06879100 KANSAS RIVER AT FORT RILEY, KS

LOCATION.--Lat 39°03'12", long 96°46'36", in NE ¼ SW ¼ NW ¼ sec.33, T.11 S., R.6 E., Geary County, Hydrologic Unit 10270101, on right bank at downstream side of military highway bridge, 1.6 mi downstream from the confluence of the Republican and Smoky Hill Rivers, and at mile 168.9.

DRAINAGE AREA.--44,870 mi^2, of which a large area is noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is 1,034.69 ft above NGVD of 1929.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1951 reached a stage of 34.5 ft, 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	1,070	392	567	572	e650	436	708	458	311	1,140	913	425
2	1,050	399	564	568	e650	426	602	452	329	1,150	1,060	408
3	1,040	397	574	582	e640	437	564	460	385	2,540	1,290	390
4	1,040	399	572	577	e630	510	567	456	355	3,150	1,130	376
5	1,020	399	574	508	e620	3,350	524	430	300	2,720	1,010	392
6	1,010	415	574	533	e620	8,120	485	398	293	1,980	943	381
7	1,000	444	569	551	e620	7,500	461	357	267	4,380	927	351
8	1,020	427	570	529	e640	5,610	437	329	257	3,810	898	350
9	1,040	419	593	538	e660	4,130	413	310	251	3,330	868	349
10	992	408	551	533	666	2,900	402	351	287	4,400	828	337
11	571	400	550	542	657	2,060	391	328	282	5,670	852	330
12	788	396	546	544	676	1,540	385	430	255	5,090	858	319
13	863	390	557	541	674	1,350	375	468	296	5,190	868	304
14	646	379	593	572	664	1,230	372	436	332	5,120	829	291
15	565	370	613	693	674	1,070	363	416	1,020	4,380	835	295
16	531	365	587	680	666	776	359	438	583	4,410	786	291
17	506	370	584	616	613	736	355	396	357	3,910	601	288
18	488	378	578	612	382	707	337	378	451	3,720	564	287
19	476	369	578	604	411	681	334	459	1,990	4,070	550	285
20	466	367	588	602	469	657	337	898	1,060	3,940	531	291
21	458	386	582	606	512	638	335	875	923	3,850	520	298
22	451	533	584	604	529	596	349	682	734	3,280	509	287
23	443	589	587	606	538	498	363	550	663	903	504	300
24	435	578	591	670	534	488	430	468	612	2,210	527	286
25	424	574	585	686	496	481	469	418	549	6,920	561	286
26	414	573	582	686	463	471	460	379	470	4,360	838	302
27	406	573	576	647	436	483	479	358	506	3,320	915	296
28	400	572	579	e660	421	484	444	338	1,320	2,040	808	276
29	393	572	588	e680	431	1,110	398	316	2,060	1,360	482	284
30	393	571	583	e660	---	1,070	428	332	1,060	1,120	450	339
31	393	---	580	e660	---	844	---	316	---	1,020	432	---
MEAN	671	447	577	602	574	1,658	431	441	619	3,370	764	323
MAX	1,070	589	613	693	676	8,120	708	898	2,060	6,920	1,290	425
MIN	393	365	546	508	382	426	334	310	251	903	432	276
AC-FT	41,240	26,590	35,500	37,020	33,010	101,900	25,640	27,130	36,810	207,200	46,980	19,230

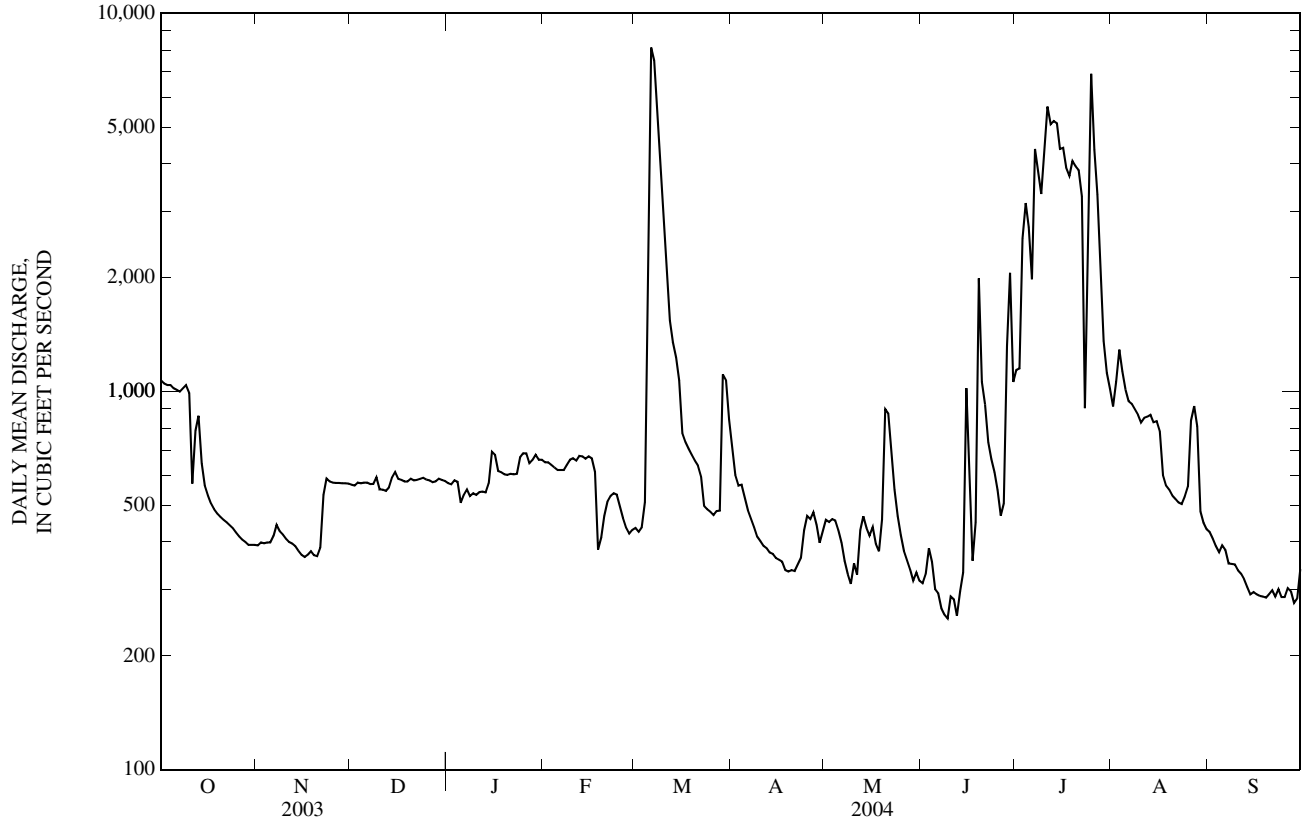
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	2,341	1,997	1,786	1,224	1,853	2,896	3,242	4,021	4,147	4,301	2,819	2,215
MAX	26,340	16,650	10,070	7,041	8,689	13,800	16,580	16,640	18,730	40,990	24,050	16,210
(WY)	(1974)	(1974)	(1974)	(1974)	(1993)	(1973)	(1987)	(1993)	(1995)	(1993)	(1993)	(1993)
MIN	335	226	204	207	182	204	210	191	408	240	215	323
(WY)	(1981)	(1992)	(1992)	(1992)	(1992)	(1992)	(1992)	(1992)	(1988)	(1991)	(2003)	(2004)

06879100 KANSAS RIVER AT FORT RILEY, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL MEAN	571		879		2,742	
HIGHEST ANNUAL MEAN					12,500	1993
LOWEST ANNUAL MEAN					515	2003
HIGHEST DAILY MEAN	6,930	Sep 16	8,120	Mar 6	83,700	Jul 25, 1993
LOWEST DAILY MEAN	114	Aug 17	251	Jun 9	114	Aug 17, 2003
ANNUAL SEVEN-DAY MINIMUM	124	Aug 14	270	Jun 6	124	Aug 14, 2003
MAXIMUM PEAK FLOW			9,070	Mar 6	87,600	Jul 26, 1993
MAXIMUM PEAK STAGE			10.24	Mar 6	27.93	Jul 26, 1993
INSTANTANEOUS LOW FLOW			242	Jun 12	100	Dec 24, 1966
ANNUAL RUNOFF (AC-FT)	413,100		638,300		1,986,000	
10 PERCENT EXCEEDS	1,000		1,350		6,700	
50 PERCENT EXCEEDS	428		551		1,190	
90 PERCENT EXCEEDS	234		332		386	

e Estimated



06879650 KINGS CREEK NEAR MANHATTAN, KS

LOCATION.--Lat 39°06'07", long 96°35'42", in NW ¼ NW ¼ NW ¼ sec.18, T.11 S., R.8 E., Riley County, Hydrologic Unit 10270101, on left bank, 6.0 mi south of Manhattan, and at mile 2.9.

DRAINAGE AREA.--4.09 mi^2.

PERIOD OF RECORD.--April 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,094.65 ft above NGVD of 1929.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0100	79	4.69	Jul 2	0200	*5,860	*12.00
Jun 27	1030	87	5.01	Aug 24	0130	155	5.42

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

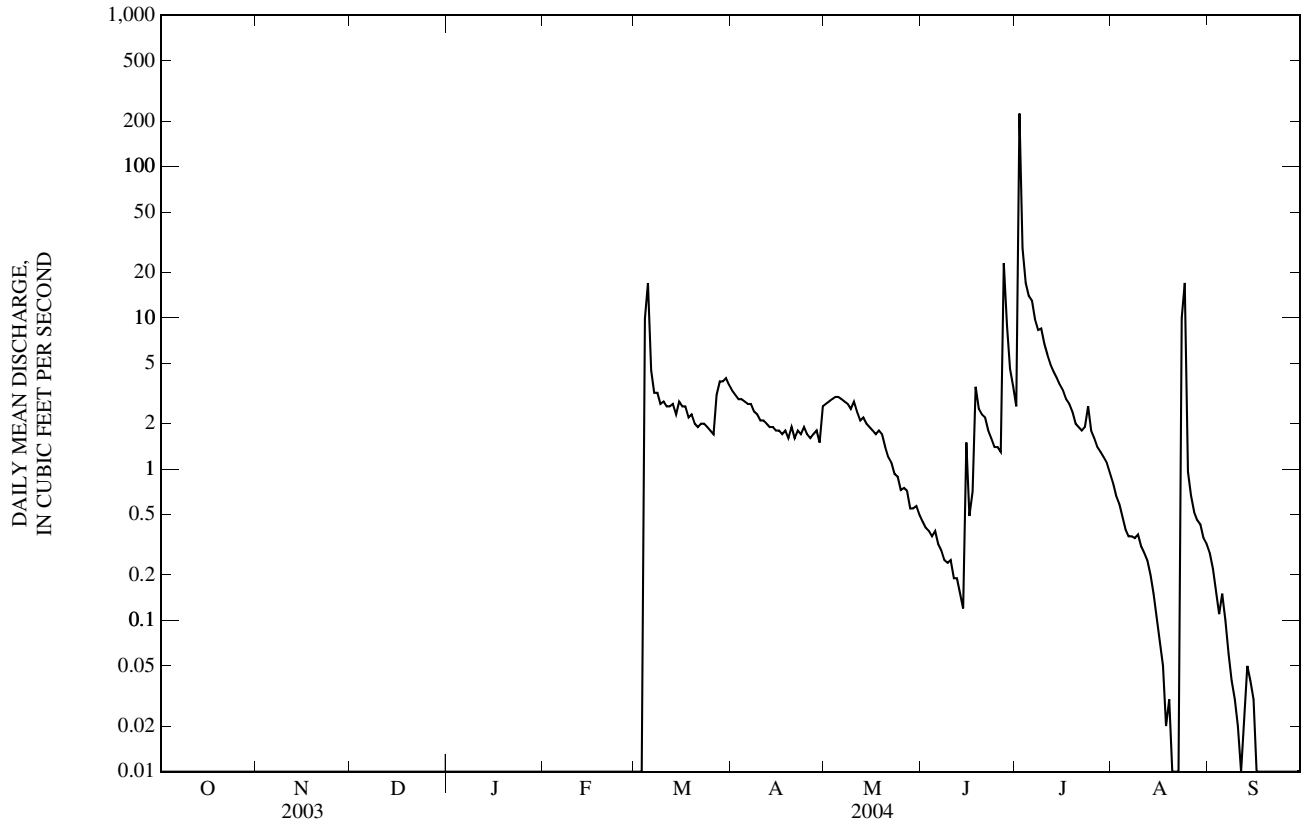
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	3.3	2.7	0.45	2.6	0.81	0.28
2	0.00	0.00	0.00	0.00	0.00	0.00	3.1	2.8	0.41	224	0.67	0.22
3	0.00	0.00	0.00	0.00	0.00	0.00	2.9	2.9	0.39	29	0.59	0.16
4	0.00	0.00	0.00	0.00	0.00	9.9	2.9	3.0	0.36	17	0.49	0.11
5	0.00	0.00	0.00	0.00	0.00	17	2.8	3.0	0.39	14	0.40	0.15
6	0.00	0.00	0.00	0.00	0.00	4.5	2.7	2.9	0.32	13	0.36	0.10
7	0.00	0.00	0.00	0.00	0.00	3.2	2.7	2.8	0.29	9.8	0.36	0.06
8	0.00	0.00	0.00	0.00	0.00	3.2	2.4	2.7	0.25	8.3	0.35	0.04
9	0.00	0.00	0.00	0.00	0.00	2.7	2.3	2.5	0.24	8.5	0.37	0.03
10	0.00	0.00	0.00	0.00	0.00	2.8	2.1	2.8	0.25	6.7	0.31	0.02
11	0.00	0.00	0.00	0.00	0.00	2.6	2.1	2.4	0.19	5.7	0.28	0.01
12	0.00	0.00	0.00	0.00	0.00	2.6	2.0	2.1	0.19	4.9	0.25	0.02
13	0.00	0.00	0.00	0.00	0.00	2.7	1.9	2.2	0.15	4.4	0.20	0.05
14	0.00	0.00	0.00	0.00	0.00	2.3	1.9	2.0	0.12	4.0	0.15	0.04
15	0.00	0.00	0.00	0.00	0.00	2.8	1.8	1.9	1.5	3.6	0.10	0.03
16	0.00	0.00	0.00	0.00	0.00	2.6	1.8	1.8	0.49	3.3	0.07	0.00
17	0.00	0.00	0.00	0.00	0.00	2.6	1.7	1.7	0.71	2.9	0.05	0.00
18	0.00	0.00	0.00	0.00	0.00	2.2	1.8	1.8	3.5	2.7	0.02	0.00
19	0.00	0.00	0.00	0.00	0.00	2.3	1.6	1.7	2.5	2.4	0.03	0.00
20	0.00	0.00	0.00	0.00	0.00	2.0	1.9	1.4	2.3	2.0	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	1.9	1.6	1.2	2.2	1.9	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	2.0	1.8	1.1	1.8	1.8	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	2.0	1.7	0.93	1.6	1.9	10	0.00
24	0.00	0.00	0.00	0.00	0.00	1.9	1.9	0.89	1.4	2.6	17	0.00
25	0.00	0.00	0.00	0.00	0.00	1.8	1.7	0.73	1.4	1.8	0.96	0.00
26	0.00	0.00	0.00	0.00	0.00	1.7	1.6	0.75	1.3	1.6	0.67	0.00
27	0.00	0.00	0.00	0.00	0.00	3.1	1.7	0.72	23	1.4	0.52	0.00
28	0.00	0.00	0.00	0.00	0.00	3.8	1.8	0.55	8.9	1.3	0.46	0.00
29	0.00	0.00	0.00	0.00	0.00	3.8	1.5	0.55	4.6	1.2	0.43	0.00
30	0.00	0.00	0.00	0.00	---	4.0	2.6	0.57	3.5	1.1	0.35	0.00
31	0.00	---	0.00	0.00	---	3.6	---	0.50	---	0.95	0.32	---
MEAN	0.00	0.00	0.00	0.00	0.00	3.15	2.12	1.79	2.16	12.5	1.18	0.04
MAX	0.00	0.00	0.00	0.00	0.00	17	3.3	3.0	23	224	17	0.28
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.50	0.12	0.95	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	194	126	110	128	766	73	2.6

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

MEAN	1.29	1.55	0.79	0.45	1.06	2.89	5.21	6.42	3.03	4.22	0.56	0.22
MAX	10.9	24.7	8.09	2.32	4.51	12.5	21.9	43.7	10.2	43.5	4.11	2.46
(WY)	(1999)	(1999)	(1993)	(1999)	(1993)	(1984)	(1999)	(1995)	(1982)	(1993)	(1998)	(1989)
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)	(1980)	(1980)	(1980)	(1980)	(1980)	(1981)	(1981)	(1989)	(1989)	(1988)	(1980)	(1980)

06879650 KINGS CREEK NEAR MANHATTAN, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL MEAN	0.70		1.93		2.31	
HIGHEST ANNUAL MEAN					9.47	1993
LOWEST ANNUAL MEAN					0.20	1989
HIGHEST DAILY MEAN	43	Jun 29	224	Jul 2	464	May 13, 1995
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1979
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1979
MAXIMUM PEAK FLOW			5,860	Jul 2	10,200	May 13, 1995
MAXIMUM PEAK STAGE			12.00	Jul 2	13.98	May 13, 1995
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	many years
ANNUAL RUNOFF (AC-FT)	506		1,400		1,680	
10 PERCENT EXCEEDS	2.4		2.9		5.0	
50 PERCENT EXCEEDS	0.00		0.05		0.10	
90 PERCENT EXCEEDS	0.00		0.00		0.00	



06882510 BIG BLUE RIVER AT MARYSVILLE, KS

LOCATION.--Lat 39°50'31", long 96°39'43", in NE ¼ NW ¼ NE ¼ sec.32, T.2 S., R.7 E., Marshall County, Hydrologic Unit 10270205, on left bank at upstream side of bridge on U.S. Highway 36, 0.3 mi west of Marysville, and at mile 84.6.

DRAINAGE AREA.--4,777 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 1,110.31 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Powerplant located 0.8 mi upstream. Some pump diversions for irrigation upstream from station. Natural flow affected by ground-water withdrawals for irrigation and return flow from irrigated areas. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1903 reached a stage of 43.79 ft, from floodmarks. Flood of June 9, 1941, reached a stage of 45.39 ft, from floodmarks; no discharge determined. Flood of June 15, 1951, reached a stage of 40.22 ft, from U.S. Weather Bureau wire-weight gage reading; discharge 55,600 ft^3/s, by contracted-opening measurement of peak flow. Flood of Oct. 13, 1973, reached a stage of 43.86 ft, from wire-weight gage readings.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	1000	13,300	25.17	May 30	1700	*19,800	*29.26

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	181	118	130	184	e103	1,530	683	272	4,400	361	234	180
2	170	168	129	178	e104	1,890	574	266	3,960	366	203	155
3	156	897	150	157	e105	2,420	499	264	3,310	490	177	148
4	150	1,960	141	113	e105	2,570	444	258	2,630	850	144	143
5	142	1,030	137	e105	e106	11,100	410	260	2,060	698	134	147
6	138	484	136	e115	e107	9,140	382	254	1,700	614	140	148
7	132	356	136	e120	e107	7,210	386	247	1,270	585	136	141
8	132	329	135	e125	e108	4,300	389	236	922	928	134	134
9	131	289	e134	e130	e109	2,660	379	240	692	1,110	144	131
10	128	243	e133	e140	e109	1,660	353	268	568	1,230	309	129
11	135	219	e133	153	e110	1,210	337	278	504	981	328	126
12	149	198	e132	158	e111	949	325	263	469	807	234	122
13	143	179	147	162	e111	785	314	1,350	870	994	203	115
14	153	167	146	171	e112	686	312	2,150	4,090	1,020	194	109
15	164	164	155	e160	e113	615	305	1,090	4,080	891	189	115
16	145	161	170	192	e113	580	303	669	3,480	759	164	123
17	142	158	153	198	e114	540	298	506	3,010	604	153	119
18	142	163	172	e163	e115	518	290	607	2,730	493	148	116
19	148	165	167	e121	e116	481	294	2,620	1,920	412	146	116
20	148	171	165	170	633	425	283	2,550	1,210	342	142	113
21	141	146	187	152	2,550	412	278	1,950	906	286	125	123
22	135	140	179	171	2,250	391	273	1,210	786	245	117	428
23	131	133	190	191	2,670	352	272	1,090	742	227	113	310
24	124	139	162	195	2,110	318	294	7,410	1,390	250	143	187
25	122	134	161	177	1,590	350	346	7,690	928	242	159	154
26	114	138	193	116	1,430	346	325	4,750	678	237	213	141
27	115	136	177	e110	1,010	420	303	2,550	594	214	230	133
28	116	132	193	e101	846	1,990	285	1,600	508	208	194	128
29	115	129	204	e101	779	1,990	281	1,140	444	280	173	124
30	115	133	190	e102	---	1,270	279	14,800	392	260	199	126
31	119	---	189	e103	---	871	---	7,990	---	240	211	---
MEAN	138	299	159	146	619	1,935	350	2,156	1,708	556	178	149
MAX	181	1,960	204	198	2,670	11,100	683	14,800	4,400	1,230	328	428
MIN	114	118	129	101	103	318	272	236	392	208	113	109
AC-FT	8,480	17,810	9,770	8,990	35,600	119,000	20,820	132,600	101,600	34,160	10,970	8,890

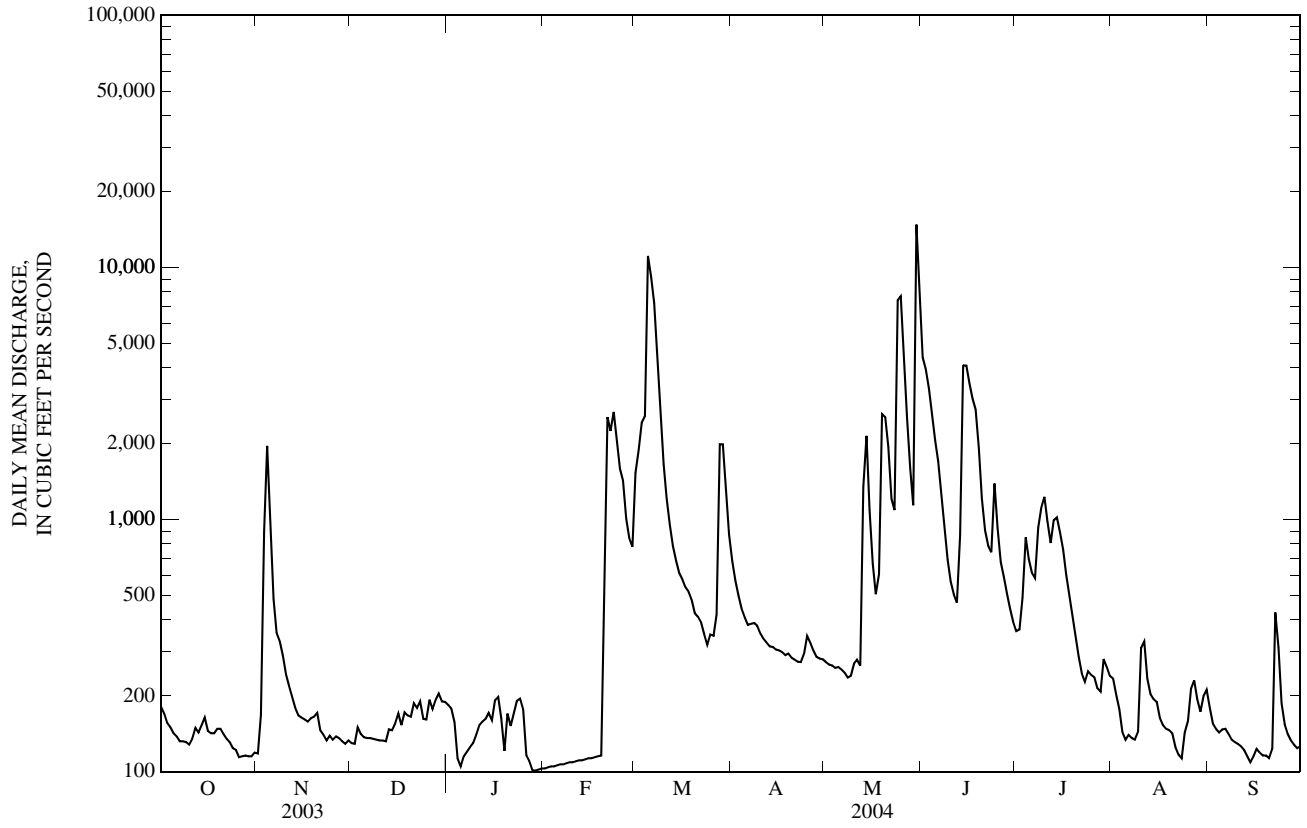
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2004, BY WATER YEAR (WY)

MEAN	681	550	422	353	639	1,472	1,006	1,818	2,001	2,344	958	972
MAX	5,114	2,172	1,016	644	2,157	7,346	4,912	5,946	4,229	15,000	2,751	3,957
(WY)	(1987)	(1999)	(1998)	(1987)	(1993)	(1987)	(1987)	(1995)	(2001)	(1993)	(1993)	(1989)
MIN	87.5	146	159	146	208	243	211	187	294	112	135	109
(WY)	(1992)	(1992)	(2004)	(2004)	(1990)	(1991)	(1989)	(1989)	(1988)	(2002)	(2003)	(1991)

06882510 BIG BLUE RIVER AT MARYSVILLE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1985 - 2004	
ANNUAL MEAN	407		701		1,105	
HIGHEST ANNUAL MEAN					3,318	1993
LOWEST ANNUAL MEAN					413	1988
HIGHEST DAILY MEAN	9,140	Jun 13	14,800	May 30	34,400	Jul 7, 1986
LOWEST DAILY MEAN	66	Jul 18	101	Jan 28	23	Mar 25, 1991
ANNUAL SEVEN-DAY MINIMUM	74	Jul 16	103	Jan 28	49	Aug 4, 2002
MAXIMUM PEAK FLOW			19,800	May 30	39,700	Jul 6, 1986
MAXIMUM PEAK STAGE			29.26	May 30	38.90	Jul 6, 1986
INSTANTANEOUS LOW FLOW			101	Jan 28	17	Dec 4, 1991
ANNUAL RUNOFF (AC-FT)	294,300		508,700		800,200	
10 PERCENT EXCEEDS	722		1,760		2,390	
50 PERCENT EXCEEDS	220		203		421	
90 PERCENT EXCEEDS	112		116		180	

e Estimated



06884200 MILL CREEK AT WASHINGTON, KS

LOCATION.--Lat 39°48'49", long 97°02'14", in SW ¼ SW ¼ SE ¼ sec.1, T.3 S., R.3 E., Washington County, Hydrologic Unit 10270207, on right bank at downstream side of bridge in roadside park on U.S. Highway 36, 0.5 mi east of Washington, and at mile 26, approximately.

DRAINAGE AREA.--344 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 1,261.56 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Low flow partially regulated at times by irrigation. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum known stages since at least 1903, about 36 ft, June 8, 1941, about 34 ft in 1903 and 1908, from information by local residents and newspaper files.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	1200	*2,240	*12.83	Jun 15	0700	1,400	9.93

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	8.5	6.0	7.4	9.2	e6.0	414	47	24	144	39	6.6	1.4
2	7.2	22	7.6	8.5	e6.0	644	43	22	64	55	6.1	1.3
3	6.8	168	8.1	7.3	e6.0	157	39	22	40	131	5.6	1.0
4	6.6	145	8.1	e6.0	e6.0	261	34	21	32	70	5.4	0.98
5	7.4	43	7.2	e5.5	e7.0	2,060	32	21	29	289	4.9	4.0
6	6.3	15	7.1	e5.9	e7.0	1,890	32	21	27	122	4.7	4.6
7	5.2	9.9	7.3	6.3	e8.0	509	37	21	25	56	4.2	2.2
8	5.2	8.7	7.4	6.9	e8.0	178	35	19	23	33	11	1.7
9	4.5	8.2	e8.8	6.5	e9.0	116	45	23	22	30	21	1.7
10	4.7	8.2	e8.2	6.8	e9.0	87	47	26	20	49	16	0.84
11	8.1	7.5	e8.2	8.3	e9.0	71	35	28	18	54	7.3	0.90
12	5.4	6.9	e8.4	8.0	e10	60	33	46	18	36	5.5	1.3
13	7.4	6.5	8.0	8.1	e10	52	32	197	20	25	4.6	0.46
14	6.0	6.2	9.2	8.3	e20	49	31	323	18	20	3.8	0.28
15	5.1	7.8	9.5	10	e25	48	31	113	611	16	3.5	2.8
16	4.9	7.6	11	9.8	e25	45	30	61	160	13	3.3	1.7
17	4.5	7.9	15	10	38	44	30	43	72	12	3.3	1.2
18	4.5	7.0	11	e9.0	44	38	29	76	42	10	3.0	1.2
19	6.0	6.7	12	e8.0	51	33	28	224	32	9.6	3.2	1.1
20	6.2	6.7	9.2	7.8	123	30	28	89	28	8.8	2.9	0.38
21	5.6	7.5	8.6	e7.0	349	28	27	53	30	8.2	2.7	9.3
22	4.5	7.2	9.0	6.6	287	26	29	41	24	9.8	2.5	7.7
23	4.0	7.5	9.5	e6.5	209	24	29	38	19	8.2	2.3	6.6
24	4.2	6.3	e8.6	7.1	103	25	33	45	17	14	3.6	3.5
25	3.9	7.4	9.1	e7.5	58	27	33	49	15	11	4.2	2.7
26	4.0	7.5	8.7	e8.0	42	27	43	61	14	9.6	3.7	2.0
27	5.6	7.4	8.9	e8.3	28	46	36	50	99	8.7	2.8	1.7
28	5.8	6.9	9.5	e8.0	26	313	28	34	271	9.5	2.2	1.4
29	5.8	7.4	8.6	e7.0	37	184	24	29	227	8.9	2.5	1.2
30	6.0	7.8	9.8	e6.7	---	84	27	46	71	7.6	2.1	1.3
31	5.6	---	10	e6.5	---	56	---	729	---	7.0	1.9	---
MEAN	5.66	19.3	9.00	7.59	54.0	246	33.6	83.7	74.4	38.1	5.05	2.28
MAX	8.5	168	15	10	349	2,060	47	729	611	289	21	9.3
MIN	3.9	6.0	7.1	5.5	6.0	24	24	19	14	7.0	1.9	0.28
AC-FT	348	1,150	553	467	3,110	15,130	2,000	5,150	4,430	2,340	310	136

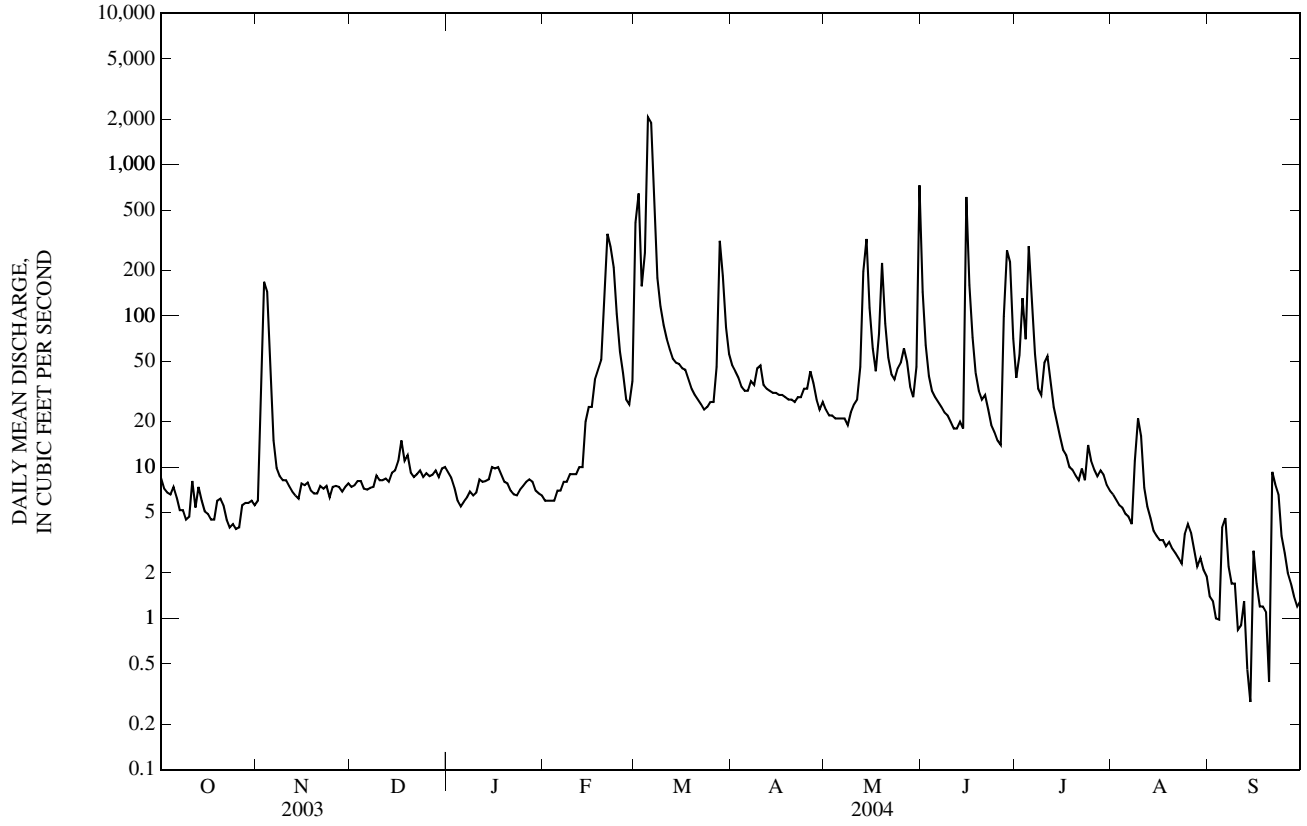
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	67.7	48.7	30.6	44.0	81.9	177	120	195	198	128	57.4	93.2
MAX	839	359	176	367	505	1,264	725	1,161	804	2,151	344	864
(WY)	(1974)	(1973)	(1993)	(1962)	(1969)	(1979)	(1987)	(1995)	(1967)	(1993)	(1968)	(1973)
MIN	1.11	1.50	1.39	1.06	2.23	5.81	6.23	3.54	6.38	0.33	1.15	2.08
(WY)	(1967)	(1967)	(1967)	(1967)	(1967)	(1967)	(1966)	(1966)	(2000)	(1964)	(1991)	(2000)

06884200 MILL CREEK AT WASHINGTON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL MEAN	36.3		48.4		103	
HIGHEST ANNUAL MEAN					468	1993
LOWEST ANNUAL MEAN					12.7	1964
HIGHEST DAILY MEAN	2,430	Jun 24	2,060	Mar 5	10,000	Jul 7, 1993
LOWEST DAILY MEAN	1.2	Aug 15	0.28	Sep 14	0.00	Jun 29, 1963
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 12	1.0	Sep 8	0.00	Jun 29, 1963
MAXIMUM PEAK FLOW			2,240	Mar 5	14,600	Jul 7, 1993
MAXIMUM PEAK STAGE			12.83	Mar 5	29.35	Jul 7, 1993
INSTANTANEOUS LOW FLOW			0.09	Sep 14	0.00	many years
ANNUAL RUNOFF (AC-FT)	26,280		35,110		74,980	
10 PERCENT EXCEEDS	22		73		170	
50 PERCENT EXCEEDS	8.2		9.5		19	
90 PERCENT EXCEEDS	3.9		3.3		3.2	

e Estimated



06884400 LITTLE BLUE RIVER NEAR BARNES, KS

LOCATION.--Lat 39°43'33", long 96°48'16", in SW ¼ SW ¼ SW ¼ sec.6, T.4 S., R.6 E., Marshall County, Hydrologic Unit 10270207, on right bank at downstream side of county bridge 1.0 mi north and 3.1 mi east of Barnes downstream and at mile 12.7.

DRAINAGE AREA.--3,351 mi^2.

PERIOD OF RECORD.--April 1958 to current year. Published as "at Waterville" April 1958 to September 1960; those prior to April 1958 collected at site 11.5 mi downstream and are considered not equivalent. Prior to August 2004 recording gage located 6.5 mi upstream at different datum.

GAGE.--Water-stage recorders. Datum of gage is 1,135.00 ft from topographic map.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 6	0500	9,410	12.06	May 30	1800	4,980	9.17
May 24	0600	4,870	9.08	Jun 16	1000	*10,000	*12.38

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	101	132	e127	e90	897	537	210	2,900	385	114	90
2	147	130	132	125	e90	2,340	439	210	1,390	368	104	83
3	142	441	146	127	e95	1,970	387	199	840	337	97	76
4	136	807	143	86	e100	1,210	350	188	624	402	90	73
5	133	487	139	63	e100	5,230	325	190	504	920	84	77
6	130	340	132	104	e90	8,470	308	186	440	923	84	83
7	126	238	128	129	e90	5,330	304	185	388	594	79	78
8	123	196	130	138	e90	2,590	343	181	348	497	86	76
9	120	171	135	146	e100	1,500	318	188	315	488	367	72
10	115	162	75	148	e100	1,100	299	205	290	459	232	67
11	121	155	123	154	e100	880	323	228	291	421	140	63
12	129	148	143	159	e100	736	318	266	280	441	147	61
13	125	142	143	175	e100	641	297	828	291	461	124	59
14	126	138	154	184	e100	572	290	1,150	883	375	113	56
15	124	138	155	e180	e150	529	279	740	2,010	310	106	64
16	120	137	155	178	e200	498	272	468	7,900	266	104	64
17	117	140	169	172	e300	459	264	354	3,910	232	e108	64
18	117	140	166	166	361	419	259	349	2,330	206	115	65
19	116	139	177	116	399	390	247	779	1,450	183	108	63
20	115	136	181	171	522	371	237	2,140	921	172	105	58
21	117	137	166	181	1,040	340	230	1,800	659	152	102	138
22	130	136	161	186	1,260	318	231	1,150	555	154	98	138
23	114	137	152	172	1,240	303	232	883	466	151	101	84
24	119	130	150	173	1,240	299	247	3,550	400	176	108	87
25	108	128	143	179	1,030	298	267	1,430	347	178	e200	86
26	104	125	147	e130	658	295	259	1,360	316	167	e450	78
27	103	126	145	e90	510	332	245	1,010	335	166	300	73
28	101	118	138	e90	443	1,240	234	690	389	151	181	81
29	88	128	134	e90	421	1,710	213	534	509	141	138	98
30	101	137	130	e90	---	1,120	212	2,700	567	128	116	93
31	100	---	e129	e90	---	729	---	4,130	---	123	100	---
MEAN	120	193	144	139	383	1,391	292	919	1,095	327	142	78.3
MAX	148	807	181	186	1,260	8,470	537	4,130	7,900	923	450	138
MIN	88	101	75	63	90	295	212	181	280	123	79	56
AC-FT	7,370	11,480	8,830	8,570	22,050	85,520	17,390	56,490	65,150	20,090	8,730	4,660

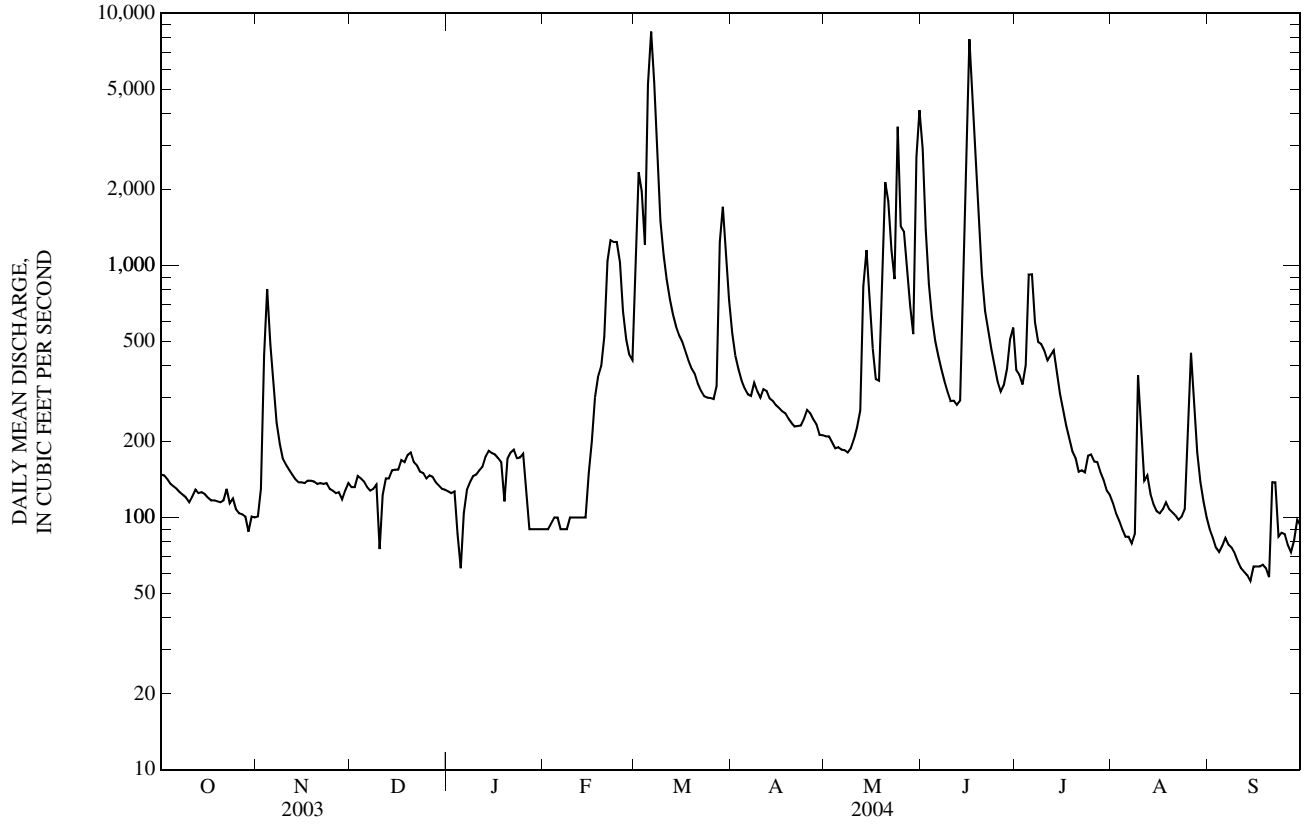
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	561	335	245	290	486	1,016	692	1,134	1,278	1,043	581	586
MAX	6,989	1,526	676	1,097	1,576	5,436	3,696	3,985	5,343	11,420	3,487	3,804
(WY)	(1974)	(1997)	(1974)	(1974)	(1993)	(1979)	(1987)	(1995)	(1984)	(1993)	(1985)	(1973)
MIN	52.9	102	114	90.2	129	146	150	128	208	69.8	63.4	51.5
(WY)	(1992)	(1992)	(1967)	(1967)	(1992)	(1992)	(1981)	(1992)	(1988)	(2002)	(1991)	(1991)

06884400 LITTLE BLUE RIVER NEAR BARNES, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL MEAN	493		436		688	
HIGHEST ANNUAL MEAN					2,413	1993
LOWEST ANNUAL MEAN					234	1991
HIGHEST DAILY MEAN	26,400	Jun 25	8,470	Mar 6	46,100	Oct 13, 1973
LOWEST DAILY MEAN	64	Sep 8	56	Sep 14	24	Aug 4, 1964
ANNUAL SEVEN-DAY MINIMUM	75	Sep 3	62	Sep 11	28	Aug 1, 1964
MAXIMUM PEAK FLOW			10,000	Jun 16	53,700	Oct 12, 1973
MAXIMUM PEAK STAGE			12.38	Jun 16	27.70	Oct 12, 1973
INSTANTANEOUS LOW FLOW			42	Dec 10	22	Aug 6, 1964
ANNUAL RUNOFF (AC-FT)	357,200		316,300		498,800	
10 PERCENT EXCEEDS	613		920		1,300	
50 PERCENT EXCEEDS	172		171		259	
90 PERCENT EXCEEDS	117		90		125	

e Estimated



06885500 BLACK VERMILLION RIVER NEAR FRANKFORT, KS

LOCATION.--Lat 39°40'55", long 96°26'33", in NE ¼ NW ¼ NW ¼ sec.29, T.4 S., R.9 E., Marshall County, Hydrologic Unit 10270205, on right bank at downstream side of county highway bridge, 0.2 mi downstream from Robidoux Creek, 2.2 mi southwest of Frankfort, and at mile 19.9.

DRAINAGE AREA.--410 mi^2.

PERIOD OF RECORD.--October 1953 to current year. Monthly discharge only for October to December 1953, published in WSP 1730.

GAGE.--Water-stage recorder. Datum of gage is 1,106.91 ft above NGVD of 1929. Prior to May 13, 1954, nonrecording gage at same site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 3, 1948, reached a stage of 30.2 ft, present site and datum, from floodmarks. Flood in June 1951 reached a stage of 28.6 ft, present site and datum, from floodmarks, discharge, 30,400 ft^3/s, based on contracted-opening measurement of peak flow.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	1300	*5,950	*22.37	No other 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	7.0	18	7.8	11	e11	e30	37	23	53	15	11	3.9
2	7.6	23	7.7	11	e11	e106	33	22	28	27	8.7	3.7
3	7.7	29	10	13	e11	e69	30	19	20	292	7.6	3.6
4	7.1	1,070	12	11	e12	551	27	18	16	77	6.6	3.4
5	7.3	228	12	10	e13	5,040	26	18	104	398	6.3	4.0
6	7.8	47	11	9.4	e13	575	25	18	191	228	5.8	4.5
7	8.6	18	11	8.7	e12	193	79	18	54	127	5.3	5.6
8	11	11	11	10	e11	107	43	16	34	70	5.2	4.2
9	12	7.7	13	12	e11	79	28	18	25	53	5.4	3.6
10	12	6.5	14	12	e11	64	25	23	22	43	9.3	3.4
11	11	6.2	19	13	e12	51	23	30	20	34	6.4	3.2
12	10	5.7	14	12	e13	43	22	25	22	913	5.5	3.2
13	11	5.3	14	13	e14	40	21	21	440	150	5.4	2.9
14	11	5.2	13	14	e13	39	21	22	115	66	5.1	2.8
15	12	5.4	14	13	e12	41	21	22	216	44	5.0	3.7
16	11	5.6	14	14	e12	38	21	19	111	33	5.2	3.2
17	10	6.4	13	15	16	35	21	18	50	26	5.0	3.2
18	10	6.6	15	14	16	37	20	329	73	21	5.0	3.3
19	10	6.6	14	12	26	32	18	237	115	17	5.0	3.2
20	11	6.9	14	12	468	28	19	73	50	14	5.0	3.1
21	11	7.1	15	11	1,340	24	19	46	36	12	5.2	3.0
22	12	6.8	15	11	393	25	19	33	28	43	5.9	2.7
23	12	7.3	14	11	222	24	20	29	22	21	6.0	2.7
24	12	7.6	12	e11	104	24	24	29	18	18	8.1	2.6
25	13	7.4	12	e11	50	25	36	21	20	49	18	2.7
26	13	7.7	12	e10	37	26	30	18	28	26	21	2.9
27	13	7.6	13	e10	33	27	23	16	24	16	9.0	3.2
28	15	7.7	13	e10	e31	155	21	26	28	11	5.7	3.0
29	16	e7.6	12	e10	e30	117	18	17	24	269	4.5	2.8
30	17	e7.7	12	e11	---	60	19	193	18	35	4.4	2.9
31	17	---	11	e11	---	45	---	118	---	16	4.2	---
MEAN	11.2	53.1	12.7	11.5	102	250	26.3	49.5	66.8	102	6.96	3.34
MAX	17	1,070	19	15	1,340	5,040	79	329	440	913	21	5.6
MIN	7.0	5.2	7.7	8.7	11	24	18	16	16	11	4.2	2.6
AC-FT	686	3,160	782	708	5,870	15,370	1,560	3,040	3,980	6,280	428	199

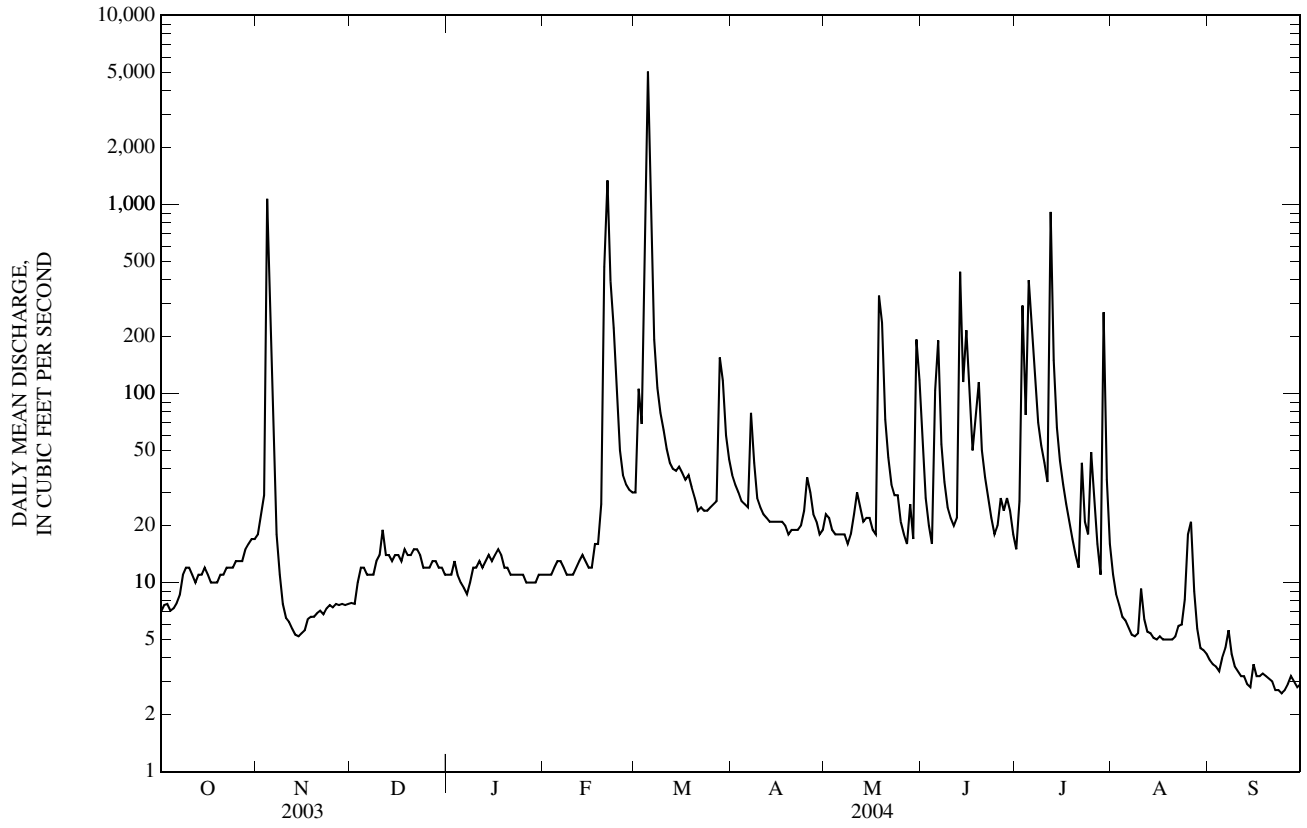
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	116	88.2	48.4	53.2	140	239	209	305	308	266	80.5	161
MAX	1,685	1,158	255	371	662	1,413	1,750	1,873	1,431	4,575	675	1,068
(WY)	(1974)	(1999)	(1993)	(1962)	(1969)	(1979)	(1999)	(1995)	(1999)	(1993)	(1985)	(1977)
MIN	0.00	0.02	0.51	0.49	2.00	2.87	3.18	3.88	11.8	2.38	0.22	0.00
(WY)	(1957)	(1957)	(1957)	(1957)	(1956)	(1956)	(1956)	(1956)	(1972)	(1954)	(1955)	(1956)

06885500 BLACK VERMILLION RIVER NEAR FRANKFORT, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL MEAN	21.1		57.9		168	
HIGHEST ANNUAL MEAN					812	1993
LOWEST ANNUAL MEAN					11.8	1956
HIGHEST DAILY MEAN	1,070	Nov 4	5,040	Mar 5	28,800	Oct 11, 1973
LOWEST DAILY MEAN	0.34	Aug 26	2.6	Sep 24	0.00	Aug 3, 1955
ANNUAL SEVEN-DAY MINIMUM	0.59	Aug 21	2.8	Sep 20	0.00	Aug 28, 1956
MAXIMUM PEAK FLOW			5,950	Mar 5	38,300	May 30, 1959
MAXIMUM PEAK STAGE			22.37	Mar 5	30.28	Jul 5, 1993
INSTANTANEOUS LOW FLOW			2.3	Sep 22	0.00	at times
ANNUAL RUNOFF (AC-FT)	15,310		42,060		121,700	
10 PERCENT EXCEEDS	29		74		234	
50 PERCENT EXCEEDS	10		14		27	
90 PERCENT EXCEEDS	1.3		5.0		4.0	

e Estimated



06886900 TUTTLE CREEK LAKE NEAR MANHATTAN, KS

LOCATION.--Lat 39°15'16", long 96°36'08", in NW ¼ NE ¼ SW ¼ sec.24, T.9 S., R.7 E., Pottawatomie County, Hydrologic Unit 10270205, on Big Blue River, near right end of dam, 5.0 mi north of Manhattan, and at mile 10.0.

DRAINAGE AREA.--9,628 mi^2.

PERIOD OF RECORD.--March to April 1960, March 1962 to current year. Prior to October 1968, published as "Tuttle Creek Reservoir near Randolph." October 1968 to September 1971 published as "Tuttle Creek Reservoir near Manhattan."

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 1, 1968, at site 19.8 mi upstream at same datum.

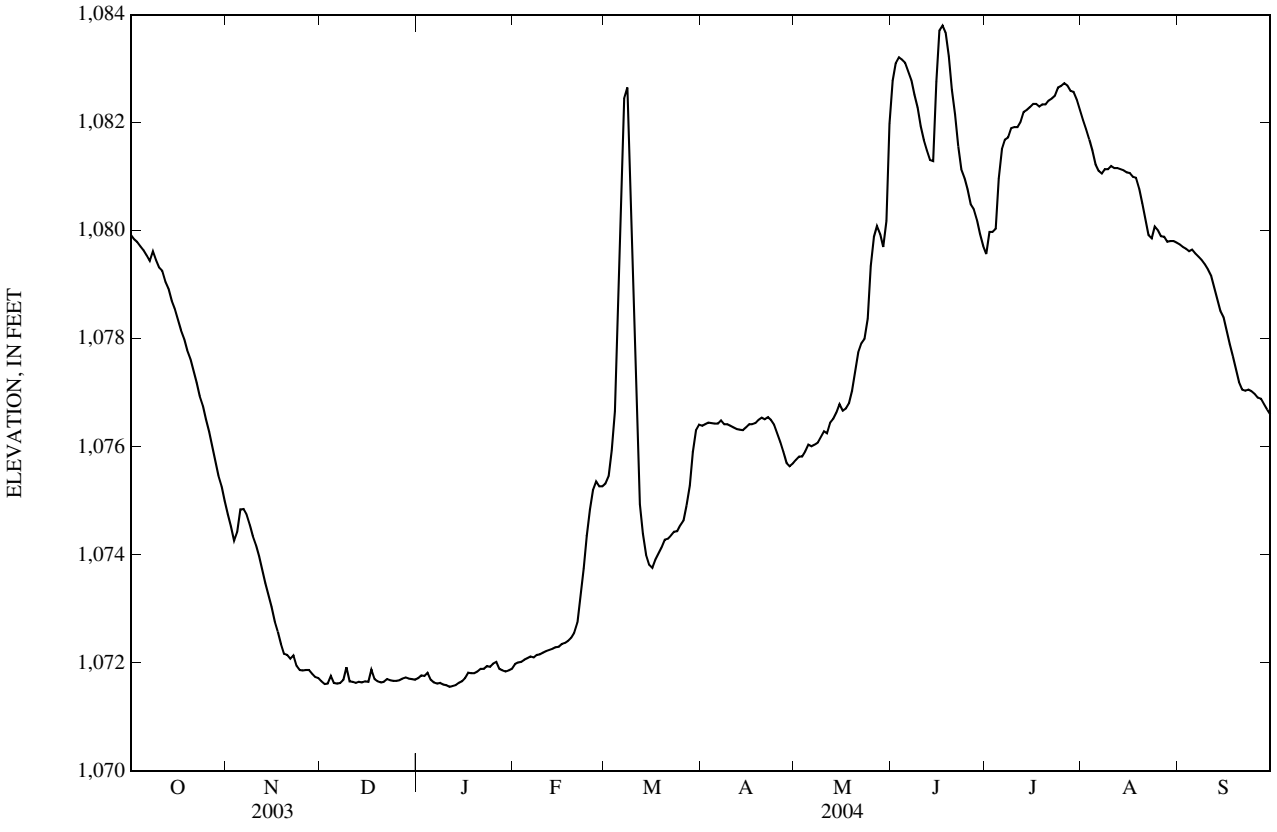
REMARKS.--Reservoir is formed by compacted earthfill dam. Storage began Mar. 15, 1962. Conservation pool elevation was first reached on Apr. 30, 1963. Total capacity, 3,186,000 acre-ft consisting of the following: Sedimentation, 211,500 acre-ft below elevation 1,061.0 ft; conservation pool, 177,100 acre-ft between elevations 1,061.0 ft and 1,075.0 ft; flood-control pool, 1,937,000 acre-ft between elevations 1,075.0 ft and 1,136.0 ft; and surcharge pool, 860,100 acre-ft between elevations 1,136.0 ft and 1,150.0 ft. Reservoir is used to store water for flood control. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,137.76 ft, July 22, 1993, contents, 2,423,000 acre-ft; minimum elevation since conservation pool was first reached, 1,060.82 ft, Jan. 4, 1967, contents, 231,000 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,083.86 ft, June 17, contents, 540,000 acre-ft; minimum elevation, 1,071.52 ft, Dec. 2, contents, 340,200 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on field survey by U.S. Army Corps of Engineers in 1973 revised 1982)

Elevation	Contents	Elevation	Contents	Elevation	Contents
1,070	320,100	1,080	469,400	1,085	561,900
1,075	388,600				



06886900 TUTTLE CREEK LAKE NEAR MANHATTAN, KS—Continued

CHANGE IN CONTENTS, IN ACRE-FEET.

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	1,079.92	1,074.75	1,071.66	1,071.72	1,071.98	1,075.32	1,076.39	1,075.76	1,082.78	1,079.57	1,082.05	1,079.75
2	1,079.84	1,074.53	1,071.61	1,071.77	1,072.01	1,075.46	1,076.42	1,075.82	1,083.10	1,079.98	1,081.88	1,079.70
3	1,079.79	1,074.26	1,071.62	1,071.76	1,072.02	1,075.93	1,076.45	e1,075.82	1,083.21	1,079.98	1,081.69	1,079.67
4	1,079.71	1,074.42	1,071.76	1,071.82	1,072.06	1,076.66	1,076.44	1,075.92	1,083.17	1,080.04	1,081.49	1,079.62
5	1,079.64	1,074.84	1,071.63	1,071.69	1,072.09	1,078.83	1,076.43	1,076.04	1,083.11	1,080.97	1,081.23	1,079.65
6	1,079.54	1,074.85	1,071.62	1,071.64	1,072.12	1,080.98	1,076.43	1,076.01	1,082.95	1,081.51	1,081.11	1,079.58
7	1,079.44	1,074.75	1,071.63	1,071.62	1,072.10	1,082.45	1,076.49	1,076.04	1,082.79	1,081.69	1,081.06	1,079.52
8	1,079.62	1,074.56	1,071.69	1,071.63	1,072.15	1,082.65	1,076.42	1,076.08	1,082.52	1,081.73	1,081.14	1,079.46
9	1,079.46	1,074.35	1,071.92	1,071.60	1,072.16	1,080.98	1,076.42	1,076.18	1,082.28	1,081.90	1,081.14	1,079.38
10	1,079.32	1,074.18	1,071.66	1,071.59	1,072.19	1,078.66	1,076.39	1,076.29	1,081.94	1,081.92	1,081.20	1,079.29
11	1,079.26	1,073.98	1,071.65	1,071.56	1,072.22	1,076.37	1,076.36	1,076.25	1,081.68	1,081.92	1,081.16	1,079.17
12	1,079.06	1,073.73	1,071.63	1,071.57	1,072.24	1,074.94	1,076.33	1,076.45	1,081.49	1,082.02	1,081.16	1,078.96
13	1,078.93	1,073.48	1,071.65	1,071.59	1,072.26	1,074.39	1,076.32	1,076.52	1,081.31	1,082.20	1,081.14	1,078.74
14	1,078.71	1,073.25	1,071.64	1,071.63	1,072.29	1,074.00	1,076.31	1,076.64	1,081.29	1,082.24	1,081.12	1,078.52
15	1,078.56	1,073.04	1,071.66	1,071.66	1,072.30	1,073.82	1,076.36	1,076.79	1,082.76	1,082.29	1,081.08	1,078.40
16	1,078.36	1,072.77	1,071.65	1,071.72	1,072.35	1,073.76	1,076.42	1,076.67	1,083.71	1,082.35	1,081.07	1,078.16
17	1,078.16	1,072.58	1,071.88	1,071.82	1,072.37	1,073.91	1,076.42	1,076.71	1,083.80	1,082.35	1,081.00	1,077.90
18	1,078.00	1,072.35	1,071.70	1,071.81	1,072.41	1,074.03	1,076.44	1,076.81	1,083.67	1,082.30	1,080.98	1,077.68
19	1,077.79	1,072.17	1,071.66	1,071.81	1,072.47	1,074.14	1,076.50	1,077.04	1,083.23	1,082.34	1,080.78	1,077.43
20	1,077.63	1,072.15	1,071.64	1,071.84	1,072.56	1,074.28	1,076.54	1,077.40	1,082.61	1,082.34	1,080.51	1,077.20
21	1,077.42	1,072.08	1,071.65	1,071.89	1,072.75	1,074.30	1,076.51	1,077.75	1,082.15	1,082.41	1,080.20	1,077.06
22	1,077.19	1,072.14	1,071.70	1,071.89	1,073.22	1,074.36	1,076.55	1,077.92	1,081.56	1,082.45	1,079.92	1,077.04
23	1,076.94	1,071.95	1,071.68	1,071.94	1,073.75	e1,074.43	1,076.50	1,078.00	1,081.14	1,082.50	1,079.86	1,077.06
24	1,076.76	1,071.87	1,071.67	1,071.93	1,074.35	1,074.44	1,076.41	1,078.37	1,080.98	1,082.65	1,080.08	1,077.03
25	1,076.51	1,071.86	1,071.67	1,071.99	1,074.84	1,074.55	1,076.25	1,079.35	1,080.77	1,082.68	1,080.01	1,076.98
26	1,076.28	1,071.87	1,071.68	1,072.02	1,075.20	1,074.64	1,076.09	1,079.89	1,080.49	1,082.73	1,079.90	1,076.91
27	1,076.03	1,071.87	1,071.71	1,071.89	1,075.36	1,074.92	1,075.91	1,080.09	1,080.40	1,082.69	1,079.89	1,076.89
28	1,075.75	1,071.80	1,071.73	1,071.86	1,075.27	1,075.28	1,075.70	1,079.94	1,080.20	1,082.59	1,079.80	1,076.79
29	e1,075.47	1,071.74	1,071.71	1,071.84	1,075.27	1,075.90	1,075.64	1,079.70	1,079.94	1,082.57	1,079.81	1,076.69
30	1,075.27	1,071.72	1,071.70	1,071.86	---	1,076.31	1,075.69	1,080.18	1,079.72	1,082.43	1,079.81	1,076.60
31	1,075.00	---	1,071.69	1,071.89	---	1,076.41	---	1,081.98	---	1,082.24	1,079.78	---
MEAN	1,078.04	1,073.13	1,071.68	1,071.77	1,072.91	1,076.04	1,076.32	1,077.43	1,082.03	1,081.92	1,080.74	1,078.23
MAX	1,079.92	1,074.85	1,071.92	1,072.02	1,075.36	1,082.65	1,076.55	1,081.98	1,083.80	1,082.73	1,082.05	1,079.75
MIN	1,075.00	1,071.72	1,071.61	1,071.56	1,071.98	1,073.76	1,075.64	1,075.76	1,079.72	1,079.57	1,079.78	1,076.60
(+)	388,600	342,900	342,500	345,100	392,700	410,200	399,100	504,800	464,600	509,600	465,700	413,200
(#)	-80,800	-45,700	-400	+2,600	+47,600	+17,500	-11,100	+105,700	-40,200	+45,000	-43,900	-52,500

CAL YR 2003 ..... (#) +37,700
WTR YR 2004 ..... (#) -56,200

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

e Estimated

06887000 BIG BLUE RIVER NEAR MANHATTAN, KS

LOCATION.--Lat 39°14'14", long 96°34'16", in SW ¼ NW ¼ SE ¼ sec.30, T.9 S., R.8 E., Riley County, Hydrologic Unit 10270205, on right bank at downstream side of county highway bridge, 2.5 mi downstream from Tuttle Creek Dam, 4.0 mi north of Manhattan, and at mile 7.5.

