936)	(1956)

07183500 NEOSHO RIVER NEAR PARSONS, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1922 - 2004	
ANNUAL MEAN	1,419		3,260		2,722	
HIGHEST ANNUAL MEAN					8,611 1993	
LOWEST ANNUAL MEAN					173 1953	
HIGHEST DAILY MEAN	15,100	Sep 2	29,400	Mar 7	366,000	Jul 14, 1951
LOWEST DAILY MEAN	24	Aug 22	63	Oct 8	0.00	Aug 26, 1934
ANNUAL SEVEN-DAY MINIMUM	30	Aug 19	74	Oct 5	0.00	Aug 26, 1934
MAXIMUM PEAK FLOW			30,600	Mar 8	410,000	Jul 14, 1951
MAXIMUM PEAK STAGE			25.65	Mar 8	40.20	Jul 14, 1951
INSTANTANEOUS LOW FLOW			62	Oct 7	0.00	at times
ANNUAL RUNOFF (AC-FT)	1,027,000		2,366,000		1,972,000	
10 PERCENT EXCEEDS	4,570		10,200		8,030	
50 PERCENT EXCEEDS	370		1,110		588	
90 PERCENT EXCEEDS	50		182		42	



ARKANSAS RIVER BASIN

07184000 LIGHTNING CREEK NEAR MCCUNE, KS

LOCATION.--Lat 37°16'52", long 95°01'57", in NE ¼ NE ¼ sec.7, T.32 S., R.22 E., Cherokee County, Hydrologic Unit 11070205, on right bank at downstream side of county highway bridge, 5.0 mi south of McCune, 13.0 mi southeast of Parsons, and at mile 12.6.

DRAINAGE AREA.--197 mi².

PERIOD OF RECORD.--October 1938 to September 1946, October 1959 to current year.

REVISED RECORDS.--WDR KS-86-1: 1993, WDR KS-87-1: 1993.

GAGE.--Water-stage recorder. Datum of gage is 818.10 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Mar. 10, 1945, nonrecording gage and Mar. 10, 1945, to Sept. 30, 1946, water-stage recorder at present site and datum. Oct. 1, 1959, to May 26, 1960, water-stage recorder 100 ft downstream at present datum. Satellite telemeter at station.

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 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 16	1315	2,250	11.60	Mar 29	0215	2,400	12.06
Dec 23	1845	2,330	11.86	Apr 25	0000	20,100	16.95
Dec 28	1600	1,820	10.26	May 14	1400	2,440	12.17
Mar 5	1000	*20,800	*17.00				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	3.3	6.7	76	25	18	112	96	4.4	50	7.5	0.08
2	1.0	3.6	5.3	62	25	21	81	267	3.5	122	4.1	0.07
3	1.0	4.0	24	55	30	23	62	120	3.5	570	3.1	0.05
4	0.99	4.3	135	52	26	1,680	50	61	3.2	239	2.6	0.04
5	1.1	4.2	76	68	25	13,600	41	41	2.8	117	2.2	0.03
6	1.5	4.5	41	e40	27	3,550	37	29	2.8	241	1.7	0.63
7	1.9	4.3	27	30	30	353	36	23	2.8	237	1.2	0.71
8	2.1	4.3	20	28	26	158	30	19	2.6	112	0.98	0.46
9	2.7	4.3	121	27	23	116	26	16	3.0	45	0.90	0.27
10	2.6	4.4	1,340	26	25	89	30	14	4.7	39	0.91	0.09
11	2.4	4.6	295	25	32	68	69	13	8.8	57	0.89	0.14
12	2.8	4.7	180	24	46	55	64	12	11	30	0.77	0.12
13	2.8	4.6	125	24	55	47	51	255	668	19	0.61	0.07
14	8.7	4.6	117	24	44	45	37	2,190	962	13	0.50	0.04
15	6.8	4.6	423	23	37	43	28	696	157	8.6	0.42	0.03
16	6.7	4.7	2,020	24	38	43	23	154	84	5.7	0.37	0.03
17	5.3	6.2	513	398	39	44	21	94	45	4.6	0.34	0.02
18	5.6	193	143	e1,350	52	42	19	59	137	4.2	0.32	0.02
19	5.7	216	98	e300	66	37	17	44	451	3.3	0.32	0.01
20	5.2	81	68	e130	69	33	16	32	103	2.6	0.45	0.00
21	5.0	38	51	e100	50	29	42	26	383	2.0	0.37	0.00
22	3.6	26	84	76	34	25	144	21	295	1.6	0.29	0.00
23	2.6	19	1,860	63	27	22	76	17	81	1.5	0.27	0.00
24	3.3	22	1,010	53	24	20	5,160	14	37	2.0	0.29	0.00
25	3.4	32	179	53	25	19	10,600	12	23	1.8	0.25	0.00
26	3.9	22	117	69	23	30	1,340	11	16	1.6	0.24	0.00
27	4.2	17	107	62	20	32	211	10	11	1.3	0.19	0.00
28	4.0	13	1,380	46	18	1,300	108	9.2	86	1.1	0.21	0.00
29	3.9	11	628	39	17	1,530	69	8.4	103	2.7	0.18	0.00
30	3.3	8.1	163	37	---	282	51	6.9	34	11	0.13	0.00
31	3.3	---	107	27	---	180	---	5.5	---	9.4	0.11	---
MEAN	3.50	25.8	370	110	33.7	759	622	141	124	63.1	1.06	0.10
MAX	8.7	216	2,020	1,350	69	13,600	10,600	2,190	962	570	7.5	0.71
MIN	0.99	3.3	5.3	23	17	18	16	5.5	2.6	1.1	0.11	0.00
AC-FT	215	1,530	22,740	6,770	1,940	46,680	36,990	8,680	7,400	3,880	65	5.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	178	169	115	99.7	131	207	254	289	280	91.8	39.1	144
MAX	2,924	907	751	516	1,033	1,091	1,700	2,227	1,612	1,418	488	2,102
(WY)	(1987)	(1975)	(1993)	(1946)	(1985)	(1973)	(1994)	(1943)	(1995)	(1992)	(1985)	(1993)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.18	7.58	0.55	0.00	0.00	0.00
(WY)	(1939)	(1939)	(1939)	(1939)	(1939)	(1964)	(1981)	(1988)	(1980)	(1991)	(1946)	(1946)

07184000 LIGHTNING CREEK NEAR MCCUNE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL MEAN	74.5		189		166	
HIGHEST ANNUAL MEAN					498	
LOWEST ANNUAL MEAN					18.0	
HIGHEST DAILY MEAN	2,660	Sep 1	13,600	Mar 5	42,400	Sep 25, 1993
LOWEST DAILY MEAN	0.00	Aug 3	0.00	Sep 20	0.00	Oct 1, 1938
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 8	0.00	Sep 20	0.00	Oct 1, 1938
MAXIMUM PEAK FLOW			20,800	Mar 5	67,500	Sep 25, 1993
MAXIMUM PEAK STAGE			17.00	Mar 5	19.79	Sep 25, 1993
INSTANTANEOUS LOW FLOW			0.00	Sep 19	0.00	most years
ANNUAL RUNOFF (AC-FT)	53,940		136,900		120,500	
10 PERCENT EXCEEDS	123		212		254	
50 PERCENT EXCEEDS	4.3		23		11	
90 PERCENT EXCEEDS	0.07		0.29		0.00	

e Estimated