DRAINAGE AREA.--9,640 mi^2.

PERIOD OF RECORD.--May to July 1951 (published in WSP 1139), October 1954 to current year. Records for April 1895 to October 1905, published in previous Annual Reports and Water-Supply Papers, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorders. Datum of gage is 988.86 ft above NGVD of 1929. May 1 to July 31, 1951, nonrecording gage above power dam 1.1 mi upstream at datum 8.34 ft higher. Oct. 1 to Nov. 17, 1954, nonrecording gage and Nov. 18, 1954, to Sept. 30, 1974, recording gage at present site and datum 3.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1962 by Tuttle Creek Lake (station 06886900), 2.5 mi upstream. Discharge may, at times, be affected by backwater from the Kansas River. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 31, 1903, reached a stage of 38.85 ft, and flood in June 1941 reached a stage of about 37.1 ft, from floodmarks and information by local resident.

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	796	1,720	525	343	178	1,950	1,810	225	3,360	2,780	1,720	429
2	797	1,720	529	343	176	1,940	1,330	217	3,270	3,470	1,700	425
3	783	1,710	447	342	171	1,960	995	214	3,280	3,100	1,690	423
4	770	1,710	300	341	179	2,950	993	216	3,280	1,560	1,810	421
5	771	1,710	294	333	188	4,700	991	213	3,310	481	1,950	467
6	848	1,710	295	333	179	6,690	989	213	3,280	2,030	1,200	514
7	948	1,710	295	332	175	6,570	983	211	3,280	547	354	512
8	971	1,710	296	332	172	8,310	978	210	3,280	1,380	356	510
9	953	1,710	308	330	171	16,200	977	210	3,270	2,000	351	509
10	947	1,710	290	330	170	19,200	976	227	3,260	2,060	344	602
11	1,130	1,710	293	330	170	17,100	973	209	3,240	2,090	342	861
12	1,520	1,700	293	306	166	10,800	920	209	3,250	1,820	341	1,220
13	1,520	1,710	294	194	167	6,040	741	361	3,230	941	341	1,370
14	1,510	1,700	291	189	167	3,920	624	1,060	3,240	954	339	1,460
15	1,510	1,700	293	187	165	3,320	476	1,630	3,530	901	338	1,580
16	1,520	1,700	288	185	165	1,640	468	1,890	1,410	887	283	1,570
17	1,510	1,700	309	185	165	567	456	1,500	7,510	861	485	1,560
18	1,510	1,690	367	181	165	551	445	802	7,690	842	812	1,570
19	1,510	1,310	357	179	306	544	534	434	7,830	648	1,390	1,560
20	1,530	577	356	179	739	537	684	1,370	7,610	286	2,080	1,550
21	1,660	572	354	179	935	525	682	1,820	6,140	393	2,290	1,100
22	1,780	570	352	178	936	525	691	1,790	5,730	282	2,290	413
23	1,770	566	349	227	935	524	773	1,750	4,840	271	2,270	470
24	1,830	563	347	365	697	519	1,370	2,160	3,250	400	1,690	522
25	1,760	524	349	371	392	513	1,580	3,320	3,240	1,520	440	522
26	1,760	303	350	361	374	376	1,610	3,350	3,220	405	1,090	520
27	1,750	374	348	e360	857	117	1,640	3,360	3,290	378	1,160	520
28	1,740	429	345	359	1,940	124	1,630	3,370	3,260	1,140	769	518
29	1,740	529	343	295	1,970	294	1,530	3,370	3,060	1,750	155	515
30	1,730	530	343	176	---	1,120	747	3,360	2,780	1,740	278	514
31	1,720	---	343	174	---	1,710	---	3,390	---	1,740	431	---
MEAN	1,374	1,253	340	275	454	3,930	987	1,376	4,007	1,279	1,003	824
MAX	1,830	1,720	529	371	1,970	19,200	1,810	3,390	7,830	3,470	2,290	1,580
MIN	770	303	288	174	165	117	445	209	1,410	271	155	413
AC-FT	84,490	74,530	20,910	16,900	26,120	241,700	58,700	84,620	238,500	78,660	61,670	49,050

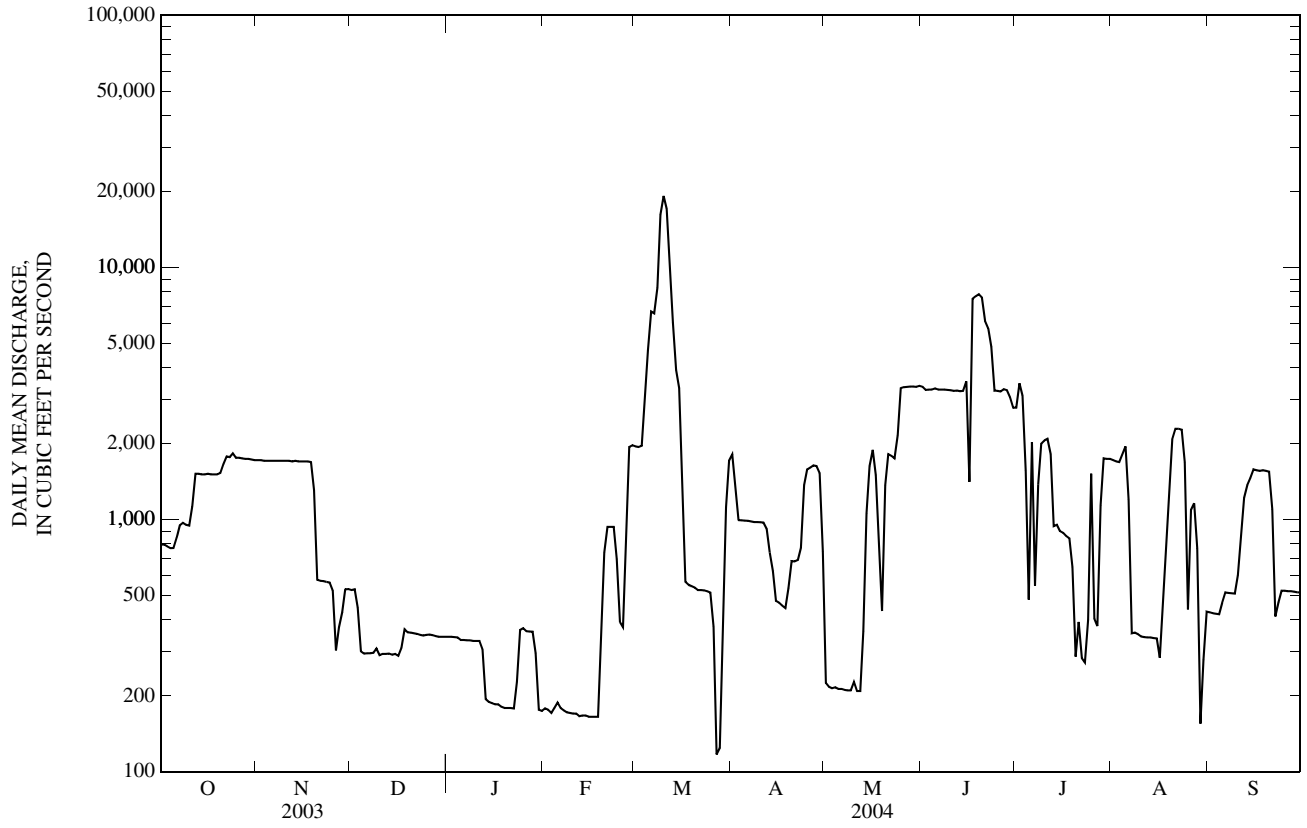
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	1,698	1,497	1,228	808	1,476	2,448	3,049	3,436	4,367	4,200	2,397	1,831
MAX	13,370	20,110	4,969	3,311	5,586	12,200	15,400	15,210	27,820	24,360	23,900	14,770
(WY)	(1987)	(1974)	(1974)	(1974)	(1973)	(1969)	(1987)	(1987)	(1951)	(1993)	(1993)	(1993)
MIN	63.7	56.6	161	106	21.9	48.1	50.8	53.7	91.5	352	156	43.3
(WY)	(1985)	(1988)	(1965)	(1970)	(1975)	(1967)	(1967)	(1967)	(1981)	(1954)	(1955)	(1988)

06887000 BIG BLUE RIVER NEAR MANHATTAN, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL MEAN	936		1,427		2,373	
HIGHEST ANNUAL MEAN					9,450	1993
LOWEST ANNUAL MEAN					567	1956
HIGHEST DAILY MEAN	2,750	Jun 27	19,200	Mar 10	86,400	Jul 13, 1951
LOWEST DAILY MEAN	76	Sep 3	117	Mar 27	2.3	Sep 14, 1988
ANNUAL SEVEN-DAY MINIMUM	85	Mar 25	166	Feb 12	2.6	Sep 8, 1988
MAXIMUM PEAK FLOW			19,300	Mar 9	93,400	Jul 12, 1951
MAXIMUM PEAK STAGE			16.06	Mar 9	36.04	Jul 12, 1951
INSTANTANEOUS LOW FLOW			49	Jun 16	0.20	Nov 23, 1978
ANNUAL RUNOFF (AC-FT)	677,800		1,036,000		1,719,000	
10 PERCENT EXCEEDS	2,380		3,270		6,000	
50 PERCENT EXCEEDS	563		790		926	
90 PERCENT EXCEEDS	243		210		221	

e Estimated



06887500 KANSAS RIVER AT WAMEGO, KS

LOCATION.--Lat 39°11'54", long 96°18'19", in NW ¼ SW ¼ NE ¼ sec.9, T.10 S., R.10 E., Pottawatomie County, Hydrologic Unit 10270102, on left bank at upstream side of bridge on Kansas Highway 99 at Wamego, 3.0 mi downstream from Antelope Creek, and at mile 126.9.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--55,280 mi^2, approximately, of which a large area is probably noncontributing.

PERIOD OF RECORD.--January 1919 to current year.

REVISED RECORDS.--WSP 806: Drainage area. WSP 1310: 1937(M).

GAGE.--Water-stage recorder. Datum of gage is 950.82 ft above NGVD of 1929. Prior to Aug. 1, 1934, nonrecording gage and Aug. 1, 1934, to Sept. 30, 1955, water-stage recorder at present site at datum 3.00 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1903 reached a stage of 29.3 ft, present datum, determined by U.S. Weather Bureau, from floodmarks.

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	1,980	2,030	1,100	e950	e950	2,330	3,010	1,370	4,110	4,150	3,120	1,170
2	1,910	2,060	1,090	e950	e891	2,260	2,630	1,070	4,010	7,300	3,010	1,130
3	1,880	2,080	1,140	876	e907	2,280	2,110	1,030	4,030	9,170	3,080	1,090
4	1,860	2,120	1,000	882	e893	2,840	1,850	1,010	4,090	6,870	3,230	1,060
5	1,850	2,090	931	e750	e893	7,650	1,830	986	4,560	4,110	3,260	1,050
6	1,840	2,100	920	e650	e900	14,800	1,780	953	4,490	6,230	3,130	1,190
7	1,970	2,130	917	e650	e895	15,400	1,730	911	4,170	4,680	2,150	1,150
8	2,040	2,150	914	e750	e915	14,300	1,690	860	4,100	5,560	1,900	1,090
9	2,190	2,150	931	e850	e939	20,100	1,650	820	4,070	6,280	2,030	1,080
10	2,060	2,150	981	e950	e966	24,300	1,610	897	4,090	6,570	1,840	1,070
11	2,030	2,150	975	e950	e983	22,400	1,580	955	4,080	7,070	1,710	1,210
12	1,990	2,140	977	e950	e971	15,900	1,560	842	4,080	7,210	1,690	1,550
13	2,230	2,120	982	1,050	e972	9,760	1,420	912	4,160	6,060	1,680	1,810
14	2,340	2,120	882	853	e1,020	5,940	1,280	1,360	4,110	5,960	1,670	1,950
15	2,170	2,120	890	779	e1,080	5,430	1,080	2,000	6,370	5,660	1,620	2,050
16	2,050	2,110	910	854	e1,130	3,930	985	2,480	10,200	5,200	1,610	2,110
17	1,990	2,130	889	870	e1,980	2,210	961	2,570	7,140	5,050	1,460	2,070
18	1,940	2,120	903	800	2,960	1,770	933	2,060	9,520	4,560	1,710	2,120
19	1,900	2,090	927	795	2,380	1,610	924	1,410	12,400	4,440	1,880	2,040
20	1,870	1,490	922	834	2,220	1,500	1,040	1,450	11,500	4,180	2,460	2,020
21	1,910	1,180	927	838	1,670	1,400	1,140	2,900	9,010	3,950	2,710	1,990
22	2,060	1,160	920	784	1,430	1,350	1,170	3,030	7,520	3,950	2,720	1,200
23	2,090	1,240	914	781	1,440	1,300	1,220	2,830	7,010	3,350	2,770	903
24	2,080	1,230	914	837	1,430	1,180	1,520	2,690	4,650	2,180	9,180	963
25	2,060	1,210	916	997	1,100	1,150	2,220	3,570	4,100	7,290	3,190	966
26	2,040	1,100	914	1,020	940	1,120	2,300	3,980	3,900	7,630	2,030	953
27	2,040	1,000	e915	e700	889	975	2,340	4,000	5,000	4,370	2,420	957
28	2,050	1,010	e895	e600	1,690	1,050	2,350	4,020	5,480	4,010	2,450	954
29	2,050	1,070	893	e800	2,260	960	2,330	4,030	5,260	3,800	1,690	944
30	2,050	1,110	897	e1,000	---	1,950	2,220	4,090	4,950	3,450	1,040	932
31	2,040	---	896	1,340	---	2,710	---	4,070	---	3,230	1,130	---
MEAN	2,018	1,765	941	861	1,300	6,189	1,682	2,102	5,739	5,275	2,438	1,359
MAX	2,340	2,150	1,140	1,340	2,960	24,300	3,010	4,090	12,400	9,170	9,180	2,120
MIN	1,840	1,000	882	600	889	960	924	820	3,900	2,180	1,040	903
AC-FT	124,100	105,000	57,880	52,940	74,770	380,500	100,100	129,200	341,500	324,300	149,900	80,870

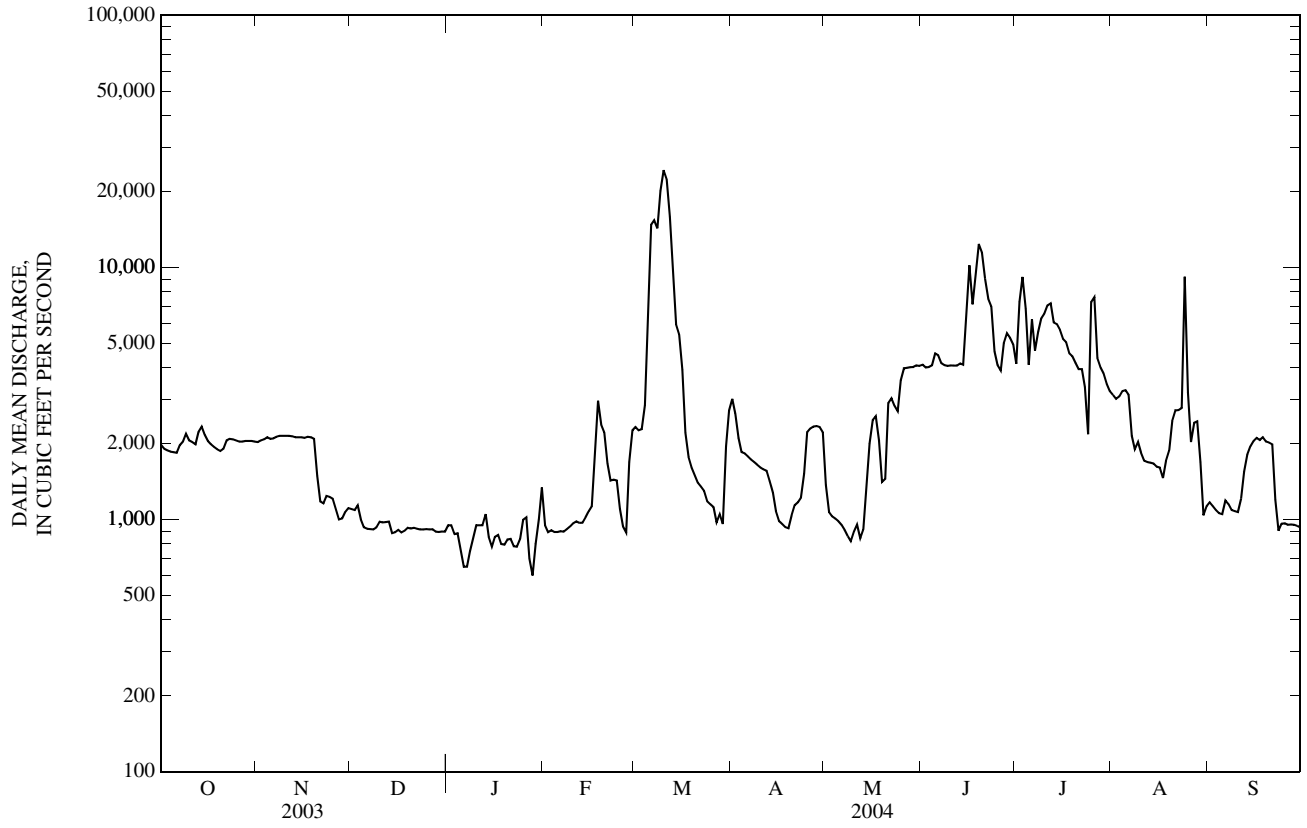
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2004, BY WATER YEAR (WY)

MEAN	3,912	2,973	2,434	1,959	3,117	4,714	5,814	7,401	10,390	8,827	5,257	4,746
MAX	39,030	35,430	14,410	9,735	14,320	23,240	32,710	30,610	64,620	98,420	50,300	32,530
(WY)	(1974)	(1974)	(1974)	(1974)	(1949)	(1973)	(1987)	(1987)	(1951)	(1951)	(1993)	(1951)
MIN	336	390	384	302	494	465	606	379	1,114	747	271	388
(WY)	(1957)	(1957)	(1957)	(1940)	(1957)	(1967)	(1956)	(1967)	(1966)	(1936)	(1934)	(1956)

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1920 - 2004	
ANNUAL MEAN	1,564		2,646		5,134	
HIGHEST ANNUAL MEAN					22,320	1993
LOWEST ANNUAL MEAN					1,135	1956
HIGHEST DAILY MEAN	6,520	Sep 17	24,300	Mar 10	393,000	Jul 13, 1951
LOWEST DAILY MEAN	533	Mar 16	600	Jan 28	116	Dec 14, 1940
ANNUAL SEVEN-DAY MINIMUM	567	Mar 13	773	Jan 3	171	Oct 5, 1956
MAXIMUM PEAK FLOW			25,000	Mar 10	400,000	Jul 13, 1951
MAXIMUM PEAK STAGE			11.69	Mar 10	30.56	Jul 13, 1951
INSTANTANEOUS LOW FLOW			649	Jan 6	73	Dec 14, 1940
ANNUAL RUNOFF (AC-FT)	1,132,000		1,921,000		3,719,000	
10 PERCENT EXCEEDS	2,760		5,310		12,100	
50 PERCENT EXCEEDS	1,270		1,860		2,300	
90 PERCENT EXCEEDS	625		897		786	

e Estimated



06887500 KANSAS RIVER AT WAMEGO, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-74, 1999 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to September 1974, July 1999 to current year.
pH: July 1999 to current year.
WATER TEMPERATURE: October 1969 to September 1974, July 1999 to current year.
DISSOLVED OXYGEN: July 1999 to current year.
TURBIDITY (YSI 6026 sensor): July 1999 to current year.
TURBIDITY (YSI 6136 sensor): May 2004 to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,100 microsiemens/cm, Oct. 25, 1971; minimum, 189 microsiemens/cm, June 16, 2004.
pH: Maximum, 9.4 standard units, Sept. 7, 2003; minimum, 7.1 standard units, Aug. 26, 2001.
WATER TEMPERATURE: Maximum, 34.1°C, Aug. 1, 2002; minimum, -0.2°C, Feb. 15, 2001.
DISSOLVED OXYGEN: Maximum, 18.9 mg/L, Dec. 10, 2001; minimum, 3.3 mg/L, June 15, 2004.
TURBIDITY (YSI 6026 sensor): Maximum, >2,200 FNU, June 15, 2004; minimum, 6 FNU, Oct. 18, 1999.
TURBIDITY (YSI 6136 sensor): Maximum, >1,350 FNU, June 6, 2004; minimum, 13 FNU, Sept. 3, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,240 microsiemens/cm, May 14; minimum, 189 microsiemens/cm, June 16.
pH: Maximum, 9.0 standard units, May 11; minimum, 7.6 standard units, June 15.
WATER TEMPERATURE: Maximum, 31.0°C, July 20; minimum, 0.4°C, Nov. 24.
DISSOLVED OXYGEN: Maximum, 16.2 mg/L, Sept. 1; minimum, 11 mg/L, Dec. 6.
TURBIDITY (YSI 6026 sensor): Maximum, >2,200 FNU, June 15; minimum, 11 FNU, Dec. 6.
TURBIDITY (YSI 6026 sensor): Maximum, >1,350 FNU, July 6; minimum, 13 FNU, Sept. 3.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	608	594	602	561	543	552	846	835	841	---	---	---
2	---	603	---	562	557	559	848	823	843	---	---	---
3	631	---	---	564	559	562	826	811	820	---	---	---
4	640	631	634	559	547	550	928	819	860	---	---	---
5	648	639	642	560	550	556	951	928	944	---	---	---
6	650	645	647	562	550	556	957	948	951	---	---	---
7	649	599	621	565	547	553	953	941	948	---	---	---
8	600	568	589	604	565	588	967	947	956	---	---	---
9	588	546	562	600	564	576	958	924	942	---	---	---
10	609	587	598	575	561	566	957	943	949	---	---	---
11	613	596	609	576	566	570	---	---	---	---	---	---
12	610	549	571	575	561	568	---	---	---	---	---	---
13	706	568	609	580	572	576	---	---	---	---	---	---
14	726	548	636	585	576	580	---	---	---	---	---	---
15	548	498	509	577	563	570	---	---	---	---	---	---
16	511	496	502	588	569	579	---	---	---	---	---	---
17	535	511	524	589	579	585	---	---	---	---	---	---
18	548	533	540	591	577	585	---	---	---	---	---	---
19	554	540	546	600	590	594	---	---	---	---	---	---
20	558	545	552	804	600	689	---	---	---	---	---	---
21	559	549	553	832	804	827	---	---	---	---	---	---
22	555	531	538	863	831	849	---	---	---	---	---	---
23	539	530	535	904	839	868	---	---	---	---	---	---
24	548	530	539	854	842	847	---	---	---	---	---	---
25	548	539	542	851	830	842	---	---	---	---	---	---
26	547	540	545	889	824	839	---	---	---	---	---	---
27	555	545	550	942	883	910	---	---	---	---	---	---
28	554	545	549	898	883	889	---	---	---	---	---	---
29	551	544	547	906	840	879	---	---	---	---	---	---
30	547	538	541	845	836	840	---	---	---	---	---	---
31	544	537	541	---	---	---	---	---	---	---	---	---
MONTH	726	496	568	942	543	670	967	811	905	---	---	---

06887500 KANSAS RIVER AT WAMEGO, 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	---	---	---	---	---	---	602	498	523	854	581	697
2	---	---	---	---	---	---	523	488	501	907	854	880
3	---	---	---	---	---	---	578	515	536	954	905	924
4	---	---	---	---	---	---	610	566	581	966	933	952
5	---	---	---	---	---	---	628	610	618	1,040	947	1,010
6	---	---	---	---	---	---	683	628	654	1,050	925	995
7	---	---	---	---	---	---	725	681	701	967	924	948
8	---	---	---	---	---	---	755	725	748	962	893	933
9	---	---	---	---	---	---	752	724	735	954	913	938
10	---	---	---	496	481	488	729	724	726	957	879	927
11	---	---	---	481	460	472	727	720	723	955	886	915
12	---	---	---	460	425	446	733	718	724	994	927	959
13	---	---	---	425	392	405	768	719	733	1,140	990	1,030
14	---	---	---	443	413	436	791	768	780	1,240	841	1,080
15	---	---	---	439	415	426	876	791	829	842	660	756
16	---	---	---	467	435	457	899	876	890	662	561	587
17	---	---	---	705	460	594	923	874	896	587	564	576
18	---	---	---	720	693	705	922	851	892	680	570	624
19	---	---	---	700	652	682	874	843	857	930	657	756
20	---	---	---	707	694	702	849	768	815	1,050	718	906
21	---	---	---	711	667	685	785	768	774	748	608	682
22	---	---	---	---	679	---	801	773	784	618	515	543
23	---	---	---	---	---	---	797	768	776	516	499	509
24	---	---	---	715	677	692	804	685	753	507	483	498
25	---	---	---	761	715	742	690	619	644	500	448	467
26	---	---	---	776	761	771	662	650	654	472	454	462
27	---	---	---	884	---	---	651	610	626	484	470	477
28	---	---	---	945	855	909	637	603	616	490	479	483
29	---	---	---	943	861	915	607	597	602	492	483	488
30	---	---	---	1,100	791	957	604	559	582	484	413	440
31	---	---	---	791	602	713	---	---	---	467	434	453
MONTH	---	---	---	1,100	392	642	923	488	709	1,240	413	739

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	478	465	471	418	377	397	497	475	487	787	727	765
2	487	476	482	434	341	396	543	488	512	794	748	780
3	493	483	487	366	331	347	645	534	582	838	785	821
4	502	485	493	419	363	389	672	593	629	852	821	839
5	495	403	448	524	416	468	596	490	540	860	821	844
6	421	374	389	537	306	419	515	489	504	869	792	830
7	386	347	375	450	296	359	679	508	608	850	795	827
8	386	332	352	494	355	419	711	679	695	820	800	812
9	395	346	368	401	349	366	---	---	---	829	800	819
10	395	378	386	483	401	440	---	---	---	852	829	841
11	422	388	404	448	419	430	---	---	---	864	779	817
12	428	403	415	444	409	424	---	---	---	789	668	724
13	431	401	417	458	413	432	---	---	---	672	634	656
14	439	424	431	---	---	---	---	---	---	637	609	616
15	463	226	398	---	---	---	---	---	---	612	574	591
16	341	189	284	516	441	468	---	---	---	584	576	581
17	465	341	382	545	516	531	880	814	854	587	581	584
18	383	366	374	566	545	557	849	631	724	595	547	578
19	385	323	339	597	566	579	674	642	663	593	574	582
20	355	336	345	657	597	635	674	572	596	593	577	584
21	385	354	373	687	649	666	582	542	552	595	581	588
22	385	367	374	657	648	652	543	528	536	838	594	703
23	375	362	367	682	610	651	544	462	529	894	838	878
24	406	375	396	633	605	618	462	232	298	898	833	871
25	418	385	400	650	283	442	588	232	388	853	790	828
26	432	415	426	407	301	350	723	588	653	830	797	815
27	430	374	404	461	407	432	706	632	664	835	691	792
28	423	375	397	472	434	450	683	653	666	821	698	776
29	481	386	414	435	407	415	876	683	790	818	751	789
30	401	368	384	444	417	429	876	839	853	783	712	758
31	---	---	---	477	443	460	---	---	---	---	---	---
MONTH	502	189	399	687	283	470	880	232	606	898	547	743

06887500 KANSAS RIVER AT WAMEGO, 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	8.6	8.5	8.5	8.5	8.4	8.4	8.6	8.4	8.5	---	---	---
2	8.6	8.4	8.5	8.4	8.4	8.4	8.5	8.3	8.4	---	---	---
3	8.7	8.5	8.6	8.4	8.4	8.4	8.5	8.3	8.4	---	---	---
4	8.7	8.5	8.6	8.4	8.4	8.4	8.5	8.3	8.4	---	---	---
5	8.8	8.5	8.7	8.5	8.4	8.4	8.6	8.4	8.5	---	---	---
6	8.9	8.6	8.7	8.5	8.4	8.4	8.6	8.4	8.5	---	---	---
7	8.9	8.6	8.8	8.5	8.4	8.4	8.6	8.4	8.5	---	---	---
8	8.8	8.5	8.6	8.5	8.4	8.4	8.6	8.4	8.5	---	---	---
9	8.6	8.4	8.5	8.5	8.4	8.4	8.5	8.4	8.4	---	---	---
10	8.6	8.4	8.5	8.4	8.4	8.4	8.4	8.4	8.4	---	---	---
11	8.6	8.4	8.5	8.4	8.3	8.4	---	---	---	---	---	---
12	8.5	8.4	8.5	8.5	8.4	8.4	---	---	---	---	---	---
13	8.5	8.4	8.5	8.5	8.4	8.5	---	---	---	---	---	---
14	8.5	8.4	8.4	8.5	8.4	8.5	---	---	---	---	---	---
15	8.4	8.4	8.4	8.5	8.4	8.5	---	---	---	---	---	---
16	8.4	8.4	8.4	8.5	8.4	8.5	---	---	---	---	---	---
17	8.5	8.4	8.4	8.5	8.4	8.4	---	---	---	---	---	---
18	8.5	8.4	8.4	8.5	8.4	8.4	---	---	---	---	---	---
19	8.4	8.3	8.4	8.5	8.4	8.5	---	---	---	---	---	---
20	8.5	8.3	8.4	8.5	8.4	8.4	---	---	---	---	---	---
21	8.5	8.3	8.4	8.5	8.4	8.4	---	---	---	---	---	---
22	8.5	8.4	8.4	8.5	8.3	8.4	---	---	---	---	---	---
23	8.6	8.4	8.4	8.5	8.4	8.5	---	---	---	---	---	---
24	8.6	8.4	8.5	8.5	8.4	8.4	---	---	---	---	---	---
25	8.5	8.4	8.4	8.4	8.4	8.4	---	---	---	---	---	---
26	e8.5	8.4	8.4	8.4	8.3	8.4	---	---	---	---	---	---
27	8.5	8.4	8.4	8.5	8.4	8.4	---	---	---	---	---	---
28	8.5	8.4	8.4	8.5	8.4	8.4	---	---	---	---	---	---
29	8.5	8.4	8.4	8.5	8.4	8.4	---	---	---	---	---	---
30	8.5	8.4	8.4	8.5	8.4	8.4	---	---	---	---	---	---
31	8.5	8.4	8.4	---	---	---	---	---	---	---	---	---
MAX	8.9	8.6	8.8	8.5	8.4	8.5	8.6	8.4	8.5	---	---	---
MIN	8.4	8.3	8.4	8.4	8.3	8.4	8.4	8.3	8.4	---	---	---

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

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

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

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

e Estimated

06887500 KANSAS RIVER AT WAMEGO, 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	18.5	13.3	15.6	11.8	10.6	10.9	7.3	5.4	6.2	---	---	---
2	19.0	14.7	16.9	11.1	10.7	10.9	5.7	4.4	4.9	---	---	---
3	19.6	16.4	17.7	11.7	10.6	11.1	4.8	4.5	4.7	---	---	---
4	20.5	15.9	18.2	11.4	9.6	10.8	5.0	4.0	4.6	---	---	---
5	21.8	16.8	19.2	9.6	8.0	8.7	4.0	2.1	2.8	---	---	---
6	22.3	17.5	19.8	10.3	7.5	8.8	4.1	2.2	2.9	---	---	---
7	22.3	17.9	20.0	10.8	7.7	9.1	5.5	2.2	3.7	---	---	---
8	20.4	18.3	19.3	9.3	7.9	8.3	5.9	3.2	4.7	---	---	---
9	20.9	17.2	18.8	10.5	7.7	8.9	5.6	0.9	3.8	---	---	---
10	19.6	18.1	18.7	11.0	9.7	10.3	---	---	---	---	---	---
11	19.3	17.3	18.4	13.0	10.3	11.4	---	---	---	---	---	---
12	19.1	15.0	16.9	11.6	9.1	10.6	---	---	---	---	---	---
13	17.7	15.3	16.4	9.4	7.8	8.7	---	---	---	---	---	---
14	17.9	14.3	16.0	9.6	8.0	8.8	---	---	---	---	---	---
15	17.9	14.4	16.1	12.2	9.3	10.4	---	---	---	---	---	---
16	16.4	13.7	15.0	11.7	8.6	10.1	---	---	---	---	---	---
17	16.1	12.3	14.5	13.1	9.9	11.4	---	---	---	---	---	---
18	18.9	13.9	16.2	12.4	9.8	11.4	---	---	---	---	---	---
19	19.8	15.4	17.5	11.1	8.0	9.5	---	---	---	---	---	---
20	20.5	16.3	18.3	11.9	8.6	10.2	---	---	---	---	---	---
21	19.4	15.9	17.7	10.1	7.1	8.6	---	---	---	---	---	---
22	19.8	15.8	17.7	8.2	6.8	7.5	---	---	---	---	---	---
23	19.2	16.4	17.7	7.0	2.1	4.9	---	---	---	---	---	---
24	17.8	15.2	16.5	3.9	0.4	2.2	---	---	---	---	---	---
25	15.7	13.2	14.5	4.9	2.4	3.6	---	---	---	---	---	---
26	14.5	11.5	13.4	6.8	3.0	4.8	---	---	---	---	---	---
27	15.4	12.1	13.8	6.1	3.5	4.7	---	---	---	---	---	---
28	15.8	13.6	14.4	4.8	2.3	3.5	---	---	---	---	---	---
29	15.8	12.5	14.1	5.7	1.5	3.6	---	---	---	---	---	---
30	15.6	13.6	14.5	7.9	4.0	5.8	---	---	---	---	---	---
31	13.6	11.8	12.7	---	---	---	---	---	---	---	---	---
MONTH	22.3	11.5	16.7	13.1	0.4	8.3	7.3	0.9	4.3	---	---	---

06887500 KANSAS RIVER AT WAMEGO, 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	---	---	---	---	---	---	14.8	10.6	12.6	18.6	12.2	14.9
2	---	---	---	---	---	---	15.8	11.0	13.3	17.7	13.5	15.5
3	---	---	---	---	---	---	16.0	11.4	13.6	19.2	12.1	15.7
4	---	---	---	---	---	---	16.8	10.9	13.7	21.4	14.9	18.0
5	---	---	---	---	---	---	15.8	11.9	13.9	24.8	16.7	20.7
6	---	---	---	---	---	---	18.1	12.6	15.1	27.5	20.2	23.7
7	---	---	---	---	---	---	16.9	14.6	15.9	28.6	21.6	25.0
8	---	---	---	6.2	---	---	17.9	12.8	15.3	28.5	21.9	25.1
9	---	---	---	5.6	4.1	4.9	15.7	11.7	13.2	26.6	22.9	24.5
10	---	---	---	5.4	4.2	4.8	12.5	10.2	11.3	25.5	20.6	23.1
11	---	---	---	5.7	4.4	5.0	15.7	9.0	12.1	25.7	21.1	23.4
12	---	---	---	6.6	4.4	5.5	13.6	11.1	12.5	25.9	21.1	22.9
13	---	---	---	6.2	5.5	5.9	16.7	10.5	13.2	22.0	14.0	17.2
14	---	---	---	8.6	5.5	6.9	17.9	11.5	14.6	19.4	12.7	15.7
15	---	---	---	7.5	6.2	6.9	20.2	13.5	16.8	21.8	15.1	18.3
16	---	---	---	7.6	5.6	6.4	23.3	16.4	19.7	22.7	17.5	20.0
17	---	---	---	11.2	6.3	8.4	24.7	18.7	21.6	22.6	18.8	20.4
18	---	---	---	13.5	8.7	10.9	22.0	18.7	19.6	21.8	19.5	20.9
19	---	---	---	14.8	9.3	12.0	22.4	16.8	19.4	25.3	19.7	22.3
20	---	---	---	14.9	12.0	13.3	20.3	18.2	19.1	28.5	22.6	25.4
21	---	---	---	12.8	8.8	10.9	20.4	15.4	17.9	26.0	22.8	24.4
22	---	---	---	12.3	7.9	10.1	17.8	13.8	15.2	25.2	21.8	23.4
23	---	---	---	15.9	9.3	12.5	14.5	12.8	13.7	25.6	21.7	23.5
24	---	---	---	15.0	13.0	14.0	16.5	13.1	14.3	25.1	21.4	23.2
25	---	---	---	15.5	14.3	14.9	18.1	12.8	15.3	23.0	19.8	21.1
26	---	---	---	18.8	14.3	16.5	18.9	14.2	16.4	21.8	19.9	21.0
27	---	---	---	17.9	15.3	16.4	19.8	14.2	17.0	24.8	20.5	22.5
28	---	---	---	18.1	13.3	15.5	20.6	16.0	18.2	24.4	20.9	22.7
29	---	---	---	16.6	13.1	14.8	18.4	15.7	16.9	24.3	21.7	22.8
30	---	---	---	15.1	11.2	13.1	15.7	12.9	14.2	23.7	21.1	22.3
31	---	---	---	14.7	10.4	12.5	---	---	---	23.7	19.7	21.7
MONTH	---	---	---	18.8	4.1	10.5	24.7	9.0	15.5	28.6	12.1	21.3

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.1	20.8	22.4	24.5	23.6	23.9	29.4	25.4	27.3	29.6	23.8	26.6
2	24.8	21.0	22.8	23.6	22.2	23.0	30.2	26.2	28.1	28.5	23.6	26.1
3	24.3	21.1	22.8	25.5	22.2	23.7	30.4	26.8	28.6	28.0	22.9	25.5
4	25.3	21.5	23.4	26.8	24.0	25.4	28.6	25.9	27.1	28.0	22.9	25.8
5	23.8	20.3	21.8	28.4	24.8	26.5	27.6	24.2	25.8	26.8	23.7	25.3
6	24.6	21.1	22.5	27.1	23.5	25.4	26.5	24.2	25.3	26.5	20.9	23.7
7	24.4	22.4	23.4	25.8	22.1	24.1	27.4	22.5	24.9	26.2	20.7	23.6
8	25.3	22.1	23.6	25.9	24.2	24.8	28.5	23.8	25.9	26.2	20.7	23.5
9	24.2	22.3	22.9	25.8	23.7	24.7	29.5	23.8	26.4	26.3	20.6	23.5
10	23.9	22.0	22.9	27.4	24.4	25.8	28.5	24.2	26.3	26.2	20.7	23.0
11	26.8	22.5	24.5	28.4	25.4	26.8	26.2	22.9	24.4	26.0	21.3	23.6
12	26.4	23.4	24.9	28.9	26.2	27.5	25.5	21.0	23.3	26.8	21.9	24.4
13	25.7	21.9	23.8	30.4	26.6	28.5	25.4	21.8	23.8	26.7	22.5	24.1
14	27.2	23.3	25.2	---	---	---	26.1	20.9	23.8	26.5	22.4	24.6
15	26.7	22.8	24.9	29.7	---	---	25.9	21.5	23.6	26.4	22.7	24.5
16	26.3	21.7	23.6	29.3	27.3	28.2	26.7	21.9	24.5	25.1	21.4	23.3
17	25.2	23.3	24.3	28.7	25.7	27.1	30.3	23.6	26.7	23.0	20.8	21.6
18	24.8	23.4	24.1	29.2	25.2	27.2	29.4	25.3	27.4	25.2	20.2	22.6
19	23.8	22.5	23.1	30.0	26.0	27.8	27.0	21.8	23.8	26.3	22.8	24.3
20	24.0	22.4	23.2	31.0	26.9	28.8	25.4	21.0	23.0	24.2	21.3	22.7
21	25.5	22.6	24.0	29.3	26.8	28.0	26.4	21.9	24.0	24.9	20.9	22.7
22	26.5	23.0	24.6	28.5	27.0	27.6	27.0	23.0	24.7	25.7	21.1	23.3
23	26.0	22.9	24.5	27.0	24.5	25.8	26.2	23.6	24.9	25.1	21.0	22.8
24	26.4	22.9	24.4	24.5	21.7	22.8	23.6	21.7	22.7	25.1	19.2	22.1
25	24.8	21.6	23.3	22.2	20.4	21.3	28.7	22.9	25.6	25.5	19.8	22.7
26	23.9	22.2	23.1	24.0	20.7	22.2	29.9	25.0	27.4	25.3	19.7	22.6
27	22.6	20.7	21.6	25.3	21.5	23.2	29.1	26.3	27.6	25.5	19.8	22.7
28	24.7	21.2	22.8	25.1	22.5	23.8	27.0	24.5	25.6	23.7	20.4	21.8
29	24.4	22.1	23.3	25.2	23.1	24.1	27.8	22.2	24.9	21.3	18.0	19.6
30	25.7	22.3	23.9	26.3	23.2	24.6	28.9	22.9	25.8	21.9	16.7	19.4
31	---	---	---	28.3	23.7	25.9	28.5	24.1	26.4	---	---	---
MONTH	27.2	20.3	23.5	31.0	20.4	25.5	30.4	20.9	25.5	29.6	16.7	23.4

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.8	10.0	10.4	11.3	10.7	11.0	14.1	12.8	13.4	---	---	---
2	10.4	8.9	9.8	11.1	10.8	10.9	14.3	12.3	13.5	---	---	---
3	9.8	8.7	9.1	11.1	10.7	10.9	14.0	13.1	13.5	---	---	---
4	10.0	8.7	9.3	11.3	10.7	11.0	14.4	13.3	13.8	---	---	---
5	10.4	8.6	9.3	12.1	11.3	11.8	15.5	13.7	14.7	---	---	---
6	11.0	8.5	9.5	---	10.5	---	15.6	14.4	14.8	---	---	---
7	11.0	8.4	9.4	10.8	10.4	10.6	15.0	13.8	14.5	---	---	---
8	10.0	8.3	8.8	11.1	10.4	10.8	15.0	13.4	14.1	---	---	---
9	9.5	8.3	8.8	11.0	10.5	10.8	14.9	13.1	13.8	---	---	---
10	9.6	8.3	8.8	10.5	10.2	10.3	---	---	---	---	---	---
11	9.4	8.4	8.8	10.4	9.9	10.2	---	---	---	---	---	---
12	9.6	8.8	9.2	10.7	9.9	10.4	---	---	---	---	---	---
13	9.6	8.9	9.1	11.5	10.7	11.1	---	---	---	---	---	---
14	9.7	9.0	9.3	11.4	10.8	11.1	---	---	---	---	---	---
15	9.4	9.0	9.2	11.0	10.6	10.8	---	---	---	---	---	---
16	9.6	9.0	9.3	11.3	10.6	10.9	---	---	---	---	---	---
17	10.0	9.5	9.8	10.7	10.0	10.5	---	---	---	---	---	---
18	9.6	9.0	9.4	11.0	9.9	10.5	---	---	---	---	---	---
19	9.4	8.9	9.2	11.6	10.7	11.2	---	---	---	---	---	---
20	9.5	8.9	9.2	11.3	10.7	11.0	---	---	---	---	---	---
21	10.0	8.9	9.4	12.1	10.7	11.5	---	---	---	---	---	---
22	10.2	9.1	9.5	12.4	11.4	11.8	---	---	---	---	---	---
23	10.2	9.0	9.4	13.8	11.7	12.9	---	---	---	---	---	---
24	10.1	9.2	9.5	14.8	13.8	14.2	---	---	---	---	---	---
25	10.6	9.5	10.0	13.9	13.2	13.7	---	---	---	---	---	---
26	10.9	---	---	13.7	12.9	13.3	---	---	---	---	---	---
27	10.6	9.7	10.2	13.9	12.9	13.4	---	---	---	---	---	---
28	10.4	9.6	10	14.6	13.5	14.1	---	---	---	---	---	---
29	10.5	9.6	10.1	14.7	13.6	14.2	---	---	---	---	---	---
30	10.4	9.6	9.9	13.8	12.8	13.4	---	---	---	---	---	---
31	11.0	10.0	10.6	---	---	---	---	---	---	---	---	---
MONTH	11.0	8.3	9.5	14.8	9.9	11.7	15.6	12.3	14.0	---	---	---

06887500 KANSAS RIVER AT WAMEGO, 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	---	---	---	---	---	---	10.8	10.3	10.5	12.0	10.8	11.3
2	---	---	---	---	---	---	10.6	10.1	10.4	12.5	10.3	11.3
3	---	---	---	---	---	---	10.7	10.1	10.4	12.8	10.4	11.5
4	---	---	---	---	---	---	11.2	10.2	10.7	---	9.1	---
5	---	---	---	---	---	---	11.8	10.3	10.9	---	---	---
6	---	---	---	---	---	---	11.5	10.0	10.7	---	---	---
7	---	---	---	---	---	---	10.8	9.5	10.1	---	---	---
8	---	---	---	---	---	---	11.2	9.6	10.3	---	---	---
9	---	---	---	13.7	12.5	13.1	11.2	9.7	10.4	---	---	---
10	---	---	---	13.8	13.4	13.6	11.8	10.5	11.1	13.4	---	---
11	---	---	---	13.8	13.4	13.6	11.5	10.3	11.1	13.0	7.0	9.8
12	---	---	---	13.4	12.6	13.1	11.3	10.0	10.7	13.3	7.0	9.5
13	---	---	---	12.7	12.2	12.5	11.3	9.9	10.8	10.4	7.6	9.0
14	---	---	---	12.3	11.6	12.0	11.1	9.7	10.4	11.8	9.2	10.5
15	---	---	---	12.0	11.7	11.8	10.8	9.4	10.1	11.0	8.6	9.7
16	---	---	---	12.0	11.5	11.8	11.3	8.9	9.9	9.8	8.2	8.9
17	---	---	---	11.6	10.5	11.1	11.8	8.3	9.6	9.2	8.0	8.5
18	---	---	---	11.0	10.3	10.7	10.6	8.1	9.3	9.1	7.7	8.4
19	---	---	---	11.2	10.0	10.6	11.9	7.1	9.4	11.3	7.8	9.3
20	---	---	---	11.7	9.7	10.7	10.8	7.8	9.2	13.2	7.2	9.9
21	---	---	---	12.9	10.5	11.7	12.0	8.7	10.1	9.3	7.3	8.4
22	---	---	---	13.6	11.3	12.3	11.4	9.1	10.1	8.7	7.5	8.1
23	---	---	---	12.4	10.1	11.3	12.7	10.3	11.4	8.5	7.6	8.1
24	---	---	---	11.0	9.5	10.2	12.2	10.6	11.2	8.9	7.8	8.3
25	---	---	---	10.5	9.3	9.8	11.7	10.4	11.0	9.2	7.9	8.6
26	---	---	---	11.2	9.2	9.9	11.6	10.3	10.9	9.3	8.4	8.9
27	---	---	---	10.2	9.2	9.6	11.9	10.3	10.9	8.7	7.8	8.4
28	---	---	---	12.3	9.0	10.5	11.1	9.6	10.2	8.7	7.6	8.2
29	---	---	---	13.7	9.6	11.4	10.9	9.4	10.1	8.5	7.6	8.0
30	---	---	---	11.8	10.0	10.9	11.4	10.2	10.8	8.0	7.7	7.9
31	---	---	---	10.6	10.0	10.4	---	---	---	8.4	7.9	8.2
MONTH	---	---	---	13.8	9.0	11.4	12.7	7.1	10.4	13.4	7.0	9.1

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.7	8.1	8.4	8.7	8.2	8.5	8.6	7.2	7.8	16.2	7.6	11.3
2	8.8	8.2	8.5	8.6	7.0	8.1	10.9	7.1	8.6	14.7	7.5	10.6
3	9.0	8.3	8.6	8.3	7.4	7.9	10.4	6.8	8.4	13.7	7.6	10.3
4	9.1	8.4	8.7	7.9	7.3	7.7	8.7	6.6	7.5	13.0	7.5	10.1
5	8.9	8.2	8.6	7.3	6.6	6.9	8.2	7.2	7.6	11.0	7.2	8.9
6	8.5	8.2	8.4	7.2	6.7	6.9	8.7	7.3	7.9	12.1	7.5	9.4
7	8.5	8.2	8.3	7.4	6.6	7.1	9.9	7.5	8.5	11.7	7.7	9.5
8	8.6	8.1	8.3	7.4	6.3	6.7	10.5	7.2	8.5	12.6	7.8	9.7
9	8.7	8.2	8.5	7.5	6.6	7.3	11.9	7.2	9.0	12.8	7.9	9.9
10	8.8	8.4	8.6	7.5	6.9	7.2	11.6	7.1	8.9	11.6	7.8	9.0
11	8.6	8.0	8.4	7.1	6.5	6.9	12.4	7.3	9.5	11.3	7.1	8.8
12	8.7	8.1	8.5	6.6	6.4	6.5	13.2	7.6	9.9	10.2	7.1	8.3
13	9.2	8.4	8.8	6.5	5.9	6.2	13.0	7.4	10.3	9.3	7.2	7.8
14	8.9	8.3	8.7	---	---	---	13.1	7.6	10.4	9.1	7.3	8.2
15	9.2	3.3	8.2	---	---	---	14.0	7.4	10.5	9.4	---	---
16	7.2	4.2	6.4	6.5	6.2	6.3	14.4	6.9	10.6	9.9	7.7	8.6
17	8.9	7.2	8.3	6.9	6.5	6.7	14.8	7.2	10.6	9.8	8.0	8.6
18	9.2	8.8	9.0	7.2	6.7	7.0	13.5	6.7	9.8	9.7	8.2	8.8
19	9.2	9.0	9.1	7.4	6.7	7.0	10.8	7.1	8.9	10.2	7.8	8.8
20	9.2	8.9	9.1	7.7	6.6	7.1	10.6	7.9	9.0	10.1	8.1	8.9
21	9.2	8.8	9.0	8.1	6.6	7.2	9.9	7.9	8.8	10.0	8.3	9.0
22	9.1	8.7	8.9	8.7	6.8	7.6	9.6	7.7	8.5	10.8	8.1	9.2
23	9.1	8.7	8.9	8.1	7.0	7.4	9.1	7.5	8.1	12.2	7.9	9.6
24	8.9	8.7	8.8	8.6	7.2	7.8	8.0	6.2	7.0	12.4	8.4	10.1
25	9.4	8.8	9.1	8.0	6.1	6.9	7.4	6.2	6.9	12.3	8.0	9.8
26	9.7	8.8	9.3	6.6	6.1	6.4	11.1	6.8	8.7	12.5	8.1	9.9
27	9.5	9.0	9.2	6.9	6.6	6.8	10.4	7.0	8.4	13.1	8.0	10.1
28	9.2	8.7	9.0	7.3	6.8	7.1	10.9	7.5	8.9	11.9	7.6	9.3
29	9.7	8.3	8.9	7.3	7.1	7.2	12.4	7.8	9.7	10.7	7.7	8.9
30	8.5	8.1	8.3	7.5	7.3	7.4	13.6	7.5	9.9	---	---	---
31	---	---	---	7.9	7.3	7.5	15.2	7.3	10.8	---	---	---
MONTH	9.7	3.3	8.6	8.7	5.9	7.1	15.2	6.2	9.0	16.2	7.1	9.3

06887500 KANSAS RIVER AT WAMEGO, 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	110	76	94	60	53	57	31	22	26	---	---	---
2	83	71	78	59	54	57	26	20	22	---	---	---
3	84	71	78	58	52	55	24	20	22	---	---	---
4	82	67	74	56	53	54	23	14	18	---	---	---
5	70	61	67	56	45	49	20	14	16	---	---	---
6	67	54	61	50	37	44	16	11	14	---	---	---
7	62	54	59	45	38	41	18	13	15	---	---	---
8	75	61	65	44	35	40	19	14	16	---	---	---
9	94	69	78	40	34	36	23	15	17	---	---	---
10	74	60	68	39	35	36	23	18	20	---	---	---
11	68	58	63	41	34	37	---	---	---	---	---	---
12	83	64	73	48	38	40	---	---	---	---	---	---
13	92	67	72	55	37	44	---	---	---	---	---	---
14	140	92	130	46	39	42	---	---	---	---	---	---
15	170	140	160	48	38	41	---	---	---	---	---	---
16	170	120	140	44	38	41	---	---	---	---	---	---
17	120	93	100	46	37	41	---	---	---	---	---	---
18	94	75	85	45	39	41	---	---	---	---	---	---
19	78	71	75	47	39	43	---	---	---	---	---	---
20	73	66	70	44	25	34	---	---	---	---	---	---
21	77	66	70	29	21	24	---	---	---	---	---	---
22	71	64	66	28	22	25	---	---	---	---	---	---
23	78	67	70	30	24	26	---	---	---	---	---	---
24	69	63	67	32	23	26	---	---	---	---	---	---
25	69	60	65	30	24	27	---	---	---	---	---	---
26	61	56	58	32	22	26	---	---	---	---	---	---
27	62	56	58	29	19	22	---	---	---	---	---	---
28	65	56	61	23	19	21	---	---	---	---	---	---
29	67	56	61	30	21	24	---	---	---	---	---	---
30	62	56	60	31	26	28	---	---	---	---	---	---
31	62	56	59	---	---	---	---	---	---	---	---	---
MONTH	170	54	77	60	19	37	31	11	19	---	---	---

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	360	250	300	100	59	79
2	---	---	---	---	---	---	260	210	230	60	48	55
3	---	---	---	---	---	---	210	160	190	50	40	46
4	---	---	---	---	---	---	160	150	160	43	37	40
5	---	---	---	---	---	---	160	150	160	45	37	40
6	---	---	---	---	---	---	160	140	150	69	35	45
7	---	---	---	---	---	---	150	120	140	68	33	45
8	---	---	---	---	340	---	130	120	120	77	31	43
9	---	---	---	340	180	240	120	110	120	60	32	39
10	---	---	---	220	130	160	120	110	120	89	33	44
11	---	---	---	150	110	130	130	100	120	67	42	53
12	---	---	---	190	110	140	110	100	110	62	45	53
13	---	---	---	290	190	240	110	88	98	67	45	58
14	---	---	---	230	200	220	94	86	90	130	59	98
15	---	---	---	280	210	240	91	71	83	120	110	120
16	---	---	---	320	240	290	74	65	70	130	92	110
17	---	---	---	310	150	230	78	64	71	110	91	100
18	---	---	---	150	130	140	90	64	77	100	84	92
19	---	---	---	140	120	140	82	66	74	100	54	82
20	---	---	---	130	120	120	89	69	81	96	52	71
21	---	---	---	120	110	120	89	79	84	150	96	140
22	---	---	---	120	100	100	90	80	83	160	130	150
23	---	---	---	110	99	100	87	69	79	170	140	150
24	---	---	---	120	100	110	120	70	89	150	110	130
25	---	---	---	120	110	110	150	120	130	140	110	130
26	---	---	---	120	100	110	130	110	120	120	81	100
27	---	---	---	---	---	---	130	100	110	93	77	85
28	---	---	---	100	76	90	160	100	120	84	70	77
29	---	---	---	89	70	78	120	110	110	120	68	79
30	---	---	---	340	66	190	120	94	110	490	120	310
31	---	---	---	350	300	330	---	---	---	350	150	230
MONTH	---	---	---	350	66	160	360	64	120	490	31	93

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	150	100	120	200	120	150	110	91	100	---	---	---
2	110	83	94	1,630	120	540	95	80	89	---	---	---
3	89	76	82	1,010	220	480	89	75	82	---	---	---
4	91	74	78	260	210	230	99	80	93	---	---	---
5	320	91	200	420	240	350	120	93	100	---	---	---
6	490	300	420	1,580	320	730	120	79	95	---	---	---
7	510	330	390	1,290	260	590	90	79	85	---	---	---
8	520	370	470	770	260	560	230	76	93	---	---	---
9	510	280	410	540	250	350	130	75	85	---	---	---
10	330	270	290	370	200	280	110	48	72	---	---	---
11	280	210	250	340	250	280	51	---	---	---	---	---
12	270	160	220	390	330	360	---	---	---	---	---	---
13	210	120	160	540	340	450	---	---	---	---	---	---
14	130	110	120	---	530	---	---	---	---	---	---	---
15	>2,200	110	>300	---	440	---	---	---	---	---	---	---
16	>2,200	640	>1,400	450	270	390	---	---	---	79	53	68
17	660	160	410	270	180	220	---	---	---	63	47	54
18	160	110	130	180	140	160	---	---	---	78	49	61
19	300	110	200	140	100	120	---	---	---	57	43	52
20	230	100	160	110	78	91	---	---	---	61	46	52
21	120	99	110	82	69	77	---	---	---	58	43	49
22	120	98	110	74	60	65	---	---	---	64	36	45
23	140	100	110	65	53	59	---	---	---	47	34	39
24	170	110	140	90	61	75	---	---	---	49	31	38
25	190	140	160	1,790	79	780	---	---	---	39	25	32
26	150	110	130	990	460	700	---	---	---	35	22	28
27	290	120	170	520	360	470	---	---	---	34	21	27
28	260	150	200	450	360	400	---	---	---	36	22	29
29	400	120	210	380	210	290	---	---	---	37	21	29
30	370	200	250	220	150	190	---	---	---	34	22	28
31	---	---	---	190	110	140	---	---	---	---	---	---
MONTH	2,200	74	250	1,790	53	330	230	48	89	79	21	42

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

06887500 KANSAS RIVER AT WAMEGO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	99	77	87	29	18	22
2	---	---	---	1,340	---	---	---	62	---	24	15	20
3	66	55	58	650	160	320	68	54	62	24	13	19
4	72	55	61	---	160	---	76	58	67	30	13	20
5	---	---	---	350	160	270	86	68	76	33	14	25
6	410	---	---	>1,350	---	---	84	55	68	38	26	32
7	350	---	---	---	---	---	62	55	59	36	23	31
8	400	240	340	---	---	---	160	52	65	34	23	28
9	350	200	280	---	---	---	95	56	66	32	23	28
10	210	190	200	290	130	200	82	33	53	35	20	27
11	200	---	---	250	160	210	38	27	33	36	22	28
12	200	110	160	280	220	250	37	25	30	48	28	41
13	---	---	---	350	220	290	35	22	28	54	---	---
14	---	---	---	---	---	---	---	---	---	55	45	48
15	1,350	76	250	---	300	---	---	28	---	56	---	---
16	1,330	410	840	300	190	260	33	20	26	---	---	---
17	---	---	---	190	130	150	33	17	26	48	28	37
18	---	---	---	130	100	110	50	22	34	57	30	40
19	---	---	---	100	74	89	46	35	40	---	---	---
20	160	80	120	81	64	72	75	40	57	---	---	---
21	110	71	82	63	47	55	58	34	49	---	---	---
22	120	76	91	50	43	47	---	36	---	---	---	---
23	---	---	---	50	37	42	---	---	---	---	---	---
24	---	---	---	64	42	51	770	---	---	25	21	22
25	---	---	---	1,160	52	500	620	---	---	25	18	22
26	---	---	---	600	310	460	---	---	---	22	15	19
27	---	---	---	---	270	---	---	---	---	22	15	18
28	---	---	---	290	240	270	---	---	---	28	16	20
29	---	---	---	---	---	---	---	47	---	24	16	20
30	---	---	---	---	---	---	---	---	---	22	16	19
31	---	---	---	120	85	100	---	---	---	---	---	---
MONTH	1,350	55	230	1,350	37	200	770	17	51	57	13	27

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

06888000 VERMILLION CREEK NEAR WAMEGO, KS

LOCATION.--Lat 39°20'52", long 96°13'02", in NE ¼ NW ¼ NW ¼ sec.20, T.8 S., R.11 E., Pottawatomie County, Hydrologic Unit 10270102, on left bank at upstream side of county highway bridge, 1.9 mi upstream fom Indian Creek, 14 mi northeast of Wamego, and at mile 15.8.

DRAINAGE AREA.--243 mi^2.

PERIOD OF RECORD.--April 1936 to June 1946, January 1954 to June 1972, February 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 992.20 ft above NGVD of 1929. Apr. 22, 1936, to June 30, 1946, gage at present site and datum. Jan 1, 1954, to June 30, 1972, gage at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum known stage 31.2 ft in June 1915, from floodmarks and other information from 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	1.3	1.2	3.2	3.9	2.3	211	63	115	23	17	18	3.9
2	1.2	1.6	3.1	3.8	2.9	98	57	69	15	31	16	3.5
3	1.1	2.1	4.0	3.3	2.9	51	53	50	12	1,600	14	3.3
4	1.0	2.3	5.2	3.4	3.0	842	50	44	11	161	12	3.0
5	0.97	3.6	5.1	2.9	3.1	3,250	47	40	14	479	11	3.0
6	0.94	3.7	5.0	2.5	3.4	321	42	36	20	516	10	3.2
7	0.96	3.8	4.7	2.3	3.3	143	37	32	20	203	9.2	3.0
8	1.0	4.0	4.5	2.4	3.4	90	47	28	15	85	9.4	2.7
9	1.4	3.5	4.8	2.5	3.9	76	38	25	11	130	13	2.5
10	1.3	3.0	5.5	2.7	4.2	64	32	29	12	101	11	2.2
11	1.3	2.6	5.3	2.8	4.4	58	29	43	12	59	10	1.9
12	1.1	2.4	5.9	3.2	e4.3	53	28	39	12	194	8.7	1.8
13	1.2	2.3	5.3	3.7	e4.3	56	27	37	476	97	8.3	1.7
14	1.4	2.4	4.7	3.8	e4.2	63	26	43	112	45	8.2	1.8
15	1.5	3.1	4.8	3.9	e4.2	58	24	35	604	31	7.7	1.8
16	1.4	2.9	5.2	4.1	e4.2	53	24	28	149	31	7.2	1.8
17	1.3	3.0	5.5	5.0	e4.2	51	23	e23	69	33	6.8	1.8
18	1.3	6.0	5.2	4.7	e4.2	51	23	e250	121	23	6.5	2.3
19	1.3	7.2	5.2	3.9	50	42	24	217	180	20	7.0	2.0
20	1.3	7.0	4.7	3.8	468	37	23	70	64	19	6.6	1.9
21	1.2	5.0	4.8	3.6	418	29	24	51	45	17	5.6	1.7
22	1.1	4.1	5.2	3.4	172	28	25	38	35	19	5.4	1.6
23	1.2	3.9	4.7	3.4	80	33	28	32	26	20	5.2	1.5
24	1.2	3.8	4.6	3.4	53	29	30	28	21	39	11	1.6
25	1.0	3.8	4.3	4.4	35	30	54	24	20	81	13	1.6
26	1.1	3.8	4.6	5.1	23	32	47	22	18	35	12	1.6
27	1.0	4.0	4.6	4.4	19	51	30	21	23	22	10	1.6
28	1.1	3.5	4.6	4.1	17	589	26	19	48	17	7.1	1.4
29	1.0	3.3	4.8	3.3	31	157	24	17	31	15	5.7	1.4
30	1.0	3.3	4.5	2.7	---	85	101	25	21	16	5.1	1.4
31	1.1	---	4.1	2.3	---	70	---	27	---	19	4.4	---
MEAN	1.17	3.54	4.76	3.51	49.4	219	36.9	50.2	74.7	135	9.20	2.15
MAX	1.5	7.2	5.9	5.1	468	3,250	101	250	604	1,600	18	3.9
MIN	0.94	1.2	3.1	2.3	2.3	28	23	17	11	15	4.4	1.4
AC-FT	72	211	293	216	2,840	13,490	2,190	3,090	4,440	8,280	565	128

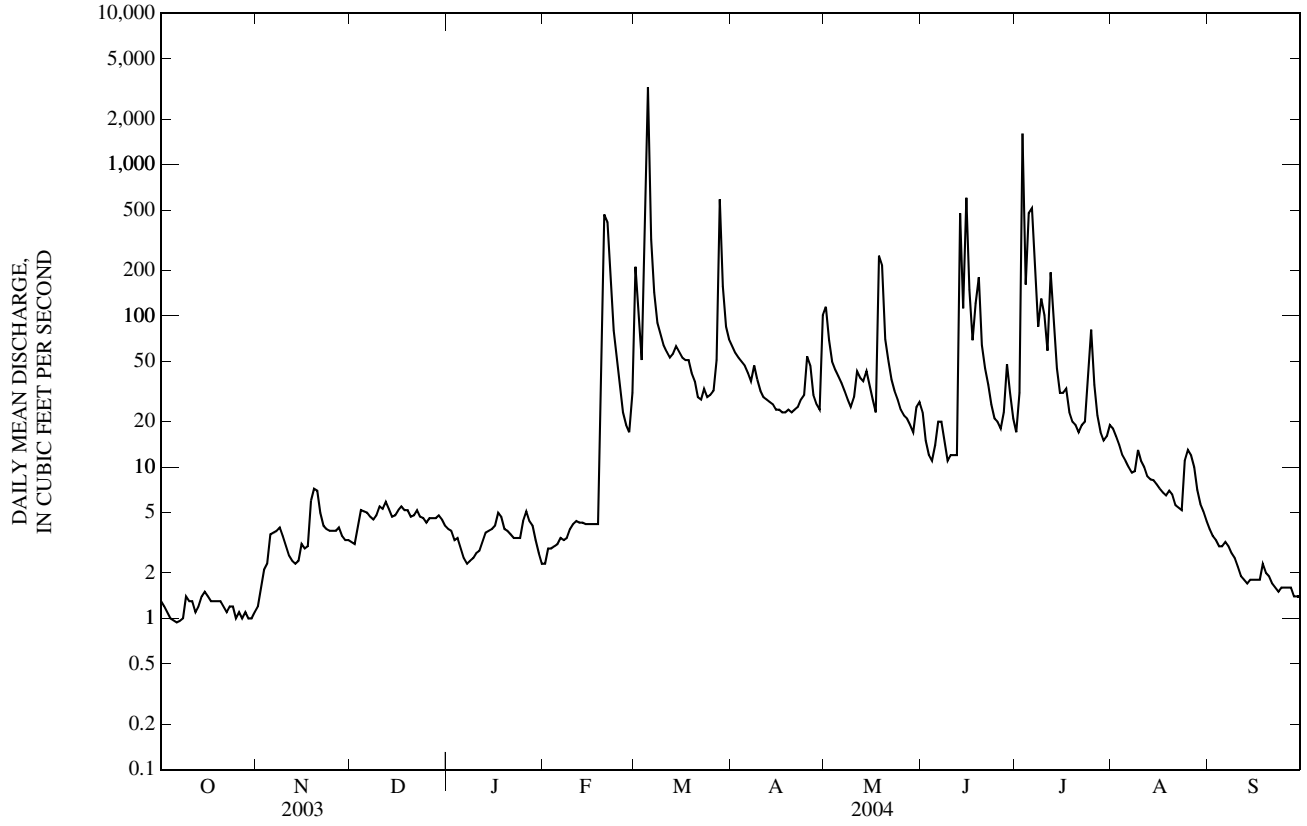
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2004, BY WATER YEAR (WY)

MEAN	72.7	35.1	29.0	27.9	60.3	88.2	102	171	192	74.4	58.5	53.3
MAX	845	259	226	219	250	495	539	619	879	544	668	675
(WY)	(1942)	(1962)	(1945)	(1962)	(1969)	(1960)	(1944)	(1959)	(1967)	(1958)	(1968)	(1965)
MIN	0.00	0.00	0.00	0.00	0.29	0.33	0.31	1.01	4.67	0.49	0.00	0.00
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1956)	(1956)	(1956)	(1937)	(1940)	(1937)	(1937)

06888000 VERMILLION CREEK NEAR WAMEGO, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1936 - 2004	
ANNUAL MEAN	16.5		49.3		86.7	
HIGHEST ANNUAL MEAN					208	1945
LOWEST ANNUAL MEAN					1.88	1956
HIGHEST DAILY MEAN	618	Apr 24	3,250	Mar 5	13,200	Oct 9, 1941
LOWEST DAILY MEAN	0.34	Aug 22	0.94	Oct 6	0.00	Jun 22, 1937
ANNUAL SEVEN-DAY MINIMUM	0.38	Aug 19	1.0	Oct 2	0.00	Jun 22, 1937
MAXIMUM PEAK FLOW			5,640	Mar 5	26,500	Jul 13, 1951
MAXIMUM PEAK STAGE			17.01	Mar 5	29.70	Jul 13, 1951
INSTANTANEOUS LOW FLOW			0.89	Oct 8	0.00	Jun 2, 1937
ANNUAL RUNOFF (AC-FT)	11,940		35,820		62,810	
10 PERCENT EXCEEDS	30		72		142	
50 PERCENT EXCEEDS	5.9		7.4		17	
90 PERCENT EXCEEDS	0.84		1.6		0.40	

e Estimated



06888350 KANSAS RIVER NEAR BELVUE, KS

LOCATION.--Lat 39°11'35", long 96°08'50", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.13, T.10 S., R.11 E., Wabaunsee County, Hydrologic Unit 10270102, on left bank at downstream side of county highway bridge, 3.5 mi southeast of Belvue, 1.3 mi downstream from Wells Creek, 6.4 mi downstream from Vermillion Creek, and at mile 115.0.

DRAINAGE AREA.--55,870 mi^2, of which a large area is probably noncontributing.

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

GAGE.--Water-stage recorder. Datum of gage is 925.54 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Natural flow affected by lakes and reservoirs in Colorado, Nebraska, and Kansas, and by numerous diversions 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	2,220	2,160	1,160	962	1,360	2,950	3,300	2,560	3,950	5,000	3,620	1,100
2	2,150	2,190	1,160	961	1,310	2,810	3,160	1,420	3,870	6,730	3,460	1,050
3	2,130	2,220	1,220	938	e880	2,620	2,640	1,090	3,830	11,800	3,430	1,000
4	2,110	2,250	1,140	929	e875	3,840	2,260	969	3,880	8,430	3,630	951
5	2,100	2,240	1,010	804	e870	15,000	2,210	919	4,060	6,430	3,650	941
6	2,090	2,250	983	e882	e867	14,700	2,180	878	4,540	11,100	3,580	1,030
7	2,140	2,270	991	e899	e875	16,200	2,100	808	4,050	7,780	2,700	1,040
8	2,210	2,310	988	e910	e890	15,400	2,060	738	3,930	6,140	2,080	944
9	2,380	2,310	992	e957	e897	18,600	2,000	667	3,850	7,880	2,140	939
10	2,280	2,330	1,030	e962	e929	24,400	1,900	734	3,890	7,780	2,050	953
11	2,240	2,350	1,060	e1,110	e952	23,600	1,840	821	3,860	8,150	1,810	1,020
12	2,150	2,320	1,070	e1,190	e953	18,300	1,780	703	3,870	8,400	1,740	1,260
13	2,330	2,290	1,070	1,220	e955	12,200	1,700	722	4,190	7,650	1,710	1,620
14	2,610	2,300	1,010	1,060	e955	8,060	1,510	932	4,300	6,950	1,690	1,780
15	2,410	2,290	959	885	e1,030	6,630	1,360	1,630	5,240	6,860	1,650	1,880
16	2,240	2,300	964	916	e1,110	5,450	1,160	2,190	11,400	6,170	1,560	2,010
17	2,160	2,350	963	958	e1,200	3,530	1,090	2,430	6,030	6,210	1,470	2,000
18	2,140	2,340	962	911	e1,370	2,630	1,040	2,450	9,530	5,680	1,490	2,040
19	2,130	2,320	994	873	e1,890	2,460	1,010	2,290	11,700	5,380	1,760	2,020
20	2,100	1,930	994	900	3,090	2,340	1,050	1,350	12,000	5,290	2,230	2,020
21	2,100	1,240	996	946	2,930	2,210	1,200	2,410	9,660	4,850	2,720	2,020
22	2,230	1,150	993	872	2,240	2,120	1,200	2,990	8,150	4,860	2,880	1,570
23	2,290	1,200	986	870	1,900	2,050	1,250	2,860	7,700	4,440	2,930	964
24	e2,250	1,280	975	868	1,750	1,880	1,380	2,690	6,120	2,780	7,940	962
25	2,220	1,250	977	1,010	1,460	1,730	2,090	3,050	4,990	5,400	5,280	993
26	2,210	1,200	986	1,090	1,080	1,660	2,330	3,840	4,670	9,470	2,100	976
27	2,200	1,060	986	e998	961	1,550	2,350	3,890	5,290	5,870	2,400	983
28	2,200	1,070	969	e1,030	1,310	2,450	2,370	3,900	6,490	4,940	2,510	990
29	2,210	1,100	962	1,490	2,390	2,070	2,360	3,900	5,880	4,590	2,110	976
30	2,180	1,160	967	1,490	---	2,000	2,600	3,970	6,070	4,210	1,210	981
31	2,150	---	967	1,340	---	3,000	---	3,960	---	3,840	1,040	---
MEAN	2,212	1,901	1,016	1,007	1,354	7,240	1,883	2,057	5,900	6,486	2,599	1,300
MAX	2,610	2,350	1,220	1,490	3,090	24,400	3,300	3,970	12,000	11,800	7,940	2,040
MIN	2,090	1,060	959	804	867	1,550	1,010	667	3,830	2,780	1,040	939
AC-FT	136,000	113,100	62,450	61,950	77,910	445,200	112,000	126,500	351,100	398,800	159,800	77,380

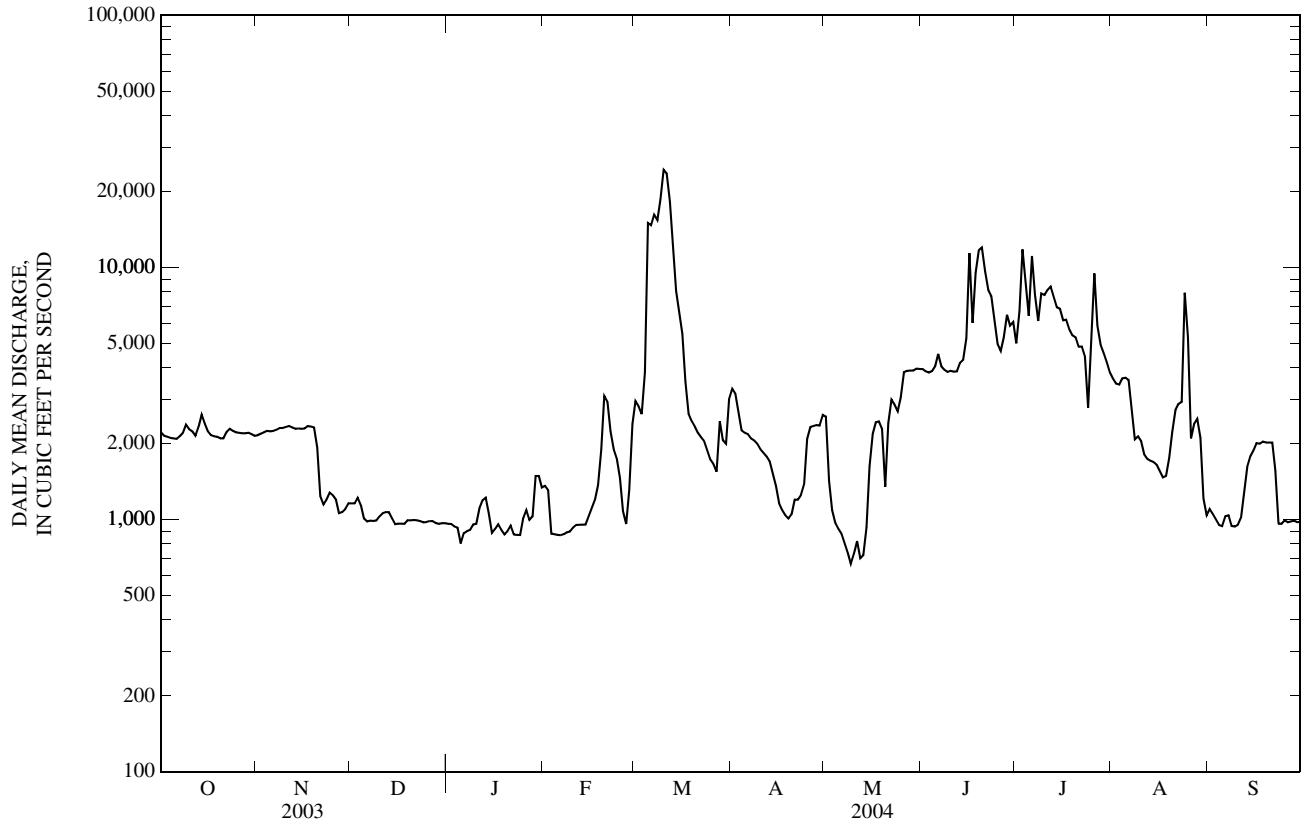
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

MEAN	4,470	3,671	4,006	2,512	4,014	5,556	7,616	10,640	10,430	10,790	8,091	4,874
MAX	23,260	21,070	10,790	7,497	15,650	24,150	32,300	31,800	42,050	72,370	57,370	35,230
(WY)	(1987)	(1999)	(1993)	(1994)	(1993)	(1993)	(1987)	(1995)	(1995)	(1993)	(1993)	(1993)
MIN	756	651	567	588	650	737	846	869	1,441	1,385	895	680
(WY)	(1985)	(1992)	(1992)	(2003)	(2003)	(2003)	(1989)	(1992)	(1989)	(1991)	(2002)	(1991)

06888350 KANSAS RIVER NEAR BELVUE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL MEAN	1,594		2,923		6,404	
HIGHEST ANNUAL MEAN					25,330	1993
LOWEST ANNUAL MEAN					1,385	2003
HIGHEST DAILY MEAN	6,260	Sep 18	24,400	Mar 10	167,000	Jul 26, 1993
LOWEST DAILY MEAN	506	Jan 17	667	May 9	390	Jan 16, 1992
ANNUAL SEVEN-DAY MINIMUM	544	Jan 14	742	May 7	478	Jan 14, 1992
MAXIMUM PEAK FLOW			25,100	Mar 10	170,000	Jul 26, 1993
MAXIMUM PEAK STAGE			13.30	Mar 10	26.00	Jul 26, 1993
INSTANTANEOUS LOW FLOW			592	Jan 5	390	Jan 16, 1992
ANNUAL RUNOFF (AC-FT)	1,154,000		2,122,000		4,639,000	
10 PERCENT EXCEEDS	2,650		6,150		15,900	
50 PERCENT EXCEEDS	1,220		2,100		3,040	
90 PERCENT EXCEEDS	598		950		906	

e Estimated



06888500 MILL CREEK NEAR PAXICO, KS

LOCATION.--Lat 39°03'46", long 96°09'00", in SW ¼ NW ¼ SW ¼ sec.25, T.11 S., R.11 E., Wabaunsee County, Hydrologic Unit 10270102, at downstream side of bridge on Snokomo Road, 1.0 mi east of Paxico, 4.5 mi downstream from Kuenzli Creek, and at mile 13.5.

DRAINAGE AREA.--316 mi^2.

PERIOD OF RECORD.--December 1953 to current year.

REVISED RECORDS.--WSP 1560: 1954, 1957.

GAGE.--Water-stage recorder. Datum of gage is 955.00 ft above NGVD of 1929 from topographic map. Prior to Apr. 15, 1958, nonrecording gage at same site and datum. Prior to Oct. 1, 2001, water-stage recorder at site 2.5 mi upstream at datum 9.92 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum known stage since at least 1935, 34.7 ft, July 12, 1951, from floodmarks, discharge, 77,200 ft^3/s, from contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 20,700 ft^3/s, June 15, gage height, 28.14 ft, may be affected by backwater from Snokomo Creek; maximum gage height, 32.51 ft, Aug. 24 (backwater from Snokomo Creek).

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	16	12	11	21	17	277	269	295	72	e2,620	234	104
2	16	13	12	21	21	201	238	254	66	e2,320	205	96
3	14	13	18	20	20	154	212	194	61	1,030	181	86
4	13	14	18	21	20	e3,010	193	173	58	556	160	79
5	13	14	17	20	20	e7,160	183	162	234	440	146	79
6	13	15	15	19	21	960	173	150	342	670	134	95
7	13	14	14	18	19	564	166	137	148	412	126	74
8	13	14	14	19	18	396	172	126	102	358	118	66
9	16	14	18	19	20	335	157	118	86	e2,810	137	63
10	16	14	24	19	20	286	148	151	105	792	119	59
11	17	15	20	19	20	242	139	145	111	471	108	56
12	17	15	17	19	19	212	133	122	96	385	100	53
13	16	14	17	19	18	200	127	168	260	328	95	49
14	16	14	18	18	18	194	124	270	146	280	86	46
15	15	13	18	18	18	188	121	204	e8,740	245	80	46
16	14	14	18	19	17	192	117	168	1,460	220	74	46
17	13	18	18	21	18	175	113	150	1,000	196	68	44
18	13	23	18	20	60	164	109	205	e7,010	174	64	43
19	13	22	18	18	549	150	105	349	1,200	160	60	42
20	12	17	19	17	497	143	106	234	667	144	65	38
21	12	14	19	17	217	129	111	183	605	128	60	35
22	11	14	20	17	143	122	108	154	448	120	55	33
23	11	16	21	17	114	121	113	138	360	146	242	32
24	11	15	21	16	99	118	123	126	307	e7,470	e5,060	31
25	10	13	21	20	88	115	173	116	263	2,870	448	30
26	10	12	22	25	81	112	143	108	235	743	325	29
27	11	12	22	21	77	262	125	106	e3,580	531	211	29
28	12	12	21	20	72	1,750	118	99	1,230	395	166	28
29	12	12	21	18	77	517	110	90	529	338	139	28
30	12	11	21	17	---	371	139	92	391	306	124	27
31	11	---	21	16	---	311	---	81	---	269	113	---
MEAN	13.3	14.4	18.5	19.0	82.7	617	146	163	997	901	300	52.2
MAX	17	23	24	25	549	7,160	269	349	8,740	7,470	5,060	104
MIN	10	11	11	16	17	112	105	81	58	120	55	27
AC-FT	817	859	1,130	1,170	4,760	37,950	8,660	10,050	59,330	55,390	18,450	3,110

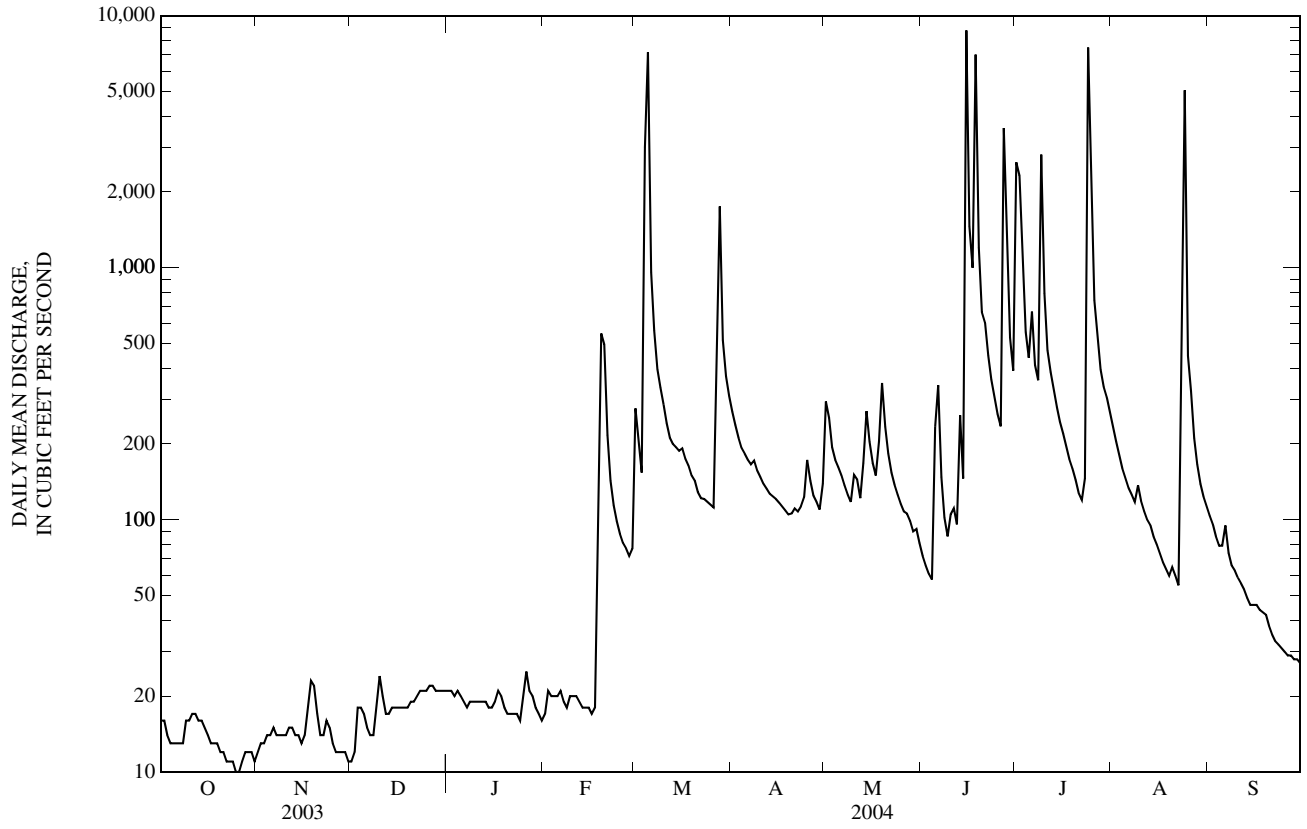
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	146	116	95.2	78.6	134	255	321	375	329	202	82.9	111
MAX	1,179	1,108	668	382	611	1,325	1,680	2,895	1,653	2,136	535	1,954
(WY)	(1986)	(1999)	(1974)	(1974)	(1973)	(1973)	(1999)	(1995)	(1967)	(1993)	(1968)	(1973)
MIN	0.00	0.00	0.00	0.00	0.00	0.97	1.51	3.05	1.89	1.82	0.05	0.04
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1954)	(1989)	(1989)	(1956)	(1955)	(1956)

06888500 MILL CREEK NEAR PAXICO, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL MEAN	63.3		278		190	
HIGHEST ANNUAL MEAN					634	1993
LOWEST ANNUAL MEAN					7.02	1956
HIGHEST DAILY MEAN	2,430	Apr 24	8,740	Jun 15	21,700	May 17, 1995
LOWEST DAILY MEAN	0.65	Aug 25	10	Oct 25	0.00	Sep 22, 1954
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 20	11	Oct 21	0.00	Sep 22, 1954
MAXIMUM PEAK FLOW			b20,700	Jun 15	42,200	Sep 26, 1973
MAXIMUM PEAK STAGE			28.14	Jun 15	32.21	Sep 26, 1973
INSTANTANEOUS LOW FLOW			9.6	Oct 26	0.00	at times
ANNUAL RUNOFF (AC-FT)	45,820		201,700		137,500	
10 PERCENT EXCEEDS	129		395		332	
50 PERCENT EXCEEDS	19		81		54	
90 PERCENT EXCEEDS	11		14		5.2	

e Estimated
b Peak discharge may be affected by backwater from Snokomo Creek



06889000 KANSAS RIVER AT TOPEKA, KS

LOCATION.--Lat 39°04'00", long 95°38'58", in SW ¼ SW ¼ NW ¼ sec.28, T.11 S., R.16 E., Shawnee County, Hydrologic Unit 10270102, on right bank at downstream side of Sardou Bridge in Topeka, 2.3 mi upstream from Soldier Creek (diversion channel), and at mile 83.1.

WATER-DISCHARGE RECORDS

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

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,090	2,020	1,190	1,040	e960	2,820	3,560	3,380	4,010	5,750	4,040	1,390
2	2,040	2,040	1,210	1,040	e940	3,420	3,760	2,740	3,990	7,920	3,830	1,390
3	1,970	2,060	1,400	1,050	e920	3,080	3,380	1,860	3,870	12,700	3,660	1,350
4	1,940	2,080	1,280	1,040	e920	4,110	2,810	1,530	3,850	11,700	3,710	1,320
5	1,910	2,110	1,210	843	e920	23,700	2,490	1,400	3,960	8,190	3,810	1,380
6	1,900	2,080	1,070	735	e910	17,100	2,450	1,340	4,670	13,100	3,790	1,360
7	1,890	2,080	1,030	721	e900	17,200	2,400	1,290	4,520	13,900	3,600	1,380
8	1,970	2,090	1,040	862	e920	15,300	2,320	1,220	4,100	6,610	2,450	1,330
9	2,110	2,110	1,160	959	e950	15,700	2,270	1,150	3,950	8,830	2,280	1,260
10	2,220	2,100	1,070	1,090	e980	22,400	2,280	1,290	4,130	11,500	2,210	1,250
11	2,150	2,140	e970	1,120	e1,000	23,200	2,150	1,430	4,010	8,640	2,030	1,250
12	2,080	2,160	1,040	1,120	e980	19,300	2,080	1,280	3,980	8,590	1,830	1,290
13	2,030	2,080	977	1,150	e980	13,000	2,050	1,420	4,250	8,310	1,800	1,460
14	2,270	2,050	1,100	1,240	e1,030	8,850	1,940	1,830	4,760	6,940	1,760	1,740
15	2,440	2,070	1,140	1,210	e1,080	6,340	e1,700	e2,100	4,410	6,770	1,700	1,940
16	2,250	2,050	1,070	1,040	e1,070	5,710	e1,500	e2,350	13,200	6,510	1,640	2,000
17	2,100	2,130	1,040	e1,000	1,010	4,450	1,360	e2,600	9,130	6,080	1,600	2,080
18	2,010	2,170	1,050	e950	1,060	2,850	1,310	2,920	10,900	5,840	1,480	2,060
19	1,980	2,120	1,040	898	1,280	2,310	1,310	3,040	15,000	5,480	1,650	2,110
20	1,960	2,100	1,060	901	2,410	2,170	1,300	2,550	13,500	5,320	1,890	2,030
21	1,920	1,620	1,060	e900	3,820	1,940	1,350	1,940	11,300	5,030	2,440	2,000
22	1,960	1,240	1,080	e960	3,070	1,760	1,430	3,010	9,080	4,830	2,900	1,980
23	2,090	1,210	1,080	e930	2,340	1,680	1,450	3,210	7,780	4,790	3,270	1,460
24	2,130	1,230	1,060	975	1,970	1,580	1,550	3,010	7,150	6,690	e18,100	1,080
25	2,100	1,270	1,050	e950	1,830	1,450	1,740	e2,900	5,230	11,000	e13,100	1,080
26	2,080	1,260	1,050	e930	1,490	1,390	2,340	e3,400	4,910	9,780	e4,490	1,080
27	2,070	1,210	1,040	934	1,250	1,460	2,390	e4,020	6,610	7,930	e2,970	1,060
28	2,070	1,110	1,060	908	1,170	4,270	2,350	4,040	11,100	5,510	3,850	1,050
29	2,050	1,110	1,050	e950	1,680	4,650	2,390	4,000	6,920	5,090	3,130	1,030
30	2,060	1,150	1,030	e950	---	2,720	2,560	4,100	6,310	4,790	2,290	1,010
31	2,050	---	1,050	e950	---	2,930	---	4,060	---	4,370	1,500	---
MEAN	2,061	1,808	1,089	979	1,374	7,705	2,132	2,465	6,686	7,693	3,510	1,473
MAX	2,440	2,170	1,400	1,240	3,820	23,700	3,760	4,100	15,000	13,900	18,100	2,110
MIN	1,890	1,110	970	721	900	1,390	1,300	1,150	3,850	4,370	1,480	1,010
AC-FT	126,700	107,600	66,960	60,190	79,020	473,700	126,900	151,600	397,900	473,000	215,800	87,670

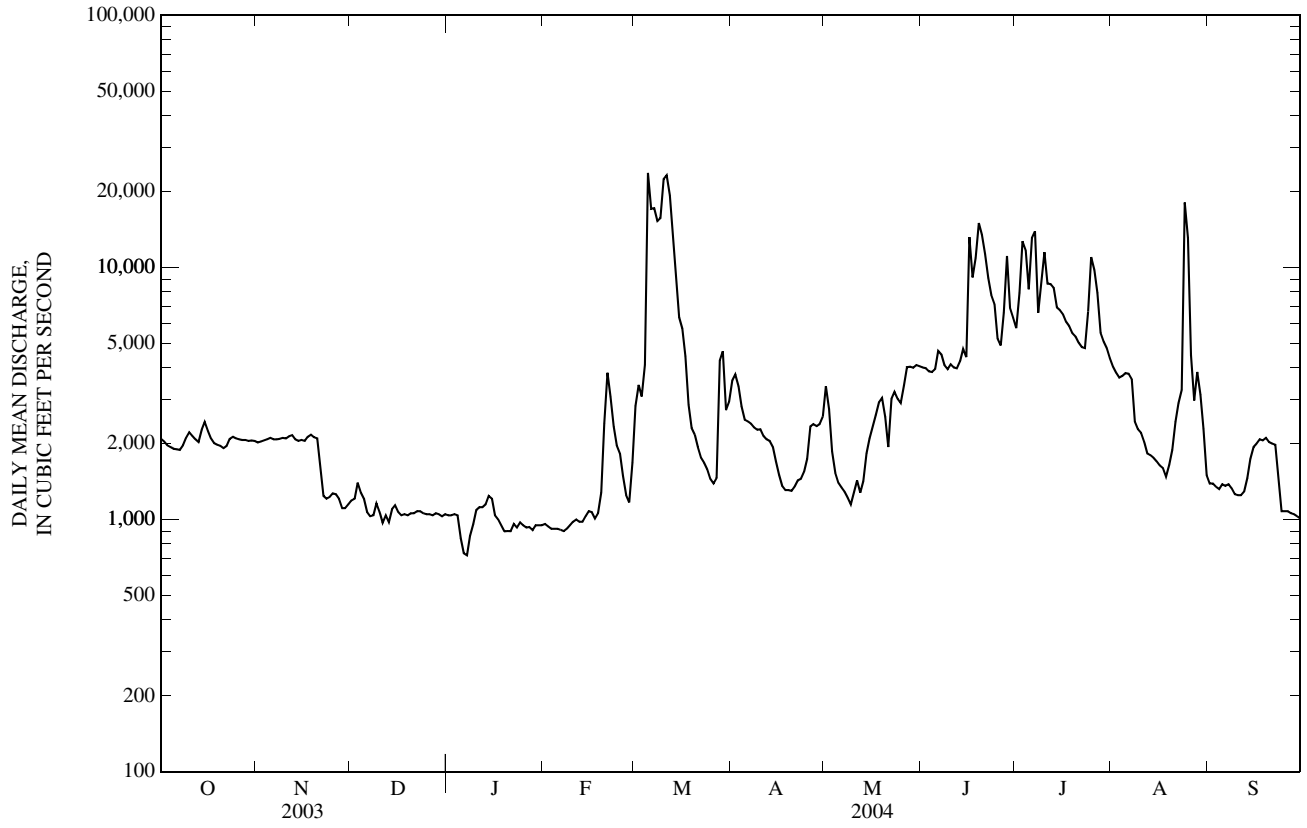
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2004, BY WATER YEAR (WY)

MEAN	4,302	3,357	2,717	2,184	3,438	5,425	6,898	8,514	11,630	9,523	5,626	5,206
MAX	42,320	35,190	16,140	11,280	16,720	27,610	32,500	36,010	64,670	109,100	55,350	34,840
(WY)	(1974)	(1974)	(1974)	(1974)	(1949)	(1973)	(1987)	(1995)	(1951)	(1951)	(1993)	(1951)
MIN	348	406	383	328	500	492	650	585	1,075	986	269	425
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1967)	(1956)	(1956)	(1989)	(1936)	(1934)	(1956)

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1918 - 2004	
ANNUAL MEAN	1,696		3,261		5,778	
HIGHEST ANNUAL MEAN					25,580	1993
LOWEST ANNUAL MEAN					1,138	1956
HIGHEST DAILY MEAN	7,660	Apr 25	23,700	Mar 5	458,000	Jul 13, 1951
LOWEST DAILY MEAN	358	Feb 25	721	Jan 7	170	Oct 11, 1956
ANNUAL SEVEN-DAY MINIMUM	532	Jan 14	887	Jan 3	183	Oct 7, 1956
MAXIMUM PEAK FLOW			29,700	Mar 5	469,000	Jul 13, 1951
MAXIMUM PEAK STAGE			16.00	Mar 5	40.80	Jul 13, 1951
INSTANTANEOUS LOW FLOW			613	Jan 7	112	Dec 16, 1940
ANNUAL RUNOFF (AC-FT)	1,228,000		2,367,000		4,186,000	
10 PERCENT EXCEEDS	2,780		7,000		13,400	
50 PERCENT EXCEEDS	1,560		2,050		2,620	
90 PERCENT EXCEEDS	691		1,010		876	

e Estimated



06889000 KANSAS RIVER AT TOPEKA, KS—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1999 to current year.
pH: July 1999 to current year.
WATER TEMPERATURE: July 1999 to current year.
DISSOLVED OXYGEN: July 1999 to current year.
TURBIDITY (YSI 6026 sensor): July 1999 to current year.
TURBIDITY (YSI 6136 sensor): March 2004 to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,630 microsiemens/cm, Oct. 26, 1999; minimum, 189 microsiemens/cm, Aug. 17, 2000.
pH: Maximum, 10.0 standard units, Aug. 16, 2003; minimum, 7.0 standard units, July 5, 2000.
WATER TEMPERATURE: Maximum, 33.4°C, July 14, 2000; minimum, 0.0°C, Feb. 25, 2001.
DISSOLVED OXYGEN: Maximum, 20.8 mg/L, Nov. 28, 2003; minimum, 3.7 mg/L, Sept. 3, 2002.
TURBIDITY (YSI 6026 sensor): Maximum, >1,600 FNU, July 4, 2000; minimum, 6.0 FNU, July 28, 2002.
TURBIDITY (YSI 6136 sensor): Maximum, >1,500 FNU, June 16, 2004; minimum, 17 FNU, Sept. 3, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,050 microsiemens/cm, May 16; minimum, 196 microsiemens/cm, Aug. 24.
pH: Maximum, 9.2 standard units, Oct. 8; minimum, 7.6 standard units, June 27.
WATER TEMPERATURE: Maximum, 31.9°C, July 20; minimum, 0.1°C, Dec. 10.
DISSOLVED OXYGEN: Maximum, 16.7 mg/L, Dec. 10; minimum, 5.0 mg/L, June 16.
TURBIDITY (YSI 6026 sensor): Maximum, >1,500 FNU, June 16; minimum, 9.3 FNU, Dec. 7.
TURBIDITY (YSI 6136 sensor): Maximum, >1,500 FNU, June 16; minimum, 20 FNU, Sept. 29.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	634	618	627	626	623	625	899	859	877	---	---	---
2	652	633	643	627	624	626	864	831	859	---	---	---
3	656	650	652	628	624	626	831	754	787	---	---	---
4	661	653	656	628	621	623	849	816	839	---	---	---
5	667	660	662	632	625	629	855	846	850	---	---	---
6	673	667	669	646	629	638	922	855	881	---	---	---
7	677	667	675	644	635	638	935	922	931	---	---	---
8	677	654	668	643	636	639	942	935	938	---	---	---
9	654	620	637	682	642	655	937	844	896	---	---	---
10	630	609	621	689	654	679	---	889	---	---	---	---
11	642	613	629	654	641	645	---	---	---	---	---	---
12	655	640	649	662	647	655	---	---	---	---	---	---
13	664	613	649	662	656	659	---	---	---	---	---	---
14	677	601	622	658	651	655	---	---	---	---	---	---
15	843	677	779	657	648	651	---	---	---	---	---	---
16	737	539	615	649	637	643	---	---	---	---	---	---
17	539	517	522	637	621	631	---	---	---	---	---	---
18	542	519	527	641	621	633	---	---	---	---	---	---
19	561	540	550	648	639	642	---	---	---	---	---	---
20	578	561	569	651	647	649	---	---	---	---	---	---
21	599	577	586	666	650	656	---	---	---	---	---	---
22	604	596	601	797	666	731	---	---	---	---	---	---
23	614	600	604	833	797	819	---	---	---	---	---	---
24	608	601	605	877	833	857	---	---	---	---	---	---
25	614	606	609	899	859	877	---	---	---	---	---	---
26	621	614	618	863	854	859	---	---	---	---	---	---
27	621	616	618	855	844	850	---	---	---	---	---	---
28	622	618	620	891	840	852	---	---	---	---	---	---
29	622	618	620	921	891	905	---	---	---	---	---	---
30	626	619	622	896	885	890	---	---	---	---	---	---
31	626	622	624	---	---	---	---	---	---	---	---	---
MONTH	843	517	624	921	621	705	942	754	873	---	---	---

06889000 KANSAS RIVER AT TOPEKA, 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	---	---	---	779	687	712	881	642	746	631	509	576
2	---	---	---	696	639	656	653	547	590	570	509	535
3	---	---	---	649	638	645	568	536	553	698	570	631
4	---	---	---	658	388	597	566	536	548	---	---	---
5	---	---	---	388	248	299	593	566	585	798	749	778
6	---	---	---	370	284	337	626	592	612	815	786	795
7	---	---	---	487	370	451	647	621	636	883	815	852
8	---	---	---	485	466	477	692	647	669	886	853	868
9	---	---	---	493	455	469	733	692	714	---	---	---
10	---	---	---	505	489	497	741	702	717	---	---	---
11	---	---	---	496	486	491	711	681	693	777	710	748
12	---	---	---	486	471	479	686	672	680	841	772	819
13	---	---	---	473	444	459	681	666	674	824	730	777
14	---	---	---	444	425	433	679	666	672	817	722	771
15	---	---	---	482	443	469	714	664	690	1,020	758	837
16	---	---	---	484	473	480	727	713	721	1,050	809	901
17	---	---	---	515	484	502	783	727	765	824	692	755
18	---	---	---	568	514	526	779	760	769	707	579	672
19	---	---	---	665	568	632	791	758	781	669	570	606
20	---	---	---	667	658	663	772	758	766	649	622	639
21	---	---	---	670	658	662	772	751	762	869	629	742
22	---	---	---	680	670	676	756	740	748	865	786	827
23	---	---	---	693	680	686	753	743	747	872	654	774
24	---	---	---	704	693	699	753	724	742	681	634	657
25	---	---	---	706	695	702	744	724	734	680	629	668
26	876	848	860	702	690	694	740	653	688	629	544	588
27	942	862	918	711	662	704	691	653	672	583	530	546
28	943	935	939	662	416	533	694	671	684	539	512	526
29	944	779	910	508	450	491	676	665	670	526	518	523
30	---	---	---	600	508	546	671	609	642	528	522	525
31	---	---	---	881	600	704	---	---	---	528	488	514
MONTH	944	779	907	881	248	560	881	536	689	1,050	488	695

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	515	485	500	456	375	410	584	542	558	818	735	770
2	525	513	518	439	---	---	---	---	---	854	713	800
3	531	525	529	---	---	---	---	---	---	722	702	715
4	537	531	534	---	---	---	---	---	---	755	707	733
5	546	536	541	---	---	---	---	---	---	800	668	756
6	556	495	541	---	---	---	633	552	609	789	703	764
7	495	454	470	---	---	---	552	528	536	791	775	781
8	462	440	448	419	322	357	599	525	560	778	746	763
9	440	409	420	464	346	412	654	524	622	756	738	745
10	426	414	420	382	316	344	689	650	673	741	732	736
11	466	426	456	501	382	453	699	673	684	759	731	740
12	481	460	469	481	443	454	756	676	716	786	757	772
13	488	470	476	482	443	463	752	734	744	768	721	747
14	501	475	490	472	448	462	762	733	747	721	647	677
15	487	473	480	458	443	451	754	742	748	647	616	634
16	484	243	349	476	455	468	803	754	774	617	607	612
17	309	223	272	533	464	483	777	723	755	610	600	604
18	384	284	331	585	533	558	768	719	740	610	595	603
19	392	294	346	614	583	597	809	677	776	613	592	603
20	415	345	379	649	610	625	677	578	621	614	597	607
21	405	346	370	694	649	674	625	510	579	617	603	610
22	483	405	451	728	686	712	520	428	489	624	605	616
23	477	441	457	731	708	722	468	395	449	645	615	627
24	459	417	429	731	381	603	405	196	295	761	644	700
25	449	371	406	482	311	387	286	244	271	820	761	800
26	373	359	363	608	351	448	404	279	337	814	792	804
27	434	324	382	471	362	420	610	404	503	806	774	787
28	378	316	341	---	---	---	601	466	562	815	777	794
29	415	348	387	---	---	---	641	594	616	824	806	813
30	518	396	439	---	---	---	655	613	641	839	824	836
31	---	---	---	---	---	---	746	627	701	---	---	---
MONTH	556	223	433	731	311	500	809	196	604	854	592	718

06889000 KANSAS RIVER AT TOPEKA, 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	8.6	8.4	8.4	8.6	8.5	8.5	8.6	8.6	8.6	---	---	---
2	8.6	8.4	8.5	8.5	8.4	8.5	8.6	8.5	8.6	---	---	---
3	8.6	8.5	8.5	8.5	8.4	8.4	8.6	8.5	8.5	---	---	---
4	8.7	8.6	8.6	8.5	8.4	8.4	8.6	8.5	8.5	---	---	---
5	8.8	8.6	8.7	8.6	8.4	8.5	8.6	8.5	8.5	---	---	---
6	9.0	8.7	8.8	8.6	8.5	8.5	8.6	8.5	8.5	---	---	---
7	9.1	8.8	8.9	8.5	8.5	8.5	8.6	8.5	8.6	---	---	---
8	9.2	9.0	9.1	8.6	8.4	8.5	8.7	8.6	8.6	---	---	---
9	9.1	8.9	9.0	8.5	8.4	8.5	8.6	8.6	8.6	---	---	---
10	9.0	8.7	8.8	8.5	8.4	8.5	8.6	8.6	8.6	---	---	---
11	8.7	8.6	8.7	8.5	8.4	8.4	---	---	---	---	---	---
12	8.8	8.6	8.7	8.6	8.4	8.5	---	---	---	---	---	---
13	8.8	8.6	8.7	8.6	8.5	8.5	---	---	---	---	---	---
14	8.7	8.5	8.6	8.6	8.5	8.5	---	---	---	---	---	---
15	8.7	8.5	8.6	8.8	8.5	8.5	---	---	---	---	---	---
16	8.6	8.4	8.4	8.6	8.5	8.6	---	---	---	---	---	---
17	8.4	8.4	8.4	8.6	8.5	8.5	---	---	---	---	---	---
18	8.5	8.3	8.4	8.6	8.4	8.5	---	---	---	---	---	---
19	8.4	8.4	8.4	8.8	8.5	8.6	---	---	---	---	---	---
20	8.5	8.4	8.4	8.7	8.5	8.6	---	---	---	---	---	---
21	8.6	8.4	8.5	8.6	8.5	8.6	---	---	---	---	---	---
22	8.7	8.5	8.6	8.6	8.5	8.5	---	---	---	---	---	---
23	8.8	8.6	8.7	8.6	8.5	8.5	---	---	---	---	---	---
24	8.8	8.7	8.8	8.6	8.5	8.5	---	---	---	---	---	---
25	8.8	8.7	8.8	8.6	8.5	8.5	---	---	---	---	---	---
26	8.7	8.6	8.7	8.6	8.5	8.5	---	---	---	---	---	---
27	8.7	8.5	8.6	8.6	8.5	8.5	---	---	---	---	---	---
28	8.6	8.5	8.6	8.6	8.5	8.5	---	---	---	---	---	---
29	8.6	8.5	8.5	8.6	8.5	8.5	---	---	---	---	---	---
30	8.7	8.5	8.5	8.6	8.5	8.6	---	---	---	---	---	---
31	8.6	8.5	8.6	---	---	---	---	---	---	---	---	---
MAX	9.2	9.0	9.1	8.8	8.5	8.6	8.7	8.6	8.6	---	---	---
MIN	8.4	8.3	8.4	8.5	8.4	8.4	8.6	8.5	8.5	---	---	---

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	8.8	8.7	8.7	8.6	8.3	8.4	8.6	8.3	8.3
2	---	---	---	8.7	8.6	8.6	8.3	8.3	8.3	8.4	8.3	8.3
3	---	---	---	8.7	8.6	8.6	8.4	8.3	8.3	8.8	8.4	8.6
4	---	---	---	8.7	8.3	8.6	8.4	8.3	8.4	8.9	8.7	8.8
5	---	---	---	8.3	8.1	8.1	8.6	8.4	8.4	8.9	8.5	8.8
6	---	---	---	8.2	8.1	8.2	8.7	8.5	8.6	8.8	8.4	8.6
7	---	---	---	8.2	8.2	8.2	8.8	8.6	8.7	8.7	8.4	8.5
8	---	---	---	8.2	8.1	8.2	8.8	8.6	8.7	8.7	8.4	8.6
9	---	---	---	8.3	8.2	8.2	8.8	8.6	8.7	8.6	8.4	8.5
10	---	---	---	8.3	8.3	8.3	8.7	8.6	8.7	8.5	8.3	8.5
11	---	---	---	8.3	8.3	8.3	8.7	8.6	8.6	8.8	8.3	8.5
12	---	---	---	8.3	8.3	8.3	8.6	8.5	8.6	8.7	8.4	8.6
13	---	---	---	8.3	8.3	8.3	8.6	8.5	8.5	8.7	8.4	8.5
14	---	---	---	8.3	8.3	8.3	8.6	8.5	8.5	8.7	8.4	8.5
15	---	---	---	8.4	8.3	8.3	8.7	8.5	8.6	8.9	8.6	8.7
16	---	---	---	8.4	8.3	8.4	8.8	8.6	8.6	9.0	8.8	8.8
17	---	---	---	8.4	8.3	8.4	9.1	8.7	8.8	8.9	8.7	8.8
18	---	---	---	8.6	8.3	8.4	8.9	8.5	8.8	8.9	8.4	8.6
19	---	---	---	8.5	8.4	8.4	9.1	8.6	8.9	8.5	8.2	8.3
20	---	---	---	8.7	8.4	8.5	9.0	8.5	8.8	8.6	8.3	8.3
21	---	---	---	8.8	8.6	8.7	9.1	8.7	8.8	8.9	8.6	8.7
22	---	---	---	8.9	8.8	8.8	8.9	8.7	8.9	8.9	8.5	8.8
23	---	---	---	9.0	8.8	8.9	8.9	8.8	8.8	8.8	8.6	8.7
24	---	---	---	9.0	8.9	8.9	8.8	8.6	8.8	8.6	8.5	8.5
25	---	---	---	8.9	8.8	8.8	8.9	8.7	8.8	8.7	8.5	8.6
26	8.7	8.7	8.7	8.8	8.7	8.8	8.9	8.7	8.8	8.7	8.5	8.6
27	8.7	8.7	8.7	8.8	8.7	8.7	8.8	8.6	8.7	8.7	8.4	8.5
28	8.8	8.7	8.7	8.7	8.1	8.2	9.0	8.7	8.8	8.8	8.6	8.6
29	8.8	8.7	8.8	8.3	8.1	8.3	8.9	8.7	8.8	8.8	8.6	8.7
30	---	---	---	8.5	8.3	8.4	8.8	8.5	8.6	8.8	8.6	8.7
31	---	---	---	8.7	8.5	8.7	---	---	---	8.7	8.3	8.5
MAX	8.8	8.7	8.8	9.0	8.9	8.9	9.1	8.8	8.9	9.0	8.8	8.8
MIN	8.7	8.7	8.7	8.2	8.1	8.1	8.3	8.3	8.3	8.4	8.2	8.3

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.4	8.2	8.3	8.0	7.9	8.0	8.4	8.2	8.2	8.6	8.5	8.6
2	8.4	8.3	8.4	8.1	7.9	8.0	8.6	8.3	8.4	8.6	8.3	8.5
3	8.5	8.3	8.4	8.0	7.7	7.9	8.9	8.5	8.6	8.6	8.2	8.4
4	8.6	8.4	8.5	7.9	7.7	7.8	8.9	8.6	8.7	8.6	8.1	8.4
5	8.6	8.4	8.4	---	---	---	8.9	8.6	8.7	8.5	8.1	8.4
6	8.4	8.1	8.3	---	---	---	8.8	8.4	8.5	8.7	8.3	8.5
7	8.2	8.1	8.1	---	---	---	8.6	8.3	8.4	8.7	8.3	8.5
8	8.3	8.2	8.2	8.0	7.8	7.9	8.6	8.4	8.5	9.0	8.3	8.9
9	8.3	8.1	8.2	8.0	7.8	7.9	8.8	8.5	8.6	9.0	8.6	8.8
10	8.2	8.1	8.1	7.9	7.8	7.8	8.9	8.6	8.7	8.9	8.5	8.7
11	8.2	8.1	8.2	8.0	7.9	7.9	8.8	8.5	8.7	8.9	8.4	8.6
12	8.3	8.2	8.2	7.9	7.9	7.9	8.8	8.6	8.7	9.0	8.5	8.7
13	8.3	8.3	8.3	7.9	7.9	7.9	8.7	8.4	8.6	9.2	8.6	8.8
14	8.3	8.2	8.2	8.0	7.9	8.0	8.8	8.4	8.6	9.1	8.8	9.0
15	8.4	8.2	8.2	8.0	7.9	8.0	8.7	8.3	8.5	9.1	8.8	8.9
16	8.4	7.7	7.7	8.0	8.0	8.0	8.7	8.4	8.6	9.0	8.7	8.9
17	7.9	7.8	7.8	8.1	8.0	8.0	8.7	8.3	8.5	8.9	8.7	8.8
18	8.0	7.8	7.9	8.1	8.1	8.1	8.5	8.2	8.3	8.8	8.6	8.7
19	8.1	7.9	8.0	8.2	8.1	8.2	8.6	8.3	8.4	8.9	8.6	8.7
20	8.1	8.0	8.0	8.3	8.2	8.2	9.0	8.5	8.7	9.0	8.7	8.8
21	8.1	8.0	8.0	8.4	8.2	8.3	8.9	8.5	8.8	9.1	8.8	9.0
22	8.2	8.0	8.1	8.5	8.3	8.3	8.9	8.7	8.8	9.0	8.8	8.9
23	8.3	8.1	8.2	8.4	8.3	8.4	8.9	8.5	8.6	9.0	8.7	8.8
24	8.3	8.1	8.2	8.4	7.9	8.3	8.6	7.8	7.9	9.1	8.7	8.8
25	8.3	7.7	8.0	8.1	7.8	7.9	7.8	7.7	7.7	9.1	8.8	9.0
26	7.8	7.7	7.8	8.2	7.8	7.9	8.0	7.7	7.8	9.0	8.6	8.8
27	8.3	7.6	7.9	7.9	7.8	7.8	8.6	8.0	8.2	9.0	8.6	8.8
28	8.0	7.8	7.9	8.0	7.9	8.0	8.7	8.3	8.5	9.1	8.7	8.8
29	8.1	7.9	8.0	8.1	8.0	8.0	8.8	8.5	8.6	9.1	9.0	9.0
30	8.2	8.0	8.1	8.1	8.1	8.1	8.9	8.7	8.8	9.1	8.9	9.0
31	---	---	---	8.2	8.1	8.1	8.8	8.5	8.6	---	---	---
MAX	8.6	8.4	8.5	8.5	8.3	8.4	9.0	8.7	8.8	9.2	9.0	9.0
MIN	7.8	7.6	7.7	7.9	7.7	7.8	7.8	7.7	7.7	8.5	8.1	8.4

06889000 KANSAS RIVER AT TOPEKA, 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	16.4	12.6	14.3	11.7	9.8	10.3	6.7	5.8	6.3	---	---	---
2	16.8	14.5	15.7	9.8	9.5	9.6	6.1	4.3	4.8	---	---	---
3	17.6	15.8	16.6	11.2	9.4	10.2	4.5	4.0	4.1	---	---	---
4	19.0	16.0	17.5	11.2	9.1	10.4	4.4	3.8	4.1	---	---	---
5	20.5	17.6	19.0	9.1	6.7	7.7	4.2	2.4	3.1	---	---	---
6	21.1	18.4	19.8	7.7	5.8	6.7	3.1	2.0	2.5	---	---	---
7	21.6	19.2	20.5	7.9	6.0	7.0	4.2	2.0	3.2	---	---	---
8	21.4	19.7	20.5	7.8	6.2	6.9	5.8	3.9	4.8	---	---	---
9	20.9	19.3	20.2	7.9	5.7	6.7	5.9	2.8	4.8	---	---	---
10	20.8	19.1	19.7	9.5	7.7	8.4	---	0.1	---	---	---	---
11	19.7	18.0	18.8	11.5	9.5	10.5	---	---	---	---	---	---
12	18.2	15.8	17.1	11.5	10.0	10.9	---	---	---	---	---	---
13	17.9	15.6	16.5	10.0	8.0	8.5	---	---	---	---	---	---
14	16.6	14.5	15.7	8.8	7.8	8.3	---	---	---	---	---	---
15	16.8	14.5	15.7	10.9	8.7	9.7	---	---	---	---	---	---
16	16.6	13.7	14.9	11.0	9.2	10.2	---	---	---	---	---	---
17	14.2	12.0	13.2	13.0	10.4	11.4	---	---	---	---	---	---
18	16.8	13.0	14.6	13.2	12.0	12.9	---	---	---	---	---	---
19	18.7	15.6	17.0	12.0	9.8	10.7	---	---	---	---	---	---
20	20.1	17.4	18.7	11.3	9.6	10.6	---	---	---	---	---	---
21	19.9	17.8	18.8	11.0	9.1	9.7	---	---	---	---	---	---
22	19.7	17.4	18.6	9.3	7.8	8.3	---	---	---	---	---	---
23	19.6	18.0	18.8	7.8	2.7	5.5	---	---	---	---	---	---
24	18.7	16.7	17.5	2.7	0.4	1.3	---	---	---	---	---	---
25	17.1	14.4	15.4	2.8	1.1	1.9	---	---	---	---	---	---
26	14.4	11.7	12.6	4.7	2.3	3.4	---	---	---	---	---	---
27	13.2	10.9	12.0	4.7	3.8	4.2	---	---	---	---	---	---
28	14.1	13.0	13.5	4.0	2.4	3.0	---	---	---	---	---	---
29	14.4	11.9	13.2	3.8	1.3	2.6	---	---	---	---	---	---
30	14.9	13.6	14.3	6.4	3.6	4.9	---	---	---	---	---	---
31	14.1	11.7	12.7	---	---	---	---	---	---	---	---	---
MONTH	21.6	10.9	16.6	13.2	0.4	7.7	6.7	0.1	4.2	---	---	---

06889000 KANSAS RIVER AT TOPEKA, 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	---	---	---	7.1	6.0	6.5	15.1	11.8	13.4	16.4	13.2	14.5
2	---	---	---	6.7	5.4	6.1	15.9	12.6	14.2	16.7	14.5	15.6
3	---	---	---	6.2	5.6	5.9	15.8	13.1	14.5	17.9	13.9	15.7
4	---	---	---	6.1	5.8	6.0	16.1	12.8	14.4	19.4	15.7	17.3
5	---	---	---	6.0	5.7	5.9	16.0	13.7	14.7	23.1	17.9	20.0
6	---	---	---	7.1	5.0	6.0	17.8	14.2	15.6	25.4	21.4	23.3
7	---	---	---	7.2	6.3	6.8	18.1	16.2	17.0	26.6	23.3	25.0
8	---	---	---	7.6	6.0	6.8	18.0	15.2	16.7	26.5	23.7	25.4
9	---	---	---	7.7	6.5	7.1	17.6	13.1	14.8	26.4	23.4	24.8
10	---	---	---	6.8	5.8	6.2	13.1	11.5	12.1	24.7	21.4	22.9
11	---	---	---	6.4	5.5	6.0	14.3	10.1	11.9	25.1	22.1	23.6
12	---	---	---	6.7	5.3	6.0	14.2	12.1	12.8	24.9	22.4	23.4
13	---	---	---	6.7	6.3	6.5	15.6	11.4	13.1	23.7	15.8	19.7
14	---	---	---	8.5	6.2	7.3	16.7	13.2	14.9	18.9	13.8	16.0
15	---	---	---	8.3	7.4	7.9	18.8	14.4	16.3	20.6	16.4	18.4
16	---	---	---	7.6	6.5	7.1	---	---	---	22.7	18.4	20.4
17	---	---	---	9.2	6.6	7.7	23.4	20.5	22.1	23.4	20.1	21.7
18	---	---	---	12.0	8.6	10.0	23.3	19.1	20.5	23.4	21.0	22.0
19	---	---	---	14.1	10.1	11.7	21.5	17.7	19.4	23.6	20.4	21.8
20	---	---	---	14.9	13.7	14.3	21.5	19.3	20.3	27.7	22.7	24.7
21	---	---	---	14.1	10.8	11.9	19.6	17.1	18.5	27.7	25.2	26.6
22	---	---	---	11.9	9.4	10.7	19.4	14.9	16.7	27.1	24.2	25.8
23	---	---	---	14.6	10.2	12.1	14.9	13.9	14.4	27.2	24.0	25.5
24	---	---	---	14.6	13.7	14.2	15.7	13.9	14.6	26.8	24.1	25.5
25	---	---	---	16.0	14.5	15.2	17.6	13.5	15.4	26.3	22.7	24.0
26	6.4	3.2	4.8	19.5	15.7	17.2	18.6	15.5	17.0	23.9	21.1	21.8
27	7.3	4.7	6.2	19.4	16.5	17.8	19.7	15.6	17.4	25.8	20.6	22.7
28	7.5	6.0	6.9	16.5	14.4	15.5	20.9	17.5	19.2	---	---	---
29	7.6	6.8	7.2	15.5	13.8	14.8	20.6	17.8	18.6	25.6	23.4	24.5
30	---	---	---	14.6	12.3	13.2	18.2	14.5	16.3	---	---	---
31	---	---	---	14.1	10.8	12.5	---	---	---	23.8	20.9	22.3
MONTH	7.6	3.2	6.3	19.5	5.0	9.8	23.4	10.1	16.1	27.7	13.2	21.9

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.3	21.3	22.8	25.7	24.4	24.9	30.0	26.2	28.0	27.8	24.6	26.2
2	25.3	22.0	23.6	24.9	22.8	23.6	30.5	27.5	28.8	27.6	25.0	26.5
3	25.6	22.6	24.1	24.6	22.7	23.5	31.7	28.1	29.9	27.0	24.1	25.7
4	26.5	22.9	24.6	27.0	23.9	25.2	30.9	27.4	28.6	27.4	24.5	26.0
5	26.1	22.6	23.7	---	---	---	27.6	25.6	26.7	27.3	25.1	26.1
6	24.7	21.9	23.0	---	---	---	27.1	24.7	26.0	25.5	22.2	23.9
7	26.0	23.6	24.7	---	---	---	27.0	23.8	25.4	25.1	22.2	23.8
8	26.4	24.0	25.0	25.0	23.6	24.1	26.8	24.2	25.6	24.7	21.9	23.6
9	26.1	24.1	24.5	25.4	23.9	24.6	29.2	24.4	26.5	24.9	22.1	23.6
10	24.4	23.1	23.9	27.2	23.7	25.3	28.9	25.8	27.2	25.2	22.4	24.0
11	28.1	23.7	25.4	29.1	26.4	27.7	27.3	24.0	25.1	25.1	22.8	24.0
12	28.6	25.8	27.1	30.0	27.1	28.5	24.7	21.6	23.2	25.8	22.9	24.4
13	27.2	23.3	25.1	31.1	28.3	29.7	24.9	22.3	23.5	26.0	23.0	24.6
14	28.7	25.0	26.7	30.7	28.9	29.8	25.2	22.0	23.7	26.6	23.3	24.9
15	28.5	25.7	27.1	30.2	27.7	29.0	25.1	22.4	23.6	26.3	24.0	25.1
16	27.6	23.1	25.1	29.7	27.8	28.9	24.8	21.5	23.0	25.8	22.8	24.0
17	24.7	23.2	23.9	29.5	27.6	28.6	28.8	23.7	25.8	24.1	20.8	21.7
18	24.6	23.1	23.9	29.4	26.6	28.1	28.9	26.3	27.8	24.3	20.0	21.5
19	23.8	21.8	22.5	30.2	26.5	28.3	28.6	21.9	24.9	25.2	22.6	23.9
20	23.1	21.6	22.3	31.9	28.4	30.0	25.1	20.9	22.7	24.7	21.8	23.1
21	25.5	22.4	23.7	31.2	28.5	29.8	25.0	22.2	23.6	24.5	20.9	22.6
22	26.4	23.8	25.0	30.4	28.5	29.4	27.0	23.1	24.8	24.5	22.0	23.3
23	26.9	23.9	25.4	29.0	25.7	27.0	26.7	24.1	25.3	24.1	21.7	22.7
24	27.2	24.5	25.9	25.7	21.1	23.2	24.1	20.5	21.7	23.5	20.5	22.1
25	26.1	23.2	24.1	23.2	20.4	21.7	25.1	21.6	23.4	23.8	21.3	22.7
26	24.2	23.2	23.7	23.8	21.9	22.9	28.8	24.6	26.3	23.8	21.4	22.8
27	23.8	20.1	22.1	25.1	22.3	23.7	29.3	26.9	28.0	23.6	21.1	22.5
28	23.1	19.6	21.0	25.1	22.9	24.0	28.4	25.8	26.6	23.4	21.2	22.1
29	24.9	21.9	23.3	24.8	23.0	23.9	26.9	24.1	25.5	21.5	19.2	20.2
30	25.9	23.0	24.4	26.7	23.4	25.0	27.0	23.9	25.4	20.8	18.0	19.5
31	---	---	---	28.5	24.5	26.4	27.5	24.9	26.3	---	---	---
MONTH	28.7	19.6	24.3	31.9	20.4	26.3	31.7	20.5	25.6	27.8	18.0	23.6

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.2	10.1	10.7	12.7	11.6	12.2	14.4	12.8	13.5	---	---	---
2	10.9	10.0	10.4	12.7	12.2	12.4	14.3	13.2	13.7	---	---	---
3	10.8	9.7	10.2	12.7	11.9	12.3	14.5	13.6	14.1	---	---	---
4	11.6	9.7	10.4	12.5	11.7	12.1	15.0	14.0	14.4	---	---	---
5	12.0	9.3	10.4	13.6	12.5	13.1	15.7	14.0	14.9	---	---	---
6	12.6	9.0	10.5	14.1	11.4	12.9	16.4	14.9	15.4	---	---	---
7	13.3	8.9	10.6	12.0	11.3	11.6	15.9	14.2	15.1	---	---	---
8	12.5	8.6	10.3	12.0	11.2	11.6	15.4	13.4	14.3	---	---	---
9	12.7	8.8	10.4	12.3	11.5	12.0	14.3	13.0	13.5	---	---	---
10	11.2	9.0	9.8	11.6	11.0	11.4	16.7	14.3	15.5	---	---	---
11	11.0	9.2	9.9	11.1	10.5	10.9	---	---	---	---	---	---
12	12.5	9.9	10.9	11.2	10.4	10.8	---	---	---	---	---	---
13	11.7	9.8	10.4	12.1	11.1	11.6	---	---	---	---	---	---
14	11.7	10.0	10.8	12.2	11.5	11.7	---	---	---	---	---	---
15	11.7	10.2	10.7	11.7	11.0	11.4	---	---	---	---	---	---
16	---	---	---	12.1	11.0	11.4	---	---	---	---	---	---
17	---	---	---	11.2	10.3	10.8	---	---	---	---	---	---
18	---	---	---	11.0	9.9	10.5	---	---	---	---	---	---
19	---	---	---	12.1	10.6	11.3	---	---	---	---	---	---
20	---	---	---	12.2	11.0	11.5	---	---	---	---	---	---
21	---	---	---	12.1	11.0	11.5	---	---	---	---	---	---
22	---	---	---	12.4	11.3	11.9	---	---	---	---	---	---
23	---	---	---	13.7	11.7	12.7	---	---	---	---	---	---
24	11.7	9.4	10.4	15.4	13.7	14.8	---	---	---	---	---	---
25	12.2	9.8	10.9	15.1	14.1	14.7	---	---	---	---	---	---
26	12.7	10.7	11.5	14.6	13.3	14.1	---	---	---	---	---	---
27	12.2	11.0	11.5	14.4	13.2	13.8	---	---	---	---	---	---
28	11.4	10.5	11.0	15.0	13.6	14.4	---	---	---	---	---	---
29	12.1	10.6	11.1	15.4	13.9	14.8	---	---	---	---	---	---
30	11.5	10.5	10.9	14.6	13.0	13.9	---	---	---	---	---	---
31	12.1	10.7	11.4	---	---	---	---	---	---	---	---	---
MONTH	13.3	8.6	10.7	15.4	9.9	12.3	16.7	12.8	14.4	---	---	---

06889000 KANSAS RIVER AT TOPEKA, 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	---	---	---	12.1	11.3	11.8	12.7	11.4	12.1	10.4	9.8	10.2
2	---	---	---	12.5	12.1	12.3	12.0	11.2	11.6	10.6	9.8	10.2
3	---	---	---	12.5	12.2	12.4	12.3	11.2	11.7	12.3	10.2	11.1
4	---	---	---	12.4	9.9	12.0	12.6	11.4	11.9	12.7	9.8	11.2
5	---	---	---	10.3	8.3	9.5	12.8	11.4	12.0	13.2	9.3	11.0
6	---	---	---	11.1	10.1	10.9	13.4	11.4	12.1	12.1	8.2	10.0
7	---	---	---	11.1	10.5	10.8	12.4	10.7	11.4	11.4	7.8	9.4
8	---	---	---	11.4	11.1	11.3	13.3	10.8	11.8	11.0	7.5	9.1
9	---	---	---	11.6	11.2	11.4	---	---	---	10.9	7.3	8.9
10	---	---	---	12.1	11.6	11.9	---	---	---	10.5	7.6	8.8
11	---	---	---	12.3	12.0	12.2	---	---	---	12.7	8.2	10.2
12	---	---	---	12.4	12.0	12.3	---	---	---	11.5	8.0	9.4
13	---	---	---	12.1	11.8	12.0	---	---	---	11.0	8.1	9.5
14	---	---	---	11.9	11.3	11.7	---	---	---	13.7	11.0	12.2
15	---	---	---	11.8	11.2	11.4	---	---	---	15.4	10.6	12.8
16	---	---	---	11.8	10.6	11.2	---	---	---	14.6	10.3	12.3
17	---	---	---	12.0	10.6	11.2	13.1	7.7	9.9	13.3	9.4	11.2
18	---	---	---	13.2	11.1	11.9	11.0	7.6	9.3	---	---	---
19	---	---	---	13.2	11.0	12.0	14.5	8.5	11.2	---	---	---
20	---	---	---	13.4	10.8	11.9	12.6	8.1	10.2	---	---	---
21	---	---	---	15.2	11.4	13.2	15.3	9.0	11.8	---	---	---
22	---	---	---	14.3	12.0	13.1	13.5	9.5	11.4	---	---	---
23	---	---	---	14.7	11.2	12.8	13.5	11.1	12.2	---	---	---
24	---	---	---	12.8	10.4	11.4	---	---	---	---	---	---
25	---	---	---	12.1	10.2	10.9	---	---	---	---	---	---
26	12.9	11.6	12.4	12.7	9.8	10.9	---	---	---	---	---	---
27	12.2	11.2	11.8	11.5	9.1	10.2	---	---	---	---	---	---
28	12.1	11.2	11.6	11.5	9.4	10.1	---	---	---	---	---	---
29	11.8	11.2	11.5	14.2	9.5	10.6	---	---	---	9.6	7.8	8.6
30	---	---	---	12.3	10.8	11.8	10.7	9.0	9.8	9.6	7.5	8.6
31	---	---	---	13.8	12.1	12.8	---	---	---	9.0	8.1	8.5
MONTH	12.9	11.2	11.8	15.2	8.3	11.6	15.3	7.6	11.3	15.4	7.3	10.2

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.7	8.0	8.4	7.9	7.6	7.7	9.3	8.2	8.7	13.8	8.9	10.9
2	9.1	8.1	8.6	8.0	7.3	7.6	10.6	8.1	9.1	13.1	8.6	10.5
3	9.4	8.1	8.7	7.5	6.6	7.2	12.4	7.9	9.7	14.0	7.2	10.3
4	9.7	8.2	8.8	6.9	6.7	6.8	10.4	7.0	8.7	14.1	7.2	10
5	9.1	8.0	8.5	---	---	---	11.5	8.2	9.6	12.3	6.8	8.9
6	8.6	7.8	8.3	---	---	---	9.9	8.0	8.9	13.3	6.5	9.6
7	8.1	7.7	7.9	---	---	---	10.3	8.4	9.3	12.5	7.2	9.3
8	8.2	7.8	8.0	7.5	7.0	7.3	11.3	8.3	9.4	12.9	7.0	9.5
9	8.2	7.9	8.1	7.5	7.2	7.4	12.9	8.2	10.1	12.6	7.6	9.8
10	8.4	8.1	8.3	7.2	7.0	7.1	12.9	7.7	9.9	11.7	7.4	9.4
11	8.3	7.6	8.1	7.3	6.8	7.1	13.0	8.3	10.4	12.3	7.3	9.5
12	8.3	7.7	8.0	7.1	6.8	7.0	12.8	9.1	10.7	12.9	7.4	9.8
13	8.8	7.9	8.4	6.8	6.6	6.7	12.9	9.2	10.8	13.7	7.4	10
14	8.5	7.5	8.1	7.0	6.6	6.9	13.0	9.2	10.9	13.4	7.6	9.9
15	8.8	7.2	8.1	7.2	6.8	7.0	12.9	9.0	10.8	12.1	7.4	9.2
16	7.2	5.0	5.8	7.2	6.8	7.1	13.0	9.4	10.9	12.0	8.0	9.6
17	6.8	5.5	6.5	7.4	7.0	7.3	12.7	9.0	10.7	9.7	7.0	8.3
18	7.2	6.3	6.9	7.8	7.3	7.6	---	---	---	10.7	7.5	8.7
19	7.8	6.5	7.3	8.2	7.4	7.8	9.0	6.7	8.0	10.4	7.2	8.4
20	7.8	7.4	7.6	8.3	7.3	7.8	14.8	8.4	11.1	11.5	6.6	8.5
21	7.5	7.3	7.4	8.5	7.2	7.8	13.5	8.6	10.8	---	---	---
22	8.0	7.3	7.6	9.0	7.4	8.2	13.1	8.7	10.8	---	---	---
23	8.1	7.4	7.7	9.1	7.6	8.3	11.2	8.5	9.6	---	---	---
24	7.8	7.4	7.6	9.0	7.8	8.4	9.2	7.3	8.1	---	---	---
25	---	---	---	8.6	7.6	8.1	8.2	7.5	8.0	---	---	---
26	---	---	---	8.6	7.7	8.1	9.0	8.1	8.6	---	---	---
27	---	---	---	8.1	7.8	8.0	11.3	8.8	9.8	---	---	---
28	8.2	7.5	7.9	8.6	8.0	8.3	11.2	8.9	9.8	---	---	---
29	8.2	8.0	8.1	8.7	8.4	8.6	13.9	9.6	11.4	14.4	9.2	11.4
30	8.5	7.6	8.1	8.7	8.2	8.5	15.6	9.4	11.9	15.2	9.6	12.0
31	---	---	---	8.8	8.3	8.5	13.9	8.9	10.9	---	---	---
MONTH	9.7	5.0	7.9	9.1	6.6	7.7	15.6	6.7	9.9	15.2	6.5	9.7

06889000 KANSAS RIVER AT TOPEKA, 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	120	100	110	47	39	44	54	18	28	---	---	---
2	120	88	99	46	40	43	41	23	29	---	---	---
3	92	76	86	50	41	44	62	23	35	---	---	---
4	80	70	75	54	42	45	27	20	23	---	---	---
5	72	65	69	49	40	44	27	18	22	---	---	---
6	89	64	70	53	39	43	18	12	15	---	---	---
7	78	57	65	49	39	42	14	9.3	11	---	---	---
8	84	58	65	43	39	41	22	9.3	14	---	---	---
9	86	55	66	43	39	41	60	11	25	---	---	---
10	96	59	74	43	39	42	22	---	---	---	---	---
11	74	58	65	46	41	43	---	---	---	---	---	---
12	64	50	57	53	42	46	---	---	---	---	---	---
13	66	50	56	53	43	47	---	---	---	---	---	---
14	77	59	68	56	40	44	---	---	---	---	---	---
15	100	74	90	92	42	52	---	---	---	---	---	---
16	130	100	110	46	38	42	---	---	---	---	---	---
17	150	120	130	51	41	46	---	---	---	---	---	---
18	120	93	110	55	46	50	---	---	---	---	---	---
19	96	77	86	53	43	48	---	---	---	---	---	---
20	86	73	78	50	42	46	---	---	---	---	---	---
21	76	63	71	54	35	43	---	---	---	---	---	---
22	76	62	67	35	21	27	---	---	---	---	---	---
23	80	61	67	26	22	23	---	---	---	---	---	---
24	72	58	63	43	22	27	---	---	---	---	---	---
25	65	54	59	35	24	29	---	---	---	---	---	---
26	59	49	53	38	23	28	---	---	---	---	---	---
27	67	47	53	30	20	23	---	---	---	---	---	---
28	61	46	51	39	18	24	---	---	---	---	---	---
29	59	47	52	21	16	17	---	---	---	---	---	---
30	69	45	51	22	16	17	---	---	---	---	---	---
31	89	42	50	---	---	---	---	---	---	---	---	---
MONTH	150	42	73	92	16	38	62	9.3	22	---	---	---

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	170	96	120	370	220	290	520	120	310
2	---	---	---	200	120	160	380	240	310	380	140	220
3	---	---	---	160	90	120	290	180	220	150	90	110
4	---	---	---	>1,200	81	>350	200	140	160	160	73	94
5	---	---	---	>1,200	>1,200	>1,200	190	120	140	78	42	60
6	---	---	---	>1,200	990	>1,200	200	120	140	45	26	36
7	---	---	---	>1,200	870	>1,100	240	110	150	35	24	28
8	---	---	---	940	760	840	180	110	130	29	18	25
9	---	---	---	>1,200	660	>980	200	98	140	39	19	24
10	---	---	---	690	400	520	180	89	110	88	20	44
11	---	---	---	---	---	---	93	84	88	130	43	81
12	---	---	---	---	---	---	220	85	120	120	48	61
13	---	---	---	---	---	---	180	89	110	120	49	76
14	---	---	---	---	---	---	180	81	120	150	67	120
15	---	---	---	---	---	---	130	71	83	120	100	110
16	---	---	---	---	---	---	120	55	71	140	120	130
17	---	---	---	280	180	200	57	48	53	160	130	140
18	---	---	---	210	130	170	54	44	49	430	120	200
19	---	---	---	160	88	130	89	47	59	680	270	460
20	---	---	---	160	82	100	86	50	63	290	---	---
21	---	---	---	91	80	87	69	52	58	---	110	---
22	---	---	---	150	81	100	81	64	70	190	130	170
23	---	---	---	---	---	---	97	67	77	170	150	160
24	---	---	---	---	---	---	140	67	83	180	150	170
25	---	---	---	---	---	---	93	66	74	190	160	170
26	53	39	44	---	---	---	140	93	120	240	160	210
27	40	31	35	---	35	---	140	120	130	210	150	190
28	36	27	30	---	---	---	130	120	120	170	130	150
29	130	28	64	---	400	---	130	120	120	150	110	130
30	---	---	---	420	160	270	310	120	140	130	110	120
31	---	---	---	260	130	190	---	---	---	370	110	220
MONTH	130	27	43	1,200	35	440	380	44	120	680	18	140

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	370	210	280	380	240	310	130	92	110	39	24	30
2	210	140	170	>1,500	230	---	160	81	99	36	20	26
3	150	110	130	---	---	---	87	71	79	26	19	22
4	120	100	110	---	---	---	78	69	73	27	20	24
5	120	100	110	---	---	---	85	71	77	---	---	---
6	400	110	190	---	---	---	89	73	82	---	---	---
7	490	360	420	---	710	---	100	68	88	---	---	---
8	390	310	350	750	250	470	230	50	63	---	---	---
9	460	330	420	660	240	450	400	55	89	47	33	39
10	430	330	380	930	320	620	60	47	55	78	33	46
11	360	260	290	340	220	270	57	40	47	48	31	39
12	270	220	240	310	250	280	45	31	39	44	31	37
13	260	210	240	360	290	330	43	25	33	83	35	52
14	310	190	230	440	310	360	33	25	28	82	45	55
15	1,340	150	210	590	430	520	34	25	30	65	42	54
16	>1,500	1,000	>1,400	520	380	470	39	30	34	77	53	63
17	>1,500	1,120	>1,400	410	290	370	38	28	34	81	59	67
18	>1,500	600	>1,000	310	180	240	42	29	37	68	54	62
19	>1,500	260	>810	220	140	170	42	23	31	68	51	60
20	440	260	350	140	100	130	---	52	---	80	54	67
21	380	170	290	100	73	91	---	64	---	80	55	68
22	170	140	150	80	67	75	87	67	80	78	54	66
23	150	130	140	71	54	63	630	65	100	90	40	59
24	150	130	140	1,080	54	380	>1,100	120	>830	73	37	50
25	>1,500	120	>770	1,090	430	930	>1,100	790	>1,000	58	48	53
26	>1,500	1,270	>1,500	1,010	410	690	>1,100	220	>440	---	52	---
27	>1,500	140	>960	650	320	490	200	110	140	---	---	---
28	>1,500	450	>950	350	280	310	590	140	240	---	34	---
29	450	230	290	300	240	280	140	62	92	43	28	35
30	340	160	200	290	180	240	88	54	66	35	27	31
31	---	---	---	190	130	160	59	37	49	---	---	---
MONTH	1,500	100	470	1,500	54	350	1,100	23	140	90	19	48

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

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	220	140	180	---	---	---
2	---	---	---	---	---	---	230	160	190	---	---	---
3	---	---	---	---	---	---	170	120	150	---	---	---
4	---	---	---	---	---	---	120	90	110	---	---	---
5	---	---	---	---	---	---	120	82	96	---	---	---
6	---	---	---	---	---	---	130	79	95	---	---	---
7	---	---	---	---	---	---	150	79	100	---	---	---
8	---	---	---	---	---	---	120	78	90	---	---	---
9	---	---	---	---	---	---	160	71	98	---	---	---
10	---	---	---	---	---	---	130	64	78	---	---	---
11	---	---	---	---	---	---	67	61	63	---	---	---
12	---	---	---	---	---	---	140	62	82	---	---	---
13	---	---	---	---	---	---	110	64	77	---	---	---
14	---	---	---	---	---	---	110	56	79	---	---	---
15	---	---	---	---	---	---	78	49	57	---	---	---
16	---	---	---	---	120	---	---	45	---	---	---	---
17	---	---	---	190	120	130	---	---	---	---	---	---
18	---	---	---	140	87	110	---	---	---	---	---	---
19	---	---	---	110	61	85	---	---	---	---	---	---
20	---	---	---	110	56	69	---	---	---	---	---	---
21	---	---	---	60	55	57	---	---	---	---	---	---
22	---	---	---	98	54	67	---	---	---	---	---	---
23	---	---	---	97	54	67	---	---	---	---	---	---
24	---	---	---	89	52	59	---	---	---	---	---	---
25	---	---	---	88	48	63	---	---	---	---	---	---
26	---	---	---	85	47	60	---	---	---	---	---	---
27	---	---	---	120	46	51	---	---	---	---	---	---
28	---	---	---	630	67	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	630	46	74	230	45	100	---	---	---

06889000 KANSAS RIVER AT TOPEKA, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	250	170	210	---	83	---	---	---	---
2	---	---	---	---	---	---	130	74	88	---	---	---
3	---	---	---	---	---	---	79	68	73	---	---	---
4	---	---	---	---	---	---	74	66	69	30	22	26
5	---	---	---	---	---	---	76	65	70	24	22	23
6	---	---	---	---	---	---	79	67	74	---	---	---
7	---	---	---	---	---	---	88	65	81	---	---	---
8	---	---	---	470	180	310	110	46	56	---	---	---
9	---	---	---	420	170	310	200	50	77	37	28	32
10	---	---	---	590	230	420	57	46	51	59	29	37
11	---	---	---	230	160	190	50	37	42	35	28	32
12	---	---	---	240	190	210	39	32	35	34	28	31
13	---	---	---	260	210	240	38	26	31	66	30	42
14	---	---	---	330	240	270	29	24	26	64	38	45
15	---	---	---	420	310	390	31	26	29	49	40	45
16	>1,500	---	---	420	280	350	34	30	32	57	44	50
17	>1,500	710	>950	350	280	310	35	29	33	61	48	53
18	1,030	400	630	330	150	210	33	22	27	53	44	49
19	>1,500	180	>570	190	120	140	40	24	31	52	43	48
20	380	180	250	---	94	---	57	40	47	63	45	54
21	250	130	190	96	72	83	82	48	67	56	46	51
22	130	100	110	73	63	69	78	63	72	58	42	50
23	100	94	99	66	53	60	---	---	---	53	41	46
24	110	94	100	1,150	52	310	---	---	---	---	---	---
25	620	38	210	1,140	330	800	---	---	---	---	---	---
26	670	38	240	690	300	490	500	160	310	---	---	---
27	690	42	200	480	240	350	160	90	120	---	---	---
28	940	290	580	250	210	230	320	120	170	---	---	---
29	290	160	190	260	200	230	130	64	93	27	20	23
30	230	110	140	230	140	200	63	45	54	25	20	22
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1,500	38	320	1,150	52	280	500	22	71	66	20	40

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

06889170 SOLDIER CREEK NEAR HOLTON, KS

LOCATION.--Lat 39°26'03", long 95°56'32", in NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.23, T.7 S., R.13 E., Jackson County, Hydrologic Unit 10270102, on right bank at downstream side of bridge on County Road 214, 10.5 mi west and 2 mi south of Holton, and at mile 50.9.

DRAINAGE AREA.--60.8 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 1,055.00 ft above NGVD of 1929, from topographic map.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 4	1900	*1,840	*10.48	Jun 15	0500	1,820	10.44

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	0.21	e0.35	e0.89	e1.5	e1.0	e40	9.6	45	6.7	6.7	e3.4	e0.74
2	0.22	e0.36	e1.3	e1.5	e1.2	21	8.1	20	5.9	12	e3.0	e0.60
3	0.22	e0.36	e3.4	e1.5	e1.4	7.7	6.7	13	5.4	139	e2.7	e0.47
4	0.25	e0.36	e2.8	e1.5	e1.7	608	6.4	11	5.4	35	e2.1	e0.43
5	0.23	e0.37	e2.2	e1.2	e1.8	623	5.6	9.9	6.3	119	e2.1	e0.50
6	0.25	e0.36	e1.6	e0.92	e1.9	121	5.0	8.7	6.7	125	e1.7	e0.73
7	0.24	e0.36	e1.3	e0.74	e2.0	40	3.6	7.4	6.0	60	e1.4	e0.70
8	1.5	e0.36	e1.3	e0.74	e2.1	23	4.1	6.5	5.2	22	e1.4	e0.69
9	0.94	e0.36	e1.4	e0.87	e2.1	15	3.8	6.0	5.0	45	e1.4	e0.65
10	0.56	e0.36	e1.4	e1.1	e2.1	12	3.6	10	6.1	23	e1.4	e0.57
11	0.48	e0.36	e2.8	e1.4	e2.1	9.8	3.7	9.2	5.6	14	e1.3	e0.43
12	e0.38	e0.35	e2.6	e1.5	e2.0	9.1	3.8	8.2	20	169	e0.98	e0.41
13	e0.36	e0.36	e2.4	e1.6	e2.0	9.6	3.8	11	127	31	e0.67	e0.37
14	e0.32	e0.40	e3.4	e1.6	e1.9	11	3.8	13	27	13	e0.67	e0.33
15	e0.31	e0.38	e2.8	e1.7	e1.9	10	3.6	12	485	7.2	e0.67	e0.29
16	e0.31	e0.37	e2.6	e1.7	e1.8	9.0	3.6	10	82	6.0	e0.94	e0.25
17	e0.31	e0.40	e2.2	e1.8	e1.8	7.9	3.5	8.1	37	3.9	e0.92	e0.23
18	e0.35	e0.40	e1.6	e1.6	e1.8	6.7	3.4	186	113	2.9	e1.0	e0.21
19	e0.35	e0.44	e1.4	e1.6	e35	6.4	3.5	61	64	2.6	e1.3	e0.21
20	e0.34	e0.42	e1.4	e1.6	e324	5.7	3.8	25	25	2.0	e1.2	e0.20
21	e0.34	e0.41	e1.4	e1.6	275	6.1	3.8	16	18	1.7	e1.1	e0.19
22	e0.37	e0.58	e1.4	e1.6	69	7.0	4.8	13	13	2.1	e0.97	e0.18
23	e0.37	e0.58	e1.4	e1.6	14	8.4	5.4	11	11	2.0	e1.1	e0.17
24	e0.35	e0.58	e1.3	e1.6	6.9	8.1	7.1	9.9	8.8	5.9	e3.2	e0.16
25	e0.36	e0.61	e1.3	e1.8	3.8	8.6	8.9	9.2	7.6	8.7	e1.9	e0.16
26	e0.37	e0.64	e1.3	e2.0	3.7	9.0	7.0	8.8	6.7	6.3	e1.2	e0.15
27	e0.34	e0.68	e1.5	e1.7	3.9	72	5.8	8.8	10	3.7	e1.1	e0.15
28	e0.35	e0.71	e2.0	e1.5	3.8	421	5.2	7.7	11	e5.1	e1.0	e0.15
29	e0.35	e0.75	e1.8	e1.2	16	82	4.4	7.0	8.3	e5.0	e0.95	e0.14
30	e0.35	e0.82	e1.6	e1.1	---	25	83	10	7.2	e4.4	e0.90	e0.14
31	e0.33	---	e1.6	e1.0	---	15	---	7.6	---	e3.9	e0.84	---
MEAN	0.39	0.46	1.85	1.43	27.2	72.8	7.61	19.0	38.2	28.6	1.44	0.35
MAX	1.5	0.82	3.4	2.0	324	623	83	186	485	169	3.4	0.74
MIN	0.21	0.35	0.89	0.74	1.0	5.7	3.4	6.0	5.0	1.7	0.67	0.14
AC-FT	24	27	114	88	1,560	4,480	453	1,170	2,270	1,760	88	21

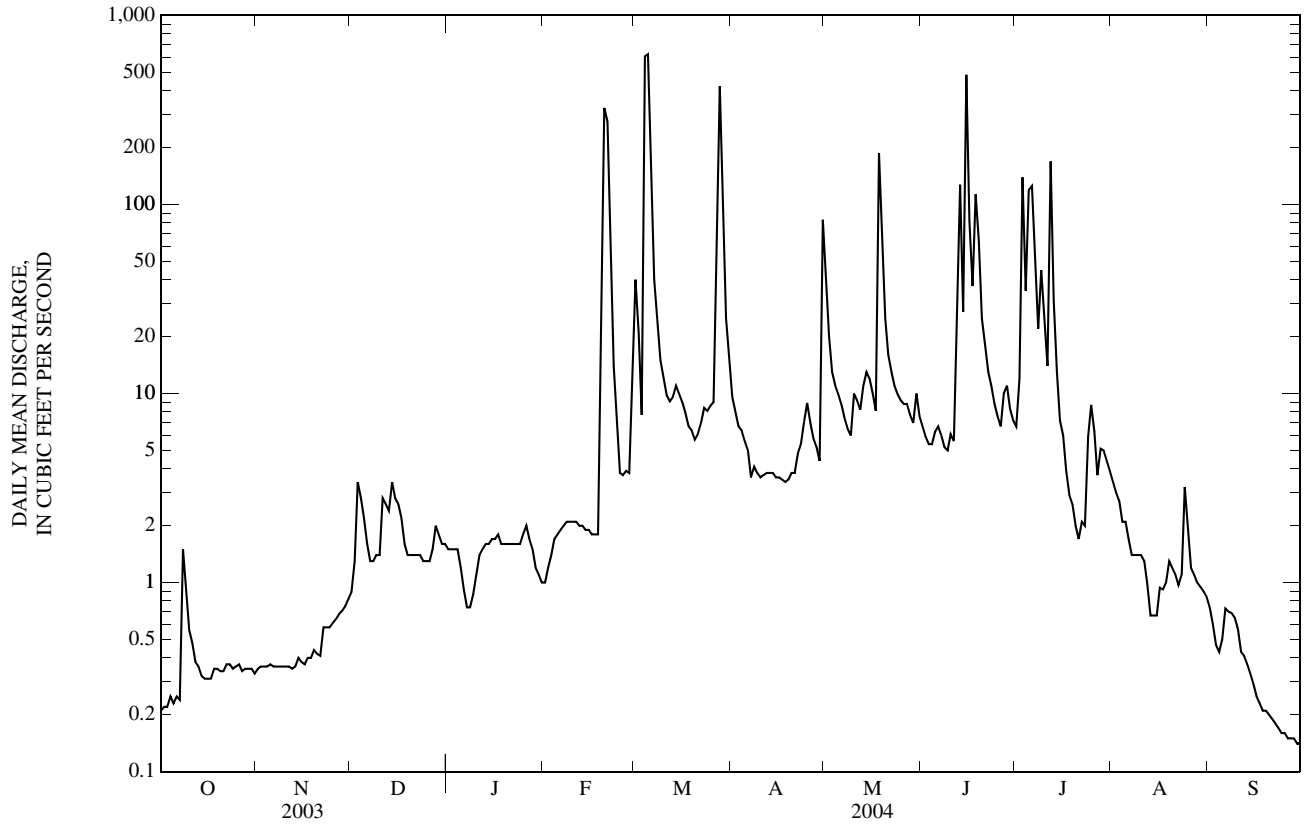
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	6.25	3.55	3.71	2.77	11.5	26.9	31.7	44.1	58.4	21.1	11.3	92.2
MAX	14.7	6.64	5.97	4.43	27.2	72.8	70.4	135	182	49.6	40.6	368
(WY)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(2001)	(2002)	(2001)	(2001)	(2001)	(2001)
MIN	0.39	0.46	1.85	1.43	2.09	3.55	7.61	8.26	3.86	0.46	1.42	0.08
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)

06889170 SOLDIER CREEK NEAR HOLTON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL MEAN	4.98		16.6		13.2	
HIGHEST ANNUAL MEAN					17.5	2002
LOWEST ANNUAL MEAN					5.64	2003
HIGHEST DAILY MEAN	279	Apr 24	623	Mar 5	6,400	Sep 17, 2001
LOWEST DAILY MEAN	0.01	Sep 9	0.14	Sep 29	0.01	Sep 9, 2003
ANNUAL SEVEN-DAY MINIMUM	0.02	Sep 4	0.15	Sep 24	0.02	Sep 4, 2003
MAXIMUM PEAK FLOW			1,840	Mar 4	20,700	Sep 17, 2001
MAXIMUM PEAK STAGE			10.48	Mar 4	21.85	Sep 17, 2001
INSTANTANEOUS LOW FLOW			0.10	Oct 1	0.00	Aug 24, 2003
ANNUAL RUNOFF (AC-FT)	3,610		12,060		9,590	
10 PERCENT EXCEEDS	4.7		22		15	
50 PERCENT EXCEEDS	1.4		2.0		3.1	
90 PERCENT EXCEEDS	0.08		0.35		0.35	

e Estimated



06889200 SOLDIER CREEK NEAR DELIA, KS

LOCATION.--Lat 39°14'18", long 95°53'18", in SE ¼ SE ¼ NE ¼ sec.30, T.9 S., R.14 E., Jackson County, Hydrologic Unit 10270102, on right bank at upstream side of bridge, 0.56 mi downstream of Dutch Creek, 5.0 mi east of Delia, and at mile 26.4.

DRAINAGE AREA.--149 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 945.00 ft above NGVD of 1929, from topographic map. Gage datum lowered 2.0 ft on Oct. 1, 1993. Gage datum lowered 5.0 ft on Oct. 1, 1999. Prior to Nov. 2, 2002, recording gage at site 4.5 mi downstream at different datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, about 24 ft, June 21, 1951, from floodmarks and information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0400	*3,150	*22.85	No other 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	0.11	0.64	1.5	1.8	1.3	54	45	211	21	19	11	3.6
2	0.03	0.74	1.7	1.8	1.9	49	38	74	19	21	9.9	3.3
3	0.06	0.82	3.5	1.8	1.8	25	34	49	17	118	9.0	3.0
4	0.08	1.0	4.6	1.8	1.9	732	30	42	16	75	7.9	2.6
5	0.03	1.1	3.2	1.5	2.1	e1,880	29	38	19	224	7.2	2.7
6	0.06	1.2	2.4	1.1	2.2	247	27	35	26	160	6.6	3.1
7	0.09	1.4	2.1	0.90	2.3	99	26	31	21	115	6.2	4.1
8	0.07	1.4	1.8	0.91	2.3	54	25	28	17	50	5.8	3.0
9	0.08	1.4	2.1	1.1	2.3	41	23	26	16	187	5.9	2.3
10	2.7	1.3	2.6	1.5	2.3	34	22	32	26	78	5.5	2.1
11	1.8	1.4	3.8	1.7	2.4	30	21	35	28	42	5.0	1.9
12	0.48	1.4	3.3	1.8	2.4	26	20	29	19	67	4.7	1.7
13	0.50	1.5	3.2	1.9	2.2	26	20	57	287	79	4.7	1.6
14	0.54	1.9	4.4	1.9	2.1	31	19	63	67	37	4.6	1.5
15	0.30	1.9	3.8	1.8	2.1	29	18	43	380	29	4.1	1.8
16	0.25	1.9	3.4	2.1	2.0	29	17	35	147	43	4.1	1.5
17	0.28	2.6	3.0	2.8	2.1	26	17	31	63	28	4.0	1.4
18	0.32	2.0	2.9	2.7	3.6	24	16	628	85	22	3.8	1.5
19	0.25	2.0	2.7	2.0	62	22	16	232	96	20	4.6	1.4
20	0.56	2.0	2.5	1.8	401	21	17	79	47	19	3.9	1.3
21	1.1	2.2	2.5	1.8	261	18	18	51	42	16	3.7	1.1
22	0.77	1.8	2.5	1.9	85	18	17	42	34	18	3.2	0.97
23	1.3	1.9	2.3	1.7	36	18	20	38	27	18	6.8	0.82
24	0.64	2.2	2.2	1.9	23	18	19	34	23	32	188	0.67
25	0.49	2.0	2.1	2.5	17	18	24	32	21	33	34	0.72
26	0.30	1.9	2.1	2.8	13	19	19	31	19	23	16	0.72
27	0.23	1.7	2.3	2.3	11	371	16	30	34	20	8.9	0.70
28	0.37	1.7	2.3	2.1	9.4	1,020	15	27	38	16	6.3	0.68
29	0.40	1.7	2.0	1.6	10	176	13	24	25	15	4.9	0.58
30	0.50	1.7	1.9	1.3	---	83	528	27	20	14	4.5	0.50
31	0.60	---	1.8	1.2	---	56	---	29	---	13	4.0	---
MEAN	0.49	1.61	2.66	1.80	33.4	171	39.0	69.8	56.7	53.3	12.9	1.76
MAX	2.7	2.6	4.6	2.8	401	1,880	528	628	380	224	188	4.1
MIN	0.03	0.64	1.5	0.90	1.3	18	13	24	16	13	3.2	0.50
AC-FT	30	96	164	111	1,920	10,500	2,320	4,290	3,370	3,270	791	105

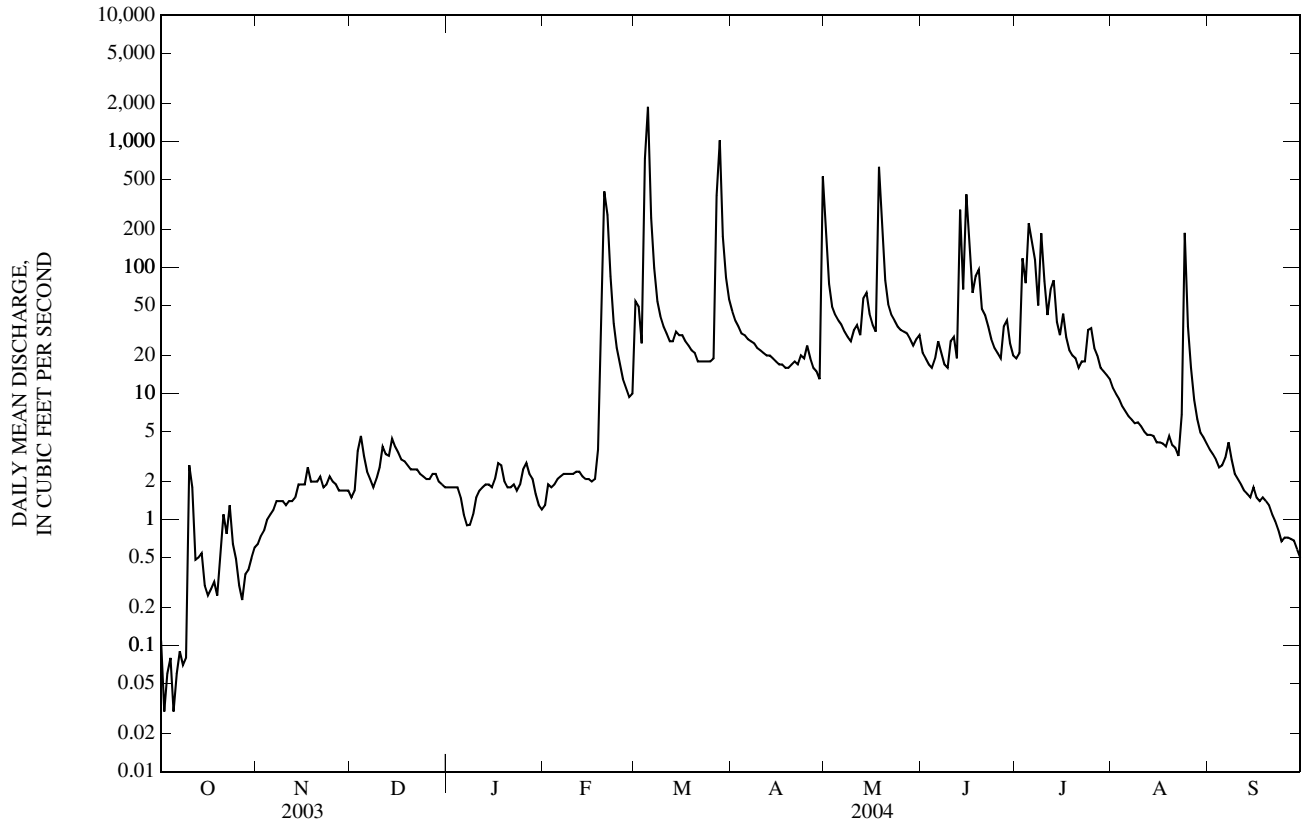
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	71.6	64.2	43.0	36.0	68.3	130	146	176	188	84.4	44.4	91.7
MAX	484	605	293	236	316	651	800	1,056	1,051	1,139	540	670
(WY)	(1974)	(1999)	(1973)	(1973)	(1973)	(1973)	(1999)	(1995)	(1967)	(1993)	(1968)	(1977)
MIN	0.01	1.61	1.86	1.22	2.23	2.67	3.62	2.82	4.50	2.35	0.37	0.15
(WY)	(1992)	(2004)	(1977)	(1977)	(1989)	(1967)	(1989)	(1989)	(1989)	(2003)	(2003)	(2000)

06889200 SOLDIER CREEK NEAR DELIA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL MEAN	16.6		37.2		95.2	
HIGHEST ANNUAL MEAN					281	1973
LOWEST ANNUAL MEAN					19.2	2003
HIGHEST DAILY MEAN	751	Apr 24	1,880	Mar 5	14,800	Jun 9, 1982
LOWEST DAILY MEAN	0.00	Aug 23	0.03	Oct 2	0.00	Sep 10, 1976
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 23	0.06	Oct 2	0.00	Oct 1, 1991
MAXIMUM PEAK FLOW			3,150	Mar 5	29,400	Jun 9, 1982
MAXIMUM PEAK STAGE			22.85	Mar 5	26.44	Sep 18, 2001
INSTANTANEOUS LOW FLOW			0.00	Oct 5	0.00	Sep 10, 1976
ANNUAL RUNOFF (AC-FT)	12,000		26,970		68,970	
10 PERCENT EXCEEDS	24		58		147	
50 PERCENT EXCEEDS	5.0		4.7		20	
90 PERCENT EXCEEDS	0.08		0.81		2.6	

e Estimated



06889500 SOLDIER CREEK NEAR TOPEKA, KS

LOCATION.--Lat 39°05'58", long 95°43'29", in SW ¼ NW ¼ NW ¼ sec.14, T.11 S., R.15 E., Shawnee County, Hydrologic Unit 10270102, on right bank 150 ft downstream of county highway bridge, 1.5 mi upstream from Halfday Creek, 4.0 mi northwest of Topeka, and at mile 6.0.

DRAINAGE AREA.--290 mi^2.

PERIOD OF RECORD.--May 1929 to September 1932, August 1935 to current year. Prior to October 1935, published as "at Topeka." Records for October 1932 to July 1935, published in WSP 746, 761, and 786, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1440: 1929-30(M), 1941-42, 1948(P), 1950. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 862.95 ft above NGVD of 1929. Prior to July 27, 1935, chain gage at site 2.0 mi downstream at different datum. Aug. 1, 1935, to June 16, 1958, nonrecording gage and June 17, 1958, to May 24, 1960, water-stage recorder, at present site and datum 4.0 ft higher. May 25, 1960, to June 8, 1961, nonrecording gage at site 1.1 mi downstream at datum 1.79 ft lower.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0500	*4,770	*11.72	Mar 28	0600	3,020	8.92

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	0.91	1.3	2.0	3.3	2.6	50	84	733	31	26	20	13
2	0.90	1.4	2.4	3.3	3.2	100	70	193	24	26	18	12
3	0.89	1.4	6.3	3.5	2.8	58	60	97	20	347	16	11
4	0.89	1.5	4.1	4.0	2.5	936	53	68	18	239	14	10
5	0.89	1.5	4.3	3.3	3.2	3,490	50	57	19	436	13	10
6	0.89	1.5	5.6	2.7	3.3	512	46	49	28	1,310	12	12
7	0.90	1.5	5.3	2.7	3.6	185	44	42	32	477	11	11
8	0.92	1.6	5.0	2.5	3.8	100	47	36	24	185	11	9.9
9	0.98	1.6	6.9	2.1	3.5	72	42	30	20	463	13	9.4
10	0.99	1.7	6.9	2.0	3.2	57	38	70	27	288	13	9.1
11	1.1	1.9	4.5	2.0	3.0	47	38	53	38	109	11	8.7
12	1.1	1.9	4.8	2.0	2.8	42	34	42	62	69	10	8.0
13	1.1	1.8	5.0	1.9	3.0	38	32	107	596	151	9.6	7.1
14	1.1	2.0	4.6	1.9	3.0	41	31	213	217	70	9.1	6.5
15	1.3	2.2	4.6	2.4	2.5	47	29	117	315	46	8.8	7.4
16	1.6	2.1	4.4	3.0	2.3	45	28	63	446	96	8.7	7.0
17	1.7	2.4	4.6	3.9	2.2	42	27	49	169	82	8.7	6.0
18	1.7	2.5	4.3	3.9	2.5	39	26	1,000	168	41	8.1	5.9
19	1.8	2.5	4.3	4.0	24	35	25	850	231	31	8.5	5.8
20	1.8	2.6	4.0	3.9	433	33	27	251	111	28	9.1	5.3
21	1.7	2.5	3.9	3.5	334	29	30	121	97	24	9.1	5.0
22	1.7	2.2	4.0	3.4	176	26	32	83	74	22	9.2	4.7
23	1.7	2.0	3.8	3.1	70	26	32	64	43	23	51	4.5
24	1.6	2.0	3.6	3.7	42	27	38	53	33	232	1,460	4.2
25	1.6	1.9	3.5	5.2	30	26	37	51	28	176	412	4.0
26	1.5	2.0	3.5	4.7	24	27	38	49	24	61	89	3.9
27	1.5	2.0	3.6	e4.0	20	240	30	43	43	41	42	3.7
28	1.6	2.0	3.5	e3.5	18	2,080	25	38	87	32	80	3.6
29	1.5	2.0	3.1	3.3	19	426	23	33	49	26	28	3.2
30	1.3	2.1	3.0	2.8	---	167	411	32	33	24	20	3.1
31	1.3	---	3.5	e2.5	---	107	---	34	---	22	15	---
MEAN	1.31	1.92	4.29	3.16	42.9	295	50.9	152	104	168	79.0	7.17
MAX	1.8	2.6	6.9	5.2	433	3,490	411	1,000	596	1,310	1,460	13
MIN	0.89	1.3	2.0	1.9	2.2	26	23	30	18	22	8.1	3.1
AC-FT	80	114	264	194	2,470	18,150	3,030	9,360	6,160	10,320	4,860	426

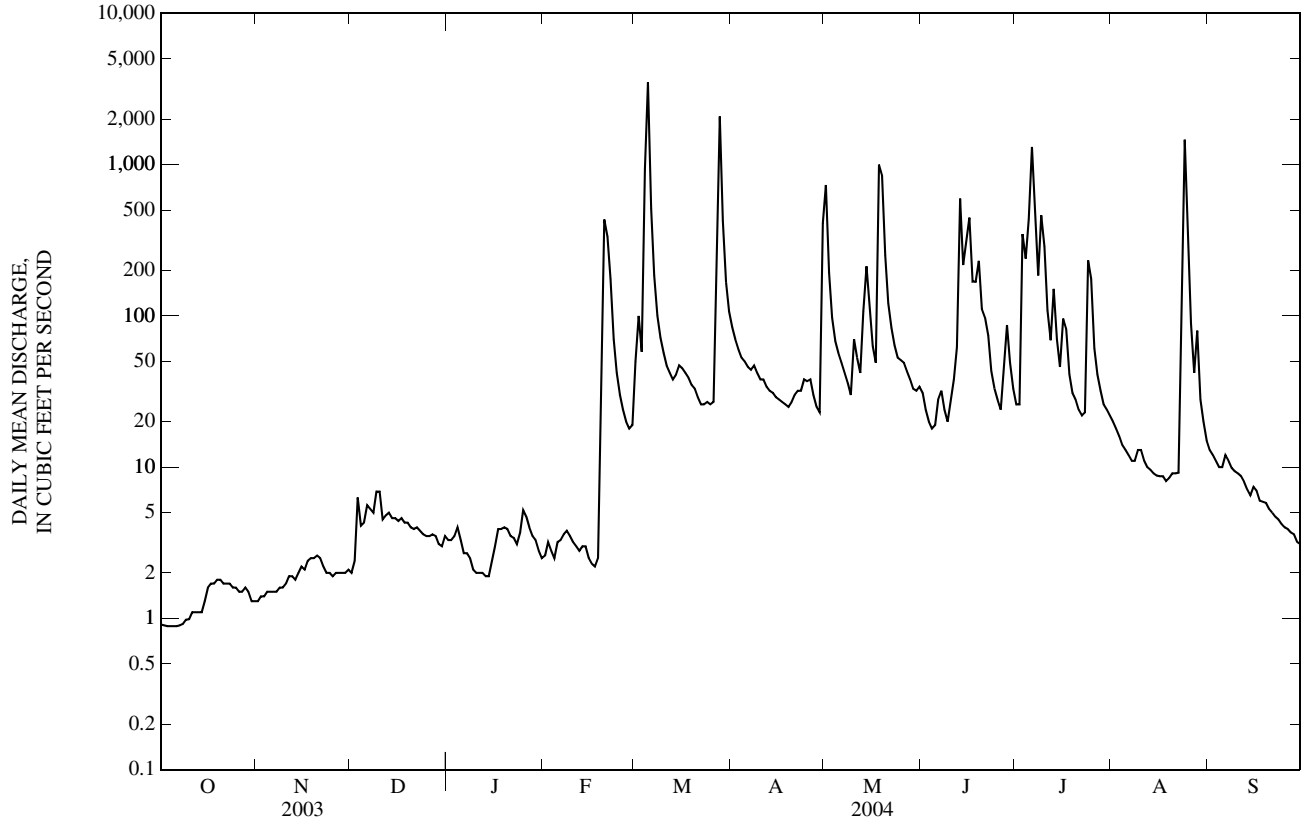
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2004, BY WATER YEAR (WY)

MEAN	117	85.3	64.8	54.2	101	191	230	274	324	189	85.4	140
MAX	1,178	1,175	475	359	382	1,269	1,464	1,838	2,183	2,711	1,130	1,288
(WY)	(1974)	(1999)	(1973)	(1974)	(1937)	(1987)	(1944)	(1995)	(1967)	(1993)	(1968)	(1977)
MIN	0.00	0.00	0.00	0.00	0.18	0.14	1.03	5.17	4.06	1.13	0.27	0.00
(WY)	(1938)	(1938)	(1957)	(1957)	(1957)	(1956)	(1956)	(1956)	(1953)	(1940)	(1957)	(1937)

06889500 SOLDIER CREEK NEAR TOPEKA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1936 - 2004	
ANNUAL MEAN	31.3		76.3		155	
HIGHEST ANNUAL MEAN					590	1993
LOWEST ANNUAL MEAN					5.07	1956
HIGHEST DAILY MEAN	1,310	Apr 20	3,490	Mar 5	17,200	Sep 13, 1977
LOWEST DAILY MEAN	0.38	Aug 27	0.89	Oct 3	0.00	Jul 24, 1936
ANNUAL SEVEN-DAY MINIMUM	0.48	Aug 22	0.90	Oct 1	0.00	Aug 17, 1936
MAXIMUM PEAK FLOW			4,770	Mar 5	30,400	Jun 9, 1982
MAXIMUM PEAK STAGE			11.72	Mar 5	27.44	Jun 9, 1982
INSTANTANEOUS LOW FLOW			0.86	Oct 3	.00	many years
ANNUAL RUNOFF (AC-FT)	22,680		55,420		112,000	
10 PERCENT EXCEEDS	42		167		238	
50 PERCENT EXCEEDS	9.4		12		29	
90 PERCENT EXCEEDS	0.90		1.7		2.0	

e Estimated



06890100 DELAWARE RIVER NEAR MUSCOTAH, KS

LOCATION.--Lat 39°31'17", long 95°31'57", in SW ¼ SW ¼ SW ¼ sec.16, T.6 S., R.17 E., Atchison County, Hydrologic Unit 10270103, on right bank at downstream side of county highway bridge, 2.0 mi south of Muscotah, and at mile 45.5.

DRAINAGE AREA.--431 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1964-67. July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 920.88 ft above NGVD of 1929 (Kansas Geological Survey bench mark).

REMARKS.--Records poor October to March and good April to September except those for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1925 reached a stage of 36.5 ft, from information by local residents (discharge not determined). Floods in 1951 and 1967 were lower than the flood of 1925.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 3	0700	*5,220	*14.47	No other 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	0.27	e0.11	e2.6	e1.5	e0.80	111	75	105	17	6.9	25	4.4
2	0.12	e0.14	e2.8	e1.5	e0.80	88	58	50	19	24	19	3.6
3	0.13	e0.24	e7.6	e1.5	e0.80	56	47	30	12	2,090	14	2.9
4	0.13	e0.27	e12	e1.3	e0.80	918	40	24	8.6	386	12	2.4
5	0.15	e0.37	e7.4	e1.2	e0.80	2,760	36	21	8.6	481	9.1	2.3
6	0.14	e0.33	e5.1	e1.0	e0.90	530	33	19	11	1,180	7.9	2.1
7	0.15	e0.30	e3.8	e0.90	e1.0	190	28	17	9.3	466	6.6	2.0
8	0.18	e0.30	e3.4	e0.90	e1.0	99	32	14	7.6	181	6.1	1.8
9	e0.15	e0.25	e2.9	e1.0	e1.0	64	29	16	5.9	123	5.4	1.9
10	e0.15	e0.25	e3.0	e1.0	e1.0	48	26	15	9.2	115	5.2	1.5
11	e0.15	e0.22	e3.0	e1.1	e1.0	38	24	15	12	71	4.6	1.1
12	e0.15	e0.20	e2.4	e1.2	e1.0	32	22	15	31	2,030	4.0	0.94
13	e0.25	e0.20	e2.2	e1.2	e1.0	27	22	17	770	455	3.8	0.86
14	e0.23	e0.20	e2.5	e1.1	e1.0	36	20	22	150	187	3.5	0.73
15	e0.21	e0.17	e3.0	e1.0	e1.0	35	20	22	1,420	88	3.2	1.2
16	e0.20	e0.15	e3.0	e1.0	e1.0	32	19	17	586	79	2.8	1.1
17	e0.20	e0.30	e3.0	e1.0	e1.0	28	18	14	203	58	2.6	0.77
18	e0.20	e0.25	e3.0	e0.90	e1.0	25	17	43	197	42	2.1	0.63
19	e0.20	e0.22	e3.1	e0.90	e50	22	17	329	210	41	1.6	0.52
20	e0.20	e1.0	e3.0	e0.90	681	20	16	121	83	38	1.4	0.61
21	e0.20	e2.0	e2.9	e1.0	545	16	19	52	47	30	1.2	0.42
22	e0.20	e2.0	e2.9	e1.1	283	14	19	31	33	27	1.1	0.30
23	e0.20	e2.0	e2.7	e1.5	110	13	19	22	27	28	2.7	0.27
24	e0.15	e2.1	e2.1	e1.5	68	14	20	21	18	37	20	0.24
25	e0.11	e2.0	e1.9	e1.5	47	15	26	32	16	67	53	0.19
26	e0.10	e2.4	e2.0	e1.5	32	15	24	18	16	43	115	0.16
27	e0.11	e2.2	e2.0	e1.0	33	75	17	67	17	28	28	0.16
28	e0.10	e2.4	e2.0	e0.90	28	1,630	14	107	18	21	48	0.13
29	e0.12	e2.3	e2.0	e0.90	29	396	13	34	13	18	14	0.13
30	e0.14	e2.2	e1.9	e0.70	---	176	53	23	8.8	65	8.5	0.13
31	e0.12	---	e1.7	e0.80	---	106	---	20	---	35	5.6	---
MEAN	0.16	0.90	3.32	1.11	66.3	246	27.4	43.6	133	276	14.1	1.18
MAX	0.27	2.4	12	1.5	681	2,760	75	329	1,420	2,090	115	4.4
MIN	0.10	0.11	1.7	0.70	0.80	13	13	14	5.9	6.9	1.1	0.13
AC-FT	10	54	204	68	3,810	15,130	1,630	2,680	7,900	16,940	867	70

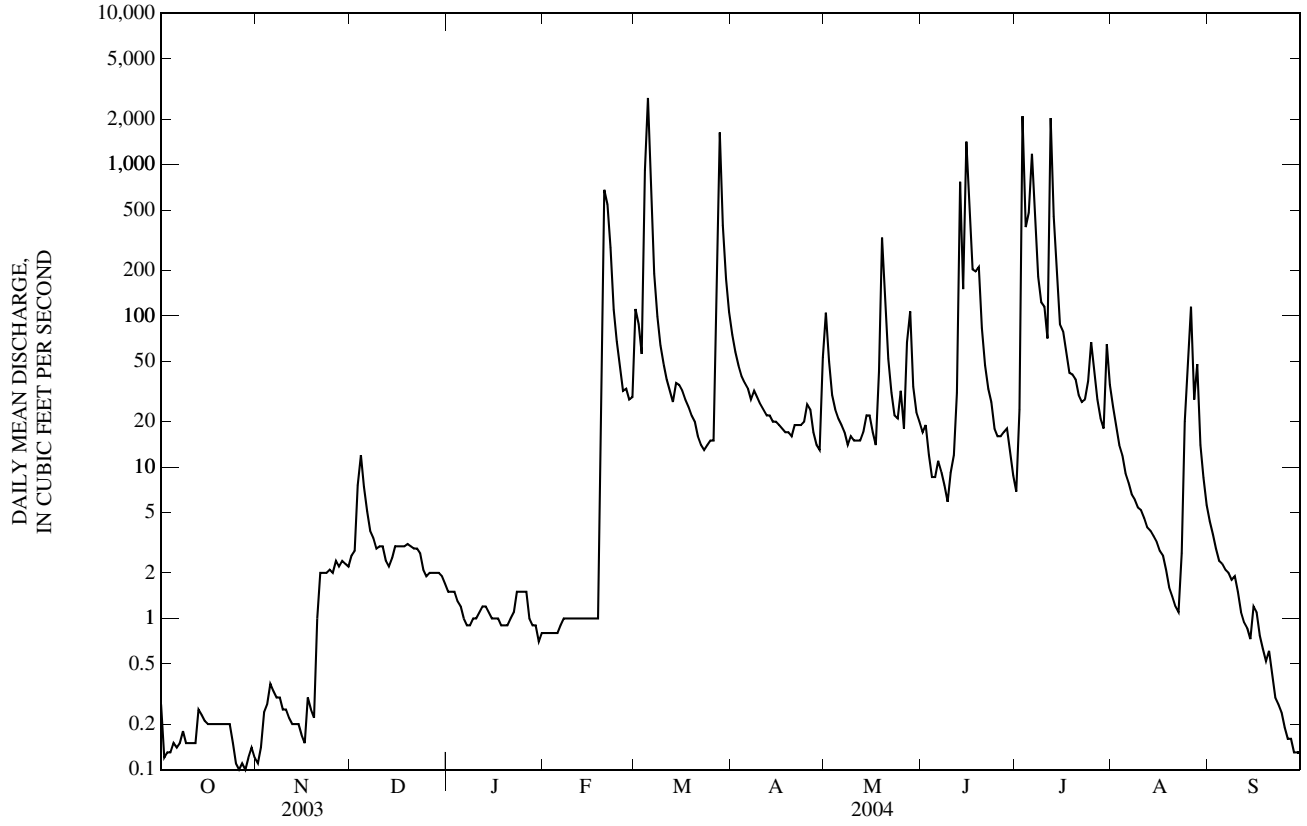
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	169	167	112	84.4	181	354	394	484	420	349	153	311
MAX	1,921	1,240	655	545	917	1,703	1,771	2,355	2,725	4,103	1,039	2,474
(WY)	(1974)	(1999)	(1973)	(1973)	(1973)	(1973)	(1999)	(1995)	(1984)	(1993)	(1973)	(1977)
MIN	0.16	0.90	3.25	1.11	7.99	13.4	8.81	9.01	16.5	0.85	0.17	0.32
(WY)	(2004)	(2004)	(2001)	(2004)	(2003)	(2003)	(1989)	(1989)	(1988)	(2003)	(2003)	(1991)

06890100 DELAWARE RIVER NEAR MUSCOTAH, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL MEAN	17.4		68.0		265	
HIGHEST ANNUAL MEAN					830	1973
LOWEST ANNUAL MEAN					18.3	2003
HIGHEST DAILY MEAN	805	May 9	2,760	Mar 5	23,400	Oct 11, 1973
LOWEST DAILY MEAN	0.00	Aug 21	0.10	Oct 26	0.00	Sep 12, 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 20	0.11	Oct 25	0.00	Aug 20, 2003
MAXIMUM PEAK FLOW			5,220	Jul 3	28,000	Sep 13, 1977
MAXIMUM PEAK STAGE			14.47	Jul 3	30.83	Sep 13, 1977
INSTANTANEOUS LOW FLOW			0.10	Oct 26	0.00	Aug 17, 1989
ANNUAL RUNOFF (AC-FT)	12,620		49,380		191,900	
10 PERCENT EXCEEDS	25		101		406	
50 PERCENT EXCEEDS	3.1		5.5		46	
90 PERCENT EXCEEDS	0.06		0.20		4.2	

e Estimated



06890898 PERRY LAKE NEAR PERRY, KS

LOCATION.--Lat 39°06'51", long 95°25'34", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.9, T.11 S., R.18 E., Jefferson County, Hydrologic Unit 10270103, in control tower near center of dam on Delaware River, 4.5 mi northwest of Perry, and at mile 5.8.

DRAINAGE AREA.--1,117 mi^2.

PERIOD OF RECORD.--March 1969 to current year. Prior to October 1971, published as "Perry Reservoir."

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

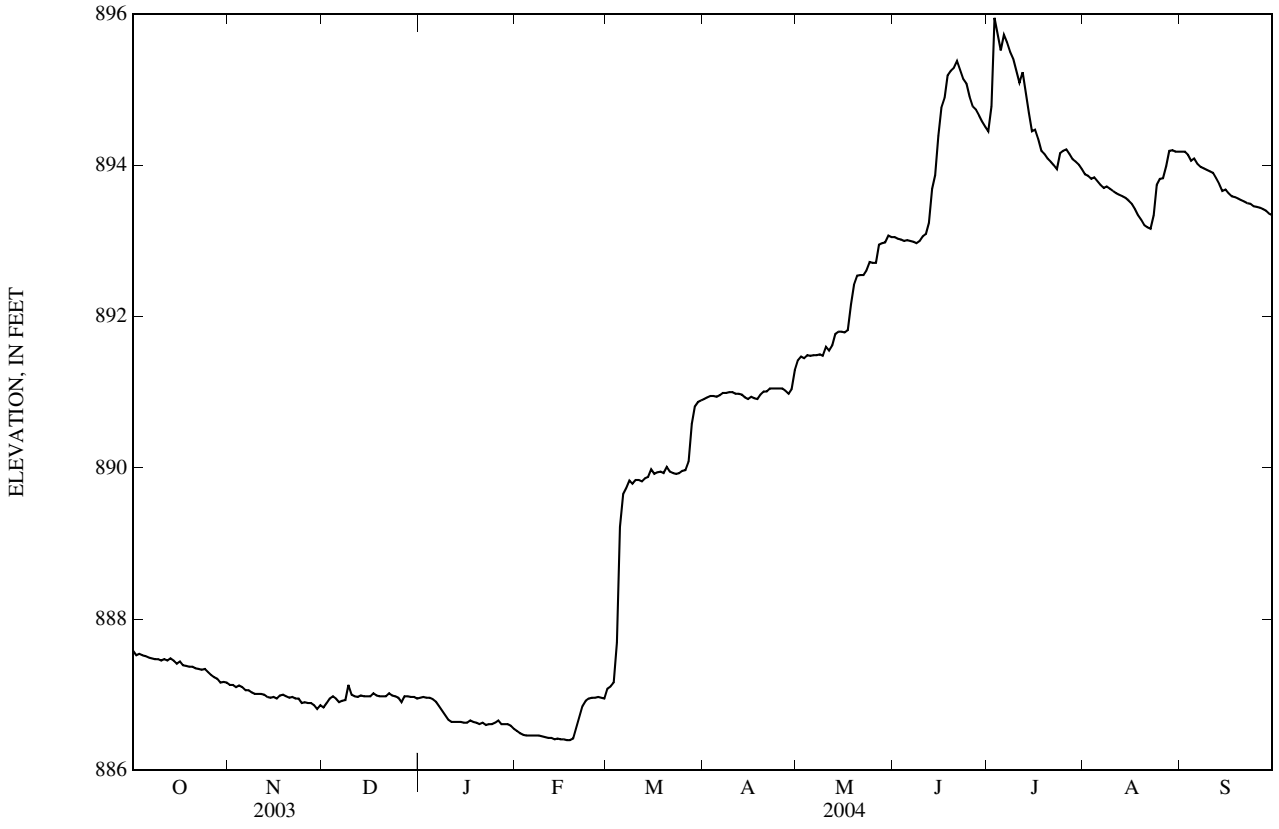
REMARKS.--Reservoir is formed by compacted earthfill dam. Some temporary storage occurred in Feb. 1969; dam was closed Mar. 21, 1969. Conservation pool elevation was first reached on June 3, 1970. Total capacity, 778,700 acre-ft, consisting of the following: Conservation pool, 225,000 acre-ft below elevation 891.5 ft; flood-control pool, 517,500 acre-ft between elevations 891.5 ft and 920.6 ft; and uncontrolled storage, 36,160 acre-ft between elevations 920.6 ft and 922.0 ft. Reservoir is used to store water for flood control, irrigation, and recreation. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 920.94 ft, July 26, 1993, contents, 734,000 acre-ft; minimum elevation since conservation pool was first reached, 884.90 ft, Apr. 14, 2003, contents, 143,600 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 895.98 ft, July 4, contents, 263,900 acre-ft; minimum elevation, 886.38 ft, Feb. 18, contents, 156,900 acre-ft.

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

Elevation	Contents	Elevation	Contents	Elevation	Contents
885	144,400	890	193,200	895	251,200



06890898 PERRY LAKE NEAR PERRY, 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	887.58	887.13	886.83	886.96	886.52	887.08	890.91	891.42	893.05	894.45	893.88	894.18
2	887.52	887.13	886.89	886.97	886.49	887.11	890.93	891.47	893.03	894.78	893.86	894.18
3	887.54	887.10	886.95	886.96	886.47	887.16	890.95	891.45	893.02	895.95	893.82	894.14
4	887.52	887.12	886.98	886.96	886.46	887.69	890.95	891.49	893.00	895.72	893.84	894.06
5	887.51	887.10	886.95	886.94	886.46	889.22	890.94	891.48	893.01	895.52	893.79	894.09
6	887.49	887.06	886.90	886.91	886.46	889.65	890.96	891.49	893.00	895.73	893.74	894.02
7	887.48	887.06	886.92	886.85	886.46	889.73	890.99	891.49	892.99	895.63	893.70	893.98
8	887.47	887.03	886.93	886.79	886.46	889.83	890.99	891.50	892.97	895.50	893.72	893.96
9	887.47	887.01	887.13	886.73	886.45	889.79	891.00	891.48	893.00	895.41	893.69	893.94
10	887.45	887.01	887.00	886.67	886.44	889.84	891.00	891.60	893.06	895.24	893.66	893.92
11	887.47	887.01	886.98	886.64	886.43	889.84	890.98	891.55	893.09	895.09	893.63	893.90
12	887.45	887.00	886.97	886.64	886.43	889.82	890.98	891.62	893.24	895.23	893.61	893.83
13	887.48	886.97	886.99	886.64	886.41	889.86	890.97	891.77	893.69	894.98	893.59	893.75
14	887.45	886.96	886.98	886.64	886.42	889.88	890.93	891.80	893.87	894.69	893.57	893.66
15	887.41	886.97	e886.98	886.63	886.41	889.98	890.91	891.80	894.39	894.45	893.53	893.68
16	887.44	886.95	e886.98	886.63	886.41	889.92	890.94	891.79	894.76	894.47	893.49	893.63
17	887.39	886.99	887.02	886.66	886.40	889.94	890.92	891.82	894.89	894.35	893.42	893.59
18	887.38	887.00	886.99	886.64	886.40	889.95	890.91	892.16	895.19	894.19	893.34	893.58
19	887.37	886.98	886.98	886.63	886.42	889.93	890.97	892.42	895.25	894.15	893.28	893.56
20	887.37	886.96	886.98	886.61	886.56	890.01	891.01	892.54	895.29	894.09	893.21	893.54
21	887.35	886.97	886.98	886.63	886.71	889.95	891.01	892.55	895.38	894.05	893.18	893.52
22	887.34	886.95	887.02	886.60	886.85	889.93	891.05	892.55	895.26	894.00	893.16	893.50
23	887.33	886.95	886.99	886.61	886.92	889.92	891.05	892.61	895.14	893.95	893.34	893.49
24	887.34	886.89	886.98	886.61	886.95	889.93	891.05	892.72	895.08	894.16	893.74	e893.46
25	e887.30	886.90	886.96	886.63	886.96	889.96	891.05	892.71	894.91	894.19	893.82	e893.45
26	887.26	886.89	886.90	886.66	886.96	889.97	891.05	892.71	894.78	894.21	893.83	e893.44
27	887.23	886.89	886.98	886.61	886.97	890.08	891.02	892.95	894.74	894.15	893.99	e893.42
28	887.21	886.86	886.98	886.61	886.96	890.58	890.98	892.97	894.66	894.08	894.19	893.40
29	887.16	886.81	886.97	886.61	886.95	890.81	891.04	892.98	894.58	894.05	894.20	893.36
30	887.17	886.86	886.97	886.59	---	890.87	891.29	893.07	894.51	894.01	894.18	893.34
31	887.16	---	886.95	886.55	---	890.89	---	893.05	---	893.95	894.18	---
MEAN	887.39	886.98	886.97	886.70	886.59	889.65	890.99	892.10	894.09	894.66	893.68	893.72
MAX	887.58	887.13	887.13	886.97	886.97	890.89	891.29	893.07	895.38	895.95	894.20	894.18
MIN	887.16	886.81	886.83	886.55	886.40	887.08	890.91	891.42	892.97	893.95	893.16	893.34
(+)	164,300	161,400	162,200	158,500	162,200	202,800	207,200	227,300	245,000	238,100	240,900	230,800
(#)	-4,200	-2,900	+800	-3,700	+3,700	+40,600	+4,400	+20,100	+17,700	-6,900	+2,800	-10,100

CAL YR 2003 ..... (#) +15,500
WTR YR 2004 ..... (#) +62,300

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

e Estimated

06890900 DELAWARE RIVER AT PERRY, KS

LOCATION.--Lat 39°04'30", long 95°24'13", in NE ¼ SW ¼ SW ¼ sec.22, T.11 S., R.18 E., Jefferson County, Hydrologic Unit 10270103, 0.5 mi west of Perry on Bridge Street at right downstream end of bridge, and at mile 1.4.

DRAINAGE AREA.--1,141 mi^2.

PERIOD OF RECORD.--March 1969 to current year. Prior to September 2003 published as "below Perry Dam."

REVISED RECORDS.--WDR KS-83-1: 1982.

GAGE.--Water-stage and velocity recorders. Prior to May 5, 2003, water-stage records for reservoir elevations and gated outflow structure. Prior to May 5, 2003, at site 4.4 mi upstream at same datum.

REMARKS.--Records poor. Flow completely regulated since 1969 by Perry Lake (station 06890898). After May 5, 2003, discharge computed by velocity-index method. Satellite telemeter at station.

COOPERATION.--Reservoir elevation-discharge ratings for reservoir outflow gates and gate operation logs furnished by U.S. Army Corps of Engineers.

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

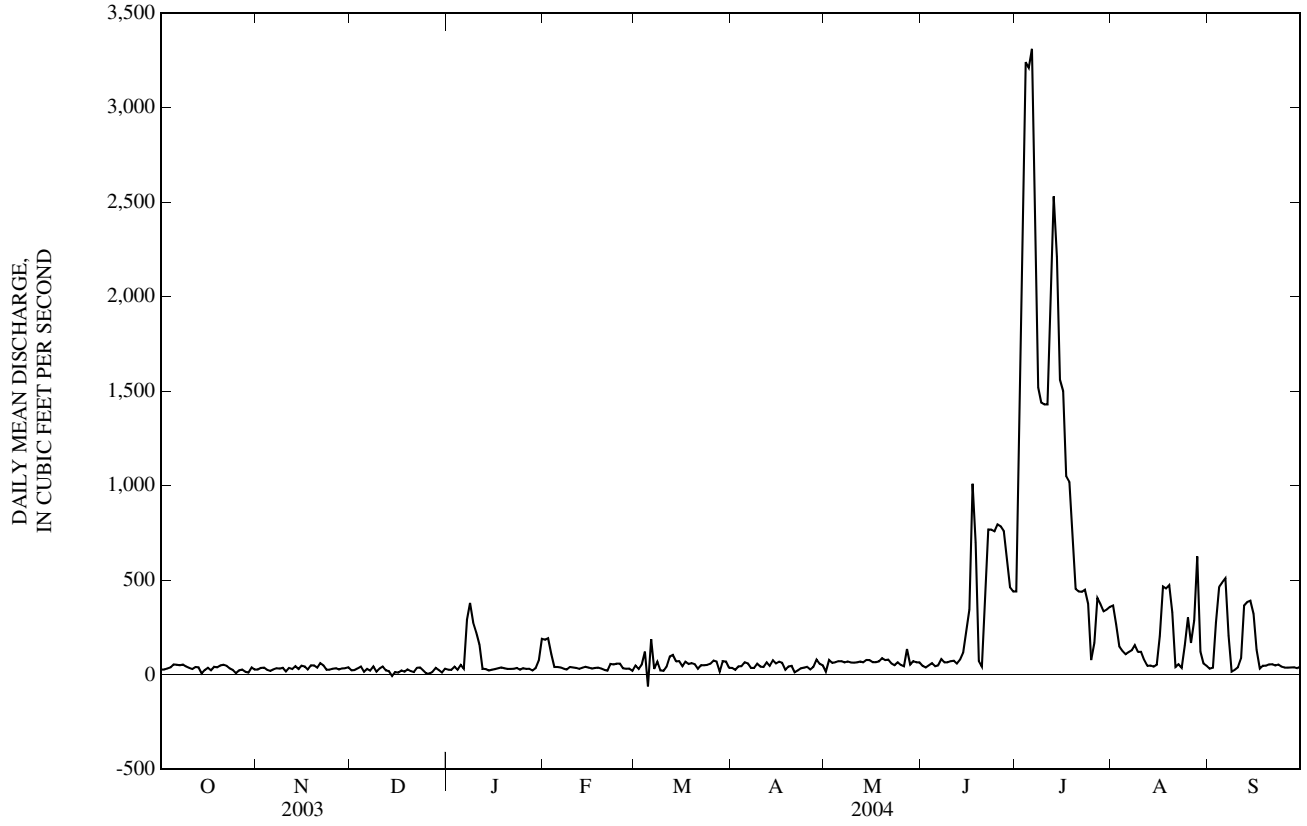
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	28	24	27	185	49	36	17	47	441	366	32
2	28	36	25	26	193	31	26	79	39	988	267	37
3	33	38	34	43	109	54	45	63	51	1,730	150	277
4	39	26	44	27	41	123	46	66	62	3,240	127	465
5	55	20	16	52	41	-61	66	72	46	3,210	109	488
6	53	29	31	32	39	189	60	72	50	3,310	120	510
7	51	35	22	292	32	31	36	65	83	2,510	130	206
8	54	33	44	380	28	69	36	70	66	1,520	157	17
9	44	37	17	276	41	24	58	65	66	1,440	121	26
10	36	18	34	224	39	21	43	64	72	1,430	122	39
11	30	36	44	159	36	43	41	66	74	1,430	78	87
12	41	30	24	32	31	96	66	70	59	1,900	47	366
13	40	46	19	30	37	105	47	66	80	2,530	49	385
14	6.7	30	-7.1	23	42	71	77	79	117	2,210	43	392
15	25	48	14	27	38	73	60	78	233	1,560	53	322
16	37	44	12	30	33	46	69	67	345	1,500	205	132
17	24	28	23	35	36	69	63	67	1,010	1,050	467	33
18	42	50	16	39	38	57	27	71	700	1,020	457	48
19	40	50	29	35	33	62	44	88	72	747	475	48
20	50	38	19	31	26	56	47	78	42	454	331	55
21	53	62	14	31	22	32	13	80	391	441	41	56
22	47	50	37	32	57	51	24	60	768	439	56	49
23	34	27	39	36	55	51	35	51	768	450	37	54
24	25	27	23	27	59	52	38	66	759	376	154	43
25	8.6	32	6.8	35	59	58	42	52	795	78	303	38
26	24	35	6.7	31	35	75	28	45	785	168	168	38
27	28	28	16	32	32	70	41	136	761	406	287	39
28	16	34	36	23	33	16	80	54	601	373	626	40
29	12	35	25	35	21	72	58	72	463	336	123	35
30	39	40	12	76	---	70	50	66	441	345	60	42
31	28	---	32	190	---	37	---	66	---	359	47	---
MEAN	34.6	35.7	23.6	76.4	50.7	57.8	46.7	68.1	328	1,226	186	147
MAX	55	62	44	380	193	189	80	136	1,010	3,310	626	510
MIN	6.7	18	-7.1	23	21	-61	13	17	39	78	37	17
AC-FT	2,120	2,120	1,450	4,700	2,920	3,550	2,780	4,190	19,530	75,360	11,460	8,730

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

MEAN	647	549	468	226	423	624	1,030	996	1,324	894	601	487
MAX	4,827	4,160	2,618	2,446	2,314	3,260	4,380	4,929	7,077	4,649	7,610	5,159
(WY)	(1974)	(1974)	(1993)	(1973)	(1973)	(1973)	(1973)	(1999)	(1995)	(1984)	(1993)	(1977)
MIN	9.00	0.00	0.00	0.00	15.4	16.4	22.3	22.0	22.0	24.1	22.6	9.00
(WY)	(2001)	(1984)	(1984)	(1984)	(1970)	(1970)	(1989)	(1989)	(1989)	(1989)	(1989)	(2000)

06890900 DELAWARE RIVER AT PERRY, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL MEAN	39.3		191		689	
HIGHEST ANNUAL MEAN					1,933	1993
LOWEST ANNUAL MEAN					41.8	2003
HIGHEST DAILY MEAN	187	May 10	3,310	Jul 6	14,000	May 31, 1995
LOWEST DAILY MEAN	-34	Sep 18	-61	Mar 5	-61	Mar 5, 2004
ANNUAL SEVEN-DAY MINIMUM	9.0	Jul 27	14	Dec 12	0.00	Oct 12, 1973
MAXIMUM PEAK FLOW			4,370	Jul 2	15,200	Jun 1, 1995
INSTANTANEOUS LOW FLOW			-329	Mar 5	0.00	many years
ANNUAL RUNOFF (AC-FT)	28,480		138,900		499,400	
10 PERCENT EXCEEDS	68		451		2,000	
50 PERCENT EXCEEDS	30		49		100	
90 PERCENT EXCEEDS	19		24		25	



06891000 KANSAS RIVER AT LECOMPTON, KS

LOCATION.--Lat 39°03'04", long 95°23'10", in SE ¼ SW ¼ NW ¼ sec.35, T.11 S., R.18 E., Jefferson County, Hydrologic Unit 10270104, on left bank at upstream side of county highway bridge at Lecompton, 0.8 mi downstream from Delaware River, and at mile 63.8.

DRAINAGE AREA.--58,460 mi^2, approximately, of which a large area is noncontributing.

PERIOD OF RECORD.--January to November 1896 and April to July 1906 (gage heights only), March 1936 to current year. Records for April 1899 to December 1905 published in WSP 37, 39, 50, 52, 66, 75, 84, 99, 131, 172, and 796-B have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 876: 1937. WSP 1176: 1903(M). WSP 1440: 1948-49(P). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 821.84 ft above NGVD of 1929. Prior to July 30, 1952, nonrecording gage, and July 30, 1952, to Apr. 29, 1970, recording gage, at site 0.15 mi upstream at same datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since 1844, 30.23 ft, July 13, 1951. Flood of May 31, 1903 (second highest since 1844), reached a stage of 27.9 ft, from floodmark.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,050	1,870	1,160	1,310	e1,140	2,630	3,300	4,720	e3,900	6,890	4,530	1,670
2	1,960	1,870	1,190	1,310	e1,120	3,360	3,530	e5,180	e3,850	8,640	4,230	1,650
3	1,920	2,000	1,930	1,290	e1,060	3,420	3,420	e3,400	e3,800	14,000	3,930	1,750
4	1,870	2,010	1,700	1,320	e1,020	4,910	2,930	e1,950	3,750	16,700	3,830	1,890
5	1,840	2,000	1,580	e1,090	e994	24,400	2,540	1,620	3,800	12,900	3,790	1,900
6	1,820	2,010	1,440	e1,020	e994	21,000	2,420	1,490	4,160	18,400	3,710	2,530
7	1,810	2,010	1,370	e1,000	e998	16,600	2,370	1,380	4,810	19,800	3,650	1,770
8	1,820	2,020	1,340	e1,090	e1,000	15,700	2,370	1,270	4,160	10,400	3,100	1,580
9	1,910	2,040	1,430	1,410	e1,030	14,800	2,240	1,180	3,980	9,770	2,620	1,450
10	2,020	2,060	1,560	1,600	e1,060	20,000	2,150	1,380	4,240	14,100	2,380	1,410
11	2,060	2,090	1,300	1,660	e1,070	23,400	2,060	1,570	4,100	10,700	2,250	1,440
12	2,030	2,090	1,320	1,600	e1,070	20,800	1,990	1,280	4,040	10,700	1,950	1,660
13	1,950	2,060	e1,280	1,460	e1,040	15,000	1,930	1,620	4,560	11,400	1,870	1,810
14	2,060	2,040	e1,380	1,510	e1,090	10,600	1,900	2,280	5,180	10,000	1,840	2,080
15	2,290	2,080	1,430	1,590	e1,180	7,250	1,750	2,270	4,960	8,580	1,790	2,210
16	2,300	2,140	1,430	1,450	e1,190	6,210	1,650	2,130	10,600	8,960	1,890	2,200
17	2,260	2,140	1,330	1,350	e1,200	5,190	1,490	2,380	13,300	7,670	2,150	2,140
18	2,190	2,210	e1,330	1,380	e1,330	3,660	1,440	e3,600	11,000	7,390	2,110	2,150
19	2,110	2,140	e1,320	e1,150	e1,980	2,710	1,390	e5,700	15,500	6,750	2,040	2,170
20	2,060	2,120	1,330	e1,130	e3,040	2,370	1,410	e3,800	13,200	6,110	2,240	2,140
21	2,020	2,050	1,350	1,220	e4,300	2,160	1,390	e2,500	12,600	5,960	2,140	2,090
22	2,010	1,620	1,340	1,350	e3,510	2,050	1,520	2,670	10,900	5,600	2,620	2,100
23	1,970	1,370	1,350	1,310	e2,580	1,970	1,580	3,320	9,100	5,720	3,120	1,960
24	1,940	1,290	1,340	1,280	2,350	1,900	1,700	3,100	8,410	10,000	18,300	1,420
25	1,930	1,310	1,330	1,300	2,160	1,810	1,800	3,000	6,800	15,000	19,900	1,260
26	1,910	1,300	1,330	e995	2,000	1,690	2,160	3,000	5,690	10,600	7,790	1,260
27	1,890	1,270	1,340	e974	1,670	1,710	2,460	3,910	6,530	11,800	3,610	1,230
28	1,880	1,140	1,320	e964	1,490	4,610	2,460	3,930	12,100	e8,000	6,460	1,190
29	1,880	1,090	1,310	e974	1,530	6,420	2,500	3,870	8,620	e6,000	3,860	1,180
30	1,890	1,090	1,300	e1,040	---	3,610	2,790	4,040	6,900	5,250	2,960	1,150
31	1,870	---	1,290	e1,140	---	2,600	---	4,090	---	4,900	2,030	---
MEAN	1,985	1,818	1,379	1,267	1,593	8,211	2,155	2,827	7,151	9,958	4,151	1,748
MAX	2,300	2,210	1,930	1,660	4,300	24,400	3,530	5,700	15,500	19,800	19,900	2,530
MIN	1,810	1,090	1,160	964	994	1,690	1,390	1,180	3,750	4,900	1,790	1,150
AC-FT	122,000	108,200	84,790	77,890	91,630	504,900	128,200	173,800	425,500	612,300	255,300	104,000

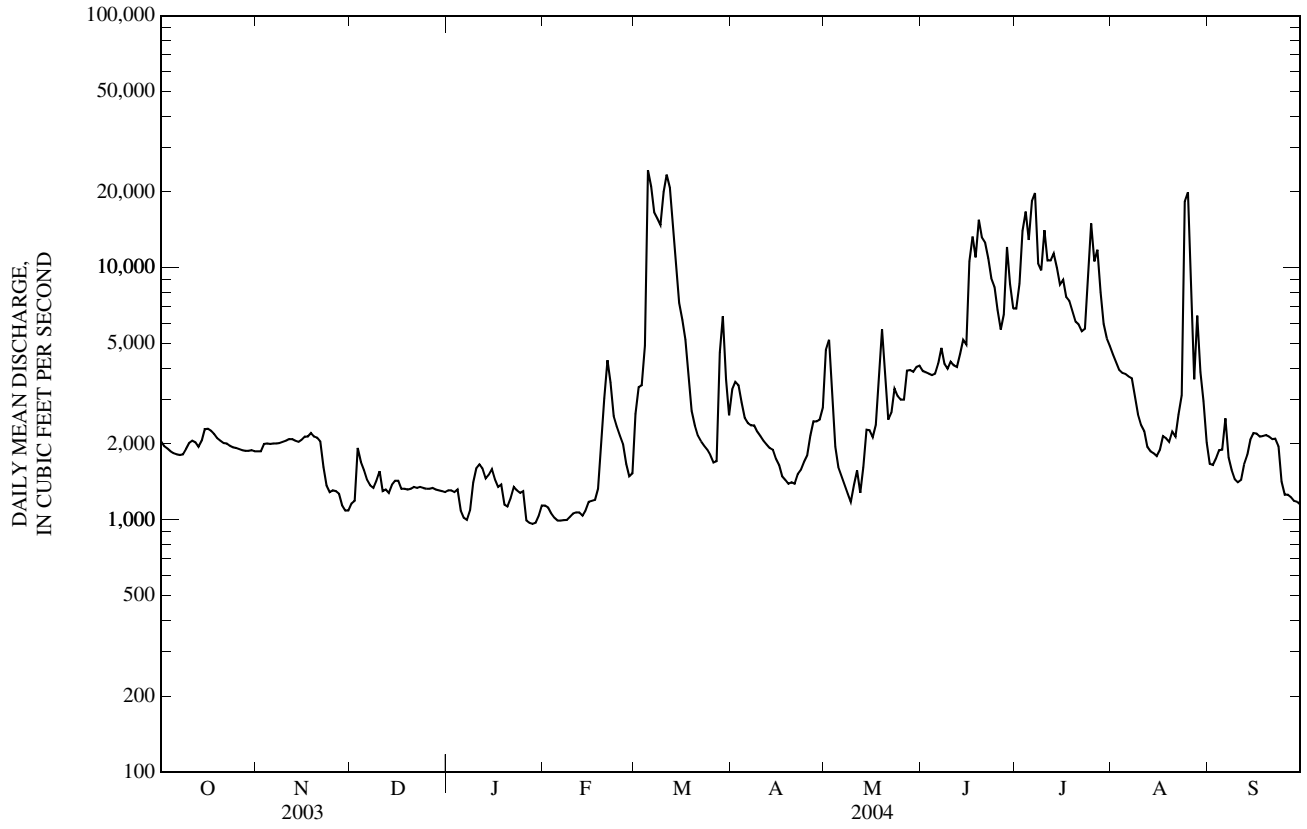
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

MEAN	5,643	4,265	3,555	2,745	4,429	7,100	8,967	10,620	14,270	12,000	6,862	6,206
MAX	49,500	41,790	20,690	13,740	19,640	31,540	39,070	40,820	81,560	116,500	65,080	36,200
(WY)	(1974)	(1974)	(1974)	(1974)	(1949)	(1973)	(1987)	(1995)	(1951)	(1951)	(1993)	(1951)
MIN	349	417	377	329	496	564	774	784	1,120	1,190	602	448
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1967)	(1956)	(1956)	(1989)	(1940)	(1955)	(1956)

06891000 KANSAS RIVER AT LECOMPTON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL MEAN	1,831		3,703		7,230	
HIGHEST ANNUAL MEAN					28,330	1993
LOWEST ANNUAL MEAN					1,275	1956
HIGHEST DAILY MEAN	11,600	Apr 25	24,400	Mar 5	472,000	Jul 13, 1951
LOWEST DAILY MEAN	436	Feb 25	964	Jan 28	185	Oct 13, 1956
ANNUAL SEVEN-DAY MINIMUM	687	Feb 22	1,010	Feb 3	200	Oct 8, 1956
MAXIMUM PEAK FLOW			32,900	Mar 5	483,000	Jul 13, 1951
MAXIMUM PEAK STAGE			11.35	Mar 5	30.23	Jul 13, 1951
INSTANTANEOUS LOW FLOW			a964	Jan 28	185	Oct 13, 1956
ANNUAL RUNOFF (AC-FT)	1,325,000		2,689,000		5,238,000	
10 PERCENT EXCEEDS	2,710		9,300		17,400	
50 PERCENT EXCEEDS	1,810		2,050		3,320	
90 PERCENT EXCEEDS	806		1,190		980	

e Estimated
a Minimum discharge may have been less during period of ice effect



06891260 WAKARUSA RIVER NEAR RICHLAND, KS

LOCATION.--Lat 38°53'31", long 95°35'40", in SE ¼ SE ¼ NE ¼ sec.26, T.13 S., R.16 E., Shawnee County, Hydrologic Unit 10270104, on left bank at upstream side of the bridge on Paulen Road and at mile 38.5.

DRAINAGE AREA.--164 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 880.00 ft above NGVD of 1929 from topographic map.

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	e1.4	e0.50	e0.64	2.0	e6.8	139	39	17	7.8	103	40	89
2	e1.2	e0.54	e0.84	2.2	e6.8	121	34	17	6.3	299	32	67
3	e0.95	e0.53	e2.0	2.0	e6.3	64	28	19	5.4	321	26	52
4	e0.77	e0.62	e3.6	2.9	e5.5	1,840	26	17	5.0	124	22	e43
5	e0.65	e0.69	e2.5	3.3	e5.2	3,470	23	16	5.5	81	18	e60
6	e0.58	e0.70	e2.6	2.4	e5.2	1,010	22	15	11	417	15	e600
7	e0.54	e0.67	e2.0	1.6	e5.0	356	22	15	22	213	14	e100
8	e0.44	e0.57	e1.7	1.3	e4.8	175	22	13	18	99	13	62
9	e0.42	e0.60	e5.4	1.3	e4.7	112	20	9.0	12	424	14	45
10	e0.42	e0.60	29	1.2	e4.8	86	18	11	13	465	15	e35
11	e0.47	e0.72	16	1.3	e4.6	67	17	17	52	145	14	e30
12	e0.54	e0.69	9.2	1.7	e4.5	55	16	13	28	84	11	e25
13	e0.56	e0.62	6.7	2.1	e4.6	50	15	27	18	64	9.6	e20
14	e0.50	e0.64	5.5	2.3	e4.6	49	15	124	26	40	8.5	e19
15	e0.52	e0.64	4.9	2.3	e4.4	47	15	102	26	31	7.4	18
16	e0.60	e0.59	11	2.4	4.4	50	14	52	18	e27	7.4	18
17	e0.50	e0.75	21	3.6	5.8	46	14	34	29	24	7.2	16
18	e0.45	e0.82	15	6.0	19	41	13	118	1,840	20	6.4	15
19	e0.45	e0.80	18	5.7	241	36	13	157	875	19	5.9	13
20	e0.40	e0.75	13	4.3	442	34	15	78	253	16	8.1	12
21	e0.35	e0.70	11	3.6	160	30	16	47	108	13	7.0	10
22	e0.30	e0.66	8.7	3.5	88	27	15	32	72	12	6.6	8.8
23	e0.30	e0.58	8.3	2.9	60	26	14	24	43	13	157	8.1
24	e0.29	e0.52	6.6	3.0	44	26	16	20	30	3,370	4,800	7.1
25	e0.39	e0.44	5.6	4.4	35	27	21	23	22	3,390	1,640	6.4
26	e0.44	e0.41	4.9	12	30	27	23	23	18	1,060	1,210	5.7
27	e0.55	e0.38	4.8	19	26	28	20	19	1,110	384	449	5.5
28	e0.73	e0.44	4.5	14	23	373	18	15	2,000	139	1,930	5.0
29	e0.65	e0.62	4.0	11	25	146	17	13	482	84	636	4.8
30	e0.60	e0.74	3.1	e8.2	---	68	17	11	172	64	224	5.9
31	e0.51	---	2.3	6.0	---	48	---	9.6	---	50	130	---
MEAN	0.56	0.62	7.56	4.50	44.2	280	19.3	35.7	244	374	370	46.9
MAX	1.4	0.82	29	19	442	3,470	39	157	2,000	3,390	4,800	600
MIN	0.29	0.38	0.64	1.2	4.4	26	13	9.0	5.0	12	5.9	4.8
AC-FT	35	37	465	277	2,540	17,200	1,150	2,200	14,540	23,000	22,780	2,790

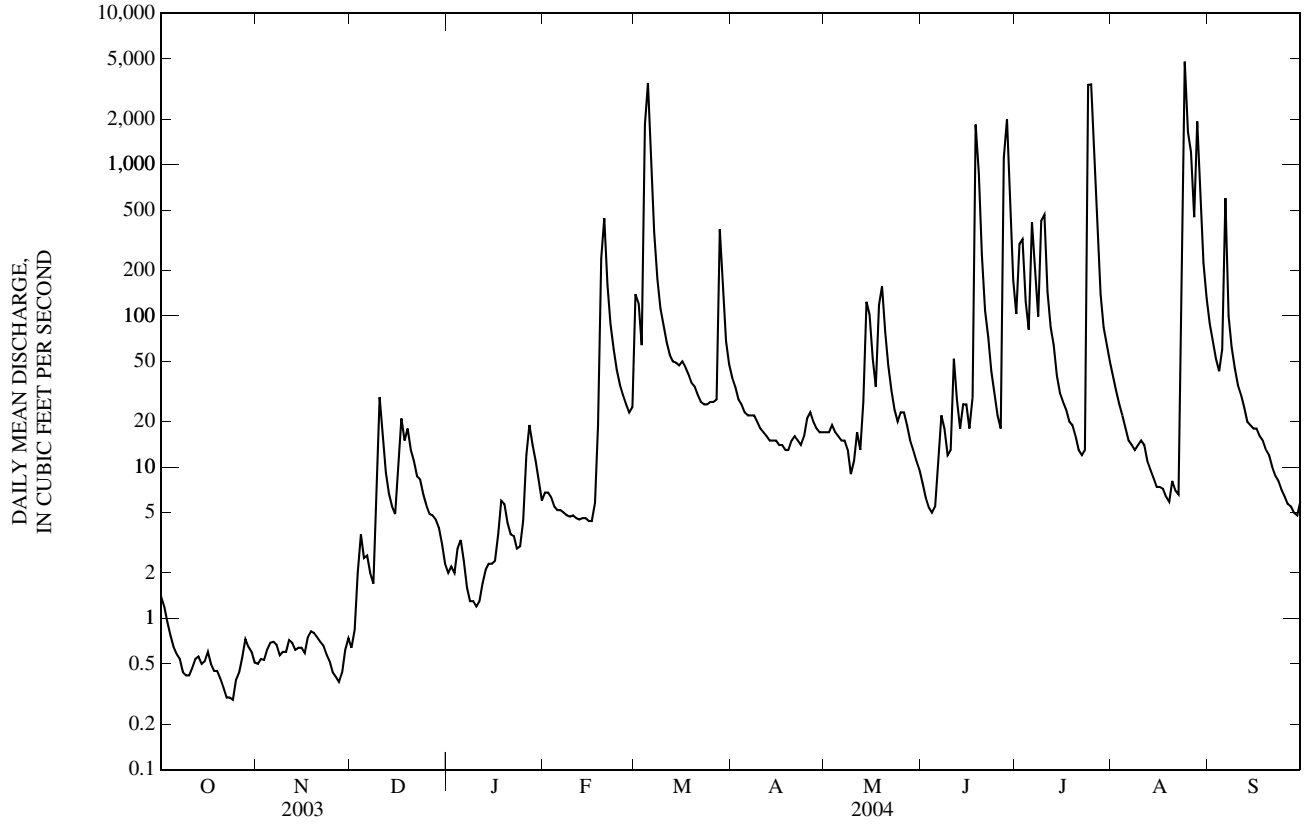
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	0.56	1.77	4.03	2.52	24.8	142	156	42.8	161	189	192	32.7
MAX	0.56	2.93	7.56	4.50	44.2	280	293	49.9	244	374	370	46.9
(WY)	(2004)	(2003)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)
MIN	0.56	0.62	0.50	0.55	4.77	4.23	19.3	35.7	77.9	4.38	13.7	18.6
(WY)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)

06891260 WAKARUSA RIVER NEAR RICHLAND, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL MEAN	39.3		120		120	
HIGHEST ANNUAL MEAN					120	2004
LOWEST ANNUAL MEAN					120	2004
HIGHEST DAILY MEAN	2,370	Apr 20	4,800	Aug 24	4,800	Aug 24, 2004
LOWEST DAILY MEAN	0.00	Aug 21	0.29	Oct 24	0.00	Aug 21, 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 21	0.35	Oct 20	0.00	Aug 21, 2003
MAXIMUM PEAK FLOW			6,800	Jul 24	6,800	Jul 24, 2004
MAXIMUM PEAK STAGE			23.08	Jul 24	23.08	Jul 24, 4007
INSTANTANEOUS LOW FLOW			0.29	Oct 24	0.00	Aug 16, 2003
ANNUAL RUNOFF (AC-FT)	28,450		87,000		86,820	
10 PERCENT EXCEEDS	44		149		149	
50 PERCENT EXCEEDS	1.8		14		14	
90 PERCENT EXCEEDS	0.13		0.60		0.60	

e Estimated



06891478 CLINTON LAKE NEAR LAWRENCE, KS

LOCATION.--Lat 38°55'52", long 95°19'56", in NW ¼ SW ¼ SW ¼ sec.8, T.13 S., R.19 E., Douglas County, Hydrologic Unit 10270104, in control tower of Clinton Dam on Wakarusa River, 4.0 mi west of Lawrence, and at mile 22.3.

DRAINAGE AREA.--367 mi^2.

PERIOD OF RECORD.--December 1977 to current year.

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

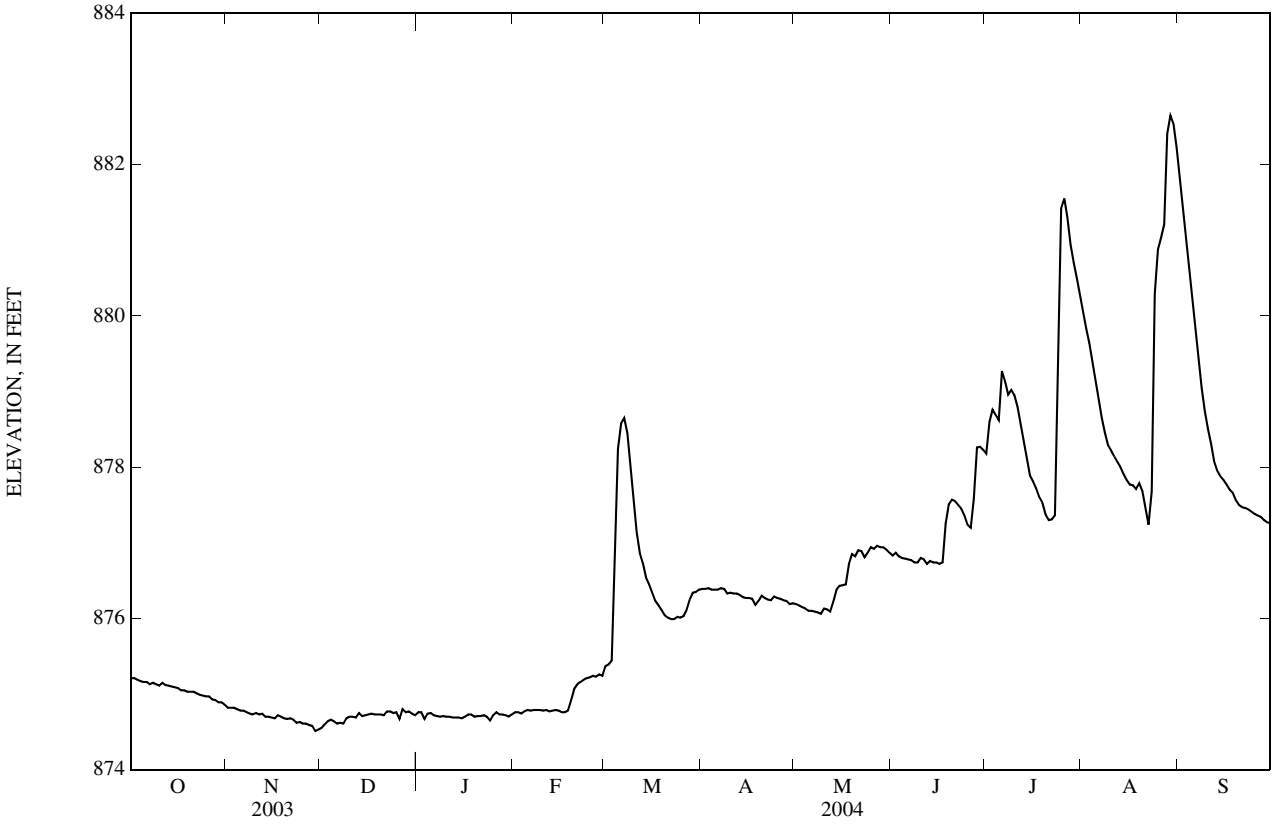
REMARKS.--Reservoir is formed by compacted earthfill dam. Storage began Nov. 30, 1977. Conservation pool elevation was first reached Apr. 3, 1980. Total capacity, 683,400 acre-ft, consisting of the following: Dead storage, 90 acre-ft below elevation 825.0 ft; conservation pool, 129,100 acre-ft between elevations 825.0 ft and 875.5 ft; flood-control pool, 268,400 acre-ft between elevations 875.5 ft and 903.4 ft; and surcharge pool, 285,800 acre-ft between elevations 903.4 ft and 921.4 ft. Reservoir is used for flood control, conservation, and recreation. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 892.48 ft, May 29, 1995, contents, 274,500 acre-ft; minimum elevation since conservation pool first reached, 871.60 ft, Aug. 18, 1989, contents, 103,300 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 882.70 ft, Aug. 30, contents, 184,300 acre-ft; minimum elevation, 874.51 ft, Nov. 29, contents, 122,300 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Computed by U.S. Army Corps of Engineers in 1965)

Elevation	Contents	Elevation	Contents	Elevation	Contents
870	93,420	876	132,700	882	178,500
872	105,800	878	147,200	884	195,300
874	118,900	880	162,500		



06891478 CLINTON LAKE NEAR LAWRENCE, 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	875.21	874.82	874.55	874.76	874.76	875.37	876.39	876.19	876.83	878.18	880.05	881.86
2	875.21	874.82	874.60	874.76	874.76	875.39	876.39	876.17	876.87	878.60	879.84	881.45
3	875.19	874.82	874.64	874.67	874.74	875.44	876.40	876.15	876.82	878.76	879.64	881.07
4	875.17	874.80	874.66	874.74	874.77	876.81	876.38	876.13	876.80	878.69	879.40	880.68
5	875.16	874.78	874.64	874.75	874.79	878.24	876.38	876.10	876.79	878.62	879.14	880.32
6	875.16	874.78	874.61	874.72	874.78	878.58	876.38	876.10	876.78	879.27	878.91	879.91
7	875.13	874.76	874.62	874.71	874.79	878.65	876.40	876.09	876.77	879.14	878.65	879.50
8	875.15	874.74	874.61	874.70	874.79	878.45	876.39	876.08	876.74	878.96	878.46	879.05
9	875.13	874.73	874.68	874.71	874.79	878.01	876.33	876.06	876.74	879.02	878.29	878.74
10	875.11	874.75	874.70	874.70	874.78	877.58	876.34	876.13	876.80	878.95	878.22	878.51
11	875.15	874.73	874.70	874.70	874.79	877.14	876.33	876.12	876.78	878.80	878.14	878.31
12	875.12	874.74	874.69	874.69	874.77	876.86	876.33	876.09	876.72	878.58	878.07	878.08
13	875.11	874.70	874.75	874.69	874.78	876.73	876.31	876.22	876.76	878.36	878.00	877.95
14	875.10	874.70	874.71	874.69	874.79	876.54	876.28	876.38	876.74	878.13	877.91	877.88
15	875.09	874.69	874.72	874.68	874.78	876.45	876.27	876.43	876.74	877.89	877.83	877.83
16	875.08	874.68	874.73	874.70	874.76	876.34	876.27	876.44	876.72	877.81	877.77	877.77
17	875.05	874.72	874.74	874.73	874.76	876.23	876.26	876.45	876.74	877.72	877.76	877.70
18	875.05	874.70	874.73	874.73	874.78	876.17	876.18	876.72	877.25	877.60	877.71	877.66
19	875.03	874.68	874.73	874.70	874.92	876.11	876.23	876.85	877.51	877.53	877.79	877.56
20	875.03	874.67	874.73	874.71	875.07	876.04	876.30	876.82	877.57	877.37	877.69	877.50
21	875.03	874.68	874.72	874.71	875.13	876.01	876.27	876.90	877.55	877.30	877.45	877.47
22	875.01	874.66	874.77	874.72	875.16	875.99	876.25	876.89	877.50	877.31	877.24	877.46
23	874.99	874.62	874.77	874.70	875.19	875.99	876.24	876.81	877.45	877.36	877.68	877.44
24	874.98	874.63	874.75	874.65	875.21	876.02	876.29	876.87	877.36	879.93	880.29	877.41
25	874.97	874.61	874.76	874.72	875.22	876.01	876.27	876.94	877.24	881.42	880.88	877.38
26	874.97	874.61	874.67	874.76	875.24	876.03	876.26	876.92	877.20	881.55	881.03	877.36
27	874.93	874.59	874.80	874.73	875.23	876.11	876.24	876.96	877.58	881.30	881.21	877.34
28	874.92	874.58	874.76	874.73	875.26	876.25	876.23	876.94	878.26	880.94	882.41	877.30
29	874.89	874.51	874.77	874.72	875.24	876.34	876.19	876.94	878.27	880.71	882.65	877.27
30	874.89	874.53	874.74	874.70	---	876.35	876.20	876.91	878.23	880.50	882.54	e877.26
31	874.86	---	874.72	874.73	---	876.38	---	876.87	---	880.27	882.22	---
MEAN	875.06	874.69	874.70	874.71	874.93	876.60	876.30	876.51	877.14	878.92	879.19	878.43
MAX	875.21	874.82	874.80	874.76	875.26	878.65	876.40	876.96	878.27	881.55	882.65	881.86
MIN	874.86	874.51	874.55	874.65	874.74	875.37	876.18	876.06	876.72	877.30	877.24	877.26
(+)	124,700	122,500	123,800	123,800	127,400	135,400	134,100	138,900	149,000	164,700	180,400	141,800
(#)	-2,700	-2,200	+1,300	0	+3,600	+8,000	-1,300	+4,800	+10,100	+15,700	+15,700	-38,600

CAL YR 2003 ..... (#) +15,800
WTR YR 2004 ..... (#) +14,400

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

e Estimated

06891500 WAKARUSA RIVER NEAR LAWRENCE, KS

LOCATION.--Lat 38°54'41", long 95°15'39", in NE ¼ NE ¼ NE ¼ sec.23, T.13 S., R.19 E., Douglas County, Hydrologic Unit 10270104, on left bank at upstream side of bridge on U.S. Highway 59, 4 mi south of Lawrence, and at mile 16.3.

DRAINAGE AREA.--425 mi^2, Dec. 1, 1972, to Sept. 30, 1980, 412 mi^2.

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

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

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow significantly regulated since 1977 by Clinton Lake (station 06891478), 6.0 mi upstream. Satellite telemeter at station.

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

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	27	4.4	8.2	7.3	5.6	15	77	66	55	457	970	1,770
2	23	5.0	8.8	7.6	7.0	9.8	73	59	54	1,520	964	1,780
3	7.8	5.0	39	7.5	6.8	13	66	57	53	1,300	957	1,760
4	4.7	27	5.9	8.5	7.0	972	62	57	53	698	952	1,750
5	5.3	7.6	4.8	7.8	6.9	1,130	60	56	54	639	948	1,780
6	4.9	3.5	4.1	6.4	7.0	461	60	55	55	1,620	946	1,830
7	4.8	2.5	4.1	6.7	6.8	358	61	54	53	1,380	943	1,810
8	5.0	3.4	3.9	7.1	6.8	850	65	54	53	1,150	1,050	1,800
9	7.7	3.8	39	7.9	6.7	2,120	60	54	66	1,080	781	1,450
10	7.1	3.8	15	7.4	7.4	1,900	60	89	81	1,080	365	858
11	12	4.5	12	7.7	7.3	1,880	59	62	62	1,030	246	855
12	7.1	5.8	10	7.5	6.4	1,450	59	60	61	1,020	239	853
13	7.4	7.1	11	7.4	5.1	752	58	128	64	1,010	236	566
14	10	7.6	10	7.4	5.7	751	57	159	56	997	235	236
15	4.3	8.1	21	7.3	5.8	643	58	107	60	991	234	240
16	4.2	8.5	19	8.3	5.1	504	61	78	55	1,000	155	237
17	6.8	16	13	19	5.9	502	70	69	59	456	42	235
18	5.4	12	16	10	15	392	60	134	200	437	41	241
19	6.3	4.5	13	7.4	34	238	56	141	112	438	56	236
20	4.0	4.5	10	7.1	36	237	91	98	75	428	182	167
21	5.1	5.7	9.6	7.4	18	234	63	68	122	345	852	48
22	5.5	9.4	18	7.4	14	157	60	61	237	49	860	48
23	5.2	8.8	19	6.8	11	69	62	58	234	59	531	49
24	4.9	7.5	12	7.1	8.4	61	72	73	232	1,830	2,010	48
25	4.9	7.3	10	18	7.1	62	63	172	284	1,650	1,020	47
26	e4.9	7.7	9.6	10	6.7	60	61	122	103	788	2,030	48
27	e4.0	8.1	9.2	7.1	6.2	70	59	131	110	1,890	1,970	47
28	3.5	8.3	8.2	6.5	5.8	155	58	80	198	1,810	3,190	47
29	3.4	8.6	7.7	6.2	23	103	57	64	506	1,480	613	47
30	3.8	8.7	7.4	5.5	---	92	74	61	479	985	892	47
31	4.4	---	7.3	5.2	---	77	---	58	---	977	1,840	---
MEAN	6.92	7.49	12.4	8.08	10.2	526	63.4	83.4	130	987	850	698
MAX	27	27	39	19	36	2,120	91	172	506	1,890	3,190	1,830
MIN	3.4	2.5	3.9	5.2	5.1	9.8	56	54	53	49	41	47
AC-FT	425	446	765	497	584	32,370	3,770	5,130	7,710	60,680	52,270	41,510

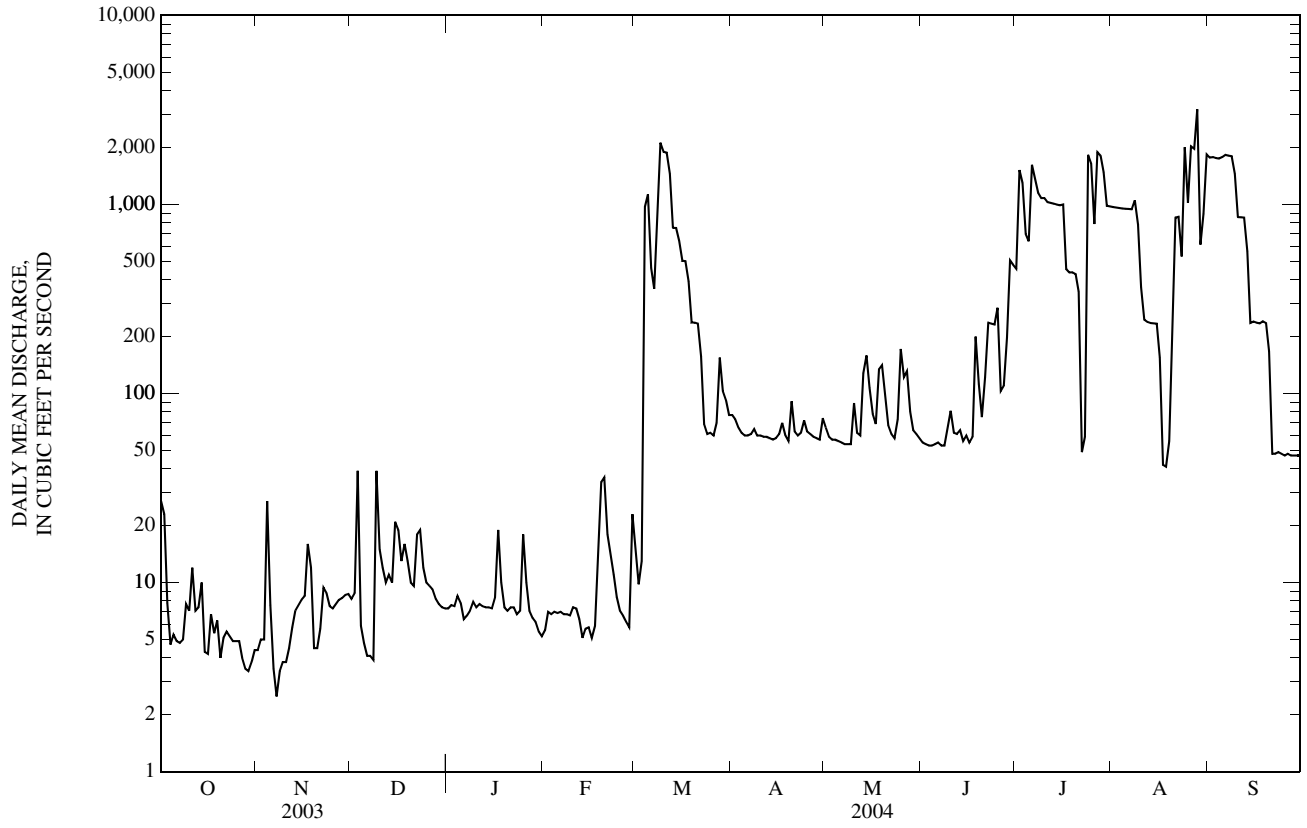
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

MEAN	150	150	117	87.6	129	260	324	364	453	311	118	119
MAX	2,038	1,953	1,099	574	755	2,076	2,275	2,324	3,137	3,638	1,829	1,281
(WY)	(1986)	(1999)	(1945)	(1973)	(1949)	(1973)	(1944)	(1999)	(1967)	(1951)	(1968)	(1973)
MIN	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.00	2.60	0.00	0.00	0.00
(WY)	(1934)	(1934)	(1934)	(1934)	(1934)	(1939)	(1954)	(1939)	(1936)	(1934)	(1934)	(1937)

06891500 WAKARUSA RIVER NEAR LAWRENCE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL MEAN	21.4		284		215	
HIGHEST ANNUAL MEAN					728	1999
LOWEST ANNUAL MEAN					10.2	1953
HIGHEST DAILY MEAN	484	Aug 31	3,190	Aug 28	22,600	Jul 12, 1951
LOWEST DAILY MEAN	0.53	Jul 31	2.5	Nov 7	0.00	Jul 11, 1930
ANNUAL SEVEN-DAY MINIMUM	3.3	Feb 20	3.9	Nov 6	0.00	Jul 11, 1930
MAXIMUM PEAK FLOW			4,220	Aug 28	24,200	Jul 12, 1951
MAXIMUM PEAK STAGE			23.18	Aug 28	31.59	Jul 12, 1951
INSTANTANEOUS LOW FLOW			1.3	Nov 4	0.00	some years
ANNUAL RUNOFF (AC-FT)	15,490		206,200		155,900	
10 PERCENT EXCEEDS	36		1,000		506	
50 PERCENT EXCEEDS	20		56		25	
90 PERCENT EXCEEDS	3.8		5.4		0.40	

e Estimated



06891810 STRANGER CREEK NEAR POTTER, KS

LOCATION.--Lat 39°26'52", long 95°09'43", in NE ¼ NE ¼ NE ¼ sec.15, T.7 S., R.20 E., Atchinson County, Hydrologic Unit 10270103, on left bank at downstream side of the bridge on Potter Road, 2.5 mi northwest of Potter, and at mile 56.3.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--October 2003 to September 2004.

GAGE.--Water-stage recorder. Datum of gage is 920.00 ft above NGVD of 1929 from topographic map.

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0000	*2,690	*15.57	Jun 15	0700	2,120	13.46
May 27	1400	1,770	12.07	Jul 12	0800	2,330	14.27
Jun 13	1130	1,590	11.35	Jul 16	1500	2,110	13.44

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	e0.30	e1.0	e1.3	e2.5	e0.90	8.6	14	90	26	11	5.1	6.7
2	e0.30	e1.0	e1.5	e2.5	e1.0	9.7	13	24	17	17	4.7	5.6
3	e0.30	e1.1	e4.0	e2.5	e1.1	8.5	12	14	14	98	4.2	4.9
4	e0.30	e1.1	e5.0	e2.5	e1.2	604	11	11	12	31	3.7	4.1
5	e0.31	e1.2	e4.0	e2.0	e1.3	1,320	11	9.8	11	224	3.4	10
6	e0.32	e1.1	e3.5	e1.2	e1.5	163	11	8.7	13	104	3.2	41
7	e0.33	e1.1	e3.0	e1.0	e1.6	57	11	8.1	12	43	2.9	11
8	e0.34	e1.1	e2.5	e1.3	e1.7	31	10	6.8	10	20	3.5	6.5
9	e0.37	e1.2	e3.0	e1.6	e1.9	24	9.8	6.0	9.1	16	3.3	4.9
10	e0.40	e1.3	e6.0	e1.9	e2.1	20	9.7	7.2	15	20	2.8	4.1
11	e0.50	e1.3	e5.5	e2.2	e2.2	18	9.4	15	18	14	2.6	3.5
12	e0.60	e1.3	e4.0	e2.7	e2.3	17	8.9	9.1	55	1,350	2.5	3.4
13	e0.62	e1.2	e3.0	e2.6	e2.5	16	8.6	10	882	140	2.4	2.9
14	e0.68	e1.2	e2.5	e2.4	e2.6	18	8.4	37	119	42	2.4	3.1
15	e0.70	e1.3	e2.0	e2.2	e2.7	18	8.4	40	1,560	21	2.4	3.1
16	e0.70	e1.4	e3.0	e2.1	e2.8	17	8.2	16	335	734	2.3	3.3
17	e0.72	e1.7	e2.5	e2.1	e2.9	17	8.1	12	309	185	2.2	3.2
18	e0.74	e1.5	e3.0	e1.6	e3.0	16	8.1	224	335	37	2.2	3.2
19	e0.76	e1.4	e3.0	e1.4	51	14	8.3	680	179	21	2.1	2.7
20	e0.78	e1.4	e3.5	e1.2	422	13	8.6	150	57	14	2.3	2.9
21	e0.78	e1.3	e3.5	e1.3	98	11	8.9	38	87	10	2.3	2.6
22	e0.78	e1.3	e3.0	e1.4	44	11	9.0	20	48	8.9	2.1	2.4
23	e0.79	e1.4	e3.0	e1.4	23	11	10	15	24	8.0	2.5	2.2
24	e0.79	e1.3	e3.0	e1.3	16	11	10	12	18	17	243	1.9
25	e0.80	e1.3	e3.0	e1.3	12	12	9.6	89	15	62	212	2.0
26	e0.81	e1.2	e2.8	e1.2	10	12	8.5	31	14	18	16	1.9
27	e0.83	e1.2	e2.5	e1.1	8.8	13	7.6	575	15	9.8	21	2.1
28	e0.86	e1.2	e2.5	e0.90	5.8	46	6.6	159	19	7.2	453	1.9
29	e0.88	e1.2	e2.5	e0.80	5.6	40	5.9	44	15	6.3	64	1.9
30	e0.90	e1.3	e2.4	e0.70	---	20	16	222	12	5.9	15	2.2
31	e0.95	---	e2.4	e0.70	---	16	---	90	---	5.5	8.6	---
MEAN	0.62	1.25	3.11	1.66	25.2	84.3	9.65	86.2	142	106	35.5	5.04
MAX	0.95	1.7	6.0	2.7	422	1,320	16	680	1,560	1,350	453	41
MIN	0.30	1.0	1.3	0.70	0.90	8.5	5.9	6.0	9.1	5.5	2.1	1.9
AC-FT	38	75	191	102	1,450	5,180	574	5,300	8,440	6,550	2,180	300

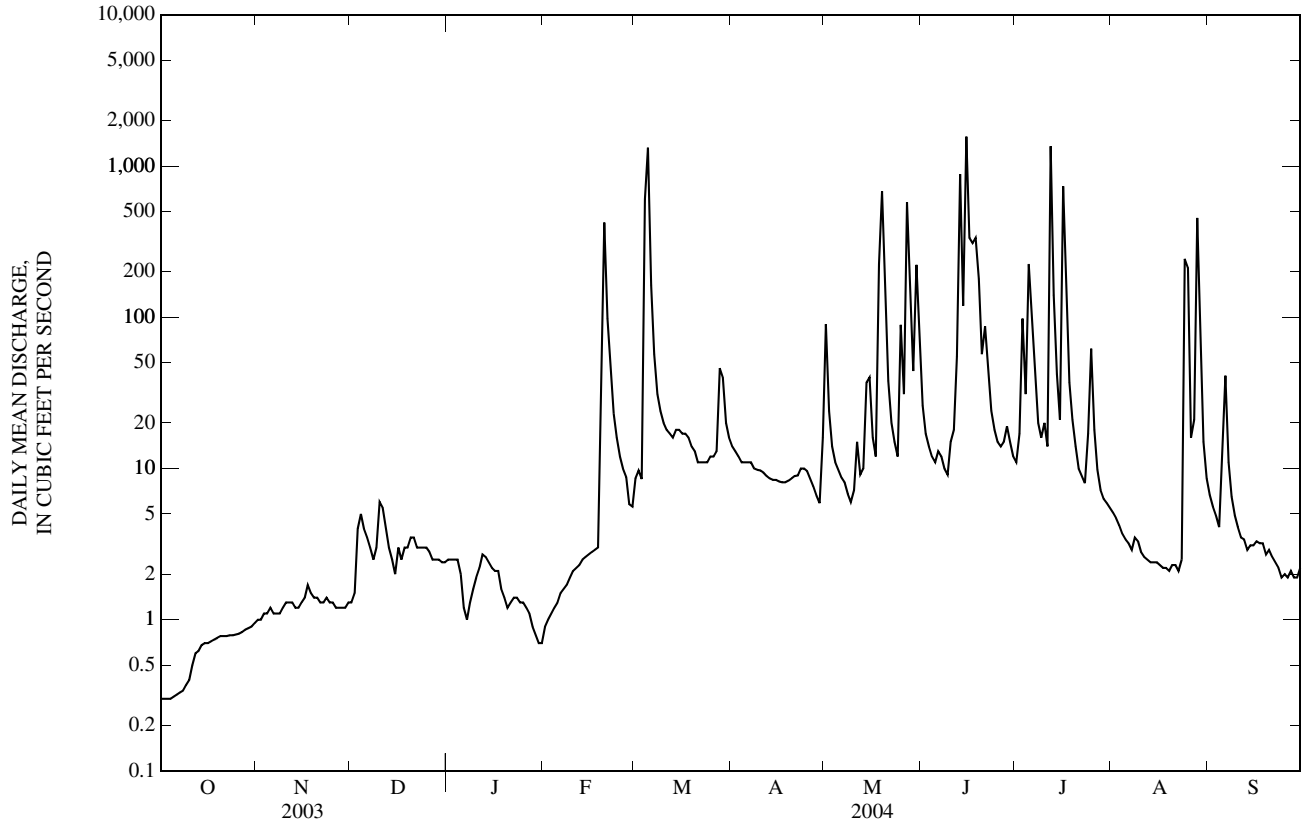
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	0.62	1.25	3.11	1.66	25.2	84.3	9.65	86.2	142	106	35.5	5.04
MAX	0.62	1.25	3.11	1.66	25.2	84.3	9.65	86.2	142	106	35.5	5.04
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	0.62	1.25	3.11	1.66	25.2	84.3	9.65	86.2	142	106	35.5	5.04
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

06891810 STRANGER CREEK NEAR POTTER, KS—Continued

SUMMARY STATISTICS	FOR 2004 WATER YEAR	
ANNUAL MEAN	41.9	
HIGHEST DAILY MEAN	1,560	Jun 15
LOWEST DAILY MEAN	0.30	Oct 1
ANNUAL SEVEN-DAY MINIMUM	0.31	Oct 1
MAXIMUM PEAK FLOW	2,690	Mar 5
MAXIMUM PEAK STAGE	15.57	Mar 5
INSTANTANEOUS LOW FLOW	0.30	Oct 1
ANNUAL RUNOFF (AC-FT)	30,390	
10 PERCENT EXCEEDS	56	
50 PERCENT EXCEEDS	4.9	
90 PERCENT EXCEEDS	0.99	

e Estimated



06892000 STRANGER CREEK NEAR TONGANOXIE, KS

LOCATION.--Lat 39°06'59", long 95°00'38", in NE ¼ NE ¼ NW ¼ sec.7, T.11 S., R.22 E., Leavenworth County, Hydrologic Unit 10270104, on left bank at downstream side of bridge on U.S. Highway 40, 2.0 mi upstream from Tonganoxie Creek, 4.0 mi east of Tonganoxie, and at mile 18.1.

DRAINAGE AREA.--406 mi^2.

PERIOD OF RECORD.--April 1929 to current year.

REVISED RECORDS.--WSP 1440: 1929, 1936(M), 1940, 1942(M), 1949. WSP 1710: 1951.

GAGE.--Water-stage recorder. Datum of gage is 800.95 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Apr. 30, 1929, to June 1, 1939, nonrecording gage and June 2, 1939, to June 1, 1960, water-stage recorder, at present site and datum. June 1, 1960, to May 16, 1997, water-stage recorder 1.3 mi upstream of present site, at datum 4.00 ft higher. May 28, 1998, moved gage back to permanent location on U.S. Highway 40.

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 2,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 4	2300	3,270	17.19	Aug 28	0415	*4,250	*19.99

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	1.4	1.3	2.5	7.2	2.2	47	92	448	171	35	27	84
2	1.0	1.6	2.5	7.2	3.1	58	81	228	85	66	23	59
3	0.87	1.8	10	6.6	2.2	52	71	130	56	504	20	45
4	0.82	2.2	8.3	6.2	2.1	1,130	66	93	44	234	17	35
5	0.66	2.4	9.2	6.6	2.6	3,040	61	76	38	245	15	38
6	0.68	3.0	20	4.3	4.1	1,770	55	64	35	1,000	13	252
7	0.82	2.9	15	3.4	e3.4	320	52	52	34	275	10	152
8	0.97	2.8	11	3.2	3.1	179	53	36	31	152	8.5	72
9	0.90	2.8	57	3.2	4.0	131	40	28	28	95	48	44
10	0.88	3.1	91	3.5	3.1	107	33	333	63	67	27	32
11	0.96	3.3	69	3.7	e6.0	92	30	183	46	57	17	25
12	1.4	3.1	75	4.6	e4.1	81	27	90	50	733	12	22
13	0.93	3.0	44	5.3	e5.4	73	24	547	400	1,330	8.1	19
14	1.2	2.8	27	5.6	e6.3	73	22	715	911	236	6.4	17
15	1.2	3.1	23	6.0	5.8	73	20	383	415	120	5.5	16
16	1.1	3.3	48	6.9	6.1	77	21	201	1,500	1,020	4.8	24
17	1.2	4.5	42	e8.1	7.8	74	21	127	516	1,410	4.2	22
18	1.5	8.6	51	e8.1	51	69	20	153	1,400	334	3.6	24
19	1.4	5.8	70	e8.1	177	65	19	1,390	814	155	3.5	43
20	1.4	2.8	70	7.6	245	63	30	1,450	316	101	5.6	24
21	1.4	2.4	48	7.0	447	46	50	328	296	70	3.6	15
22	1.4	2.4	36	6.4	197	37	41	166	315	52	5.7	10
23	1.9	3.2	39	5.8	120	33	32	111	167	43	5.2	7.9
24	1.8	2.6	30	5.9	83	35	e30	77	95	477	727	7.2
25	1.6	2.2	26	6.5	66	38	e29	139	64	292	855	6.3
26	1.4	2.3	21	6.6	49	39	e28	185	48	178	297	6.1
27	4.5	2.1	16	5.1	37	42	27	552	45	102	235	5.6
28	6.5	2.0	14	2.5	30	213	19	940	54	60	3,180	4.9
29	1.6	2.0	11	e1.7	29	244	17	271	53	43	1,070	4.5
30	1.1	2.5	9.3	e2.4	---	174	234	166	43	36	259	4.2
31	1.2	---	7.2	3.3	---	115	---	313	---	32	141	---
MEAN	1.47	2.93	32.4	5.44	55.3	277	44.8	322	271	308	228	37.4
MAX	6.5	8.6	91	8.1	447	3,040	234	1,450	1,500	1,410	3,180	252
MIN	0.66	1.3	2.5	1.7	2.1	33	17	28	28	32	3.5	4.2
AC-FT	91	174	1,990	334	3,180	17,040	2,670	19,790	16,130	18,950	14,000	2,220

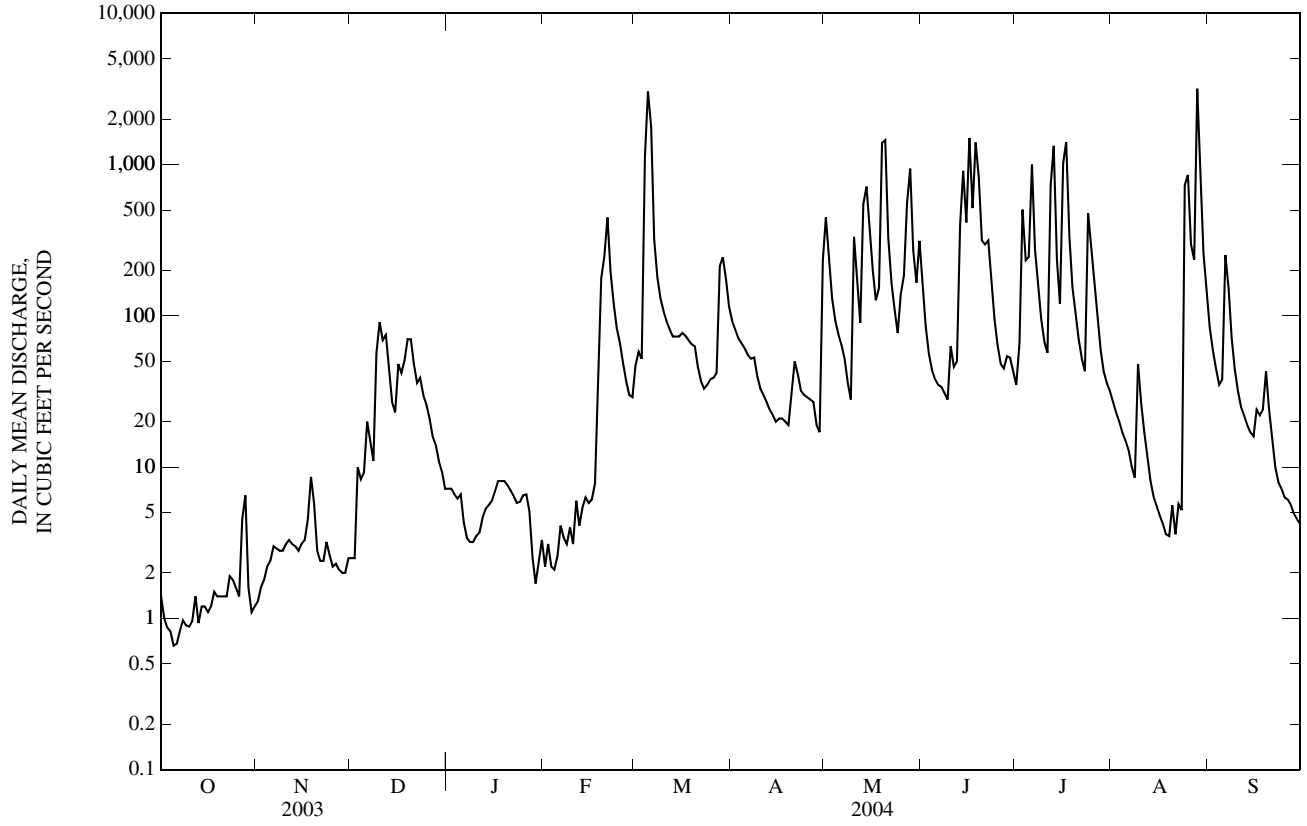
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

MEAN	196	173	110	89.2	171	268	352	392	496	293	143	248
MAX	2,060	1,734	942	579	1,071	2,013	1,692	1,868	2,915	2,697	1,151	2,411
(WY)	(1986)	(1932)	(1945)	(1973)	(1962)	(1973)	(1999)	(1995)	(1967)	(1993)	(1968)	(1977)
MIN	0.00	0.01	0.12	0.10	0.54	2.85	4.30	9.20	3.61	0.58	0.00	0.00
(WY)	(1954)	(1957)	(1957)	(1957)	(1957)	(1954)	(1935)	(1989)	(1988)	(1934)	(1934)	(1956)

06892000 STRANGER CREEK NEAR TONGANOXIE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL MEAN	34.9		133		244	
HIGHEST ANNUAL MEAN					802	1993
LOWEST ANNUAL MEAN					8.20	1934
HIGHEST DAILY MEAN	1,760	Jun 23	3,180	Aug 28	22,200	Jun 21, 2001
LOWEST DAILY MEAN	0.05	Aug 20	0.66	Oct 5	0.00	Jul 4, 1934
ANNUAL SEVEN-DAY MINIMUM	0.08	Aug 19	0.82	Oct 3	0.00	Jul 21, 1934
MAXIMUM PEAK FLOW			4,250	Aug 28	40,000	Jun 21, 2001
MAXIMUM PEAK STAGE			19.99	Aug 28	29.81	Jun 21, 2001
INSTANTANEOUS LOW FLOW			0.55	Oct 5	0.00	many years
ANNUAL RUNOFF (AC-FT)	25,250		96,560		176,800	
10 PERCENT EXCEEDS	48		314		426	
50 PERCENT EXCEEDS	5.7		30		38	
90 PERCENT EXCEEDS	0.83		2.1		2.0	

e Estimated



06892350 KANSAS RIVER AT DESOTO, KS

LOCATION.--Lat 38°59'00", long 94°57'52", in SE ¼ NE ¼ NE ¼ sec.27, T.12 S., R.22 E., Leavenworth County, Hydrologic Unit 10270104, on left bank at downstream side of bridge on county highway, north edge of DeSoto, 0.4 mi upstream from Kill Creek, and at mile 31.0.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--59,756 mi^2, of which a large area is noncontributing.

PERIOD OF RECORD.--July 1917 to current year. Monthly discharge only for some periods published in WSP 1310. Prior to October 1973, published as "at Bonner Springs."

REVISED RECORDS.--WSP 806: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 753.87 ft above NGVD of 1929. July 9, 1917, to Apr. 23, 1934, nonrecording gage; Apr. 24, 1934, to Nov. 25, 1960, water-stage recorder at site 9.7 mi downstream at datum 11.81 ft lower; Nov. 26, 1960, to Feb. 9, 1961, nonrecording gage; Feb. 10, 1961, to Sept. 30, 1971, water-stage recorder at site 10.2 mi downstream at datum 17.81 ft lower; and Oct. 1, 1971, to Sept. 30, 1973, at site 10.2 mi downstream at datum 22.81 ft lower. Lowered gage datum 5.0 ft Sept. 30, 1996, to 753.87 ft.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Natural flow affected by lakes and reservoirs in Colorado, Nebraska, and Kansas, and by numerous diversions upstream from station. Diurnal fluctuations caused by hydroelectric plant 20.8 mi upstream; since storage capacity is small, daily flows are not affected appreciably. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1844, that of July 13, 1951.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,010	1,850	1,190	1,170	e1,300	1,870	3,420	3,720	4,480	7,130	5,700	4,310
2	1,930	1,880	1,190	1,170	e1,290	2,310	4,190	4,800	4,310	8,490	5,360	4,040
3	1,920	1,870	1,420	1,160	e1,290	3,180	4,280	3,810	4,260	18,500	5,000	3,930
4	1,880	1,920	1,780	1,170	e1,270	6,480	4,100	2,930	4,170	18,400	4,760	3,850
5	1,860	1,940	1,310	1,160	e1,280	22,600	3,670	2,380	4,140	15,200	4,670	3,930
6	1,850	1,900	1,420	e1,150	e1,290	29,000	3,450	2,420	4,250	21,900	4,750	4,470
7	1,840	1,900	1,380	e1,190	e1,290	17,700	3,310	2,140	4,690	24,600	4,580	4,570
8	1,830	1,930	1,220	1,450	e1,310	17,500	2,870	1,960	4,720	15,900	4,720	4,030
9	1,820	1,870	1,240	1,570	e1,340	17,100	3,050	1,940	4,420	9,990	4,210	3,700
10	1,850	1,970	1,400	1,760	e1,360	18,500	3,120	2,030	4,620	13,200	3,390	2,860
11	1,980	1,960	1,410	1,710	e1,390	25,100	2,990	2,710	4,800	13,200	3,000	2,670
12	2,000	1,940	1,270	1,690	e1,400	24,300	2,930	2,410	4,460	12,200	2,860	2,620
13	1,950	1,940	1,170	1,580	e1,410	18,600	2,730	2,650	4,800	13,200	2,580	2,730
14	2,000	1,970	1,100	1,090	e1,410	13,400	2,650	4,110	5,860	12,000	2,540	2,360
15	1,980	1,930	1,210	1,280	e1,410	9,910	2,610	4,100	5,670	9,700	2,540	2,580
16	1,940	1,920	1,500	1,370	e1,420	7,420	2,500	3,400	6,460	11,400	2,460	2,840
17	1,950	1,920	1,310	1,360	e1,610	6,670	2,350	3,060	14,400	10,700	2,360	2,640
18	1,940	1,960	1,140	1,320	1,820	5,680	2,050	3,360	12,900	8,290	2,560	2,710
19	1,900	2,000	1,260	1,140	2,050	4,430	2,190	6,090	15,400	7,430	2,500	2,760
20	1,780	1,960	1,210	1,240	2,120	3,740	1,910	7,090	14,300	6,650	2,570	2,550
21	1,810	1,940	1,200	1,230	3,010	3,660	2,180	4,700	12,900	6,140	3,030	2,390
22	1,770	1,680	1,210	907	4,200	3,400	2,100	3,330	11,900	5,710	3,210	2,230
23	1,810	1,630	1,240	1,200	3,610	3,380	2,090	3,600	9,960	5,330	3,710	2,270
24	1,820	1,430	1,220	1,140	2,660	3,220	2,590	3,860	8,620	11,000	12,500	2,160
25	1,830	1,210	1,230	1,200	2,310	3,080	2,010	5,330	7,910	21,700	27,000	1,670
26	1,900	1,220	1,210	1,200	1,730	2,890	2,570	4,010	6,390	12,200	15,900	1,640
27	1,900	1,290	1,210	e1,160	1,930	2,340	2,590	4,610	6,020	12,000	8,280	1,530
28	1,900	1,300	1,180	e1,200	1,710	3,560	2,760	5,440	8,680	9,980	22,300	1,450
29	1,890	1,280	1,190	e1,220	1,180	6,880	2,910	4,800	11,000	7,700	11,100	889
30	1,900	1,210	1,190	e1,230	---	5,990	3,270	4,480	7,900	6,550	5,360	1,540
31	1,820	---	1,180	e1,270	---	4,290	---	4,580	---	6,100	5,220	---
MEAN	1,889	1,757	1,271	1,280	1,772	9,619	2,848	3,737	7,480	11,690	6,152	2,797
MAX	2,010	2,000	1,780	1,760	4,200	29,000	4,280	7,090	15,400	24,600	27,000	4,570
MIN	1,770	1,210	1,100	907	1,180	1,870	1,910	1,940	4,140	5,330	2,360	889
AC-FT	116,200	104,600	78,130	78,720	102,000	591,400	169,500	229,800	445,100	719,000	378,300	166,500

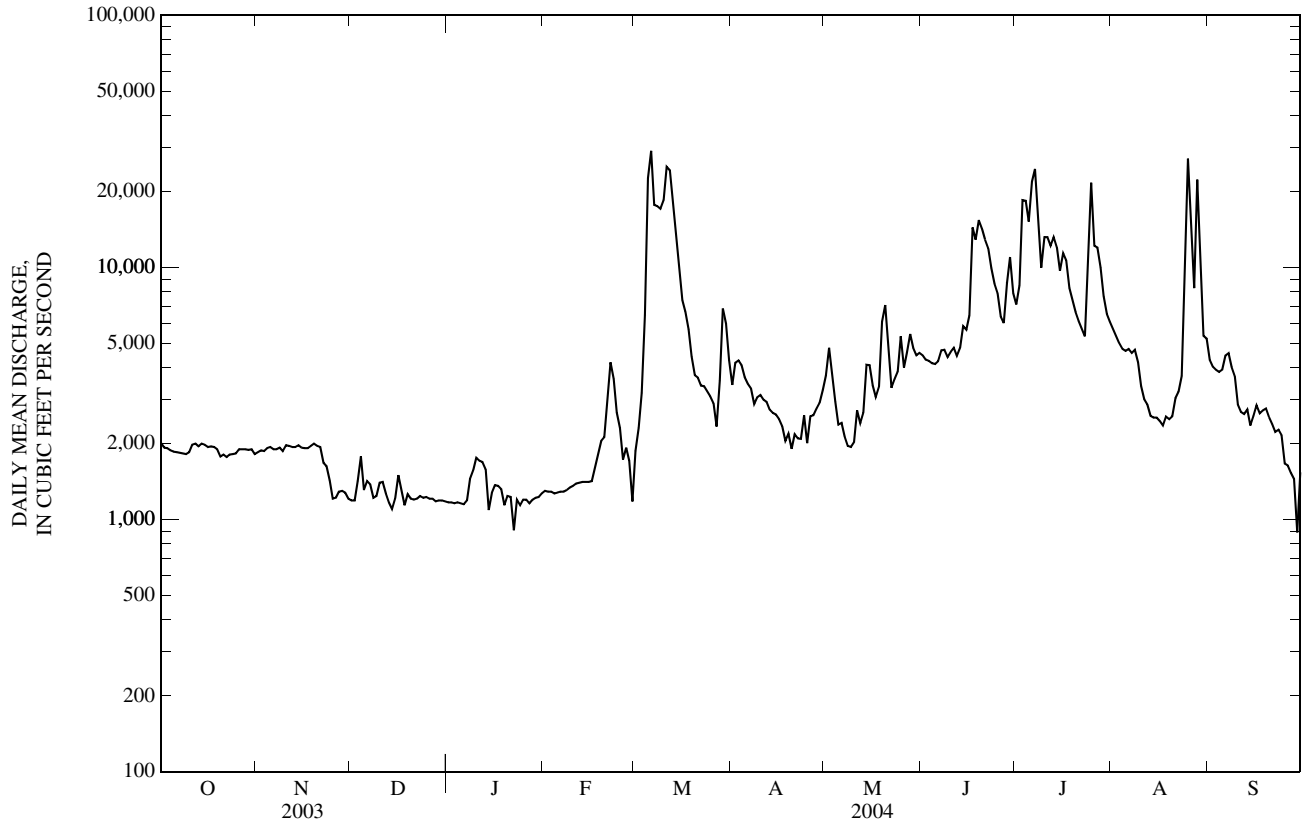
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2004, BY WATER YEAR (WY)

MEAN	5,651	4,563	3,578	2,869	4,452	7,093	9,483	10,960	14,810	11,590	6,885	6,498
MAX	51,630	42,320	21,940	15,990	20,800	36,560	43,570	43,270	78,870	133,200	66,680	44,660
(WY)	(1974)	(1974)	(1974)	(1973)	(1949)	(1973)	(1973)	(1993)	(1951)	(1951)	(1993)	(1951)
MIN	365	504	465	364	635	632	845	953	1,188	1,106	455	525
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1967)	(1956)	(1989)	(1989)	(1936)	(1934)	(1956)

06892350 KANSAS RIVER AT DESOTO, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1918 - 2004	
ANNUAL MEAN	1,906		4,379		7,375	
HIGHEST ANNUAL MEAN					30,570	1993
LOWEST ANNUAL MEAN					1,326	1956
HIGHEST DAILY MEAN	10,600	Apr 26	29,000	Mar 6	486,000	Jul 14, 1951
LOWEST DAILY MEAN	457	Feb 27	889	Sep 29	160	Oct 11, 1956
ANNUAL SEVEN-DAY MINIMUM	679	Feb 24	1,140	Jan 22	195	Oct 9, 1956
MAXIMUM PEAK FLOW			33,500	Mar 6	510,000	Jul 13, 1951
MAXIMUM PEAK STAGE			14.45	Mar 6	37.30	Jul 13, 1951
INSTANTANEOUS LOW FLOW			621	Sep 29	160	Oct 11, 1956
ANNUAL RUNOFF (AC-FT)	1,380,000		3,179,000		5,343,000	
10 PERCENT EXCEEDS	2,940		11,000		17,500	
50 PERCENT EXCEEDS	1,780		2,540		3,320	
90 PERCENT EXCEEDS	911		1,220		1,100	

e Estimated



06892350 KANSAS RIVER AT DESOTO, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-81, 2000 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1981, June 1999 to current year.
pH: June 1999 to current year.
WATER TEMPERATURE: October 1974 to September 1981, June 1999 to current year.
DISSOLVED OXYGEN: June 1999 to current year.
TURBIDITY (YSI 6026 sensor): June 1999 to current year.
TURBIDITY (YSI 6136 sensor): October 2003 to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,600 microsiemens/cm, Jan. 18, 1975 minimum, 120 microsiemens/cm, July 3, 2004.
pH: Maximum, 9.5 standard units, Aug. 10, 2003; minimum, 7.4 standard units, June 30, 1999.
WATER TEMPERATURE: Maximum, 34.8°C, Aug. 8, 2002; minimum, 0.0°C, Jan. 26, 2000.
DISSOLVED OXYGEN: Maximum, 21.7 mg/L, Nov. 7, 1999; minimum, 5.5 mg/L, June 13, 2003.
TURBIDITY (YSI 6026 sensor): Maximum, >1,560 FNU, Dec. 8, 2003; minimum, 3 FNU, Nov. 27, 2000.
TURBIDITY (YSI 6136 sensor): Maximum, >1,440 FNU, June 17, 2004; minimum, 7 FNU, Dec. 1, 2003.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,040 microsiemens/cm, Dec. 22; minimum, 120 microsiemens/cm, July 3.
pH: Maximum, 9.5 standard units, Oct. 8; minimum, 7.7 standard units, July 7.
WATER TEMPERATURE: Maximum, 31.9°C, July 22; minimum, 0.0°C, Dec. 10.
DISSOLVED OXYGEN: Maximum, 18.5 mg/L, Apr. 19; minimum, 4.9 mg/L, Sept. 16.
TURBIDITY(YSI 6026 sensor): Maximum, >1,500 FNU, June 17; minimum, 11 FNU, Dec. 8.
TURBIDITY(YSI 6026 sensor): Maximum, 1,440 FNU, June 17; minimum, 6.7 FNU, Dec. 1.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	627	616	622	863	832	840	983	967	973
2	---	---	---	631	625	629	891	863	883	984	953	969
3	637	618	628	630	626	628	872	832	856	964	952	957
4	647	637	645	639	625	633	832	795	812	---	---	---
5	656	646	653	644	636	640	795	718	748	---	---	---
6	662	653	659	645	636	640	809	732	772	---	---	---
7	668	655	662	652	645	649	832	809	827	---	---	---
8	662	643	656	656	648	653	834	829	831	---	---	---
9	675	638	660	655	647	651	858	814	840	---	---	---
10	659	646	656	649	646	648	---	---	---	---	---	---
11	648	628	639	670	649	654	---	---	---	---	---	---
12	638	620	631	694	670	687	---	---	---	---	892	---
13	641	620	634	682	657	665	---	---	---	892	834	864
14	653	641	648	670	659	666	---	---	---	909	880	---
15	670	634	658	673	670	671	---	---	---	914	887	899
16	669	627	638	671	662	668	---	---	---	894	882	888
17	813	669	761	665	651	658	---	---	---	901	883	889
18	791	595	680	651	634	641	---	---	---	944	901	927
19	595	550	562	642	635	639	---	---	---	---	942	---
20	564	550	556	642	633	638	---	---	---	---	---	---
21	571	563	566	651	642	648	---	---	---	---	---	---
22	590	570	581	657	648	654	1,040	1,010	---	---	---	---
23	608	588	599	673	614	647	1,020	984	1,010	---	---	---
24	610	595	605	728	673	694	984	959	972	---	---	---
25	616	606	612	800	728	772	959	946	951	---	---	---
26	609	603	606	825	800	813	962	952	958	---	---	---
27	620	608	615	864	825	844	965	954	960	---	---	---
28	625	609	619	868	847	858	966	950	959	---	---	---
29	626	618	622	855	845	850	951	940	946	---	---	---
30	634	622	628	846	832	839	973	950	965	---	---	---
31	630	618	626	---	---	---	968	957	960	---	---	---
MONTH	813	550	631	868	614	687	1,040	718	894	984	834	921

06892350 KANSAS RIVER AT DESOTO, 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	---	---	---	934	875	912	624	549	579	688	664	679
2	---	---	---	934	819	910	867	624	738	676	579	631
3	---	---	---	819	681	733	864	706	777	600	561	575
4	---	---	---	700	---	---	706	612	647	603	564	584
5	---	---	---	---	---	---	630	606	621	685	593	640
6	---	---	---	---	---	---	633	605	618	731	672	701
7	---	---	---	---	---	---	665	633	654	751	665	719
8	---	---	---	---	---	---	686	662	675	765	696	739
9	---	---	---	---	---	---	709	683	698	825	760	800
10	---	---	---	---	---	---	761	709	728	856	786	815
11	---	---	---	---	---	---	817	760	789	813	---	---
12	---	---	---	---	---	---	826	803	817	---	---	---
13	---	---	---	453	367	428	804	745	787	---	---	---
14	---	---	---	453	438	446	755	708	730	---	---	---
15	---	---	---	443	426	434	711	684	699	---	---	---
16	---	---	---	470	428	449	698	686	692	---	---	---
17	---	---	---	475	470	473	696	669	687	---	---	---
18	---	---	---	481	467	472	706	676	695	---	---	---
19	---	---	---	516	481	501	699	672	680	---	---	---
20	---	---	---	536	508	519	709	680	696	---	---	---
21	---	---	---	607	536	574	700	661	674	---	---	---
22	---	---	---	623	603	614	708	685	699	---	---	---
23	---	---	---	653	596	632	726	699	708	---	---	---
24	665	---	---	678	652	664	749	712	734	713	---	---
25	760	665	714	701	678	689	712	664	693	678	332	473
26	828	760	787	714	700	706	726	669	697	536	447	514
27	873	828	861	715	700	708	689	641	667	560	442	530
28	882	846	871	701	563	644	698	625	664	503	444	480
29	875	827	842	698	467	588	671	646	660	516	465	505
30	---	---	---	509	437	471	683	663	677	521	498	510
31	---	---	---	549	507	526	---	---	---	516	483	501
MONTH	882	665	815	934	367	595	867	549	696	856	332	612

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	519	484	505	241	186	210	438	426	431	406	385	393
2	531	501	515	291	121	269	460	436	447	418	383	394
3	520	502	513	302	120	251	474	458	463	423	404	412
4	518	508	515	289	231	271	482	474	477	435	416	425
5	528	514	520	---	---	---	496	480	487	428	388	397
6	537	525	532	---	---	---	489	439	449	420	379	393
7	553	532	542	366	---	---	475	440	456	417	360	385
8	554	507	534	372	333	349	462	378	437	397	364	380
9	508	469	483	370	349	358	403	352	380	423	397	412
10	473	431	451	397	364	378	461	402	441	537	418	499
11	441	418	431	366	330	345	573	454	541	554	517	542
12	476	439	451	438	340	389	619	564	595	562	542	547
13	494	475	485	438	409	420	645	619	634	568	530	548
14	507	472	493	418	390	402	655	633	642	651	541	613
15	507	476	492	428	389	410	673	653	667	651	628	640
16	505	462	486	427	278	365	710	673	690	637	558	600
17	488	302	379	431	316	399	749	707	732	584	559	571
18	361	264	290	444	431	439	757	711	731	602	570	585
19	358	262	311	494	444	472	718	678	702	592	579	586
20	380	322	349	526	494	509	691	654	670	596	562	586
21	409	368	387	547	525	536	658	520	597	---	576	---
22	407	366	382	604	544	574	529	493	509	---	577	---
23	461	383	417	622	604	615	514	412	463	619	577	603
24	464	437	451	633	155	485	426	189	266	635	603	623
25	455	419	439	335	155	229	298	223	248	654	624	644
26	443	416	424	349	294	320	289	251	273	689	645	668
27	460	424	447	---	---	---	309	270	296	751	652	697
28	439	389	415	346	---	---	279	127	177	797	751	782
29	413	139	188	385	342	362	394	219	294	797	744	769
30	186	154	165	428	383	412	486	392	443	798	752	781
31	---	---	---	437	420	430	484	382	411	---	---	---
MONTH	554	139	433	633	120	392	757	127	485	798	360	553

06892350 KANSAS RIVER AT DESOTO, 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	9.0	8.8	8.8	8.8	8.7	8.7	8.7	8.6	8.6	8.7	8.4	8.5
2	9.0	8.9	8.9	8.7	8.6	8.6	8.7	8.6	8.7	8.6	8.2	8.4
3	9.0	8.9	8.9	8.6	8.5	8.6	8.8	8.6	8.7	8.7	8.5	8.6
4	9.1	9.0	9.0	8.6	8.4	8.6	8.9	8.6	8.7	8.8	8.6	8.7
5	9.2	9.0	9.1	8.6	8.6	8.6	8.8	8.6	8.7	---	---	---
6	9.3	9.0	9.1	8.7	8.6	8.6	8.8	8.6	8.8	---	---	---
7	9.4	9.2	9.3	8.6	8.6	8.6	8.8	8.7	8.8	---	---	---
8	9.5	9.3	9.4	8.7	8.6	8.6	8.7	8.6	8.7	---	---	---
9	9.5	9.2	9.3	8.7	8.6	8.6	8.8	8.4	8.6	---	---	---
10	9.5	9.1	9.3	8.6	8.6	8.6	---	---	---	---	---	---
11	9.4	9.1	9.3	8.6	8.5	8.5	---	---	---	---	---	---
12	9.4	9.2	9.2	8.6	8.4	8.5	---	---	---	---	---	---
13	9.3	9.0	9.2	8.6	8.6	8.6	---	---	---	---	---	---
14	9.3	9.0	9.2	8.7	8.6	8.6	---	---	---	---	---	---
15	9.2	9.1	9.2	8.6	8.6	8.6	---	---	---	---	---	---
16	9.2	8.9	9.1	8.7	8.6	8.6	---	---	---	---	---	---
17	9.2	9.0	9.1	8.7	8.6	8.6	---	---	---	---	---	---
18	9.1	8.8	8.9	8.6	8.5	8.6	---	---	---	---	---	---
19	8.8	8.5	8.6	8.7	8.5	8.6	---	---	---	---	---	---
20	8.5	8.4	8.5	8.7	8.6	8.7	---	---	---	---	---	---
21	8.6	8.4	8.6	8.8	8.6	8.7	---	---	---	---	---	---
22	8.7	8.6	8.6	8.8	8.7	8.8	---	---	---	---	---	---
23	8.9	8.6	8.7	8.8	8.7	8.7	8.6	8.5	8.5	---	---	---
24	9.1	8.8	8.9	8.8	8.7	8.8	8.6	8.5	8.6	---	---	---
25	9.2	9.0	9.1	8.7	8.7	8.7	8.6	8.6	8.6	---	---	---
26	9.3	9.0	9.1	8.7	8.6	8.6	8.6	8.5	8.5	---	---	---
27	9.2	9.1	9.2	8.7	8.6	8.7	8.5	8.3	8.4	---	---	---
28	9.1	8.9	9.0	8.7	8.7	8.7	8.6	8.4	8.5	---	---	---
29	9.0	8.8	8.9	8.7	8.6	8.7	8.8	8.6	8.7	---	---	---
30	8.8	8.7	8.8	8.7	8.4	8.6	8.7	8.6	8.7	---	---	---
31	8.9	8.7	8.8	---	---	---	8.7	8.6	8.7	---	---	---
MAX	9.5	9.3	9.4	8.8	8.7	8.8	8.9	8.7	8.8	8.8	8.6	8.7
MIN	8.5	8.4	8.5	8.6	8.4	8.5	8.5	8.3	8.4	8.6	8.2	8.4

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	8.4	8.3	8.4	8.4	8.2	8.3	9.0	8.7	8.8
2	---	---	---	8.5	8.4	8.4	8.8	8.4	8.6	8.8	8.2	8.3
3	---	---	---	8.4	8.4	8.4	8.7	8.4	8.5	8.4	8.2	8.2
4	---	---	---	8.4	7.8	8.3	8.4	8.2	8.3	8.6	8.3	8.4
5	---	---	---	8.1	7.8	8.0	8.5	8.3	8.4	9.0	8.5	8.7
6	---	---	---	8.0	7.9	7.9	8.5	8.3	8.4	9.0	8.6	8.9
7	---	---	---	7.9	7.9	7.9	8.7	8.4	8.5	8.8	8.5	8.7
8	---	---	---	7.9	7.9	7.9	8.9	8.5	8.6	9.0	8.5	8.7
9	---	---	---	8.0	7.9	8.0	8.9	8.8	8.8	8.8	8.4	8.6
10	---	---	---	8.0	8.0	8.0	8.9	8.7	8.8	8.9	8.2	8.6
11	---	---	---	8.1	8.0	8.1	8.9	8.8	8.8	9.0	8.1	8.7
12	---	---	---	8.1	8.1	8.1	8.9	8.7	8.8	8.8	8.5	8.7
13	---	---	---	8.1	8.1	8.1	9.0	8.7	8.8	8.7	8.2	8.4
14	---	---	---	8.1	8.1	8.1	8.9	8.7	8.8	8.6	8.0	8.2
15	---	---	---	8.1	8.1	8.1	8.9	8.6	8.7	8.7	8.1	8.3
16	---	---	---	8.1	8.1	8.1	9.0	8.6	8.8	9.0	8.4	8.6
17	---	---	---	8.1	8.1	8.1	9.1	8.7	8.8	9.0	8.7	8.8
18	---	---	---	8.1	8.1	8.1	9.0	8.8	8.9	8.7	8.3	8.6
19	---	---	---	8.1	8.1	8.1	9.2	8.6	8.9	8.5	8.0	8.3
20	---	---	---	8.2	8.1	8.1	9.1	8.7	8.9	8.0	8.0	8.0
21	---	---	---	8.4	8.2	8.2	9.1	8.3	8.9	8.4	8.0	8.2
22	---	---	---	8.6	8.4	8.4	9.0	8.7	8.9	8.6	8.2	8.3
23	---	---	---	8.8	8.5	8.6	9.0	8.6	8.8	8.8	8.6	8.6
24	---	---	---	8.8	8.6	8.7	9.0	8.6	8.8	9.0	8.6	8.8
25	8.2	8.2	8.2	8.9	8.6	8.7	9.2	8.7	8.9	8.9	7.8	8.2
26	8.3	8.2	8.3	9.0	8.7	8.8	9.1	8.6	8.9	8.6	8.3	8.4
27	8.4	8.3	8.3	8.9	8.8	8.8	9.2	8.6	8.9	8.7	8.4	8.5
28	8.4	8.3	8.4	8.8	8.5	8.7	9.1	8.7	8.9	8.6	8.2	8.4
29	8.3	8.3	8.3	8.7	8.0	8.2	9.2	8.9	9.0	8.9	8.4	8.6
30	---	---	---	8.1	7.9	8.0	9.0	8.8	8.9	9.0	8.5	8.7
31	---	---	---	8.2	8.1	8.1	---	---	---	9.0	8.6	8.8
MAX	8.4	8.3	8.4	9.0	8.8	8.8	9.2	8.9	9.0	9.0	8.7	8.9
MIN	8.2	8.2	8.2	7.9	7.8	7.9	8.4	8.2	8.3	8.0	7.8	8.0

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.1	8.6	8.8	8.2	8.1	8.2	8.3	8.2	8.2	8.6	8.3	8.5
2	8.9	8.3	8.5	8.2	7.8	8.2	8.5	8.2	8.3	8.4	8.2	8.4
3	8.5	8.2	8.3	7.9	7.8	7.8	8.8	8.3	8.5	8.5	8.2	8.4
4	8.8	8.3	8.5	7.9	7.8	7.9	9.0	8.5	8.7	8.5	8.2	8.4
5	8.8	8.4	8.6	8.0	7.9	8.0	9.1	8.7	8.9	8.5	8.2	8.4
6	8.7	8.4	8.6	8.0	7.8	7.8	9.2	8.8	9.0	8.4	8.2	8.3
7	8.6	8.3	8.5	7.8	7.7	7.8	9.2	8.9	9.0	8.4	8.2	8.3
8	8.4	8.2	8.2	7.9	7.8	7.9	9.0	8.5	8.7	8.4	8.2	8.3
9	8.2	8.1	8.1	8.0	7.9	8.0	8.8	8.3	8.5	8.5	8.2	8.3
10	8.2	8.1	8.2	8.1	8.0	8.0	9.1	8.6	8.7	8.8	8.2	8.5
11	8.1	8.1	8.1	8.0	8.0	8.0	9.1	8.8	9.0	8.8	8.2	8.5
12	8.2	8.1	8.1	8.1	8.0	8.1	9.1	8.7	8.9	8.8	8.3	8.6
13	8.3	8.2	8.2	8.1	8.1	8.1	9.0	8.7	8.9	8.8	8.3	8.6
14	8.3	8.2	8.2	8.1	8.1	8.1	9.0	8.7	8.9	8.9	8.3	8.6
15	8.2	8.1	8.2	8.2	8.1	8.1	9.0	8.7	8.9	8.8	8.2	8.5
16	8.3	8.2	8.2	8.2	7.9	8.1	8.9	8.6	8.8	9.2	8.2	8.7
17	8.2	7.8	7.8	8.2	8.0	8.1	8.8	8.6	8.8	9.1	8.7	8.9
18	7.9	7.8	7.9	8.3	8.2	8.2	8.9	8.6	8.8	9.2	8.8	9.0
19	7.9	7.8	7.9	8.3	8.3	8.3	8.8	8.5	8.7	9.0	8.6	8.9
20	8.1	7.9	8.0	8.4	8.3	8.3	8.8	8.4	8.6	9.1	8.6	8.9
21	8.1	8.1	8.1	8.4	8.3	8.4	8.7	8.5	8.6	9.0	---	---
22	8.1	8.1	8.1	8.6	8.3	8.4	8.9	8.5	8.7	8.9	---	---
23	8.3	8.1	8.2	8.6	8.4	8.5	8.9	8.4	8.7	8.9	8.2	8.6
24	8.3	8.2	8.3	8.5	7.8	8.4	8.8	8.0	8.2	8.6	8.5	8.5
25	8.4	8.3	8.4	7.9	7.7	7.8	8.0	7.9	8.0	8.5	8.3	8.4
26	8.5	8.3	8.4	8.0	7.9	7.9	8.0	7.9	8.0	8.3	8.0	8.2
27	8.4	8.3	8.4	8.1	8.0	8.0	8.1	8.0	8.1	8.7	8.0	8.3
28	8.3	8.1	8.2	8.0	8.0	8.0	8.1	7.7	7.9	8.7	8.0	8.5
29	8.1	7.9	8.0	8.1	8.0	8.1	8.1	7.7	7.8	8.5	8.0	8.3
30	8.2	8.0	8.1	8.2	8.1	8.1	8.6	8.0	8.2	8.8	8.2	8.5
31	---	---	---	8.2	8.1	8.2	8.6	8.3	8.5	---	---	---
MAX	9.1	8.6	8.8	8.6	8.4	8.5	9.2	8.9	9.0	9.2	8.8	9.0
MIN	7.9	7.8	7.8	7.8	7.7	7.8	8.0	7.7	7.8	8.3	8.0	8.2

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.0	13.3	15.1	12.3	10.8	11.2	6.4	3.9	5.1	7.2	4.3	5.5
2	16.8	13.2	15.4	11.1	10.4	10.8	5.1	4.1	4.5	9.4	6.1	7.7
3	16.7	14.7	15.7	13.3	10.2	11.5	4.5	4.1	4.3	7.7	4.1	6.0
4	18.6	14.5	16.5	12.8	9.7	11.2	4.7	3.9	4.2	4.1	1.0	2.5
5	20.0	16.4	18.1	9.7	7.7	8.7	3.9	2.3	2.7	1.0	0.0	---
6	21.1	17.1	19.2	8.7	6.3	7.5	3.8	2.3	2.9	---	---	---
7	21.7	18.3	20.0	8.1	5.4	6.9	4.7	1.8	3.2	---	---	---
8	21.6	18.9	20.5	7.5	5.6	6.2	5.6	3.2	4.4	---	---	---
9	22.0	19.8	20.8	8.0	5.7	6.7	5.3	1.3	4.7	---	---	---
10	21.3	19.3	20.4	8.4	6.6	7.3	1.3	0.0	---	---	---	---
11	20.7	18.3	19.6	10.2	8.4	9.3	---	---	---	---	---	---
12	19.8	16.4	18.1	10.8	8.9	9.8	---	---	---	2.2	---	---
13	18.2	15.5	16.8	9.6	7.6	8.7	---	---	---	2.9	0.0	1.3
14	17.6	14.7	16.2	8.9	7.9	8.5	---	---	---	4.8	0.2	---
15	17.7	13.9	16.0	9.6	8.2	8.7	---	---	---	3.4	0.4	2.0
16	16.3	14.1	15.0	10.7	7.7	9.2	---	---	---	4.0	2.3	3.4
17	15.6	12.4	14.1	11.8	9.5	10.4	---	---	---	4.4	3.1	3.9
18	16.6	12.6	14.7	12.2	10.8	11.6	---	---	---	3.1	0.0	2.0
19	17.7	13.8	16.0	12.4	9.6	11.0	---	---	---	1.0	0.0	0.2
20	19.6	15.7	17.7	12.2	9.7	11.1	---	---	---	---	0.0	---
21	19.6	16.5	18.3	11.6	9.3	10.4	---	---	---	---	---	---
22	20.1	16.8	18.6	10.3	8.9	9.4	4.6	---	---	---	---	---
23	19.8	17.3	18.7	9.1	3.4	6.6	4.0	2.3	3.2	---	---	---
24	19.5	16.5	18.0	4.7	2.0	3.2	3.8	1.0	2.3	---	---	---
25	17.5	14.6	15.6	4.0	2.3	3.2	4.4	1.1	2.7	---	---	---
26	14.6	12.4	13.5	4.3	2.2	3.3	5.5	2.4	3.9	---	---	---
27	13.9	11.2	12.8	3.8	2.4	3.1	8.2	5.5	6.9	---	---	---
28	13.9	12.3	13.1	3.2	1.0	2.1	7.5	5.4	6.5	---	---	---
29	14.6	11.4	13.0	4.4	0.8	2.5	6.7	4.3	5.4	---	---	---
30	15.8	12.7	14.2	6.1	2.8	4.3	6.2	3.3	4.7	---	---	---
31	14.2	12.3	13.1	---	---	---	5.9	3.4	4.6	---	---	---
MONTH	22.0	11.2	16.6	13.3	0.8	7.8	8.2	0.0	4.2	9.4	0.0	3.5

06892350 KANSAS RIVER AT DESOTO, 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	---	---	---	7.5	6.8	7.2	15.6	10.7	13.3	18.1	14.6	16.1
2	---	---	---	8.3	5.8	7.0	16.4	11.5	14.1	17.0	14.2	15.6
3	---	---	---	7.4	6.0	6.8	16.5	12.3	14.5	18.7	13.1	15.7
4	---	---	---	7.0	6.3	6.6	17.1	12.3	14.8	18.6	14.8	16.7
5	---	---	---	7.0	6.3	6.8	16.4	12.8	14.8	22.9	16.2	19.4
6	---	---	---	6.8	5.8	6.3	18.3	13.7	15.9	25.4	19.6	22.3
7	---	---	---	7.6	6.5	7.1	18.8	15.3	17.0	27.7	22.0	24.6
8	---	---	---	8.1	6.9	7.5	19.0	14.9	17.0	28.3	23.2	25.5
9	---	---	---	7.8	7.0	7.4	17.1	14.6	15.4	27.1	23.8	25.1
10	---	---	---	7.8	7.0	7.4	14.6	12.3	13.5	25.4	21.7	23.4
11	---	---	---	7.4	6.4	6.8	15.4	10.6	12.8	26.6	22.2	24.2
12	---	---	---	6.9	6.0	6.5	14.1	11.0	12.7	25.2	22.4	23.7
13	---	---	---	6.8	6.3	6.6	16.1	11.1	13.4	24.0	17.9	20.6
14	---	---	---	8.2	6.5	7.3	17.3	11.7	14.4	19.9	16.5	18.1
15	---	---	---	7.8	7.0	7.5	18.5	13.6	15.9	20.7	15.6	18.1
16	---	---	---	7.7	6.5	7.0	22.5	15.9	18.9	22.5	17.1	19.8
17	---	---	---	9.1	6.6	7.7	24.5	19.0	21.4	24.3	19.4	21.7
18	---	---	---	11.1	7.6	9.2	22.0	19.0	20.1	23.2	20.4	21.9
19	---	---	---	12.8	8.1	10.5	23.4	18.1	20.4	23.8	20.9	22.4
20	---	---	---	14.5	11.8	12.9	21.8	19.4	20.5	26.2	21.9	23.9
21	---	---	---	12.9	9.6	11.3	22.8	17.8	20.0	28.5	23.5	25.8
22	---	---	---	12.8	9.3	10.9	19.9	15.5	17.3	27.5	23.9	25.7
23	---	---	---	13.8	10.1	11.8	16.4	14.7	15.5	28.2	24.0	25.9
24	4.0	---	---	13.8	12.0	12.9	16.3	14.6	15.3	27.6	23.8	25.8
25	6.0	2.9	4.2	15.6	13.8	14.6	18.9	13.4	15.8	25.5	22.2	23.1
26	7.6	2.4	4.9	19.1	14.8	16.7	18.7	14.9	16.7	22.7	21.3	22.1
27	7.6	3.8	5.8	17.8	16.4	17.1	20.4	14.9	17.6	25.4	21.0	23.0
28	8.4	5.2	6.9	17.5	15.2	16.1	21.6	17.0	19.2	26.7	21.4	24.1
29	8.9	6.6	7.7	16.1	14.1	15.3	20.0	17.4	18.3	27.2	22.9	25.0
30	---	---	---	14.1	12.4	13.6	18.7	15.8	17.4	26.2	23.5	24.8
31	---	---	---	15.0	10.6	12.7	---	---	---	25.3	21.6	23.4
MONTH	8.9	2.4	5.9	19.1	5.8	9.8	24.5	10.6	16.5	28.5	13.1	22.2

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.4	21.1	23.3	25.7	24.2	24.9	29.3	25.3	27.2	27.1	24.0	25.4
2	25.8	21.4	23.6	24.7	23.0	24.3	30.4	26.4	28.2	27.2	23.9	25.5
3	26.4	21.5	24.0	24.2	22.2	23.1	31.4	27.4	29.3	27.4	23.8	25.4
4	27.6	22.2	25.0	25.8	23.7	24.7	29.9	27.6	28.6	27.6	24.1	25.7
5	26.0	23.1	24.6	27.0	25.3	26.1	28.2	25.5	26.9	27.4	24.6	25.9
6	26.5	22.9	24.6	26.4	24.1	25.0	27.7	24.8	26.2	26.5	23.6	25.0
7	27.2	23.5	25.3	25.4	24.1	24.7	27.8	23.8	25.7	25.5	22.6	24.0
8	28.2	24.1	25.9	25.0	24.4	24.7	27.1	24.3	25.5	25.4	22.0	23.6
9	26.3	24.4	25.0	26.0	24.1	24.9	28.8	23.9	26.3	25.8	22.1	23.8
10	25.1	23.3	24.2	26.8	24.7	25.8	28.1	24.9	26.5	26.4	22.2	24.1
11	27.4	23.4	25.2	28.0	26.0	26.9	26.6	23.9	25.3	25.8	22.6	24.1
12	29.1	24.5	26.6	29.1	27.1	28.0	26.0	22.2	24.1	26.7	22.6	24.5
13	29.1	23.8	26.4	30.0	28.1	28.9	24.6	22.3	23.7	26.7	23.0	24.7
14	29.4	24.7	27.0	29.8	28.6	29.2	25.7	22.2	23.8	27.4	22.9	25.1
15	29.1	25.6	27.2	29.8	27.7	28.7	26.3	22.0	24.1	25.9	23.7	24.8
16	28.8	26.3	27.5	28.5	26.4	27.3	25.5	22.3	24.0	25.7	22.5	24.1
17	27.2	25.0	25.9	28.8	26.3	27.5	28.4	23.6	25.8	23.9	21.4	22.6
18	25.1	23.3	24.1	29.2	26.9	27.9	28.8	25.1	26.9	24.2	20.5	22.2
19	23.6	22.7	23.1	29.8	26.9	28.3	27.7	22.8	24.6	25.2	21.4	23.2
20	22.9	21.8	22.3	31.5	27.8	29.4	25.1	21.9	23.3	24.9	21.2	23.1
21	24.6	22.5	23.4	30.6	28.9	29.7	23.9	21.4	22.7	25.3	21.0	23.1
22	25.5	23.8	24.5	31.9	28.5	29.9	26.4	21.9	24.1	25.0	21.2	23.2
23	26.7	24.4	25.4	29.7	27.2	28.5	25.5	23.9	24.7	23.9	21.8	22.7
24	27.8	25.0	26.1	27.2	19.3	23.7	24.7	20.4	22.0	24.7	20.4	22.5
25	26.2	24.2	25.0	21.8	19.2	20.5	23.0	21.9	22.5	25.1	20.7	22.9
26	26.0	23.3	24.5	23.8	21.5	22.5	25.8	22.6	24.2	24.8	20.9	22.7
27	24.1	22.4	23.2	25.2	22.6	24.0	27.9	25.3	26.3	24.6	20.6	22.5
28	23.3	21.5	22.3	25.6	23.7	24.5	25.6	22.6	23.6	23.2	20.8	21.9
29	23.8	21.5	22.6	25.5	23.9	24.6	26.1	23.4	24.5	22.6	18.0	20.4
30	25.7	22.8	24.2	26.1	23.4	24.6	27.0	23.4	25.0	22.2	18.5	20.3
31	---	---	---	28.0	23.8	25.8	26.8	23.8	25.2	---	---	---
MONTH	29.4	21.1	24.7	31.9	19.2	26.1	31.4	20.4	25.2	27.6	18.0	23.6

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.4	9.7	10	11.8	10.2	10.9	13.9	13.1	13.4	14.3	12.5	13.1
2	---	9.7	---	11.8	10.6	11.1	13.6	12.8	13.1	14.0	11.8	12.7
3	11.4	9.5	10.3	11.9	10.5	11.1	13.7	12.6	13.1	14.6	11.6	12.7
4	12.6	10.3	11.3	11.2	10.4	10.7	14.8	12.8	13.6	15.0	12.5	13.6
5	13.4	10.1	11.5	11.5	10.5	11.0	14.7	13.2	14.0	---	---	---
6	14.5	10.0	11.9	12.0	11.2	11.6	15.1	13.9	14.4	---	---	---
7	14.7	9.7	11.6	12.4	11.5	11.9	14.9	13.8	14.4	---	---	---
8	---	---	---	12.6	11.5	12.1	14.4	13.5	13.9	---	---	---
9	---	---	---	12.5	11.9	12.2	13.9	12.9	13.2	---	---	---
10	11.7	7.2	8.9	12.1	11.3	11.8	---	---	---	---	---	---
11	10.4	7.2	8.5	11.6	10.9	11.3	---	---	---	---	---	---
12	12.4	7.8	9.8	11.3	10.6	11.0	---	---	---	---	---	---
13	11.9	8.2	9.6	11.9	10.9	11.4	---	---	---	15.6	15.1	15.3
14	12.2	8.2	9.9	12.0	11.2	11.5	---	---	---	15.2	14.3	14.8
15	11.9	8.5	9.9	11.8	11.1	11.4	---	---	---	15.7	14.5	15.2
16	11.1	8.6	9.6	11.9	11.0	11.4	---	---	---	15.1	14.3	14.7
17	12.4	8.9	10.3	11.4	10.3	10.9	---	---	---	14.9	13.8	14.3
18	10.8	9.1	9.8	11.2	10.1	10.6	---	---	---	16.1	14.2	15.3
19	9.8	8.7	9.2	11.7	10.4	10.9	---	---	---	16.5	16.0	16.2
20	9.4	8.3	8.8	12.0	10.5	11.1	---	---	---	---	---	---
21	9.6	8.2	8.8	12.1	10.4	11.2	---	---	---	---	---	---
22	10.1	8.2	9.0	12.1	10.7	11.3	---	---	---	---	---	---
23	10.7	8.2	9.2	12.7	11.0	11.9	14.2	12.5	13.2	---	---	---
24	11.5	8.4	9.7	13.7	12.7	13.3	14.4	13.2	13.7	---	---	---
25	12.4	8.7	10.2	13.8	13.1	13.5	14.5	13.5	13.9	---	---	---
26	13.2	9.6	11.1	13.8	13.3	13.5	14.1	12.5	13.5	---	---	---
27	13.6	10.0	11.5	14.1	13.3	13.7	13.0	11.6	12.3	---	---	---
28	12.4	9.8	11.0	14.6	13.8	14.2	14.6	11.5	12.8	---	---	---
29	11.9	9.9	10.7	14.4	13.5	14.1	14.9	12.0	13.3	---	---	---
30	11.7	9.7	10.4	13.8	13.2	13.5	14.5	12.4	13.2	---	---	---
31	11.7	9.6	10.5	---	---	---	14.4	12.4	13.3	---	---	---
MONTH	14.7	7.2	10.1	14.6	10.1	11.9	15.1	11.5	13.5	16.5	11.6	14.4

06892350 KANSAS RIVER AT DESOTO, 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	---	---	---	12.3	11.4	11.8	11.1	9.8	10.5	13.8	8.9	11.0
2	---	---	---	12.9	11.8	12.4	13.2	10.4	11.5	10.8	9.0	9.4
3	---	---	---	12.5	12.1	12.3	11.4	9.9	10.7	10.0	9.2	9.6
4	---	---	---	12.2	10.3	11.8	10.8	9.8	10.2	11.1	9.1	10
5	---	---	---	11.2	10.1	10.6	10.9	9.8	10.3	14.0	8.9	11.2
6	---	---	---	11.5	9.8	10.6	11.2	9.6	10.3	16.3	8.9	12.2
7	---	---	---	12.1	11.5	11.9	11.6	9.5	10.3	14.5	7.7	10.7
8	---	---	---	12.0	11.8	11.8	13.2	9.3	11.0	12.6	7.1	9.6
9	---	---	---	12.3	11.7	12.0	13.7	9.8	11.5	11.9	6.5	9.1
10	---	---	---	12.2	12.1	12.2	13.2	9.8	11.3	12.2	7.2	9.1
11	---	---	---	12.7	12.2	12.5	14.4	10.8	12.5	13.6	7.0	10.1
12	---	---	---	12.8	12.6	12.7	14.2	11.0	12.5	11.9	7.2	9.3
13	---	---	---	12.8	12.6	12.6	14.8	10.8	12.6	8.8	7.0	7.9
14	---	---	---	12.6	12.2	12.4	14.0	10.7	12.2	11.7	7.2	9.2
15	---	---	---	12.2	11.9	12.0	13.1	10.1	11.3	11.8	8.4	9.9
16	---	---	---	12.1	12.0	12.0	14.2	9.7	11.7	14.2	8.8	11.2
17	---	---	---	12.1	11.8	11.9	15.9	9.2	12.0	16.0	8.6	11.7
18	---	---	---	11.8	11.2	11.5	14.0	9.2	11.4	11.9	7.3	9.2
19	---	---	---	11.5	10.4	11.1	18.5	9.4	13.5	8.7	7.0	7.7
20	---	---	---	10.5	10.2	10.3	15.7	9.6	12.0	7.0	6.7	6.9
21	---	---	---	11.6	10.3	11.1	16.7	9.2	12.7	7.7	6.7	7.1
22	---	---	---	12.5	11.0	11.6	13.8	9.7	11.7	8.8	6.6	7.6
23	---	---	---	13.4	10.6	11.7	14.2	10.2	12.0	10.3	6.7	8.2
24	---	---	---	12.4	10.2	11.1	14.5	10.2	11.9	11.8	6.7	8.7
25	13.0	12.5	12.7	12.6	9.6	10.8	16.6	9.9	13.0	7.8	5.8	6.7
26	13.1	12.2	12.6	14.3	9.2	11.3	14.5	9.7	12.1	9.5	7.5	8.5
27	13.0	12.0	12.5	12.4	8.8	10.3	---	---	---	11.2	8.2	9.3
28	12.6	11.6	12.1	11.7	8.7	10	---	---	---	10.7	8.0	9.2
29	11.6	11.4	11.5	10.2	8.7	9.2	---	---	---	11.3	8.2	9.5
30	---	---	---	9.6	8.9	9.2	---	---	---	11.8	7.9	9.5
31	---	---	---	10.0	9.6	9.9	---	---	---	13.1	8.5	10.6
MONTH	13.1	11.4	12.3	14.3	8.7	11.4	18.5	9.2	11.6	16.3	5.8	9.4

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.9	8.9	11.1	8.0	7.6	7.8	8.2	7.6	7.9	8.8	7.1	7.8
2	10.3	8.8	9.4	8.0	6.2	7.8	9.1	7.6	8.1	8.4	7.2	7.7
3	10.2	8.7	9.4	7.5	6.1	6.8	10.6	7.5	8.8	8.7	7.2	7.9
4	11.6	8.8	9.9	7.7	7.5	7.6	10.6	7.3	8.6	8.8	7.2	7.9
5	10.9	8.8	9.7	7.7	7.4	7.6	12.9	7.6	10	8.7	7.1	7.8
6	11.7	8.7	9.9	7.9	7.2	7.4	14.1	8.2	10.9	8.6	7.1	7.8
7	10.7	8.6	9.5	7.6	7.2	7.4	13.6	8.5	11.0	9.0	7.4	8.1
8	8.8	8.1	8.5	8.0	7.5	7.7	10.9	8.3	9.3	9.0	7.7	8.3
9	8.4	8.1	8.2	8.2	8.0	8.0	11.3	8.0	9.4	8.9	7.6	8.2
10	8.5	8.0	8.3	8.3	8.1	8.2	14.1	8.2	10.6	11.0	7.3	8.9
11	8.2	7.7	8.0	8.1	7.8	8.0	13.7	8.4	10.9	10.6	7.1	8.7
12	8.2	7.7	8.0	8.0	7.7	7.8	13.1	8.5	10.6	10.5	7.1	8.6
13	8.6	8.1	8.4	7.9	7.6	7.8	12.3	8.4	10.2	10.0	6.8	8.2
14	8.5	7.8	8.1	7.9	7.6	7.7	13.3	8.4	10.6	10.2	6.1	7.9
15	7.9	7.5	7.8	---	---	---	13.7	8.6	10.9	8.9	5.2	6.6
16	7.9	7.5	7.7	---	---	---	12.4	8.3	10.1	10.8	4.9	7.5
17	7.5	6.5	7.1	---	---	---	11.2	8.1	9.6	10.1	5.5	7.8
18	7.8	7.2	7.6	---	---	---	11.4	7.4	9.5	---	---	---
19	7.9	7.6	7.8	---	---	---	11.5	---	---	---	---	---
20	8.2	7.8	8.0	7.6	---	---	12.0	8.2	9.8	---	---	---
21	8.1	7.7	7.9	7.7	6.8	7.2	9.9	8.7	9.4	---	---	---
22	---	---	---	8.5	6.8	7.5	9.8	7.8	---	---	---	---
23	---	---	---	8.2	6.9	7.5	---	---	---	---	---	---
24	---	---	---	8.0	6.8	7.5	---	---	---	---	---	---
25	---	---	---	7.9	7.0	7.4	---	---	---	---	---	---
26	---	---	---	8.1	7.8	8.0	7.1	6.8	7.0	---	---	---
27	---	---	---	8.0	7.7	7.8	7.3	6.7	6.8	---	---	---
28	---	---	---	7.7	7.4	7.6	7.2	5.3	5.8	---	---	---
29	8.1	7.8	7.9	7.7	7.5	7.5	7.0	5.5	6.2	---	---	---
30	8.0	7.8	7.9	7.9	7.6	7.7	9.0	6.9	7.7	---	---	---
31	---	---	---	7.9	7.7	7.8	8.6	7.2	7.8	---	---	---
MONTH	13.9	6.5	8.5	8.5	6.1	7.6	14.1	5.3	9.1	11.0	4.9	8.0

06892350 KANSAS RIVER AT DESOTO, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING A 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	230	180	190	100	81	90	21	15	17	23	14	17
2	180	140	160	89	70	78	29	12	17	20	14	17
3	160	140	150	76	68	71	47	13	24	30	16	24
4	150	130	140	96	70	81	46	24	31	34	24	30
5	140	120	130	100	72	87	50	29	42	---	---	---
6	150	130	140	79	60	68	54	18	33	---	---	---
7	150	130	140	68	53	59	19	13	16	---	---	---
8	160	130	140	64	53	57	14	11	13	---	---	---
9	160	120	140	60	49	54	25	11	19	---	---	---
10	140	110	120	64	53	57	---	---	---	---	---	---
11	160	130	140	74	58	63	---	---	---	---	---	---
12	160	130	140	81	69	75	---	---	---	---	---	---
13	140	120	130	86	64	74	---	---	---	36	23	29
14	160	140	150	73	50	60	---	---	---	35	17	25
15	160	140	150	66	46	54	---	---	---	37	17	25
16	170	140	150	58	44	50	---	---	---	21	17	19
17	150	120	130	70	51	57	---	---	---	35	20	25
18	140	130	130	90	65	74	---	---	---	27	19	23
19	160	140	150	97	78	86	---	---	---	---	---	---
20	160	140	150	91	64	77	---	---	---	---	---	---
21	140	130	140	85	62	71	---	---	---	---	---	---
22	140	110	130	74	50	60	---	---	---	---	---	---
23	130	110	120	68	48	56	26	14	21	---	---	---
24	130	110	120	52	27	39	33	16	22	---	---	---
25	130	120	130	30	24	27	16	13	15	---	---	---
26	120	110	120	36	24	28	14	11	13	---	---	---
27	110	94	100	46	25	31	19	13	17	---	---	---
28	110	92	97	27	19	21	25	17	22	---	---	---
29	110	92	97	22	17	20	30	21	25	---	---	---
30	100	95	99	20	14	17	32	18	25	---	---	---
31	110	92	100	---	---	---	31	14	19	---	---	---
MONTH	230	92	130	100	14	58	54	11	22	37	14	23

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	90	56	68	240	140	170	180	110	130
2	---	---	---	110	55	78	150	130	140	430	170	280
3	---	---	---	140	96	110	200	150	170	360	170	260
4	---	---	---	>1,400	100	>500	230	180	200	170	91	120
5	---	---	---	>1,400	1,260	>1,400	200	140	170	92	69	78
6	---	---	---	>1,400	1,390	>1,400	150	120	130	88	76	82
7	---	---	---	>1,400	1,020	>1,330	130	110	120	80	60	71
8	---	---	---	1,210	910	1,060	130	110	120	60	44	50
9	---	---	---	1,050	590	730	120	100	110	48	37	41
10	---	---	---	850	590	740	120	110	120	56	34	39
11	---	---	---	720	430	550	120	97	100	89	55	70
12	---	---	---	440	300	360	100	85	95	69	51	60
13	---	---	---	310	230	260	100	84	91	99	50	60
14	---	---	---	240	190	210	110	83	96	120	79	100
15	---	---	---	240	200	220	110	89	99	120	91	100
16	---	---	---	240	190	210	110	96	100	94	73	81
17	---	---	---	200	170	180	120	100	110	90	74	80
18	---	---	---	190	150	170	110	81	92	110	77	88
19	---	---	---	170	140	160	87	73	81	380	110	220
20	---	---	---	150	100	130	78	50	60	650	380	540
21	---	---	---	110	83	93	67	49	58	410	160	240
22	---	---	---	85	72	78	51	41	47	160	130	140
23	---	---	---	84	71	78	69	42	50	150	120	140
24	---	190	---	95	78	83	71	62	66	130	110	110
25	190	120	140	95	83	89	67	49	57	1,460	130	880
26	120	60	85	94	81	87	81	63	72	600	140	250
27	73	45	55	82	70	75	83	66	74	340	130	180
28	49	39	44	300	72	150	110	77	89	450	170	270
29	66	34	46	870	200	510	110	90	97	170	160	170
30	---	---	---	860	410	600	140	100	120	180	160	170
31	---	---	---	440	230	320	---	---	---	170	150	160
MONTH	190	34	74	1,400	55	390	240	41	100	1,460	34	170

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	160	140	150	230	180	200	190	150	170	130	82	110
2	290	150	220	1,470	180	340	160	130	140	110	83	96
3	290	210	250	1,480	630	970	130	110	120	100	74	86
4	210	160	190	660	540	590	120	100	110	90	67	78
5	170	140	160	640	370	510	100	85	95	85	63	73
6	160	140	150	950	280	600	91	80	85	110	76	93
7	190	150	160	960	610	790	95	86	91	100	82	96
8	300	190	230	1,080	480	820	120	82	91	98	77	87
9	330	290	310	520	260	360	180	75	110	92	54	78
10	390	280	310	460	260	320	82	66	73	72	38	51
11	400	320	370	520	320	450	74	47	63	59	37	48
12	360	290	330	320	210	250	59	46	52	54	36	45
13	310	260	290	240	220	230	54	36	42	55	33	45
14	360	280	310	250	220	230	45	37	41	50	29	38
15	450	280	370	260	---	---	44	36	39	58	33	45
16	360	250	270	660	250	410	45	36	40	59	38	47
17	>1,500	350	>1,250	520	340	390	43	35	39	58	36	46
18	>1,500	850	>1,300	350	290	310	---	35	---	76	41	59
19	1,280	810	1,020	300	210	250	---	40	---	69	40	57
20	1,480	390	990	220	170	190	55	42	48	68	41	50
21	430	340	390	190	150	160	120	50	76	77	---	---
22	370	250	320	150	130	140	79	65	71	79	52	59
23	250	170	190	140	110	120	100	66	73	91	47	68
24	180	160	160	1,150	110	400	1,160	78	850	98	67	82
25	180	150	160	1,070	390	640	>1,480	820	>1,250	92	55	70
26	180	130	150	1,100	540	870	1,150	470	780	74	50	65
27	170	140	150	800	390	500	480	240	330	69	51	59
28	420	160	260	450	260	340	>1,480	300	>1,190	---	---	---
29	890	420	700	280	200	220	970	280	460	61	39	46
30	480	220	310	210	190	200	300	170	230	70	40	53
31	---	---	---	210	180	190	350	120	190	---	---	---
MONTH	1,500	130	380	1,480	110	400	1,480	35	240	130	29	65

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

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	120	110	110	82	58	70	9.9	6.7	8.0	---	---	---
2	110	90	100	73	55	64	---	7.0	---	---	---	---
3	97	88	93	68	54	62	30	7.6	15	---	---	---
4	93	83	89	74	46	---	30	15	19	---	---	---
5	88	79	83	62	45	53	42	20	28	---	---	---
6	95	87	90	48	37	41	37	12	21	---	---	---
7	94	86	90	42	33	36	17	8.8	12	---	---	---
8	100	88	92	41	31	35	14	7.0	9.4	---	---	---
9	100	83	91	37	31	33	20	7.0	13	---	---	---
10	96	72	82	40	32	35	---	15	---	---	---	---
11	92	83	88	45	37	40	---	---	---	---	---	---
12	95	79	84	52	43	47	---	---	---	---	---	---
13	82	69	75	52	40	45	---	---	---	---	---	---
14	89	78	82	45	32	37	---	---	---	---	---	---
15	---	81	---	40	30	34	---	---	---	---	---	---
16	110	87	94	37	28	32	---	---	---	---	---	---
17	90	80	84	47	33	37	---	---	---	---	---	---
18	89	80	85	58	43	49	---	---	---	---	---	---
19	100	88	96	61	49	54	---	---	---	---	---	---
20	100	85	93	54	38	47	---	---	---	---	---	---
21	88	78	83	58	36	44	---	---	---	---	---	---
22	87	75	81	47	30	36	---	---	---	---	---	---
23	83	77	80	41	28	33	---	---	---	---	---	---
24	84	76	80	32	16	23	---	---	---	---	---	---
25	89	82	85	21	12	15	---	---	---	---	---	---
26	90	80	86	22	10	14	---	---	---	---	---	---
27	98	82	88	24	11	16	---	---	---	---	---	---
28	100	83	92	15	10	12	---	---	---	---	---	---
29	100	72	89	12	9.0	10	---	---	---	---	---	---
30	88	73	80	11	7.8	8.9	---	---	---	---	---	---
31	89	77	82	---	---	---	---	---	---	---	---	---
MONTH	120	69	88	82	7.8	37	42	6.7	16	---	---	---

06892350 KANSAS RIVER AT DESOTO, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6136—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	---	---	---	---	---	---	150	92	110	110	78	90
2	---	---	---	---	---	---	100	86	93	280	110	190
3	---	---	---	---	---	---	130	99	110	240	110	170
4	---	---	---	---	---	---	150	120	130	110	63	81
5	---	---	---	---	---	---	120	96	110	63	50	54
6	---	---	---	---	---	---	100	83	88	63	53	58
7	---	---	---	---	---	---	90	79	84	55	43	50
8	---	---	---	---	---	---	88	77	80	43	33	37
9	---	---	---	---	---	---	80	73	76	37	28	31
10	---	---	---	---	---	---	83	76	81	41	25	28
11	---	---	---	---	---	---	82	67	72	62	41	50
12	---	---	---	---	---	---	73	59	67	48	38	44
13	---	---	---	---	---	---	70	61	64	75	37	47
14	---	---	---	---	---	---	75	---	---	81	56	69
15	---	---	---	---	---	---	---	65	---	82	65	72
16	---	---	---	---	---	---	76	68	72	66	55	58
17	---	---	---	---	---	---	81	72	77	67	53	58
18	---	---	---	---	---	---	77	56	64	80	58	65
19	---	---	---	---	---	---	60	53	56	260	75	150
20	---	---	---	---	---	---	54	36	42	480	260	380
21	---	---	---	---	---	---	47	35	40	290	120	190
22	---	---	---	---	---	---	35	28	32	160	110	130
23	---	---	---	54	48	51	46	28	33	170	86	120
24	---	---	---	62	51	55	48	41	44	90	77	83
25	---	---	---	64	56	60	44	33	38	990	89	580
26	---	---	---	63	56	59	54	44	49	410	100	170
27	---	---	---	57	49	51	57	44	51	240	89	130
28	---	---	---	190	49	95	77	54	62	310	120	190
29	---	---	---	550	130	330	76	65	68	120	110	120
30	---	---	---	570	260	370	95	72	87	120	110	120
31	---	---	---	260	150	200	---	---	---	120	110	110
MONTH	---	---	---	570	48	140	150	28	71	990	25	120

06892350 KANSAS RIVER AT DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	110	97	100	150	120	130	150	110	130	91	63	77
2	240	110	170	1,000	120	230	140	100	120	78	63	71
3	240	150	180	1,020	430	640	120	90	100	67	54	61
4	160	130	140	450	380	410	110	80	96	64	47	57
5	130	110	120	450	250	350	91	---	---	60	46	53
6	150	120	140	590	200	410	---	---	---	76	55	66
7	170	140	150	620	450	550	---	---	---	74	60	66
8	250	170	200	720	340	560	---	---	---	67	52	58
9	280	240	260	340	180	250	120	56	80	60	45	52
10	280	210	240	300	180	220	58	49	53	50	32	39
11	310	240	280	350	220	310	56	35	46	45	31	38
12	250	200	230	240	150	180	44	35	40	42	31	36
13	220	190	200	160	150	150	42	28	32	41	28	36
14	210	---	---	170	150	160	34	29	31	39	24	31
15	160	130	---	170	---	---	32	27	30	42	29	36
16	150	110	140	400	170	270	32	26	29	45	32	39
17	1,440	100	920	320	230	260	32	26	29	45	31	37
18	1,180	570	910	230	190	210	36	28	33	61	36	44
19	790	530	650	200	150	180	37	27	31	72	37	46
20	1,020	270	640	150	120	130	41	32	37	---	---	---
21	290	230	260	130	100	110	94	39	58	---	---	---
22	240	160	210	100	91	95	59	53	56	---	---	---
23	170	120	140	94	76	82	81	54	60	---	---	---
24	160	120	140	690	74	260	790	62	580	---	---	---
25	150	110	130	630	260	420	1,160	570	870	---	---	---
26	---	---	---	720	360	580	770	310	490	---	---	---
27	---	---	---	530	270	350	310	170	220	---	---	---
28	290	120	180	310	180	230	1,090	220	730	---	---	---
29	580	290	460	190	130	150	580	200	300	---	---	---
30	310	150	210	160	140	150	200	120	160	---	---	---
31	---	---	---	160	130	140	220	88	130	---	---	---
MONTH	1,440	97	280	1,020	74	270	1,160	26	170	91	24	50

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS

LOCATION.--Lat 38°57'24", long 94°58'25", in SW ¼ SW ¼ SE ¼ sec.33, T.12 S., R.22 E., Johnson County, Hydrologic Unit 10270104, on left downstream side of 95th Street and 1 mi south of DeSoto, and at mile 2.8.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--53.40 mi^2.

PERIOD OF RECORD.--April to September 2003.

GAGE.--Water-stage recorder. Datum of gage is 766.01 ft above NGVD of 1988 (Johnson County, Kansas, bench mark).

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

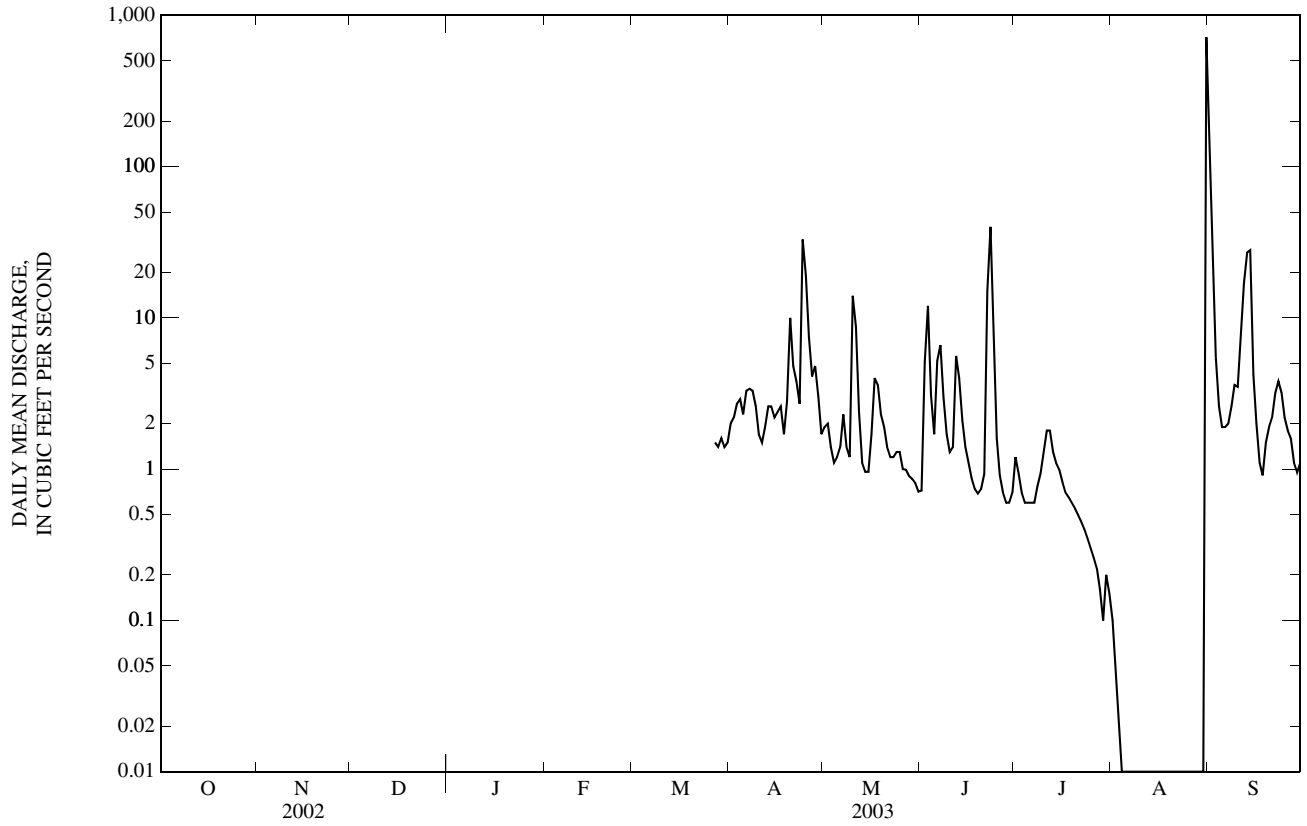
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e2.0	1.9	0.72	1.2	e0.10	98
2	---	---	---	---	---	---	e2.2	2.0	5.1	0.93	e0.05	17
3	---	---	---	---	---	---	e2.7	1.4	12	e0.70	e0.02	5.5
4	---	---	---	---	---	---	e2.9	1.1	3.1	e0.60	e0.00	2.6
5	---	---	---	---	---	---	e2.3	1.2	1.7	e0.60	e0.00	1.9
6	---	---	---	---	---	---	e3.3	1.4	5.2	e0.60	e0.00	e1.9
7	---	---	---	---	---	---	e3.4	2.3	6.6	e0.60	e0.00	e2.0
8	---	---	---	---	---	---	e3.3	1.4	3.0	e0.77	e0.00	e2.6
9	---	---	---	---	---	---	e2.6	1.2	1.7	0.94	e0.00	e3.6
10	---	---	---	---	---	---	e1.7	14	1.3	1.3	e0.00	e3.5
11	---	---	---	---	---	---	e1.5	8.7	1.4	1.8	e0.00	e8.0
12	---	---	---	---	---	---	e1.9	2.4	5.6	1.8	e0.00	e17
13	---	---	---	---	---	---	e2.6	1.1	4.0	1.3	e0.00	e27
14	---	---	---	---	---	---	e2.6	0.96	2.1	1.1	e0.00	e28
15	---	---	---	---	---	---	e2.2	0.96	1.4	0.99	e0.00	e4.2
16	---	---	---	---	---	---	e2.4	1.7	1.1	0.82	e0.00	e2.0
17	---	---	---	---	---	---	e2.6	4.0	0.87	e0.70	e0.00	e1.1
18	---	---	---	---	---	---	e1.7	3.6	0.74	e0.65	e0.00	e0.91
19	---	---	---	---	---	---	e2.8	2.3	0.69	e0.60	e0.00	e1.5
20	---	---	---	---	---	---	e10	1.9	0.74	e0.55	e0.00	e1.9
21	---	---	---	---	---	---	4.8	1.4	0.93	e0.50	e0.00	e2.2
22	---	---	---	---	---	---	3.8	1.2	15	e0.45	e0.00	e3.2
23	---	---	---	---	---	---	2.7	1.2	40	e0.40	e0.00	e3.8
24	---	---	---	---	---	---	33	1.3	7.9	e0.35	e0.00	e3.2
25	---	---	---	---	---	---	19	1.3	1.6	e0.30	e0.00	e2.2
26	---	---	---	---	---	---	7.5	1.0	0.91	e0.26	e0.00	e1.8
27	---	---	---	---	---	---	4.1	0.99	e0.70	e0.22	0.00	e1.6
28	---	---	---	---	---	---	4.8	0.90	e0.60	e0.16	0.00	e1.1
29	---	---	---	---	---	---	3.0	0.86	e0.60	e0.10	0.00	e0.95
30	---	---	---	---	---	---	1.7	0.81	e0.70	e0.20	0.00	e1.1
31	---	---	---	---	---	---	---	0.71	---	e0.15	e716	---
MEAN	---	---	---	---	---	---	4.70	2.17	4.27	0.70	23.1	8.38
MAX	---	---	---	---	---	---	33	14	40	1.8	716	98
MIN	---	---	---	---	---	---	1.5	0.71	0.60	0.10	0.00	0.91
AC-FT	---	---	---	---	---	---	280	133	254	43	1,420	499

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2003, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	4.70	2.17	4.27	0.70	23.1	8.38
MAX	---	---	---	---	---	---	4.70	2.17	4.27	0.70	23.1	8.38
(WY)	---	---	---	---	---	---	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	---	---	---	---	---	---	4.70	2.17	4.27	0.70	23.1	8.38
(WY)	---	---	---	---	---	---	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)

e Estimated

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued



06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS

LOCATION.--Lat 38°57'24", long 94°58'25", in SW ¼ SW ¼ SE ¼ sec.33, T.12 S., R.22 E., Johnson County, Hydrologic Unit 10270104, on left downstream side of 95th Street and 1 mi south of DeSoto, and at mile 2.8.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--53.40 mi^2.

PERIOD OF RECORD.--April 2003 to current year.

GAGE.--Water-stage recorder. Datum of gage is 766.01 ft above NGVD of 1988 (Johnson County, Kansas, bench mark).

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.7	e1.4	e1.4	e4.6	1.9	15	18	8.0	7.1	5.5	6.6	12
2	e3.1	e1.5	e1.4	e4.8	2.6	13	15	7.0	6.0	83	5.1	9.6
3	e1.9	e1.6	e3.2	e4.5	2.2	10	13	5.6	5.1	71	4.4	7.8
4	e1.5	e1.7	e5.7	e6.5	1.9	1,210	12	5.2	4.7	22	4.3	6.6
5	e1.4	e1.4	e3.6	e5.3	2.1	400	11	4.8	4.1	14	4.3	6.2
6	e1.4	e1.3	e2.6	e3.5	2.3	97	11	4.4	4.4	686	4.6	16
7	e1.4	e1.3	e2.4	e2.8	1.9	52	10	4.0	4.1	107	3.8	9.8
8	e1.2	e1.3	e1.6	e3.3	1.5	35	9.4	4.2	3.4	34	3.7	6.7
9	e1.2	e1.2	e4.5	e4.2	1.8	29	8.4	3.9	3.9	21	4.1	5.3
10	e1.2	e1.2	e9.9	e3.9	1.7	24	8.3	20	47	15	3.9	4.5
11	e1.4	e1.4	e2.1	e4.1	1.9	20	8.0	14	35	11	3.5	4.0
12	e1.5	e1.5	e1.7	e4.0	1.8	17	7.2	7.4	14	18	2.7	3.7
13	e1.8	e1.5	e2.2	3.9	1.7	16	6.7	14	9.9	12	2.3	3.3
14	e3.6	e1.5	e2.2	3.1	2.0	16	6.4	38	8.2	8.0	2.0	2.7
15	e4.2	e1.5	e1.9	2.3	3.4	17	6.3	29	6.3	5.9	1.7	2.5
16	e2.5	e1.4	e2.4	2.5	3.4	24	6.1	15	5.5	206	1.5	2.3
17	e2.4	e1.6	e4.4	4.1	6.6	20	5.9	11	39	57	1.2	2.2
18	e2.1	e1.8	e3.0	25	46	16	5.6	80	192	19	1.1	37
19	e2.0	e1.8	e4.0	10	99	14	5.3	397	57	11	1.3	16
20	e1.9	e1.7	e3.0	6.3	51	14	7.5	67	20	8.8	1.8	6.4
21	e1.9	e1.6	e2.0	5.4	25	11	17	28	13	6.7	1.4	4.2
22	e1.7	e1.5	e1.5	5.1	17	9.7	9.6	18	10	5.3	1.7	4.1
23	e1.9	e2.1	e3.0	3.9	14	12	7.9	13	7.7	5.5	4.4	3.1
24	e1.9	e3.0	e2.5	3.6	12	15	8.7	13	6.2	1,490	121	2.5
25	e2.2	e3.2	e2.0	4.0	10	13	8.6	307	4.6	302	37	2.3
26	e1.8	e2.6	e1.8	4.5	9.1	13	6.6	49	3.8	77	18	2.1
27	e1.7	e2.2	e1.7	3.7	8.5	13	6.1	28	11	33	118	2.1
28	e2.0	e2.1	e1.8	2.8	8.2	132	5.7	19	33	19	816	1.7
29	e2.5	e2.0	e1.9	2.2	8.9	49	5.8	14	13	14	76	1.9
30	e2.5	e1.7	e2.2	1.9	---	29	8.2	12	8.0	11	28	1.3
31	e1.6	---	e4.2	1.6	---	21	---	9.3	---	8.5	17	---
MEAN	2.00	1.72	2.83	4.75	12.0	76.7	8.84	40.3	19.6	109	42.0	6.33
MAX	4.2	3.2	9.9	25	99	1,210	18	397	192	1,490	816	37
MIN	1.2	1.2	1.4	1.6	1.5	9.7	5.3	3.9	3.4	5.3	1.1	1.3
AC-FT	123	102	174	292	693	4,710	526	2,480	1,160	6,720	2,580	377

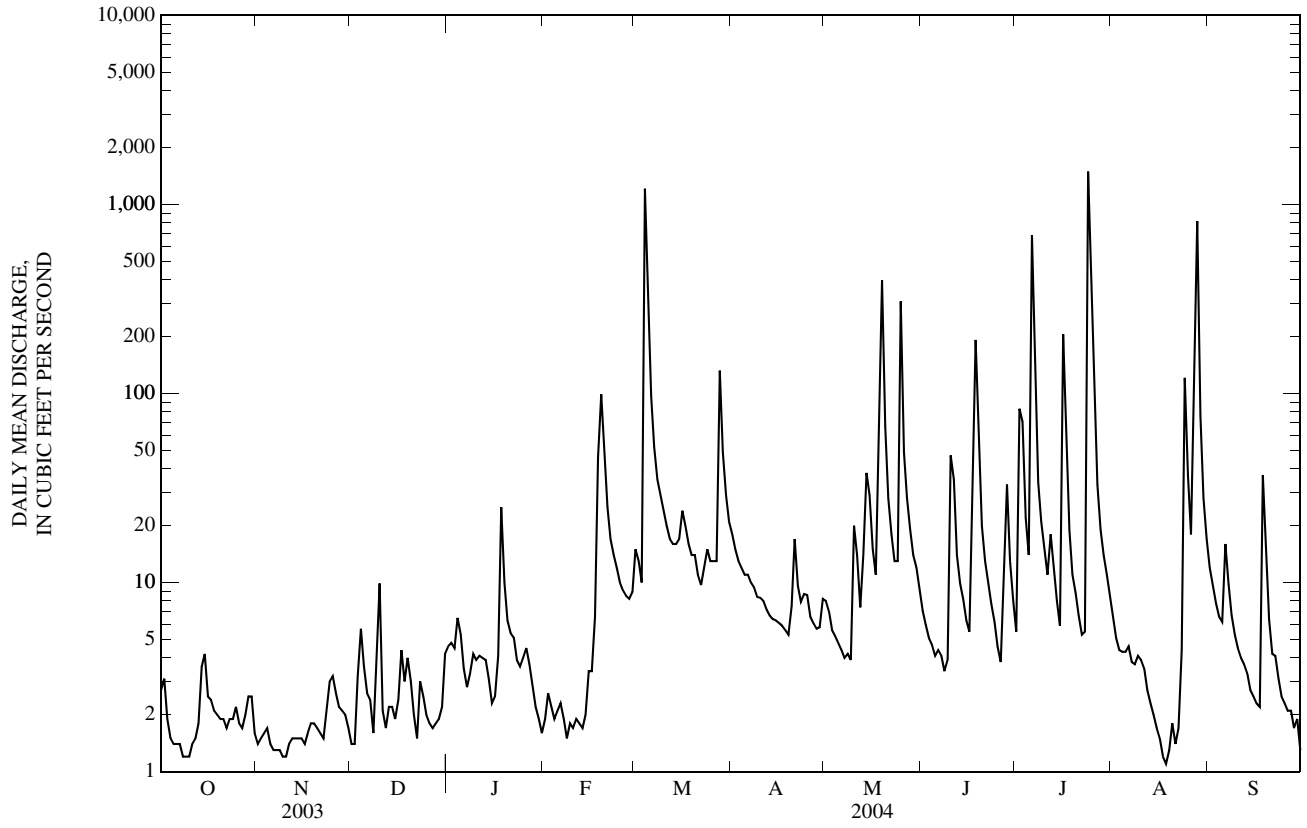
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	2.00	1.72	2.83	4.75	12.0	76.7	6.77	21.2	11.9	55.0	32.6	7.35
MAX	2.00	1.72	2.83	4.75	12.0	76.7	8.84	40.3	19.6	109	42.0	8.38
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)
MIN	2.00	1.72	2.83	4.75	12.0	76.7	4.70	2.17	4.27	0.70	23.1	6.33
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

SUMMARY STATISTICS	FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL MEAN	27.5		27.5	
HIGHEST ANNUAL MEAN			27.5	2004
LOWEST ANNUAL MEAN			27.5	2004
HIGHEST DAILY MEAN	1,490	Jul 24	1,490	Jul 24, 2004
LOWEST DAILY MEAN	1.1	Aug 18	0.00	Aug 4, 2003
ANNUAL SEVEN-DAY MINIMUM	1.3	Nov 5	0.00	Aug 4, 2003
MAXIMUM PEAK FLOW	4,690	Jul 24	4,690	Jul 24, 2004
MAXIMUM PEAK STAGE	19.89	Jul 24	19.89	Jul 24, 2004
INSTANTANEOUS LOW FLOW	0.88	Aug 19	0.00	Aug 4, 2003
ANNUAL RUNOFF (AC-FT)	19,950		19,910	
10 PERCENT EXCEEDS	34		34	
50 PERCENT EXCEEDS	5.1		5.1	
90 PERCENT EXCEEDS	1.6		1.6	

e Estimated



06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 2004.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February to September 2004.
pH: February to September 2004.
WATER TEMPERATURE: February to September 2004.
DISSOLVED OXYGEN: February to September 2004.
TURBIDITY (YSI 6136 sensor): June to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 663 microsiemens/cm, May 10, 2004; minimum, 152 microsiemens/cm, Aug. 28, 2004.
pH: Maximum, 8.4 standard units, Aug. 26, 2004; minimum, 7.5 standard units, Mar. 4, 2004.
WATER TEMPERATURE: Maximum, 29.6°C, July 13, 2004; minimum, 4.0°C, Feb. 26, 2004.
DISSOLVED OXYGEN: Maximum, 16.5 mg/L, Aug. 12, 2004; minimum, 3.8 mg/L, Apr. 19, 2004.
TURBIDITY (YSI 6136 sensor): Maximum, >1,200 FNU, Aug. 28, 2004; minimum, <2.0 FNU, July 31, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 663 microsiemens/cm, May 10; minimum, 152 microsiemens/cm, Aug. 28.
pH: Maximum, 8.4 standard units, June 26; minimum, 7.5 standard units, Mar. 4.
WATER TEMPERATURE: Maximum, 29.6°C, July 13; minimum, 4.0°C, Feb. 26.
DISSOLVED OXYGEN: Maximum, 16.5 mg/L, Aug. 12; minimum, 3.8 mg/L, Apr. 19.
TURBIDITY (YSI 6136 sensor): Maximum, >1,200 FNU, Aug. 28; minimum, <2.0 FNU, July 31.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	635	613	623	551	537	544	647	636	644
2	---	---	---	624	616	619	563	550	556	643	635	638
3	---	---	---	636	622	630	566	551	560	636	627	631
4	---	---	---	649	204	452	569	553	562	636	622	632
5	---	---	---	414	275	356	577	562	568	637	627	634
6	---	---	---	477	414	450	583	569	574	645	625	638
7	---	---	---	518	477	498	588	573	578	652	642	646
8	---	---	---	546	518	533	593	581	585	657	641	651
9	---	---	---	564	546	555	596	---	---	662	646	656
10	---	---	---	578	564	570	600	591	596	663	552	621
11	---	---	---	588	578	581	603	593	600	634	552	583
12	---	---	---	593	588	591	603	597	601	604	560	576
13	---	---	---	601	590	597	607	599	602	634	603	622
14	---	---	---	608	598	601	610	598	602	636	535	585
15	---	---	---	602	594	598	610	600	606	565	543	558
16	---	---	---	598	576	588	625	608	613	558	538	550
17	---	---	---	594	578	585	630	619	624	575	557	566
18	---	---	---	587	565	579	633	626	629	589	373	549
19	---	---	---	574	560	570	636	626	632	425	304	379
20	---	---	---	569	558	566	635	616	627	487	425	458
21	---	---	---	565	553	558	624	589	611	524	487	505
22	---	---	---	565	533	551	597	588	591	550	524	537
23	---	---	---	540	510	528	605	597	603	567	550	560
24	---	---	---	523	511	517	606	603	604	579	460	561
25	589	560	577	546	520	534	609	603	606	504	254	333
26	609	587	593	553	544	548	615	609	613	458	387	426
27	615	601	607	555	550	552	618	612	615	510	458	486
28	622	610	615	550	373	467	621	607	618	536	510	520
29	636	609	619	479	435	456	634	620	627	555	536	547
30	---	---	---	513	479	498	642	633	638	578	555	566
31	---	---	---	537	513	526	---	---	---	586	572	580
MONTH	636	560	602	649	204	544	642	537	599	663	254	563

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	595	586	590	469	458	464	629	621	623	553	526	541
2	602	594	598	480	354	435	634	624	628	575	553	563
3	604	586	595	406	344	369	635	626	632	589	575	583
4	604	587	593	440	379	416	629	625	627	602	589	597
5	599	587	592	478	440	454	629	620	624	610	595	605
6	608	590	601	485	183	306	637	626	632	619	545	592
7	612	598	604	430	342	387	633	621	627	545	511	522
8	612	598	607	515	430	474	624	612	619	563	541	555
9	608	595	602	546	515	528	634	616	626	585	563	572
10	596	423	520	574	546	566	637	620	632	607	585	596
11	484	413	443	602	574	593	622	604	617	621	607	617
12	527	484	515	614	581	597	622	604	612	633	620	628
13	514	504	506	581	543	561	627	610	622	641	631	636
14	521	510	515	573	542	558	618	604	612	644	636	639
15	526	521	525	583	562	568	607	592	601	644	634	639
16	537	525	529	573	223	399	600	591	596	641	636	638
17	604	338	494	398	285	353	600	589	594	645	636	640
18	400	237	334	446	398	423	593	585	588	644	474	593
19	407	337	378	484	446	466	589	573	584	474	354	378
20	446	407	427	517	484	500	581	563	575	398	364	380
21	478	446	463	536	517	526	583	575	578	451	398	424
22	502	478	491	551	536	545	590	580	583	501	451	478
23	521	502	511	563	551	556	590	449	577	537	501	524
24	530	521	527	566	159	394	550	284	406	558	537	549
25	542	530	535	452	302	392	400	351	376	567	558	561
26	548	542	545	521	452	491	434	400	421	587	566	577
27	548	534	541	563	521	543	449	178	417	608	586	596
28	553	504	536	596	563	575	354	152	262	617	607	610
29	549	470	516	608	596	604	438	354	402	623	614	618
30	470	450	459	619	606	615	492	438	466	627	617	623
31	---	---	---	625	618	622	526	492	509	---	---	---
MONTH	612	237	523	625	159	493	637	152	557	645	354	569

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, 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
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	8.1	7.7	8.0	8.2	8.0	8.1	7.9	7.7	7.8
2	---	---	---	8.2	8.0	8.1	8.2	8.0	8.1	8.0	7.8	7.9
3	---	---	---	8.2	7.7	8.0	8.2	8.0	8.1	8.0	7.9	8.0
4	---	---	---	8.0	7.5	7.7	8.2	8.0	8.1	8.1	7.9	8.0
5	---	---	---	7.7	7.6	7.7	8.2	8.0	8.1	8.1	7.9	8.0
6	---	---	---	7.8	7.7	7.7	8.1	8.0	8.0	8.1	7.7	7.9
7	---	---	---	7.8	7.7	7.8	8.0	7.9	8.0	8.1	7.7	7.8
8	---	---	---	7.8	7.8	7.8	8.0	7.8	7.9	8.0	7.7	7.8
9	---	---	---	7.8	7.8	7.8	8.0	7.8	7.9	8.0	7.7	7.8
10	---	---	---	7.9	7.8	7.8	8.1	7.8	7.9	7.9	7.6	7.8
11	---	---	---	7.9	7.8	7.9	8.1	7.9	8.0	7.8	7.6	7.7
12	---	---	---	7.9	7.8	7.9	8.1	7.9	8.0	7.8	7.6	7.7
13	---	---	---	7.9	7.8	7.9	8.1	7.9	8.0	7.8	7.7	7.7
14	---	---	---	8.0	7.8	7.9	8.1	7.8	7.9	8.0	7.8	7.9
15	---	---	---	8.0	7.9	7.9	8.1	7.8	8.0	8.0	8.0	8.0
16	---	---	---	8.1	7.9	8.0	8.0	7.8	7.9	8.0	7.9	7.9
17	---	---	---	8.2	8.0	8.1	8.0	7.6	7.8	7.9	7.8	7.8
18	---	---	---	8.2	8.0	8.1	7.8	7.6	7.7	7.9	7.8	7.8
19	---	---	---	8.2	8.0	8.1	7.9	7.6	7.7	7.8	7.6	7.8
20	---	---	---	8.2	8.0	8.1	7.8	7.6	7.7	7.9	7.8	7.8
21	---	---	---	8.3	8.1	8.2	8.0	7.7	7.8	7.9	7.8	7.8
22	---	---	---	8.2	8.1	8.1	7.9	7.8	7.9	7.9	7.8	7.8
23	---	---	---	8.2	8.0	8.0	8.0	7.8	7.9	7.9	7.8	7.9
24	---	---	---	8.0	8.0	8.0	7.9	7.8	7.9	7.9	7.8	7.9
25	8.0	7.9	8.0	8.0	7.9	7.9	8.1	7.8	8.0	7.9	7.7	7.8
26	8.1	7.9	8.0	8.0	7.8	7.9	8.1	7.9	8.0	7.8	7.7	7.8
27	8.1	7.8	8.0	7.9	7.8	7.9	8.0	7.9	8.0	7.8	7.8	7.8
28	8.1	7.8	8.0	7.9	7.8	7.9	8.1	7.9	8.0	7.8	7.8	7.8
29	8.1	7.7	7.9	8.0	7.8	7.9	8.0	7.6	7.8	7.9	7.8	7.8
30	---	---	---	8.1	7.9	8.0	7.8	7.7	7.7	7.9	7.8	7.8
31	---	---	---	8.2	8.0	8.1	---	---	---	8.0	7.9	7.9
MAX	8.1	7.9	8.0	8.3	8.1	8.2	8.2	8.0	8.1	8.1	8.0	8.0
MIN	8.0	7.7	7.9	7.7	7.5	7.7	7.8	7.6	7.7	7.8	7.6	7.7

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

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

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

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, 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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	7.7	7.2	7.4	13.0	9.0	11.1	17.2	14.6	15.8
2	---	---	---	7.8	6.5	7.2	13.8	10.0	12.0	16.4	14.2	15.3
3	---	---	---	7.5	7.1	7.3	13.8	11.2	12.6	17.1	13.1	15.0
4	---	---	---	7.3	6.4	7.0	14.2	11.4	12.8	17.2	14.7	15.9
5	---	---	---	7.6	7.0	7.3	13.9	11.9	13.0	20.4	15.2	17.6
6	---	---	---	9.0	6.2	7.6	16.2	12.6	14.2	23.6	18.6	20.8
7	---	---	---	9.9	8.0	8.9	17.0	14.8	15.7	25.4	21.2	23.0
8	---	---	---	10.0	7.3	8.7	17.4	14.5	15.9	25.9	22.4	23.9
9	---	---	---	10.4	8.6	9.5	15.9	14.0	14.6	25.3	23.1	24.0
10	---	---	---	10.4	8.1	9.4	14.1	12.1	13.0	23.6	20.9	22.0
11	---	---	---	10.4	8.0	9.3	13.6	10.2	11.9	23.4	20.8	21.9
12	---	---	---	9.5	6.9	8.6	13.4	10.8	12.2	23.4	21.9	22.6
13	---	---	---	9.0	7.8	8.3	14.2	10.8	12.5	22.7	17.6	20.4
14	---	---	---	10.0	7.5	8.7	15.4	11.6	13.5	17.6	15.5	16.6
15	---	---	---	9.3	8.0	8.6	17.2	13.4	15.2	18.0	15.1	16.6
16	---	---	---	8.0	6.7	7.3	20.6	15.7	18.0	19.8	16.1	18.0
17	---	---	---	9.0	6.2	7.6	22.7	18.6	20.5	21.6	19.1	20.2
18	---	---	---	11.0	8.0	9.4	21.4	19.3	20.1	20.9	19.1	20.3
19	---	---	---	12.6	9.5	10.9	21.6	18.3	19.7	22.2	19.1	20.6
20	---	---	---	15.0	12.6	13.7	21.2	19.6	20.3	24.4	21.3	22.7
21	---	---	---	13.0	10.6	11.8	20.3	17.8	19.2	25.4	23.0	24.2
22	---	---	---	11.9	9.6	10.7	19.3	16.4	17.8	25.0	23.2	24.2
23	---	---	---	13.0	10.0	11.4	16.4	15.4	15.7	25.5	23.3	24.4
24	---	---	---	13.3	12.1	12.6	15.8	14.8	15.3	25.2	23.1	24.2
25	6.2	4.6	5.3	14.9	13.3	14.2	17.1	14.2	15.6	23.2	19.5	20.7
26	6.1	4.0	5.1	17.7	14.9	16.2	17.6	14.5	16.1	20.7	19.2	19.7
27	6.8	4.6	5.7	17.4	16.5	17.1	18.6	14.5	16.8	22.3	18.8	20.4
28	7.5	5.5	6.5	16.5	13.8	15.0	20.6	16.5	18.5	23.6	20.2	22.0
29	8.0	6.7	7.3	14.5	12.5	13.5	19.5	17.9	18.3	23.9	22.1	23.0
30	---	---	---	13.0	10.3	11.4	18.0	15.8	17.1	24.3	22.7	23.5
31	---	---	---	11.8	8.7	10.3	---	---	---	23.3	20.7	22.1
MONTH	8.0	4.0	6.0	17.7	6.2	10.2	22.7	9.0	15.6	25.9	13.1	20.7

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.4	20.4	21.9	24.3	22.9	23.6	26.5	23.5	24.9	23.6	22.4	23.0
2	23.2	20.8	22.0	23.8	22.5	23.2	27.9	25.2	26.4	23.9	22.0	23.0
3	23.1	20.4	21.9	24.2	21.9	22.9	29.1	26.2	27.6	24.1	22.2	23.2
4	23.9	20.7	22.2	26.4	23.4	24.8	28.4	26.2	27.4	24.9	22.7	23.8
5	22.8	21.6	22.1	27.0	24.5	25.9	26.6	24.8	25.7	25.7	23.5	24.5
6	24.0	21.1	22.4	26.4	21.5	23.2	25.5	23.4	24.4	24.7	22.7	23.5
7	26.4	22.8	24.3	24.1	21.8	23.1	24.8	22.3	23.6	22.9	21.0	21.8
8	27.2	24.0	25.2	23.5	22.7	23.0	24.3	22.7	23.5	21.5	19.7	20.7
9	25.2	23.3	24.2	23.9	21.8	22.8	25.7	23.0	24.1	21.5	19.2	20.4
10	23.3	22.5	22.8	25.9	22.8	24.2	25.1	23.6	24.4	22.1	19.6	21.0
11	24.8	22.2	23.4	27.8	25.0	26.4	24.1	22.2	22.9	22.0	20.0	21.0
12	26.5	23.7	25.1	28.2	26.0	27.0	22.2	20.5	21.5	22.6	20.3	21.4
13	26.7	23.8	25.3	29.6	26.7	28.2	21.4	20.3	20.9	23.6	21.2	22.2
14	27.7	24.7	26.2	29.5	27.6	28.5	22.2	20.2	21.1	24.6	21.9	23.0
15	27.6	25.4	26.5	28.5	26.0	27.4	22.8	19.6	21.1	23.6	22.7	23.2
16	27.4	25.8	26.3	27.7	22.8	25.1	22.6	19.9	21.1	22.7	21.1	21.9
17	25.8	23.3	24.1	26.2	23.8	24.9	24.0	20.9	22.2	21.3	19.7	20.4
18	23.6	20.8	22.3	26.0	23.9	25.0	25.4	22.4	23.8	21.4	19.7	20.5
19	22.5	21.2	21.7	26.8	24.1	25.5	24.6	21.3	22.8	22.5	20.7	21.6
20	21.4	20.2	20.8	29.2	26.1	27.5	21.7	20.1	20.9	22.6	20.9	21.6
21	24.0	20.9	22.3	28.5	27.2	27.9	21.6	20.0	20.7	22.6	20.3	21.4
22	25.0	22.7	23.7	29.0	27.0	27.9	23.0	19.8	21.2	22.7	20.6	21.5
23	25.4	22.0	23.7	27.9	25.7	26.6	22.8	21.7	22.2	21.6	20.4	21.1
24	25.8	22.9	24.4	25.7	19.0	22.3	23.6	20.7	21.9	20.6	19.2	19.9
25	24.5	22.0	23.3	22.0	20.5	21.2	24.7	23.5	24.0	20.6	18.7	19.5
26	24.1	21.3	22.6	22.2	19.9	21.1	26.4	23.6	25.0	20.2	18.3	19.2
27	22.9	21.1	21.9	23.2	20.5	21.8	27.5	22.8	26.1	19.8	17.9	18.9
28	22.2	20.2	21.1	23.0	21.2	22.2	24.4	22.6	23.5	19.4	18.1	18.7
29	23.0	20.3	21.7	22.5	21.5	21.9	23.7	21.9	22.8	18.6	16.5	17.5
30	24.5	21.5	22.9	22.9	21.1	22.0	23.2	21.3	22.3	18.8	16.1	17.2
31	---	---	---	24.7	21.8	23.2	23.8	21.7	22.8	---	---	---
MONTH	27.7	20.2	23.3	29.6	19.0	24.5	29.1	19.6	23.3	25.7	16.1	21.2

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, 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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	11.7	9.3	10.8	13.6	10.7	12.2	9.8	6.2	7.7
2	---	---	---	13.4	9.7	11.5	13.7	10.6	12.3	10.2	7.9	9.1
3	---	---	---	12.3	9.0	10.4	13.6	10.6	12.2	11.2	8.5	9.9
4	---	---	---	10.5	6.8	9.3	13.5	10.7	12.2	11.0	8.5	9.7
5	---	---	---	10.6	10.4	10.5	12.8	10.8	11.7	13.2	8.5	10.1
6	---	---	---	10.8	10.1	10.5	12.2	10.3	11.2	11.8	6.3	8.7
7	---	---	---	10.5	10.1	10.2	10.7	8.7	9.8	10.7	5.3	7.6
8	---	---	---	10.7	10.0	10.3	10.6	8.1	9.2	8.7	5.3	6.6
9	---	---	---	10.6	9.8	10.2	9.9	8.0	8.9	8.2	4.5	6.2
10	---	---	---	10.7	9.9	10.3	10.6	8.0	9.2	7.3	5.0	6.4
11	---	---	---	10.9	10.0	10.4	12.2	9.4	10.6	7.5	5.5	6.6
12	---	---	---	11.5	10.2	10.9	11.8	9.8	10.7	7.2	5.1	6.0
13	---	---	---	11.1	10.2	10.7	11.9	9.0	10.5	7.2	5.6	6.3
14	---	---	---	12.5	10.3	11.4	11.8	8.6	10.1	9.8	7.2	8.8
15	---	---	---	11.9	10.4	11.0	11.2	7.7	9.6	10.4	8.8	9.6
16	---	---	---	13.3	10.5	11.8	10.1	7.0	8.7	9.9	8.6	9.2
17	---	---	---	14.1	11.4	12.7	9.0	4.9	7.1	9.6	7.5	8.5
18	---	---	---	14.1	11.3	12.8	6.6	4.4	5.5	8.4	7.2	7.9
19	---	---	---	14.5	11.1	12.8	8.6	3.8	6.1	8.6	7.2	8.2
20	---	---	---	14.2	10.7	12.5	7.6	4.7	6.2	8.2	6.7	7.8
21	---	---	---	14.4	10.6	12.5	9.0	5.8	7.4	8.1	6.7	7.4
22	---	---	---	15.0	11.9	13.3	8.1	6.7	7.4	8.0	6.8	7.3
23	---	---	---	13.8	11.9	12.7	9.1	6.5	7.8	8.0	6.4	7.2
24	---	---	---	12.1	9.8	10.6	9.4	7.8	8.5	8.3	6.5	7.4
25	13.2	10.8	12.0	9.8	8.5	9.2	11.8	7.8	9.8	8.5	7.6	8.1
26	13.7	11.5	12.6	10.3	8.3	9.2	12.3	9.4	10.5	8.7	7.3	8.3
27	13.7	10.8	12.4	9.4	8.2	8.7	10.7	8.3	9.7	8.7	8.1	8.5
28	13.5	10.9	12.3	9.3	8.1	8.8	9.8	7.8	8.7	8.5	8.0	8.2
29	12.2	9.7	11.1	10.5	8.6	9.5	8.3	4.0	6.3	8.7	7.5	8.1
30	---	---	---	11.9	9.3	10.5	6.5	4.5	5.5	8.7	7.2	7.9
31	---	---	---	13.3	10.5	11.8	---	---	---	9.8	7.7	8.7
MONTH	13.7	9.7	12.1	15.0	6.8	10.9	13.7	3.8	9.2	13.2	4.5	8.0

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.6	8.1	9.2	9.7	6.8	8.1	11.2	7.4	9.2	7.7	5.9	6.8
2	12.2	8.2	9.8	8.4	6.6	7.5	11.0	7.1	8.9	7.6	6.3	6.9
3	11.0	8.5	9.9	7.5	6.3	7.2	10.6	6.4	8.4	7.8	6.3	7.0
4	12.7	7.5	9.8	7.4	6.3	6.8	8.4	5.7	6.9	8.1	6.3	7.2
5	10.5	7.9	9.2	7.6	6.0	6.8	8.6	5.3	6.9	8.2	6.2	7.2
6	9.9	6.8	8.3	8.5	6.7	7.7	9.0	5.7	7.2	7.5	6.0	6.8
7	9.3	6.6	8.0	7.9	7.2	7.6	9.8	6.0	8.0	7.6	6.0	6.7
8	8.6	6.2	7.4	7.2	6.8	7.0	11.3	6.5	8.6	7.6	6.5	7.0
9	7.5	5.5	6.2	7.4	6.6	6.9	11.1	6.9	8.8	8.0	6.4	7.3
10	7.0	5.3	6.2	7.8	6.4	7.1	11.4	7.3	9.3	8.6	6.7	7.6
11	6.7	6.2	6.5	8.0	6.0	7.0	14.5	7.8	10.4	8.6	6.5	7.4
12	6.8	5.7	6.2	8.3	6.0	7.1	16.5	9.6	12.8	9.0	6.7	7.7
13	7.1	5.7	6.3	8.5	5.8	7.1	12.8	9.6	11.3	9.0	6.6	7.6
14	7.3	5.7	6.4	8.6	5.7	7.1	12.6	9.3	10.9	9.2	6.8	7.7
15	8.0	5.3	6.5	9.2	5.6	7.5	14.3	9.5	11.1	7.3	5.8	6.6
16	7.8	5.4	6.5	7.8	6.2	6.8	13.0	9.5	10.8	7.8	5.3	6.2
17	6.8	5.8	6.3	7.2	6.5	6.8	11.9	9.1	10.3	7.3	5.6	6.3
18	7.5	5.5	6.8	7.7	6.4	6.9	11.3	7.8	9.4	7.7	5.8	6.7
19	7.7	7.0	7.3	8.6	6.2	7.3	8.1	5.6	7.0	6.6	5.1	5.7
20	7.6	7.0	7.3	9.9	6.1	7.8	9.2	5.2	6.9	5.5	4.8	5.2
21	7.8	6.8	7.3	10.3	6.3	8.0	10.2	7.0	8.2	6.6	4.8	5.5
22	8.0	6.4	7.1	11.7	5.7	8.5	11.6	7.3	8.8	7.0	5.0	5.8
23	8.9	6.6	7.5	9.0	6.3	7.2	8.8	7.0	7.7	6.4	4.9	5.6
24	9.4	6.3	7.7	8.1	5.8	7.1	7.5	6.8	7.1	7.0	5.5	6.1
25	10.4	6.4	8.2	8.0	7.6	7.9	6.9	6.2	6.5	7.4	5.6	6.3
26	12.2	7.1	9.3	8.3	7.6	7.9	7.0	5.6	6.2	7.7	5.9	6.7
27	9.8	7.2	8.0	8.5	7.3	7.8	7.7	5.4	6.0	8.4	6.3	7.1
28	8.7	7.3	7.9	8.9	7.1	8.0	7.3	6.8	7.0	8.8	5.9	7.3
29	8.4	7.0	7.6	9.2	7.2	8.1	7.4	6.7	7.0	9.3	6.7	7.7
30	9.6	6.7	7.9	10.6	7.3	8.8	7.5	6.5	6.9	10.8	6.8	8.2
31	---	---	---	11.4	7.4	9.4	7.4	6.3	6.8	---	---	---
MONTH	12.7	5.3	7.6	11.7	5.6	7.5	16.5	5.2	8.4	10.8	4.8	6.8

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	11	5.9	7.3	17	7.5	11	23	7.9	12
2	---	---	---	9.7	4.7	6.6	17	9.0	12	14	6.7	8.8
3	---	---	---	20	5.0	6.6	17	7.8	11	21	5.6	10
4	---	---	---	>1,000	5.9	440	11	6.6	9.1	26	6.4	12
5	---	---	---	460	65	150	16	8.0	10	16	5.0	8.6
6	---	---	---	66	36	47	15	6.5	10	15	4.5	8.0
7	---	---	---	37	23	30	17	5.1	9.8	22	4.7	8.9
8	---	---	---	34	19	24	18	6.0	10	17	6.4	11
9	---	---	---	31	15	22	17	6.8	12	19	5.8	9.3
10	---	---	---	18	13	14	21	6.0	12	88	7.0	42
11	---	---	---	19	10	13	21	5.3	12	78	26	45
12	---	---	---	12	7.0	9.0	33	6.0	13	43	14	22
13	---	---	---	10	6.4	8.4	---	---	---	74	14	31
14	---	---	---	9.8	6.4	7.7	---	---	---	59	33	45
15	---	---	---	13	7.7	9.9	---	---	---	45	22	33
16	---	---	---	14	6.6	8.8	14	4.9	7.4	51	25	35
17	---	---	---	9.8	5.5	7.2	17	4.7	8.1	58	22	29
18	---	---	---	15	7.0	9.0	16	6.0	8.6	340	21	92
19	---	---	---	16	7.6	10	15	5.4	9.8	>1,100	74	330
20	---	---	---	14	7.6	10	16	7.0	11	74	38	53
21	---	---	---	12	4.8	7.2	18	8.0	13	---	---	---
22	---	---	---	8.1	3.9	5.1	19	8.0	13	---	---	---
23	---	---	---	11	4.8	6.6	16	7.2	11	---	---	20
24	---	---	---	12	7.8	10	19	7.9	11	360	14	41
25	9.2	5.8	7.0	16	9.0	11	17	5.2	9.2	>1,100	110	510
26	8.6	4.7	5.9	16	8.8	10	16	6.3	9.6	120	46	---
27	7.9	4.8	6.1	20	7.9	11	16	8.0	11	94	32	51
28	7.9	5.2	6.3	130	12	67	17	6.1	9.5	34	22	29
29	10	5.4	7.3	67	22	39	41	6.1	13	54	22	26
30	---	---	---	28	13	18	28	9.0	13	53	18	26
31	---	---	---	19	9.2	13	---	---	---	77	13	25
MONTH	10	4.7	6.5	1,000	3.9	33	41	4.7	11	1,100	4.5	56

06892360 KILL CREEK AT 95TH STREET NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	68	8.9	20	26	11	17	9.5	<2.0	5.0	29	7.5	13
2	20	8.5	13	>1,100	9.2	160	16	<2.0	5.2	23	5.8	10
3	22	10	14	920	64	160	11	1.6	4.8	16	4.0	9.1
4	26	9.3	14	100	24	49	18	3.0	8.8	18	3.4	8.7
5	23	11	14	41	20	29	15	3.2	8.1	20	3.8	9.9
6	20	8.9	13	>1,100	16	480	9.3	4.7	6.4	33	9.2	16
7	22	9.3	14	89	29	49	32	4.2	8.4	31	8.6	14
8	16	8.6	12	36	18	26	11	2.7	7.3	34	8.7	19
9	19	8.6	14	36	14	23	26	3.5	9.2	47	7.6	16
10	54	14	34	18	8.9	14	10	2.5	5.3	23	7.0	12
11	65	25	50	15	5.3	10	14	5.9	9.0	35	8.9	15
12	37	18	27	19	5.2	10	20	5.8	13	31	6.6	12
13	32	18	24	13	4.5	7.5	22	11	14	71	6.3	14
14	73	12	29	25	6.1	9.8	19	9.0	14	20	8.1	12
15	26	14	21	17	6.0	11	20	9.3	13	34	6.8	13
16	29	13	20	560	7.6	210	17	9.0	13	24	8.7	13
17	550	23	110	240	32	83	17	8.2	12	28	10	17
18	670	98	290	45	19	31	16	7.6	11	170	8.4	51
19	150	37	70	45	19	26	20	8.6	15	88	36	61
20	66	30	40	49	13	23	26	9.1	17	41	23	30
21	47	18	29	25	11	18	25	9.3	14	38	23	28
22	58	18	28	34	10	19	20	9.8	13	36	21	26
23	42	16	24	24	13	18	74	9.7	21	32	16	22
24	37	12	22	870	16	270	410	68	150	28	16	21
25	36	11	20	210	39	74	130	31	66	36	14	21
26	32	10	18	50	14	27	62	21	33	31	10	18
27	60	11	28	18	6.4	13	>1,200	21	93	30	9.0	15
28	59	15	32	25	4.6	10	>1,200	53	270	23	9.4	14
29	36	21	27	36	4.7	12	53	20	35	31	9.3	16
30	46	10	26	14	2.0	7.2	38	12	21	21	7.2	12
31	---	---	---	14	<2.0	5.0	24	8.2	15	---	---	---
MONTH	670	8.5	37	1,100	1.6	61	1,200	1.6	30	170	3.4	19

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

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS

LOCATION.--Lat 38°51'33", long 94°51'14", in SE ¼ NE ¼ SE ¼ sec.4, T.14 S., R.23 E., Johnson County, Hydrologic Unit 10300101, on right upstream side of old Highway 56 bridge, 2 mi west of Olathe.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--13.3 mi^2.

PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Records good except July 24 to Aug. 10, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,080 ft^3/s, May 19, gage height, 66.44 ft; minimum discharge, 0.00 ft^3/s, Aug. 15, 16, 22, 23, gage height, 57.59 ft.

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

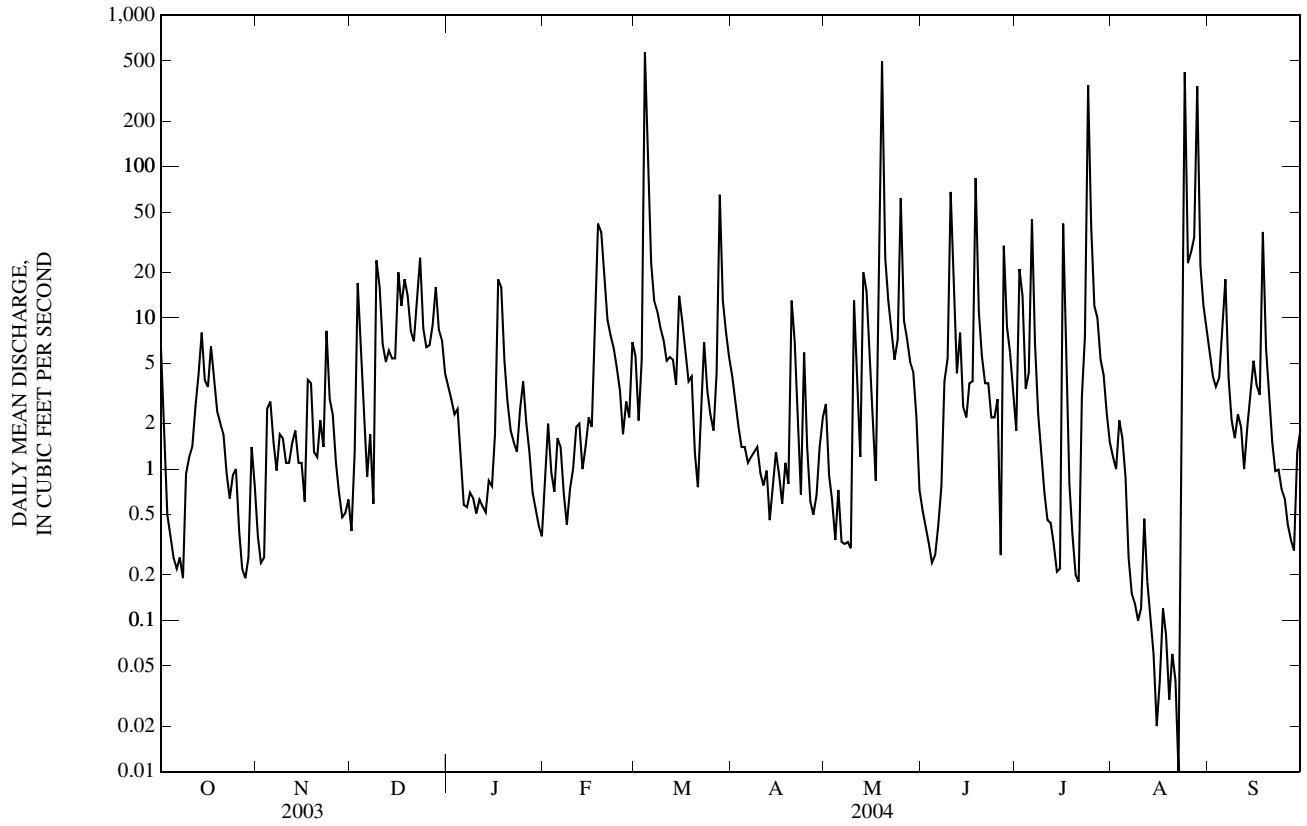
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	0.36	0.39	3.5	0.78	5.6	4.1	2.7	0.53	1.8	1.2	5.8
2	1.9	0.24	1.3	2.9	2.0	2.1	2.8	0.91	0.41	21	1.0	4.1
3	0.50	0.26	17	2.3	0.95	5.3	1.9	0.62	0.32	14	2.1	3.5
4	0.36	2.5	4.8	2.5	0.71	570	1.4	0.34	0.24	3.4	1.6	4.0
5	0.26	2.8	1.9	1.3	1.6	104	1.4	0.73	0.27	4.3	0.88	8.9
6	0.22	1.5	0.89	0.58	1.4	23	1.1	0.33	0.42	45	0.26	18
7	0.26	0.98	1.7	0.56	0.69	13	1.2	0.32	0.77	6.8	0.15	4.0
8	0.19	1.7	0.59	0.70	0.43	11	1.3	0.33	3.8	2.3	0.13	2.1
9	0.93	1.6	24	0.64	0.74	8.6	1.4	0.30	5.4	1.3	0.10	1.6
10	1.2	1.1	16	0.51	1.0	7.1	0.94	13	68	0.70	0.12	2.3
11	1.4	1.1	6.7	0.63	1.9	5.2	0.78	5.0	12	0.46	0.47	1.9
12	2.6	1.5	5.1	0.57	2.0	5.5	0.98	1.2	4.3	0.44	0.18	1.0
13	4.2	1.8	6.1	0.52	1.0	5.3	0.46	20	8.0	0.32	0.10	1.9
14	8.0	1.1	5.4	0.84	1.4	3.6	0.76	15	2.6	0.21	0.06	3.1
15	3.9	1.1	5.4	0.77	2.2	14	1.3	5.6	2.2	0.22	0.02	5.2
16	3.5	0.61	20	1.7	1.9	9.4	0.91	2.2	3.7	42	0.04	3.6
17	6.5	3.9	12	18	11	6.0	0.59	0.84	3.8	4.7	0.12	3.1
18	3.9	3.7	18	16	42	3.8	1.1	89	84	0.80	0.08	37
19	2.4	1.3	14	5.2	37	4.1	0.80	497	11	0.37	0.03	6.3
20	2.0	1.2	8.2	2.8	20	1.3	13	25	5.6	0.20	0.06	3.2
21	1.7	2.1	7.0	1.8	9.7	0.76	7.0	13	3.7	0.18	0.04	1.5
22	0.93	1.4	13	1.5	7.7	2.3	2.3	8.5	3.7	3.0	0.01	0.97
23	0.64	8.2	25	1.3	6.3	6.9	0.68	5.3	2.2	7.5	6.9	0.99
24	0.91	2.9	8.5	2.5	4.7	3.3	5.9	7.2	2.2	344	420	0.74
25	1.0	2.3	6.4	3.8	3.3	2.3	1.4	62	2.9	41	23	0.64
26	0.39	1.1	6.6	2.0	1.7	1.8	0.61	9.6	0.27	12	27	0.43
27	0.22	0.70	8.9	1.3	2.8	4.3	0.50	7.3	30	10	34	0.34
28	0.19	0.48	16	0.70	2.2	65	0.68	5.1	8.7	5.3	340	0.29
29	0.26	0.51	8.4	0.55	6.9	13	1.4	4.4	5.9	4.2	22	1.3
30	1.4	0.63	7.1	0.42	---	8.0	2.2	2.2	3.1	2.3	12	1.8
31	0.79	---	4.3	0.36	---	5.5	---	0.73	---	1.5	8.3	---
MEAN	1.90	1.69	9.05	2.54	6.07	29.7	2.03	26.0	9.33	18.8	29.1	4.32
MAX	8.0	8.2	25	18	42	570	13	497	84	344	420	37
MIN	0.19	0.24	0.39	0.36	0.43	0.76	0.46	0.30	0.24	0.18	0.01	0.29
AC-FT	117	101	557	156	349	1,830	121	1,600	555	1,150	1,790	257

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

MEAN	3.89	2.51	2.64	2.35	9.95	12.2	8.76	18.4	19.1	6.88	13.7	11.0
MAX	7.59	5.86	9.05	4.75	25.8	29.7	13.8	29.8	57.3	18.8	29.1	33.5
(WY)	(2002)	(2001)	(2004)	(2001)	(2001)	(2004)	(2002)	(2002)	(2001)	(2004)	(2004)	(2001)
MIN	1.73	0.62	0.11	0.16	1.84	2.02	2.03	3.85	1.75	0.04	0.04	0.32
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2002)	(2002)	(2002)	(2002)

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL MEAN	4.81		11.8		9.27	
HIGHEST ANNUAL MEAN					15.7	2001
LOWEST ANNUAL MEAN					3.95	2003
HIGHEST DAILY MEAN	334	Aug 31	570	Mar 4	570	Mar 4, 2004
LOWEST DAILY MEAN	0.00	Jul 17	0.01	Aug 22	0.00	Oct 1, 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 17	0.05	Aug 16	0.00	Jul 14, 2002
MAXIMUM PEAK FLOW			2,080	May 19	2,080	May 19, 2004
MAXIMUM PEAK STAGE			66.44	May 19	66.44	May 19, 2004
INSTANTANEOUS LOW FLOW			0.00	Aug 15	0.00	Oct 1, 2000
ANNUAL RUNOFF (AC-FT)	3,490		8,580		6,710	
10 PERCENT EXCEEDS	8.9		16		16	
50 PERCENT EXCEEDS	0.96		2.1		1.5	
90 PERCENT EXCEEDS	0.00		0.32		0.06	



06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2000 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 2000 to current year.
pH: October 2000 to current year.
WATER TEMPERATURE: October 2000 to current year.
DISSOLVED OXYGEN: October 2000 to current year.
TURBIDITY (YSI 6026 sensor): October 2000 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions, malfunction of the recording instrument or sensors, or during days of no streamflow. 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, 2,220 microsiemens/cm, Sept. 18, 2004; minimum, 99 microsiemens/cm, June 1, 2001.
pH: Maximum, 9.1 standard units, Jan. 5, 2004; minimum, 7.2 standard units, May 2, 2001.
WATER TEMPERATURE: Maximum, 33.3°C, July 22, 2001; minimum, 0.3°C, Dec. 11, 2003.
DISSOLVED OXYGEN: Maximum, 34.1 mg/L, Feb. 12, 2003; minimum, 0.2 mg/L, Nov. 3, 2003.
TURBIDITY (YSI 6026 sensor): Maximum, >2,200 FNU, Sept. 18, 2004; minimum, <2.0 FNU, Oct. 22, 2000.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 2,220 microsiemens/cm, Sept. 18; minimum, 168 microsiemens/cm, Aug. 24.
pH: Maximum, 9.1 standard units, Jan. 5; minimum, 7.3 standard units, Feb. 24.
WATER TEMPERATURE: Maximum, 30.0°C, July 13; minimum, 0.3°C, Dec. 11.
DISSOLVED OXYGEN: Maximum, 27.9 mg/L, Feb. 25; minimum, 0.2 mg/L, Nov. 3.
TURBIDITY (YSI 6026 sensor): Maximum, >2,200 FNU, Sept. 18; minimum, <2.0 FNU, Nov. 29.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	660	530	566	984	973	977	832	787	805	891	853	868
2	791	660	759	973	964	969	853	780	800	878	849	860
3	750	703	720	970	934	959	853	637	711	946	877	901
4	723	704	711	1,060	955	985	850	768	813	1,100	897	938
5	748	722	733	1,040	884	928	919	803	831	969	938	955
6	805	746	780	---	819	863	1,020	919	996	1,070	966	1,020
7	900	805	861	819	744	776	998	866	950	---	---	---
8	948	900	931	744	707	722	881	833	852	---	---	---
9	1,070	946	978	808	727	758	834	608	757	---	---	---
10	1,080	1,020	1,050	872	808	846	781	643	692	---	---	---
11	1,020	919	986	882	870	874	834	775	813	---	---	---
12	984	861	912	893	874	882	---	---	---	---	---	---
13	862	691	802	894	856	875	---	---	---	---	---	---
14	878	679	787	862	833	850	---	---	---	---	---	---
15	783	729	745	1,110	842	952	---	---	---	---	---	---
16	805	747	786	1,190	1,110	1,150	---	---	---	---	---	---
17	806	633	691	1,640	1,190	1,410	---	---	---	---	---	---
18	699	618	648	1,530	938	1,160	---	---	---	---	---	---
19	728	698	713	941	855	882	---	---	---	---	---	---
20	748	715	729	866	811	846	---	---	---	---	---	---
21	761	748	755	1,140	848	960	---	---	---	---	---	---
22	766	758	762	1,240	1,140	---	---	---	---	---	---	---
23	780	764	771	1,240	642	864	---	---	---	---	---	---
24	---	779	---	701	652	682	---	---	---	---	---	---
25	---	---	---	---	695	---	---	---	---	---	---	---
26	844	835	841	749	---	---	---	---	---	---	---	---
27	838	823	830	769	737	751	---	---	---	---	---	---
28	828	816	822	769	738	748	---	---	---	---	---	---
29	833	811	827	797	745	770	---	---	---	---	---	---
30	986	811	896	828	794	808	---	---	---	---	---	---
31	993	979	987	---	---	---	---	---	---	---	---	---
MONTH	1,080	530	806	1,640	642	898	1,020	608	820	1,100	849	924

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, 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	---	---	---	1,170	1,130	1,140	865	847	856	843	781	803
2	---	---	---	1,230	1,120	1,150	883	861	871	788	769	776
3	---	---	---	1,240	1,180	1,210	928	883	908	841	788	816
4	---	---	---	1,190	340	786	936	905	918	879	841	852
5	---	---	---	647	352	530	942	897	922	915	875	895
6	---	---	---	811	636	704	914	863	894	922	878	911
7	---	---	---	833	787	809	926	881	904	925	901	917
8	---	---	---	978	776	861	904	879	891	936	900	914
9	---	---	---	1,100	888	995	940	904	923	950	917	931
10	---	---	---	1,090	887	963	947	868	899	945	532	793
11	---	---	---	1,070	928	1,050	1,020	901	976	803	705	752
12	---	---	---	1,090	1,070	1,080	984	931	962	886	783	825
13	---	---	---	1,100	1,000	1,060	963	909	942	887	629	762
14	---	---	---	1,230	1,060	1,150	918	881	894	775	688	734
15	---	---	---	1,220	698	1,020	958	800	895	1,100	747	826
16	---	---	---	993	767	898	---	756	---	1,190	905	1,020
17	---	---	---	1,040	908	1,010	816	---	---	905	852	866
18	---	---	---	1,170	908	1,080	818	763	776	936	501	722
19	---	---	---	1,180	869	1,050	829	811	821	515	199	331
20	1,040	---	---	1,090	869	984	928	583	730	642	450	584
21	1,100	961	1,010	1,120	1,050	1,080	704	583	657	747	642	705
22	1,200	1,010	1,100	1,080	835	1,000	745	704	728	778	680	712
23	1,340	1,200	1,300	1,170	747	960	828	725	779	821	668	744
24	1,400	797	1,200	---	726	---	982	691	797	833	481	793
25	1,340	734	1,010	853	794	822	827	740	793	646	339	470
26	1,290	730	963	900	833	856	858	827	845	697	534	612
27	1,410	947	1,270	899	680	793	893	856	878	722	660	690
28	1,240	856	1,090	921	545	627	935	891	912	770	674	709
29	1,250	919	1,110	812	634	716	1,080	840	889	769	718	740
30	---	---	---	951	749	841	1,010	843	880	755	663	690
31	---	---	---	837	821	829	---	---	---	785	690	724
MONTH	1,410	730	1,120	1,240	340	935	1,080	583	862	1,190	199	762

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	868	726	771	1,820	1,670	1,750	1,050	958	1,010	1,110	1,040	1,080
2	901	757	837	1,670	475	1,070	958	808	881	1,160	862	1,060
3	1,040	883	970	574	475	532	1,930	822	1,410	1,290	1,100	1,200
4	1,040	956	1,020	635	574	604	1,970	1,670	1,900	1,520	1,200	1,380
5	1,060	996	1,030	735	583	643	1,670	921	1,130	1,580	974	1,410
6	1,120	1,010	1,070	605	459	512	921	819	860	1,190	619	908
7	1,130	1,090	1,120	809	473	614	819	783	809	1,400	1,190	1,290
8	1,120	916	986	752	669	697	783	758	767	1,610	1,400	1,510
9	1,380	644	935	782	722	755	759	753	755	1,610	1,260	1,430
10	773	481	609	811	782	796	770	737	758	1,960	1,300	1,630
11	526	495	509	856	811	836	1,120	765	983	---	1,820	---
12	614	501	571	856	841	848	1,140	1,060	1,110	---	2,140	---
13	642	530	571	862	835	849	1,060	1,020	1,040	2,140	1,640	1,990
14	591	538	565	835	822	828	1,020	995	1,010	2,140	1,640	1,840
15	748	576	674	828	816	822	995	987	991	2,170	1,240	1,940
16	874	613	674	975	459	622	994	985	988	---	1,700	---
17	961	823	885	712	598	668	1,010	986	996	2,210	1,850	1,960
18	864	410	543	799	706	767	1,060	1,010	1,040	2,220	466	1,220
19	956	558	800	754	739	745	1,070	1,060	1,060	1,200	974	1,110
20	1,110	956	1,020	771	754	762	1,090	1,060	1,080	1,460	1,170	1,280
21	1,230	1,110	1,170	802	771	784	1,120	1,090	1,110	1,610	1,460	1,530
22	1,320	856	1,060	1,270	802	988	1,130	1,110	1,120	1,640	1,380	1,520
23	1,620	1,320	1,540	1,680	1,090	1,190	1,130	370	1,100	1,380	1,280	1,320
24	1,690	1,440	1,540	1,160	252	663	612	168	270	1,300	1,270	1,290
25	2,040	1,670	1,920	528	321	429	---	360	---	1,270	1,230	1,250
26	2,040	1,980	2,020	718	528	646	773	422	559	1,240	1,220	1,230
27	1,980	525	1,200	912	718	827	964	372	816	1,230	1,220	1,220
28	1,010	598	656	950	790	876	489	209	330	1,240	1,220	1,230
29	1,600	1,010	1,480	1,000	852	916	---	489	---	1,370	1,240	1,290
30	1,730	1,340	1,570	1,030	977	1,010	977	---	---	1,960	1,370	1,640
31	---	---	---	1,050	999	1,020	1,070	951	1,000	---	---	---
MONTH	2,040	410	1,010	1,820	252	809	1,970	168	960	2,220	466	1,400

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, 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	8.2	7.8	7.9	7.6	7.5	7.6	8.0	7.7	7.9	8.7	8.3	8.6
2	8.1	7.7	7.8	7.5	7.5	7.5	8.0	7.6	7.8	8.7	8.0	8.3
3	8.1	7.6	7.8	7.5	7.4	7.5	8.0	7.6	7.9	8.8	7.9	8.2
4	8.2	8.0	8.1	7.6	7.4	7.6	8.3	7.8	8.0	8.7	8.3	8.5
5	8.2	7.9	8.0	7.7	7.5	7.5	8.3	8.0	8.2	9.1	8.4	8.7
6	8.0	7.8	7.9	7.9	7.7	7.8	8.4	7.9	8.1	9.0	8.2	8.6
7	8.0	7.8	7.8	7.9	7.8	7.9	8.3	8.0	8.1	---	---	---
8	7.9	7.6	7.8	7.9	7.8	7.9	8.3	7.9	8.0	---	---	---
9	7.8	7.5	7.7	7.9	7.9	7.9	8.4	7.8	8.0	---	---	---
10	7.7	7.6	7.6	7.9	7.8	7.9	8.5	8.3	8.4	---	---	---
11	7.8	7.6	7.6	7.8	7.8	7.8	8.3	8.2	8.3	---	---	---
12	7.7	7.5	7.6	7.9	7.7	7.8	---	---	---	---	---	---
13	7.8	7.6	7.7	7.9	7.8	7.8	---	---	---	---	---	---
14	7.9	7.8	7.8	7.9	7.8	7.8	---	---	---	---	---	---
15	7.9	7.8	7.8	7.8	7.8	7.8	---	---	---	---	---	---
16	7.9	7.7	7.8	7.8	7.7	7.8	---	---	---	---	---	---
17	7.9	7.7	7.8	7.8	7.7	7.8	---	---	---	---	---	---
18	7.9	7.7	7.8	7.9	7.7	7.8	---	---	---	---	---	---
19	7.9	7.7	7.8	7.9	7.8	7.8	---	---	---	---	---	---
20	7.8	7.6	7.7	7.9	7.7	7.8	---	---	---	---	---	---
21	7.7	7.6	7.7	7.9	7.8	7.8	---	---	---	---	---	---
22	7.7	7.5	7.6	7.9	7.8	7.8	---	---	---	---	---	---
23	7.6	7.5	7.6	8.0	7.8	7.9	---	---	---	---	---	---
24	7.6	7.5	7.6	8.1	7.9	8.0	---	---	---	---	---	---
25	7.7	7.6	7.6	8.1	7.9	8.0	---	---	---	---	---	---
26	7.6	7.6	7.6	8.1	7.9	8.0	---	---	---	---	---	---
27	7.6	7.6	7.6	8.1	7.8	7.9	---	---	---	---	---	---
28	7.6	7.6	7.6	8.0	7.8	7.9	---	---	---	---	---	---
29	7.7	7.6	7.6	8.0	7.8	7.9	---	---	---	---	---	---
30	7.6	7.6	7.6	8.0	7.8	7.9	---	---	---	---	---	---
31	7.6	7.6	7.6	---	---	---	---	---	---	---	---	---
MAX	8.2	8.0	8.1	8.1	7.9	8.0	8.5	8.3	8.4	9.1	8.4	8.7
MIN	7.6	7.5	7.6	7.5	7.4	7.5	8.0	7.6	7.8	8.7	7.9	8.2

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

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

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

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

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.8	13.2	14.4	11.3	10.2	10.5	6.2	5.1	5.6	6.4	3.5	5.0
2	15.3	12.5	13.9	11.5	10.3	10.9	5.5	4.5	4.9	9.0	5.9	7.7
3	14.6	13.0	13.7	14.3	11.1	12.1	4.6	3.6	3.9	8.3	4.8	6.9
4	15.7	12.5	14.2	15.0	10.9	13.3	4.6	3.5	4.0	4.8	1.5	3.0
5	17.2	14.5	15.8	10.9	8.1	9.3	3.9	2.8	3.1	2.7	1.0	1.8
6	17.5	14.5	16.2	8.5	6.4	7.6	4.2	2.7	3.3	4.2	2.1	2.8
7	18.1	15.5	16.8	7.8	5.1	6.4	4.8	3.0	3.7	---	---	---
8	18.2	15.9	17.2	6.8	5.8	6.2	5.8	3.7	4.6	---	---	---
9	18.8	17.6	18.2	7.5	5.5	6.4	6.5	2.0	5.2	---	---	---
10	18.4	17.1	17.8	8.2	6.5	7.2	2.1	0.8	1.5	---	---	---
11	18.3	16.6	17.9	10.4	8.2	9.2	1.6	0.3	0.8	---	---	---
12	16.6	13.7	15.3	11.1	8.1	10.1	---	---	---	---	---	---
13	15.5	13.3	14.3	8.1	6.4	7.1	---	---	---	---	---	---
14	16.0	13.4	14.7	8.2	6.6	7.4	---	---	---	---	---	---
15	15.1	11.9	13.6	9.1	7.8	8.3	---	---	---	---	---	---
16	14.4	12.7	13.6	9.2	7.3	8.4	---	---	---	---	---	---
17	13.4	10.6	12.1	10.8	8.5	9.4	---	---	---	---	---	---
18	14.1	11.1	12.5	11.8	9.3	10.9	---	---	---	---	---	---
19	15.1	12.3	13.8	9.6	7.3	8.7	---	---	---	---	---	---
20	16.4	14.2	15.3	10.5	7.9	9.2	---	---	---	---	---	---
21	16.4	14.3	15.5	10.2	8.3	9.2	---	---	---	---	---	---
22	16.3	13.9	15.2	8.9	7.7	8.4	---	---	---	---	---	---
23	16.3	14.1	15.3	8.3	4.2	6.4	---	---	---	---	---	---
24	16.4	13.8	15.1	4.7	3.4	4.1	---	---	---	---	---	---
25	15.5	12.6	14.2	4.4	2.9	3.8	---	---	---	---	---	---
26	12.6	10.1	11.2	5.1	3.8	4.7	---	---	---	---	---	---
27	11.8	9.1	10.6	5.5	4.4	4.7	---	---	---	---	---	---
28	13.3	10.6	11.7	5.8	4.3	4.8	---	---	---	---	---	---
29	13.6	9.9	11.6	5.5	4.4	4.8	---	---	---	---	---	---
30	14.0	11.8	12.8	5.8	4.0	4.8	---	---	---	---	---	---
31	13.3	11.3	12.5	---	---	---	5.3	---	---	---	---	---
MONTH	18.8	9.1	14.4	15.0	2.9	7.8	6.5	0.3	3.7	9.0	1.0	4.5

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, 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	---	---	---	8.4	6.3	7.3	14.4	8.7	11.5	18.9	13.3	15.4
2	---	---	---	9.2	6.2	7.6	15.8	9.6	12.6	17.4	12.1	14.6
3	---	---	---	7.6	6.6	7.0	16.6	10.4	13.0	19.1	11.0	14.8
4	---	---	---	7.8	6.4	7.1	17.0	10.0	13.0	18.2	13.3	15.5
5	---	---	---	8.0	7.3	7.7	15.6	10.3	12.8	22.4	14.4	18.0
6	---	---	---	10.7	5.9	8.1	19.8	11.6	14.9	26.4	18.0	21.7
7	---	---	---	10.9	7.2	8.8	19.9	14.0	16.4	27.7	20.6	23.8
8	---	---	---	11.5	5.7	8.5	19.7	13.2	16.3	27.6	21.4	24.3
9	---	---	---	10.9	6.9	9.1	15.8	12.0	13.6	25.9	22.2	23.9
10	---	---	---	10.7	6.5	9.0	12.9	11.2	12.0	23.7	18.7	21.8
11	---	---	---	10.9	7.0	9.0	15.8	8.1	11.8	23.8	20.6	22.1
12	---	---	---	9.8	5.4	7.8	14.8	9.3	12.1	23.5	21.8	22.5
13	---	---	---	8.6	7.7	8.1	15.6	8.8	12.2	22.5	18.1	19.9
14	---	---	---	11.6	6.8	8.9	18.0	10.4	14.1	19.3	14.1	17.1
15	---	---	---	9.2	6.7	8.1	19.1	12.5	15.6	18.5	13.9	16.4
16	---	---	---	8.0	6.2	7.2	23.9	15.3	19.1	20.8	16.2	18.3
17	---	---	---	10.2	6.0	8.1	25.3	18.1	21.3	23.8	18.7	20.7
18	---	---	---	12.9	8.2	10.3	22.3	18.9	20.0	21.6	18.0	20.0
19	---	---	---	13.2	8.4	11.0	23.5	17.3	20.1	21.6	18.9	20.3
20	6.5	---	---	16.3	11.6	14.0	21.5	17.6	19.8	24.1	20.3	21.9
21	6.4	2.5	4.6	13.5	8.3	10.9	21.2	16.3	18.7	25.4	21.7	23.4
22	7.7	4.5	6.1	12.6	7.0	9.6	19.1	15.1	17.1	24.1	21.8	23.1
23	8.3	6.0	7.1	13.8	8.0	10.9	15.6	14.0	14.8	25.2	22.0	23.2
24	6.8	4.3	5.2	12.9	11.3	12.3	16.4	13.7	14.9	23.7	20.0	22.5
25	7.7	3.8	5.3	14.8	12.8	13.7	19.5	13.7	16.1	22.1	19.9	21.2
26	8.2	3.7	5.7	19.6	14.2	16.4	20.1	13.0	16.5	20.4	18.8	19.3
27	8.4	4.5	6.3	17.2	15.4	16.6	21.3	12.8	16.9	22.7	18.5	20.3
28	9.1	5.3	7.0	16.3	13.0	14.6	22.8	15.7	19.0	23.0	19.7	21.5
29	8.9	6.4	7.6	15.2	11.6	13.2	19.6	16.9	17.5	23.8	21.6	22.7
30	---	---	---	12.4	9.8	11.0	17.2	14.8	16.4	24.8	22.8	23.7
31	---	---	---	13.1	7.4	10.4	---	---	---	24.0	18.8	21.5
MONTH	9.1	2.5	6.1	19.6	5.4	10.1	25.3	8.1	15.7	27.7	11.0	20.5

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.7	19.0	21.3	24.5	22.8	23.6	27.0	22.6	24.6	24.3	22.5	23.5
2	23.1	19.4	21.4	24.6	22.1	23.2	28.2	24.4	26.1	24.2	21.9	23.0
3	22.4	19.1	21.0	25.0	22.8	23.7	29.8	25.6	27.4	24.7	22.0	23.3
4	23.9	19.0	21.5	26.6	22.9	24.6	27.7	25.6	26.9	25.2	22.6	23.8
5	22.9	20.3	21.3	26.4	22.8	25.0	27.2	23.6	25.3	25.7	23.5	24.4
6	24.0	19.9	21.6	26.0	21.8	24.5	24.9	21.6	23.4	25.2	22.8	23.8
7	26.4	22.1	24.1	24.8	21.5	23.2	24.6	20.5	22.7	23.0	20.0	21.3
8	25.6	22.5	23.9	24.0	23.2	23.7	23.9	21.9	22.8	21.8	18.6	20.1
9	24.4	22.0	22.8	24.7	22.2	23.2	25.6	22.1	23.8	21.5	17.8	19.6
10	24.2	21.9	23.1	26.7	22.2	24.3	25.0	22.8	23.9	22.3	18.8	20.3
11	25.3	22.9	24.0	28.6	24.0	26.2	23.5	20.6	21.7	---	19.6	---
12	26.3	23.5	24.9	28.7	24.9	26.7	21.5	18.2	20.0	22.2	---	---
13	26.1	21.5	24.2	30.0	25.8	28.1	21.1	18.9	20.0	23.6	20.4	22.0
14	27.7	23.8	25.7	29.4	26.5	28.0	21.6	19.3	20.4	24.4	21.2	22.7
15	26.6	24.5	25.6	28.0	24.5	26.5	22.4	17.9	20.1	23.7	22.1	23.1
16	26.5	23.7	24.8	27.9	22.4	26.5	21.7	19.0	20.4	---	20.1	---
17	25.2	22.2	23.6	26.8	24.4	25.6	24.0	20.6	22.2	---	---	---
18	23.4	19.8	22.5	27.0	22.8	24.6	26.1	22.4	24.2	23.8	18.7	21.4
19	22.3	20.5	21.2	27.0	22.5	24.8	25.3	20.6	22.5	23.2	21.2	22.4
20	21.3	19.3	20.3	28.6	25.0	26.7	21.1	19.3	20.1	22.9	20.7	21.8
21	25.2	20.9	22.5	28.3	26.4	27.4	20.6	19.0	19.8	22.8	19.6	21.1
22	24.8	21.5	22.7	28.2	25.5	26.8	22.9	18.7	20.8	22.2	19.4	21.0
23	24.9	20.6	22.5	26.6	24.4	25.3	22.8	20.2	22.3	21.4	19.6	20.5
24	26.8	21.6	23.5	25.0	19.5	22.0	22.4	19.5	20.7	20.4	17.8	19.2
25	23.7	20.5	22.0	21.9	19.0	20.3	24.9	22.3	23.1	20.2	17.6	19.2
26	23.7	18.4	21.0	22.8	19.2	21.1	27.0	22.7	24.6	20.2	17.4	19.0
27	22.5	18.4	21.4	23.6	20.3	22.0	26.8	22.2	25.8	20.0	17.2	18.8
28	22.6	20.7	21.6	23.1	20.9	22.3	23.7	22.2	22.8	19.4	17.7	18.4
29	23.0	19.5	21.5	23.1	21.9	22.5	23.8	20.5	22.0	17.7	15.2	16.7
30	24.2	21.0	22.5	23.9	21.6	22.5	24.3	18.5	21.7	18.1	15.0	16.6
31	---	---	---	25.9	21.6	23.4	24.2	22.0	23.3	---	---	---
MONTH	27.7	18.4	22.7	30.0	19.0	24.5	29.8	17.9	22.8	25.7	15.0	21.0

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.1	8.6	9.5	4.0	3.1	3.5	---	---	---	13.8	10.8	12.2
2	11.4	8.4	9.7	3.4	0.3	2.2	---	---	---	15.0	7.5	11.3
3	11.7	7.6	9.6	2.3	0.2	1.3	12.4	10.5	11.7	15.9	6.0	10.2
4	11.8	9.6	10.6	4.3	0.2	2.3	12.6	11.0	11.6	14.2	10.4	11.7
5	12.6	8.5	10.4	4.8	3.5	4.2	---	---	---	22.7	11.8	16.6
6	11.1	7.3	9.2	6.6	4.8	5.9	---	---	---	23.9	14.3	18.8
7	9.9	7.1	8.4	7.2	5.9	6.6	---	---	---	---	---	---
8	9.5	6.0	7.6	7.4	6.3	6.8	---	---	---	---	---	---
9	7.4	5.0	6.5	7.7	6.7	7.3	---	---	---	---	---	---
10	6.5	4.6	5.3	7.3	5.6	6.6	13.1	12.0	12.5	---	---	---
11	6.7	3.7	5.0	6.0	0.3	4.2	13.6	12.2	12.9	---	---	---
12	6.2	4.2	5.0	6.9	0.2	4.7	---	---	---	---	---	---
13	6.4	4.2	5.2	6.9	6.1	6.6	---	---	---	---	---	---
14	7.8	6.2	7.0	7.7	6.0	6.8	---	---	---	---	---	---
15	8.3	5.7	7.1	6.9	4.9	6.2	---	---	---	---	---	---
16	8.0	5.4	6.4	6.3	4.5	5.3	---	---	---	---	---	---
17	8.2	6.6	7.4	6.4	2.9	4.8	---	---	---	---	---	---
18	8.6	5.5	6.8	7.8	0.9	5.0	---	---	---	---	---	---
19	8.1	4.2	6.6	7.2	4.4	5.9	---	---	---	---	---	---
20	7.2	3.1	5.3	8.2	2.6	6.0	---	---	---	---	---	---
21	5.6	2.5	4.5	8.4	4.9	7.0	---	---	---	---	---	---
22	4.4	1.0	3.2	7.7	6.5	7.2	---	---	---	---	---	---
23	4.0	1.1	2.7	10.7	6.7	9.2	---	---	---	---	---	---
24	4.0	1.5	2.7	11.6	7.3	9.7	---	---	---	---	---	---
25	4.2	2.5	3.4	12.7	8.3	10.6	---	---	---	---	---	---
26	4.0	2.9	3.5	12.6	7.2	9.7	---	---	---	---	---	---
27	4.2	3.0	3.7	12.0	6.0	8.9	---	---	---	---	---	---
28	4.6	3.1	3.9	14.0	7.0	10.0	---	---	---	---	---	---
29	5.0	2.8	3.9	13.5	7.0	10.7	---	---	---	---	---	---
30	4.1	1.8	3.0	13.6	10.2	12.1	---	---	---	---	---	---
31	4.1	2.1	3.2	---	---	---	---	---	---	---	---	---
MONTH	12.6	1.0	6.0	14.0	0.2	6.6	13.6	10.5	12.2	23.9	6.0	13.5

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, 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	---	---	---	19.0	9.9	13.8	13.5	8.4	10.6	10.9	5.3	7.4
2	---	---	---	19.2	8.6	13.8	14.4	8.0	10.9	11.9	6.2	8.5
3	---	---	---	17.0	12.7	14.5	15.4	8.1	11.4	11.7	5.2	8.2
4	---	---	---	17.6	---	---	17.2	8.9	12.2	9.8	4.8	7.4
5	---	---	---	---	---	---	16.8	9.0	12.3	10.5	5.6	7.8
6	---	---	---	11.3	10.1	10.7	18.2	9.0	12.9	7.8	3.2	5.5
7	---	---	---	10.8	9.9	10.4	15.7	8.0	11.5	8.0	3.1	5.4
8	---	---	---	11.1	9.6	10.5	15.3	8.4	11.2	9.0	3.6	6.3
9	---	---	---	10.9	9.4	10.2	14.4	7.8	10.8	9.4	3.3	6.3
10	---	---	---	11.1	9.3	10.3	14.8	8.5	11.1	7.1	3.5	5.6
11	---	---	---	11.1	9.3	10.3	16.2	8.5	12.0	9.7	4.5	6.4
12	---	---	---	11.8	9.9	10.7	16.2	8.8	12.4	7.1	4.6	5.7
13	---	---	---	11.2	9.9	10.6	14.8	9.3	12.1	7.5	4.6	6.3
14	---	---	---	11.8	9.9	10.9	16.7	10.0	13.1	9.0	6.8	7.8
15	---	---	---	11.7	9.9	10.7	13.7	7.9	11.0	9.1	6.7	7.7
16	---	---	---	12.3	10.7	11.4	14.8	7.3	10.6	8.9	6.1	7.1
17	---	---	---	12.0	9.5	11.0	13.0	5.8	9.4	13.4	5.2	8.2
18	---	---	---	12.1	9.1	10.3	11.2	5.5	8.6	8.9	3.8	6.8
19	---	---	---	12.9	8.9	10.6	12.6	4.3	8.0	7.9	6.8	7.4
20	---	---	---	14.8	7.9	10.7	10.0	4.8	7.4	7.0	6.0	6.7
21	14.6	11.1	12.5	16.4	8.6	12.1	13.0	5.9	8.8	6.5	5.4	6.1
22	15.5	10.8	12.6	15.3	9.1	12.0	9.6	4.9	7.3	6.3	5.4	5.8
23	17.1	9.7	12.6	10.5	8.5	9.4	12.2	6.0	8.5	6.1	4.1	5.2
24	17.8	10.3	12.8	12.0	8.0	9.6	11.4	6.1	8.4	7.5	5.1	6.1
25	27.9	10.8	16.0	13.0	7.6	9.6	15.0	6.4	9.7	---	---	---
26	20.4	12.4	15.9	15.4	7.5	10.4	13.0	6.4	9.4	---	---	---
27	22.0	12.1	16.6	10.1	7.0	8.6	12.0	5.3	8.2	7.3	5.7	6.6
28	21.3	9.9	15.2	8.9	8.0	8.6	9.1	4.7	6.9	7.4	5.2	6.1
29	18.5	10.3	13.3	10.1	8.2	8.7	6.4	3.3	4.6	8.1	4.6	6.1
30	---	---	---	11.5	8.2	9.5	6.4	3.3	4.8	6.1	4.0	4.9
31	---	---	---	12.6	8.9	10.4	---	---	---	6.7	4.4	5.4
MONTH	27.9	9.7	14.2	19.2	7.0	10.7	18.2	3.3	9.9	13.4	3.1	6.6

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	4.3	5.9	---	---	---	13.3	6.2	8.4	7.3	5.6	6.2
2	7.5	4.6	5.5	---	---	---	12.8	5.6	8.0	8.0	5.6	6.4
3	10.7	5.5	7.4	---	---	---	12.2	5.4	7.7	8.5	5.4	6.5
4	10.5	6.9	8.5	---	---	---	8.2	5.0	6.6	8.9	5.5	6.8
5	10.2	6.7	8.2	---	---	---	10.8	5.2	7.5	9.0	5.3	6.8
6	13.3	6.0	9.3	---	---	---	9.0	5.7	7.2	8.3	5.9	6.8
7	13.3	7.9	10.2	7.6	5.9	6.5	10.2	7.2	8.6	9.7	5.7	7.0
8	11.0	5.2	6.9	6.3	5.4	5.8	9.8	7.7	8.4	10.4	6.2	7.9
9	7.6	3.4	5.2	7.5	5.6	6.2	10.0	7.8	8.6	11.8	6.5	8.4
10	8.2	4.8	6.8	8.6	5.5	6.6	9.1	7.1	8.2	11.3	6.3	8.4
11	---	---	---	8.8	4.9	6.4	7.8	5.4	6.7	---	6.3	---
12	---	---	---	8.7	4.6	6.4	9.5	6.1	7.6	14.2	---	---
13	---	---	---	7.9	4.7	6.3	10.5	7.2	8.8	15.9	5.9	9.5
14	---	---	---	9.1	4.7	6.4	11.1	8.4	9.5	13.6	6.2	9.0
15	---	---	---	8.9	5.0	6.7	10.4	8.3	9.1	9.1	5.3	6.5
16	7.3	5.0	5.8	7.5	5.5	6.5	9.9	7.4	8.6	---	5.3	---
17	9.0	5.6	6.8	6.8	5.2	5.8	8.6	5.3	7.3	12.8	---	---
18	8.4	5.5	6.9	8.4	4.6	6.1	7.7	4.8	6.2	8.8	6.3	7.4
19	7.6	6.6	7.1	7.8	4.1	5.6	8.4	4.2	6.7	10.5	6.0	7.8
20	8.2	6.6	7.2	6.6	3.8	5.2	8.8	6.3	7.1	11.2	5.3	7.5
21	9.0	6.1	7.1	7.8	3.8	5.6	8.5	6.3	7.5	13.8	5.6	8.5
22	10.0	6.0	7.3	8.3	4.3	6.0	8.2	5.0	7.1	13.4	5.4	9.1
23	10.8	6.1	7.6	6.8	5.4	6.0	7.4	4.0	5.0	10.3	6.2	8.3
24	12.0	6.1	7.6	7.8	5.8	6.6	8.0	6.7	7.6	11.6	7.0	9.3
25	10.3	6.0	7.7	---	---	---	6.7	5.9	6.3	11.8	7.8	9.5
26	10.2	6.1	8.0	---	---	---	6.8	5.3	6.2	12.3	7.3	9.8
27	---	---	---	8.3	6.5	7.3	6.1	5.3	5.6	12.3	7.5	10.1
28	---	---	---	10.6	6.3	7.9	---	---	---	12.5	8.0	10.3
29	---	---	---	9.8	6.0	7.8	---	---	---	10.4	8.5	9.3
30	---	---	---	13.5	6.0	8.8	---	---	---	12.2	6.2	9.0
31	---	---	---	16.4	6.9	9.8	7.2	5.8	6.4	---	---	---
MONTH	13.3	3.4	7.3	16.4	3.8	6.6	13.3	4.0	7.4	15.9	5.3	8.2

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, 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	43	17	30	23	17	20	5.7	<2.0	4.0	20	14	17
2	35	15	22	26	13	21	17	2.6	6.2	23	11	16
3	27	8.6	15	32	20	24	>1,300	7.9	120	16	10	13
4	21	7.5	14	30	18	22	33	9.8	19	13	7.5	9.7
5	22	11	16	22	8.7	14	14	7.5	10	10	7.3	8.9
6	27	11	19	13	9.2	11	13	4.3	7.4	9.7	5.0	7.0
7	31	11	18	15	9.1	11	6.5	3.6	4.9	---	---	---
8	32	7.8	17	15	7.2	11	6.1	2.9	4.2	---	---	---
9	18	10	14	11	6.8	8.3	>1,300	2.4	180	---	---	---
10	19	6.4	13	8.9	4.8	6.8	110	34	48	---	---	---
11	26	8.9	15	8.9	2.3	6.0	39	16	24	---	---	---
12	24	11	17	14	3.1	8.9	---	---	---	---	---	---
13	43	15	22	13	6.8	9.5	---	---	---	---	---	---
14	120	20	39	8.5	6.3	7.3	---	---	---	---	---	---
15	28	12	19	10	5.9	7.8	---	---	---	---	---	---
16	37	15	21	12	5.9	8.6	---	---	---	---	---	---
17	100	21	49	16	5.8	9.7	---	---	---	---	---	---
18	30	12	19	9.5	3.7	6.3	---	---	---	---	---	---
19	22	12	17	12	3.6	7.1	---	---	---	---	---	---
20	31	12	19	9.7	3.2	6.1	---	---	---	---	---	---
21	31	14	20	8.8	5.1	6.9	---	---	---	---	---	---
22	30	9.7	18	8.4	4.6	5.9	---	---	---	---	---	---
23	27	12	17	170	5.0	48	---	---	---	---	---	---
24	28	14	20	25	7.2	13	---	---	---	---	---	---
25	28	16	22	9.4	4.3	7.0	---	---	---	---	---	---
26	31	19	25	6.2	4.0	4.9	---	---	---	---	---	---
27	28	18	22	5.9	3.6	4.7	---	---	---	---	---	---
28	28	17	22	6.8	2.0	3.6	---	---	---	---	---	---
29	32	17	23	6.6	<2.0	4.3	---	---	---	---	---	---
30	27	13	22	5.7	3.4	4.6	---	---	---	---	---	---
31	24	15	19	---	---	---	---	---	---	---	---	---
MONTH	120	6.4	21	170	2.0	11	1,300	2.0	39	23	5.0	12

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	24	6.0	14	33	18	24	48	28	37
2	---	---	---	70	3.2	8.1	30	15	23	39	21	29
3	---	---	---	18	4.7	7.9	34	13	23	44	24	33
4	---	---	---	>1,900	7.0	710	22	11	15	39	18	30
5	---	---	---	930	280	500	20	11	14	46	18	30
6	---	---	---	290	180	230	17	9.4	12	41	15	28
7	---	---	---	200	140	170	15	8.0	10	39	22	31
8	---	---	---	190	110	150	17	8.4	11	50	18	35
9	---	---	---	140	81	110	16	6.9	11	44	15	32
10	---	---	---	130	79	100	25	7.4	12	730	22	140
11	---	---	---	80	44	55	14	7.6	10	73	48	60
12	---	---	---	56	44	48	12	5.8	7.7	72	49	62
13	---	---	---	66	42	54	13	6.1	9.0	>1,900	71	160
14	---	---	---	56	24	36	16	8.7	11	280	58	93
15	---	---	---	440	30	100	18	8.1	13	84	41	57
16	---	---	---	120	58	82	18	9.2	13	85	50	65
17	---	---	---	65	45	52	20	8.3	13	71	38	56
18	---	---	---	64	30	43	23	11	16	>1,900	61	700
19	---	---	---	57	30	42	26	11	17	>1,900	290	760
20	---	---	---	50	19	33	490	12	97	320	150	210
21	38	24	28	26	13	19	76	26	42	150	95	120
22	24	15	19	39	11	16	40	23	31	100	71	86
23	16	11	13	420	37	140	39	25	31	95	51	73
24	14	5.9	11	130	41	72	53	26	32	>1,900	48	88
25	13	5.1	7.8	54	33	42	44	25	33	>1,900	79	440
26	10	4.3	6.8	38	22	30	36	23	28	85	52	71
27	10	3.6	6.0	120	20	35	47	21	33	55	27	42
28	31	4.5	9.7	>1,900	88	360	48	24	37	38	20	26
29	120	4.1	26	350	48	110	56	31	44	41	18	28
30	---	---	---	170	39	64	64	30	40	63	18	31
31	---	---	---	43	24	35	---	---	---	22	13	17
MONTH	120	3.6	14	1,900	3.2	110	490	5.8	24	1,900	13	120

06892440 CEDAR CREEK AT HIGHWAY 56 AT OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13	6.4	8.8	56	26	42	32	14	23	100	22	44
2	7.2	3.2	4.8	870	35	180	34	16	24	96	27	56
3	19	3.9	9.7	140	60	87	30	13	21	33	18	26
4	20	5.3	10	81	56	67	33	17	22	25	13	19
5	11	3.3	5.7	96	44	67	32	20	27	650	11	52
6	9.4	2.8	5.1	>1,900	54	310	42	20	31	790	21	86
7	9.3	3.8	5.9	82	50	65	45	19	32	35	15	26
8	25	4.0	11	85	57	70	45	21	33	42	13	22
9	130	5.0	29	77	56	67	41	21	30	24	10	16
10	240	18	96	78	39	57	46	20	32	20	10	15
11	57	17	33	71	40	56	45	20	29	25	---	---
12	46	17	32	62	39	51	33	8.0	20	---	10	---
13	61	18	37	58	29	42	27	8.0	17	22	8.0	12
14	39	20	27	63	35	48	31	9.0	19	23	9.0	14
15	43	22	32	67	28	48	29	13	21	110	11	32
16	120	32	56	>2,000	44	310	38	12	23	53	---	---
17	82	33	53	120	51	78	40	17	30	24	---	---
18	>1,900	38	410	72	54	64	38	18	28	>2,200	14	330
19	94	43	65	93	52	68	47	15	30	58	21	35
20	52	27	38	76	40	56	46	18	28	39	21	29
21	44	26	34	70	29	49	39	14	26	50	19	31
22	41	23	33	65	32	46	44	20	29	28	12	18
23	43	22	33	78	33	47	>1,900	23	96	25	12	17
24	34	23	27	>2,000	11	490	>2,000	200	500	24	9.0	15
25	44	26	35	---	---	---	410	98	150	17	7.0	11
26	40	18	28	---	---	---	330	84	160	18	7.0	11
27	890	24	150	46	28	34	>2,000	47	180	16	7.0	10
28	74	42	57	43	22	32	>2,000	---	---	18	8.0	11
29	69	33	46	48	21	34	---	---	---	22	8.0	12
30	55	31	44	51	20	33	---	29	---	20	7.0	13
31	---	---	---	33	19	25	86	28	46	---	---	---
MONTH	1,900	2.8	49	2,000	11	90	2,000	8.0	61	2,200	7.0	37

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

06892450 OLATHE LAKE NEAR OLATHE, KS

LOCATION.--Lat 38°52'54", long 94°52'31", in SE ¼ NE ¼ NE ¼ sec.32, T.13 S., R.23 E., Johnson County, Hydrologic Unit 10300101, on intake structure of Olathe Lake on Cedar Creek, 2 mi west of Olathe, and at mile 13.0.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--16.97 mi^2.

PERIOD OF RECORD.--October 2000 to current year.

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

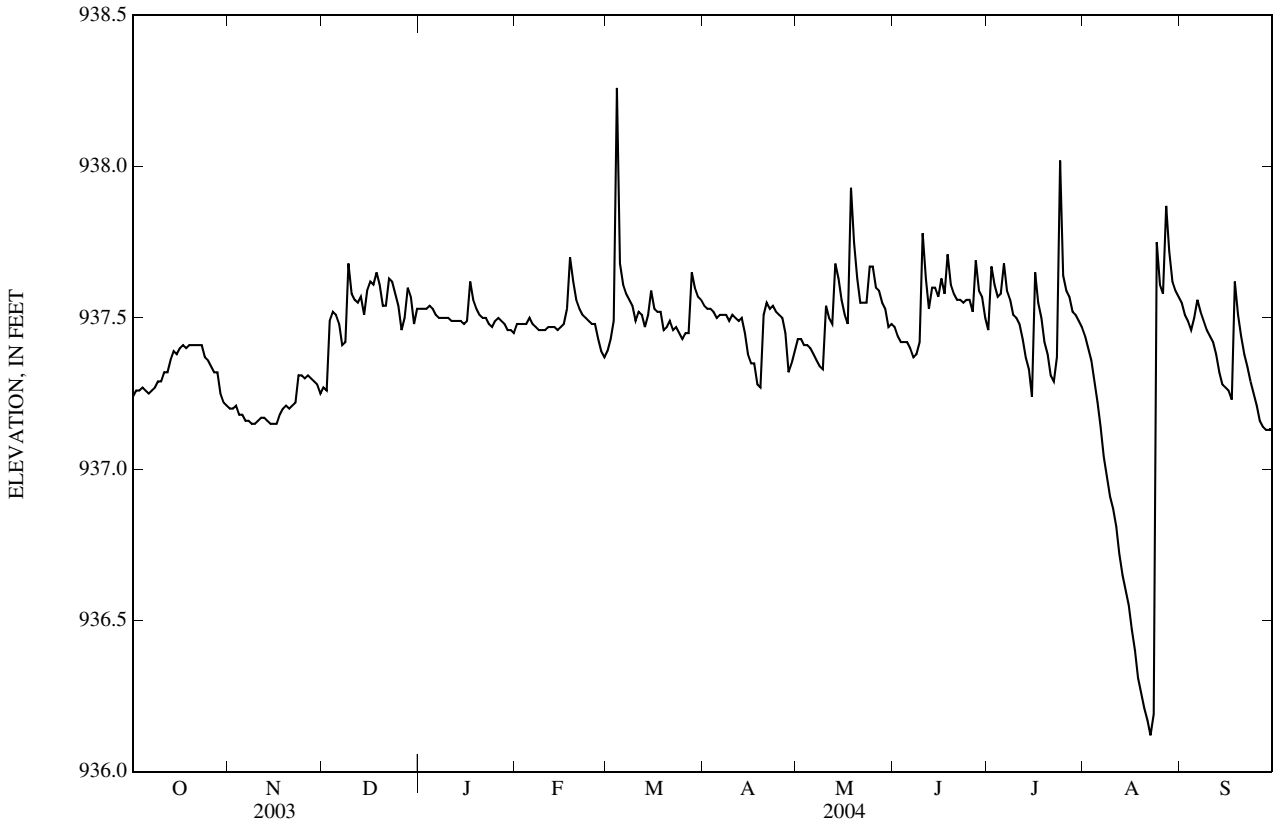
REMARKS.--Reservoir is compacted earthfill dam and concrete control structure. Filling began January 1956. Reservoir is used for water supply. Satellite telemeter at station.

EXTREMES FOR PERIODS OF RECORD.--Maximum elevation, 939.56 ft, May 19, 2004, contents 3,270 acre-ft; minimum elevation, 928.94 ft, Oct. 2, 2002, contents 1,830 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 939.56 ft, May 19, contents, 3,270 acre-ft; minimum elevation, 936.10 ft, Aug. 23, contents, 2,770 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on field survey by U.S. Geological Survey)
(Effective date Oct. 1, 2002.)

Elevation	Contents	Elevation	Contents	Elevation	Contents
934	2,470	938	3,050	940	3,330
936	2,750				



06892450 OLATHE LAKE NEAR OLATHE, 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	937.24	937.20	937.27	937.53	937.48	937.39	937.54	937.43	937.47	937.46	937.44	937.55
2	937.26	937.20	937.26	937.53	937.48	937.43	937.53	937.43	937.44	937.67	937.40	937.51
3	937.26	937.21	937.49	937.53	937.48	937.49	937.53	937.41	937.42	937.61	937.36	937.49
4	937.27	937.18	937.52	937.54	937.48	938.26	937.52	937.41	937.42	937.57	937.29	937.46
5	937.26	937.18	937.51	937.53	937.50	937.68	937.50	937.40	937.42	937.58	937.22	937.50
6	937.25	937.16	937.48	937.51	937.48	937.61	937.51	937.38	937.40	937.68	937.14	937.56
7	937.26	937.16	937.41	937.50	937.47	937.58	937.51	937.36	937.37	937.59	937.04	937.52
8	937.27	937.15	937.42	937.50	937.46	937.56	937.51	937.34	937.38	937.56	936.98	937.49
9	937.29	937.15	937.68	937.50	937.46	937.54	937.49	937.33	937.42	937.51	936.91	937.46
10	937.29	937.16	937.58	937.50	937.46	937.49	937.51	937.54	937.78	937.50	936.87	937.44
11	937.32	937.17	937.56	937.49	937.47	937.52	937.50	937.50	937.63	937.48	936.81	937.42
12	937.32	937.17	937.55	937.49	937.47	937.51	937.49	937.48	937.53	937.43	936.72	937.38
13	937.36	937.16	937.57	937.49	937.47	937.47	937.50	937.68	937.60	937.37	936.65	937.32
14	937.39	937.15	937.51	937.49	937.46	937.51	937.45	937.63	937.60	937.33	936.60	937.28
15	937.38	937.15	937.59	937.48	937.47	937.59	937.38	937.56	937.57	937.24	936.55	937.27
16	937.40	937.15	937.62	937.49	937.48	937.53	937.35	937.51	937.63	937.65	936.47	937.26
17	937.41	937.18	937.61	937.62	937.53	937.52	937.35	937.48	937.58	937.55	936.40	937.23
18	937.40	937.20	937.65	937.56	937.70	937.52	937.28	937.93	937.71	e937.50	936.31	937.62
19	937.41	937.21	937.61	937.53	937.62	937.46	937.27	937.75	937.61	e937.42	936.26	937.51
20	937.41	937.20	937.54	937.51	937.56	937.47	937.51	937.63	937.58	e937.38	936.21	937.44
21	937.41	937.21	937.54	937.50	937.53	937.49	937.55	937.55	937.56	937.31	936.17	937.38
22	937.41	937.22	937.63	937.50	937.51	937.46	937.53	937.55	937.56	937.29	936.12	937.34
23	937.41	937.31	937.62	937.48	937.50	937.47	937.54	937.55	937.55	937.37	936.19	937.29
24	937.37	937.31	937.58	937.47	937.49	937.45	937.52	937.67	937.56	938.02	937.75	937.25
25	937.36	937.30	937.54	937.49	937.48	937.43	937.51	937.67	937.56	937.64	937.61	937.21
26	937.34	937.31	937.46	937.50	937.48	937.45	937.50	937.60	937.52	937.59	937.58	937.16
27	937.32	937.30	937.50	937.49	937.43	937.45	937.45	937.59	937.69	937.57	937.87	937.14
28	937.32	937.29	937.60	937.48	937.39	937.65	937.32	937.55	937.59	937.52	937.72	937.13
29	937.25	937.28	937.57	937.46	937.37	937.60	937.35	937.53	937.57	937.51	937.62	937.13
30	937.22	937.25	937.48	937.46	---	937.57	937.39	937.47	937.50	937.49	937.59	937.13
31	937.21	---	937.53	937.45	---	937.56	---	937.48	---	937.47	937.57	---
MEAN	937.32	937.21	937.53	937.50	937.49	937.54	937.46	937.53	937.54	937.51	936.98	937.36
MAX	937.41	937.31	937.68	937.62	937.70	938.26	937.55	937.93	937.78	938.02	937.87	937.62
MIN	937.21	937.15	937.26	937.45	937.37	937.39	937.27	937.33	937.37	937.24	936.12	937.13
(+)	2,930	2,940	2,980	2,970	2,950	2,980	2,960	2,970	2,970	2,970	2,980	2,920
(#)	0	+10	+40	-10	-20	+30	-20	+10	0	0	+10	-60

CAL YR 2003 ..... (#) +20
WTR YR 2004 ..... (#) -10

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

e Estimated

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2000 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 2000 to current year.
pH: October 2000 to current year.
WATER TEMPERATURE: October 2000 to current year.
DISSOLVED OXYGEN: October 2000 to current year.
TURBIDITY (YSI 6026 sensor): October 2000 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, 758 microsiemens/cm, Mar. 4, 2004; minimum, 295 microsiemens/cm, Aug. 28, 2004.
pH: Maximum, 9.3 standard units, Sept. 4, 2004; minimum, 6.9 standard units, June 14, 2002.
WATER TEMPERATURE: Maximum, 33.7°C, Aug. 5, 2001; minimum, 1.7°C, Jan. 18, 2003.
DISSOLVED OXYGEN: Maximum, 18.0 mg/L, June 2, 2002; minimum, <0.2 mg/L, July 20, 2002.
TURBIDITY (YSI 6026 sensor): Maximum, 400 FNU, May 19, 2004; minimum, <2.0 FNU, Oct. 29, 2000.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 758 microsiemens/cm, Mar. 4; minimum, 295 microsiemens/cm, Aug. 28.
pH: Maximum, 9.3 standard units, Sept. 4; minimum, 7.4 standard units, July 6.
WATER TEMPERATURE: Maximum, 29.4°C, July 16; minimum, 1.8°C, Jan. 28.
DISSOLVED OXYGEN: Maximum, 16.1 mg/L, Apr. 6; minimum, <0.2 mg/L, Sept. 2.
TURBIDITY (YSI 6026 sensor): Maximum, 400 FNU, May 19; minimum, <2.0 FNU, June 17.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	601	594	598	626	624	625	638	636	637	678	676	677
2	606	599	602	627	624	626	638	636	637	678	677	677
3	613	600	607	627	623	625	637	636	637	680	677	678
4	616	612	614	624	622	622	639	637	637	681	679	680
5	618	608	615	623	622	623	640	638	639	683	680	681
6	620	615	618	624	623	623	641	639	640	685	682	683
7	621	614	619	626	622	624	641	640	641	687	683	685
8	619	593	609	625	624	625	642	640	641	687	684	686
9	619	593	605	626	625	625	642	639	641	689	687	688
10	599	594	596	626	625	626	641	639	640	690	687	689
11	616	596	599	627	625	626	643	639	641	691	689	690
12	605	596	602	627	625	626	645	642	643	692	689	690
13	619	599	604	627	626	626	645	643	644	692	688	691
14	613	605	608	627	626	627	647	644	645	694	689	691
15	610	605	608	627	626	627	650	647	648	693	690	691
16	614	610	612	628	626	627	651	648	650	691	689	691
17	620	613	617	628	626	627	653	651	652	691	689	689
18	620	615	618	628	626	627	659	652	656	693	689	691
19	621	617	619	628	627	628	660	658	659	700	692	694
20	622	615	619	629	628	628	662	659	661	701	691	697
21	623	618	621	629	628	629	664	662	663	698	694	697
22	624	620	622	630	629	629	666	663	664	699	696	698
23	624	618	622	630	628	629	666	665	666	703	696	700
24	626	598	609	631	629	630	671	666	668	703	701	702
25	621	614	617	632	630	631	675	669	671	704	702	703
26	625	621	623	633	632	632	674	673	674	705	703	704
27	625	623	624	635	633	634	674	672	673	707	705	706
28	626	624	625	636	634	635	674	672	673	712	706	708
29	628	625	627	636	635	635	675	671	673	713	709	712
30	628	626	627	637	635	636	677	674	676	714	712	713
31	627	625	626	---	---	---	678	676	677	716	713	715
MONTH	628	593	614	637	622	628	678	636	654	716	676	693

06892450 OLATHE LAKE NEAR OLATHE, 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	716	714	715	754	753	753	655	654	655	671	668	669
2	716	714	715	755	753	754	656	653	655	670	669	669
3	718	715	717	757	753	755	661	654	656	674	669	672
4	718	716	717	758	731	751	658	654	657	674	672	674
5	718	717	717	742	660	698	659	652	654	675	673	674
6	718	717	718	685	553	618	659	649	654	676	674	675
7	719	718	718	632	588	614	660	652	658	676	673	675
8	719	717	718	614	610	612	663	647	656	677	673	674
9	719	718	718	616	612	614	661	642	648	676	674	675
10	720	718	719	625	615	618	660	643	652	676	672	675
11	719	718	719	621	620	620	652	648	650	677	671	674
12	721	719	720	627	620	622	654	646	649	675	671	674
13	723	721	722	629	621	624	659	648	652	676	673	675
14	723	721	722	631	624	627	651	650	650	680	673	676
15	725	722	723	632	627	628	658	651	654	683	676	678
16	726	723	724	634	630	632	658	655	656	680	676	678
17	727	725	726	637	625	633	659	654	657	680	677	678
18	730	726	728	643	633	636	661	657	659	681	675	678
19	734	729	731	643	636	638	663	658	661	682	536	621
20	736	730	732	643	640	642	662	654	659	608	504	574
21	735	730	732	644	642	643	663	653	661	566	531	543
22	735	729	732	645	643	644	662	654	657	541	535	537
23	750	727	733	646	643	644	663	660	662	536	527	534
24	736	728	733	647	645	646	664	662	662	540	531	536
25	741	733	737	649	646	647	665	663	664	537	528	532
26	739	728	735	652	649	650	666	663	665	533	526	529
27	743	731	738	653	649	652	667	664	666	529	525	527
28	754	743	748	653	650	652	668	666	667	535	525	530
29	754	751	753	654	652	653	668	667	668	533	530	531
30	---	---	---	654	653	654	669	667	668	538	531	535
31	---	---	---	655	653	654	---	---	---	539	535	537
MONTH	754	714	726	758	553	653	669	642	658	683	504	620

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	543	537	539	541	516	532	503	465	481	370	355	362
2	543	538	540	552	510	524	516	472	488	388	360	374
3	541	538	540	567	537	550	519	477	505	395	372	386
4	544	533	541	558	529	542	515	500	508	396	376	386
5	544	531	537	564	523	541	512	485	500	397	382	386
6	542	532	536	568	525	546	497	489	492	443	385	410
7	541	532	534	562	520	535	500	494	495	413	398	404
8	536	530	534	561	513	530	502	494	496	416	406	412
9	534	531	532	549	516	527	508	495	502	413	406	408
10	534	528	531	554	531	542	508	493	503	421	405	410
11	535	527	532	560	509	534	505	493	498	424	406	414
12	536	530	533	557	533	545	502	498	500	424	404	413
13	538	529	533	549	534	541	499	497	498	410	404	408
14	542	531	537	552	534	543	500	497	499	416	408	412
15	542	531	539	550	490	538	501	496	498	430	414	421
16	546	537	542	557	488	531	501	497	499	432	423	427
17	548	524	544	542	520	534	504	498	501	428	420	425
18	556	513	544	531	506	516	506	499	503	430	424	427
19	554	529	546	527	501	506	508	496	504	430	425	427
20	534	526	531	525	507	517	501	495	498	433	427	431
21	541	527	533	531	510	520	505	491	497	441	432	437
22	537	520	529	531	500	522	501	490	495	454	437	441
23	536	513	521	532	495	517	497	487	492	452	438	443
24	539	520	529	546	482	506	493	410	470	457	446	450
25	536	524	528	501	463	486	475	409	456	452	442	449
26	530	520	525	506	491	499	461	436	453	450	442	446
27	533	522	527	503	494	498	455	425	446	447	442	445
28	549	524	532	501	479	489	446	295	363	457	443	447
29	542	533	535	504	478	491	384	332	347	463	449	454
30	539	530	536	507	490	500	386	337	353	453	449	451
31	---	---	---	502	462	488	376	344	358	---	---	---
MONTH	556	513	535	568	462	522	519	295	474	463	355	420

06892450 OLATHE LAKE NEAR OLATHE, 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	8.0	7.7	7.8	7.6	7.5	7.5	7.9	7.8	7.8	8.1	8.1	8.1
2	8.3	7.8	8.0	7.6	7.5	7.5	7.9	7.8	7.9	8.1	8.1	8.1
3	8.4	7.9	8.2	7.7	7.5	7.6	7.9	7.8	7.9	8.1	8.1	8.1
4	8.5	8.1	8.2	7.7	7.5	7.6	7.9	7.8	7.9	8.1	8.1	8.1
5	8.9	7.9	8.1	7.6	7.5	7.6	7.9	7.8	7.9	8.1	8.1	8.1
6	8.3	7.9	8.1	7.6	7.6	7.6	7.9	7.9	7.9	8.1	8.1	8.1
7	8.4	7.9	8.1	7.7	7.6	7.6	7.9	7.9	7.9	8.1	8.1	8.1
8	8.9	8.0	8.3	7.6	7.6	7.6	7.9	7.9	7.9	8.2	8.1	8.1
9	8.8	7.9	8.3	7.7	7.6	7.6	7.9	7.9	7.9	8.2	8.1	8.1
10	8.9	8.6	8.7	7.7	7.6	7.7	7.9	7.9	7.9	8.2	8.1	8.2
11	8.7	7.8	8.6	7.7	7.6	7.7	7.9	7.9	7.9	8.2	8.1	8.2
12	8.9	8.1	8.3	7.7	7.6	7.6	7.9	7.9	7.9	8.2	8.1	8.2
13	8.6	7.5	8.3	7.7	7.6	7.7	7.9	7.9	7.9	8.1	8.1	8.1
14	8.1	7.7	7.9	7.7	7.7	7.7	7.9	7.9	7.9	8.1	8.1	8.1
15	8.2	7.8	8.1	7.7	7.7	7.7	7.9	7.9	7.9	8.2	8.1	8.1
16	8.3	7.9	8.0	7.8	7.7	7.7	8.0	7.9	7.9	8.1	8.1	8.1
17	8.3	7.7	7.8	7.8	7.7	7.8	8.0	7.9	8.0	8.1	8.1	8.1
18	8.2	7.8	8.0	7.8	7.7	7.8	8.0	8.0	8.0	8.2	8.1	8.1
19	8.3	7.7	7.9	7.8	7.7	7.8	8.0	8.0	8.0	8.2	8.1	8.2
20	8.5	7.6	8.1	7.9	7.8	7.8	8.0	8.0	8.0	8.2	8.2	8.2
21	8.5	7.6	7.9	7.9	7.8	7.8	8.0	8.0	8.0	8.2	8.1	8.2
22	8.4	7.7	7.9	7.8	7.7	7.8	8.0	8.0	8.0	8.2	8.2	8.2
23	8.4	7.6	8.0	7.7	7.7	7.7	8.0	8.0	8.0	8.3	8.2	8.2
24	8.8	7.5	8.6	7.8	7.7	7.8	8.0	8.0	8.0	8.3	8.2	8.3
25	8.2	7.8	8.1	7.8	7.8	7.8	8.0	8.0	8.0	8.3	8.3	8.3
26	7.8	7.5	7.6	7.8	7.8	7.8	8.0	8.0	8.0	8.3	8.2	8.3
27	7.6	7.6	7.6	7.8	7.8	7.8	8.0	8.0	8.0	8.3	8.3	8.3
28	7.7	7.5	7.6	7.8	7.8	7.8	8.0	8.0	8.0	8.3	8.3	8.3
29	7.7	7.5	7.6	7.8	7.8	7.8	8.0	8.0	8.0	8.3	8.3	8.3
30	7.7	7.6	7.6	7.9	7.8	7.8	8.1	8.0	8.0	8.3	8.3	8.3
31	7.6	7.6	7.6	---	---	---	8.1	8.0	8.1	8.4	8.3	8.3
MAX	8.9	8.6	8.7	7.9	7.8	7.8	8.1	8.0	8.1	8.4	8.3	8.3
MIN	7.6	7.5	7.6	7.6	7.5	7.5	7.9	7.8	7.8	8.1	8.1	8.1

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

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

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.7	8.0	8.4	8.9	8.0	8.3	9.1	7.6	8.7	7.7	7.6	7.6
2	8.9	8.3	8.6	8.9	7.6	8.7	8.8	7.6	8.5	7.7	7.6	7.6
3	8.9	8.6	8.7	8.5	7.6	7.7	8.9	7.5	7.7	9.1	7.6	7.7
4	8.9	8.4	8.6	8.7	7.5	8.2	8.2	7.5	7.6	9.3	7.7	8.5
5	9.0	8.3	8.8	8.8	7.5	8.2	8.7	7.5	7.9	9.2	8.0	9.1
6	8.9	8.5	8.8	8.5	7.4	7.9	8.8	8.1	8.6	9.0	7.8	8.4
7	8.9	8.6	8.9	8.6	7.5	8.4	8.9	8.1	8.7	9.0	8.6	8.8
8	8.9	8.7	8.8	8.7	7.4	8.5	8.8	8.1	8.7	9.0	8.6	8.7
9	8.8	8.5	8.7	8.6	7.6	8.4	8.9	7.8	8.3	9.1	8.7	8.9
10	8.6	8.4	8.6	8.3	7.5	7.8	8.9	7.8	8.1	9.2	8.3	9.0
11	8.7	8.3	8.4	8.8	7.5	7.8	8.9	7.9	8.6	9.1	7.9	8.6
12	8.8	8.0	8.5	7.9	7.5	7.6	8.8	8.3	8.5	9.1	7.9	8.7
13	8.5	7.9	8.3	7.8	7.5	7.7	8.8	8.3	8.6	9.0	8.8	8.9
14	8.8	7.9	8.0	8.2	7.4	7.6	8.7	8.4	8.5	8.9	8.6	8.7
15	9.0	7.8	8.0	8.7	7.5	7.6	8.8	8.3	8.7	8.7	8.0	8.5
16	8.2	7.7	7.9	8.5	7.4	7.7	8.9	8.4	8.7	8.6	8.0	8.2
17	8.8	7.8	7.9	8.2	7.4	7.5	8.8	8.1	8.6	8.6	8.0	8.4
18	8.9	7.6	7.7	8.5	7.5	8.2	8.6	8.0	8.3	8.5	8.1	8.3
19	8.3	7.6	7.7	8.8	7.7	8.6	8.6	7.9	8.3	8.8	8.2	8.4
20	8.7	8.0	8.3	8.6	7.7	8.0	8.6	8.3	8.4	8.7	8.3	8.5
21	8.5	7.6	8.1	8.2	7.5	7.8	8.8	8.1	8.5	8.6	8.2	8.4
22	8.8	7.7	8.3	8.8	7.6	7.7	9.0	8.2	8.7	8.8	7.8	8.4
23	9.0	7.6	8.8	8.8	7.6	7.8	8.9	8.2	8.8	8.6	7.8	8.3
24	8.8	7.6	8.1	8.6	7.6	8.0	8.8	7.8	8.4	8.4	8.0	8.2
25	8.5	7.7	8.3	7.7	7.6	7.6	8.5	7.8	8.3	8.9	8.0	8.1
26	8.8	8.1	8.5	7.7	7.5	7.5	8.9	7.7	8.6	8.9	7.8	8.6
27	8.5	7.6	8.4	7.9	7.4	7.5	8.9	7.7	8.3	8.9	8.5	8.7
28	8.2	7.6	7.9	8.9	7.4	8.8	8.6	7.7	8.0	8.9	7.8	8.6
29	8.6	8.0	8.5	8.9	7.5	8.0	8.2	7.8	7.9	8.7	7.7	8.2
30	8.7	8.1	8.3	8.1	7.5	7.7	8.6	7.7	7.8	8.7	8.2	8.5
31	---	---	---	9.2	7.6	7.9	7.8	7.6	7.7	---	---	---
MAX	9.0	8.7	8.9	9.2	8.0	8.8	9.1	8.4	8.8	9.3	8.8	9.1
MIN	8.2	7.6	7.7	7.7	7.4	7.5	7.8	7.5	7.6	7.7	7.6	7.6

06892450 OLATHE LAKE NEAR OLATHE, 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	18.8	18.4	18.5	15.0	14.6	14.8	7.4	7.1	7.2	4.4	4.1	4.3
2	18.7	18.1	18.4	14.7	14.4	14.5	7.2	6.8	7.0	4.9	4.3	4.7
3	18.4	18.0	18.1	14.9	14.3	14.5	6.8	6.6	6.7	4.9	4.7	4.8
4	18.0	17.7	17.8	14.8	14.4	14.6	6.7	6.5	6.6	4.7	4.4	4.6
5	19.2	17.7	18.1	14.4	13.6	14.0	6.5	6.0	6.2	4.4	3.7	4.1
6	18.3	17.7	18.0	13.6	12.9	13.3	6.0	5.7	5.9	3.8	3.2	3.5
7	18.5	17.9	18.1	13.1	12.6	12.8	5.7	5.6	5.7	3.4	2.7	3.0
8	20.0	18.2	18.8	12.6	12.1	12.3	5.8	5.5	5.7	3.1	2.6	2.9
9	20.1	18.4	19.2	12.2	11.9	12.0	5.8	5.4	5.7	3.2	3.0	3.1
10	19.9	19.4	19.6	11.9	11.7	11.8	5.4	4.8	5.1	3.1	2.6	2.9
11	19.6	18.4	19.2	12.2	11.8	11.9	5.0	4.4	4.7	3.1	2.8	2.9
12	19.5	18.4	18.6	11.9	11.6	11.8	4.4	4.0	4.2	3.3	2.9	3.1
13	18.7	17.9	18.4	11.7	11.3	11.4	4.0	3.5	3.8	3.3	2.9	3.2
14	18.1	17.6	17.8	11.3	11.0	11.1	3.8	3.6	3.7	3.6	3.0	3.3
15	18.0	17.5	17.7	11.0	10.9	10.9	3.7	3.5	3.6	3.4	3.1	3.3
16	17.8	17.2	17.6	11.7	10.8	11.1	3.7	3.5	3.5	3.6	3.3	3.4
17	17.9	17.0	17.1	11.4	10.9	11.1	3.5	3.3	3.4	3.6	3.5	3.6
18	17.6	16.8	17.1	11.2	11.1	11.1	3.5	3.4	3.5	3.6	3.3	3.5
19	17.2	16.8	16.9	11.1	10.9	11.0	3.5	3.3	3.4	3.3	2.7	3.2
20	17.8	16.8	17.3	11.2	10.8	11.0	3.4	3.0	3.3	3.1	2.4	2.5
21	17.6	16.9	17.2	11.3	10.9	11.0	3.5	3.3	3.4	3.3	2.5	2.8
22	17.4	17.0	17.2	10.9	10.7	10.8	3.5	3.4	3.5	3.1	2.7	2.9
23	17.6	17.0	17.3	10.7	10.0	10.5	3.6	3.4	3.5	2.9	2.5	2.7
24	18.7	16.9	17.7	10.0	9.1	9.6	3.7	3.2	3.5	2.9	2.6	2.9
25	17.4	16.7	17.0	9.1	8.8	8.9	3.4	3.1	3.3	2.9	2.6	2.8
26	16.7	16.1	16.4	8.8	8.5	8.6	3.6	3.3	3.4	2.8	2.4	2.6
27	16.1	15.7	15.8	8.6	8.2	8.4	4.0	3.6	3.8	2.4	2.0	2.1
28	15.7	15.5	15.7	8.2	7.7	8.0	4.0	3.9	4.0	2.1	1.8	2.0
29	15.5	15.4	15.5	7.7	7.4	7.5	4.1	3.7	4.0	2.2	2.0	2.1
30	15.5	15.3	15.4	7.4	7.2	7.3	4.2	3.9	4.0	2.4	2.2	2.3
31	15.3	15.0	15.2	---	---	---	4.4	4.0	4.2	2.4	2.3	2.4
MONTH	20.1	15.0	17.5	15.0	7.2	11.3	7.4	3.0	4.5	4.9	1.8	3.1

06892450 OLATHE LAKE NEAR OLATHE, 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	2.5	2.4	2.5	5.2	5.0	5.1	12.1	11.8	11.9	16.6	16.3	16.5
2	2.6	2.5	2.5	5.3	5.1	5.1	13.0	11.8	12.0	16.6	16.3	16.4
3	2.7	2.5	2.6	5.5	5.2	5.3	13.0	11.7	12.1	17.6	16.1	16.8
4	2.7	2.6	2.7	6.0	5.3	5.5	13.6	12.3	12.6	17.1	16.2	16.7
5	2.7	2.7	2.7	6.4	5.9	6.2	14.0	13.0	13.5	18.8	16.5	17.6
6	2.7	2.7	2.7	7.4	6.2	6.7	14.6	13.2	13.6	19.8	18.2	18.9
7	2.7	2.7	2.7	7.2	6.9	7.1	14.1	13.0	13.3	21.0	19.3	20.1
8	2.7	2.7	2.7	7.8	7.0	7.2	14.6	12.4	13.4	22.0	20.2	21.1
9	2.7	2.7	2.7	7.8	7.2	7.4	14.8	13.1	14.3	22.1	21.3	21.7
10	2.7	2.7	2.7	8.1	7.5	7.7	13.9	13.1	13.7	22.1	21.2	21.6
11	2.8	2.7	2.7	8.0	7.7	7.8	13.5	13.1	13.3	22.4	21.1	21.8
12	2.8	2.7	2.8	9.7	7.7	8.1	14.2	13.1	13.5	22.3	21.8	22.0
13	2.9	2.8	2.8	9.7	8.0	8.6	13.5	12.8	13.2	22.1	20.9	21.5
14	2.9	2.8	2.9	8.2	7.8	7.9	14.3	13.3	13.7	20.9	19.7	20.2
15	3.0	2.9	2.9	8.2	7.9	8.0	14.6	13.7	14.1	21.4	19.6	20.2
16	3.1	3.0	3.0	8.0	7.8	7.9	15.7	14.3	14.8	21.3	19.8	20.6
17	3.1	3.0	3.0	9.1	7.7	8.2	17.0	15.4	16.1	21.5	20.4	20.9
18	3.2	3.0	3.1	8.6	7.8	8.1	16.8	16.3	16.5	21.2	20.5	21.0
19	3.5	3.1	3.3	9.2	8.4	8.7	16.8	15.9	16.2	21.9	19.9	21.1
20	3.6	3.3	3.4	9.5	9.1	9.3	18.1	16.6	17.6	23.0	21.2	21.9
21	3.7	3.4	3.5	9.3	9.1	9.2	17.9	16.6	16.9	24.1	21.4	22.9
22	4.0	3.5	3.7	9.8	9.0	9.4	17.8	16.8	17.4	23.9	23.1	23.5
23	4.2	3.4	3.9	10.1	9.3	9.7	16.8	16.5	16.6	23.7	22.3	23.1
24	4.0	3.7	3.8	10.2	9.8	10	16.6	16.3	16.4	24.3	23.3	23.9
25	4.2	3.7	3.9	10.8	10.2	10.5	16.4	16.0	16.1	23.9	22.6	23.2
26	5.3	3.8	4.3	12.7	10.8	11.4	16.4	15.9	16.1	23.1	22.6	22.8
27	5.3	3.8	4.4	12.7	11.9	12.2	17.7	16.1	16.9	23.0	22.2	22.5
28	4.7	4.3	4.5	12.3	12.0	12.1	17.6	16.9	17.2	25.2	22.2	22.7
29	5.0	4.6	4.8	12.4	12.0	12.2	17.2	17.0	17.1	24.6	23.7	24.1
30	---	---	---	12.2	12.0	12.1	17.0	16.6	16.8	24.0	22.9	23.5
31	---	---	---	12.1	11.7	11.8	---	---	---	23.5	22.9	23.2
MONTH	5.3	2.4	3.2	12.7	5.0	8.6	18.1	11.7	14.9	25.2	16.1	21.1

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.4	22.9	23.1	25.9	23.9	24.7	27.7	23.8	25.8	23.6	23.1	23.3
2	23.6	22.9	23.2	25.7	24.0	25.0	27.2	24.3	26.0	23.8	23.2	23.5
3	23.5	23.1	23.3	25.0	24.0	24.4	---	25.2	---	25.1	23.3	23.9
4	23.8	23.2	23.3	25.3	24.2	24.9	26.6	25.1	25.9	26.5	23.6	24.8
5	24.8	23.3	24.0	26.1	24.2	25.3	27.4	25.6	26.5	26.1	24.4	25.6
6	25.4	23.7	24.4	26.0	24.4	25.2	27.4	26.3	26.7	25.7	24.0	24.7
7	25.4	24.4	25.0	26.9	24.7	25.5	27.1	26.0	26.6	25.0	24.3	24.5
8	25.5	24.7	25.1	27.0	24.8	26.0	26.8	25.8	26.3	24.4	23.9	24.1
9	25.4	24.6	25.0	26.2	25.0	25.6	26.4	25.5	25.9	24.6	23.7	24.0
10	24.7	24.4	24.5	25.8	25.0	25.2	26.2	25.4	25.8	25.2	23.8	24.2
11	25.2	24.2	24.6	28.8	24.9	26.3	26.2	25.4	25.6	25.0	23.8	24.2
12	25.9	24.3	25.1	26.7	25.2	25.9	25.4	24.7	24.9	25.5	23.9	24.6
13	25.4	24.4	24.7	26.6	25.7	26.2	24.9	24.4	24.6	25.1	24.2	24.7
14	26.3	24.4	24.7	27.1	25.9	26.4	24.5	24.2	24.3	25.0	24.1	24.6
15	27.5	24.4	25.0	28.9	26.2	26.9	25.6	24.2	24.6	24.8	23.9	24.3
16	25.7	24.5	24.8	29.4	25.8	27.3	24.9	24.2	24.5	24.3	23.7	23.9
17	25.9	24.6	25.0	27.8	26.9	27.3	24.6	24.0	24.3	23.9	23.5	23.7
18	25.8	24.0	24.9	27.9	27.4	27.7	24.6	23.9	24.2	23.8	23.0	23.4
19	24.7	24.2	24.5	29.3	27.5	28.3	24.6	23.9	24.2	24.2	23.1	23.6
20	25.0	24.1	24.4	29.0	27.7	28.2	24.1	23.6	23.8	23.8	23.0	23.4
21	24.6	23.9	24.2	28.6	27.6	28.0	24.0	23.4	23.7	23.6	22.7	23.1
22	24.7	23.9	24.3	29.1	27.8	28.2	25.0	23.5	23.9	23.9	22.8	23.2
23	25.3	24.0	24.7	29.1	27.8	28.2	24.6	23.7	24.3	23.4	22.8	23.0
24	25.2	24.0	24.6	28.2	23.9	26.6	24.3	21.9	23.4	22.8	22.3	22.5
25	24.8	24.0	24.3	24.3	23.2	23.7	24.1	21.8	23.4	23.0	22.3	22.4
26	25.7	24.3	24.8	24.0	23.3	23.6	26.0	22.6	24.4	22.7	22.3	22.4
27	25.0	24.0	24.5	24.2	23.2	23.5	26.0	23.2	24.8	22.6	22.2	22.4
28	24.1	23.7	23.9	25.6	23.4	24.7	25.5	22.7	23.6	22.6	22.1	22.3
29	24.3	23.7	24.0	25.5	23.6	24.5	24.2	23.1	23.5	22.3	21.7	21.9
30	24.8	23.8	24.0	24.4	23.7	24.0	24.3	22.9	23.4	22.3	21.5	21.9
31	---	---	---	26.7	23.7	24.4	23.7	22.9	23.4	---	---	---
MONTH	27.5	22.9	24.4	29.4	23.2	25.9	27.7	21.8	24.7	26.5	21.5	23.6

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	4.5	5.7	5.8	5.3	5.5	9.2	8.9	9.0	11.4	11.2	11.3
2	10.1	6.5	8.5	6.1	5.1	5.5	9.4	8.9	9.2	11.4	11.2	11.3
3	9.4	6.5	8.5	6.6	5.3	5.9	9.4	9.2	9.3	11.3	11.2	11.3
4	9.6	7.9	8.4	6.6	5.8	6.2	9.4	9.2	9.3	11.3	11.2	11.2
5	13.7	7.3	9.2	6.3	5.3	6.0	9.7	9.3	9.5	11.5	11.2	11.3
6	9.6	6.5	7.9	6.5	6.0	6.3	10.1	9.4	9.6	11.6	11.4	11.5
7	10.1	7.2	8.3	6.8	6.1	6.4	10.1	9.6	9.9	11.9	11.5	11.7
8	15.2	7.7	10.9	6.7	6.2	6.5	10.1	9.7	10	11.9	11.6	11.7
9	14.4	7.6	11.0	6.9	6.4	6.6	10.0	9.7	9.9	11.9	11.6	11.8
10	14.3	12.6	13.3	6.8	6.5	6.7	10.3	9.8	10.2	12.2	11.8	12.0
11	12.8	5.7	11.2	7.0	6.3	6.7	10.5	10.0	10.3	12.1	11.9	12.1
12	12.9	8.9	9.8	7.0	6.2	6.6	10.6	9.8	10.4	12.3	12.0	12.2
13	10.8	3.6	8.9	6.8	6.5	6.7	10.7	10.3	10.5	12.5	12.1	12.3
14	8.2	5.6	7.0	7.4	6.6	7.0	10.6	10.1	10.4	12.4	12.1	12.3
15	7.7	6.5	7.1	7.5	7.1	7.3	10.8	10.3	10.6	12.6	12.4	12.5
16	8.1	6.3	7.0	7.8	7.1	7.5	10.9	10.4	10.7	12.5	12.4	12.5
17	8.4	5.2	5.9	7.8	7.4	7.6	11.0	10.5	10.8	12.5	12.3	12.4
18	8.0	5.5	6.8	7.7	7.2	7.5	10.9	10.6	10.8	12.9	12.3	12.5
19	8.8	5.0	6.5	7.5	7.1	7.3	11.0	10.8	10.9	12.8	12.4	12.6
20	10.4	5.1	7.9	7.9	7.2	7.6	11.0	10.9	10.9	13.2	12.6	12.8
21	10.2	5.4	7.3	7.9	7.4	7.7	11.1	11.0	11.0	13.1	12.4	12.8
22	9.2	5.9	7.2	7.6	7.3	7.4	11.1	10.9	11.0	13.1	12.6	12.9
23	10.1	5.5	7.7	7.9	7.3	7.6	11.1	10.9	11.0	13.2	13.0	13.1
24	14.5	4.4	10.9	8.2	7.8	8.0	11.2	10.9	11.0	13.4	13.1	13.2
25	9.2	6.6	8.2	8.4	8.1	8.3	11.2	11.1	11.1	13.3	13.1	13.2
26	6.6	4.3	5.5	8.5	8.2	8.3	11.3	11.1	11.2	13.2	12.8	13.1
27	5.9	5.5	5.7	8.4	8.2	8.3	11.3	11.2	11.2	13.3	12.8	13.2
28	5.9	5.4	5.7	8.7	8.3	8.5	11.2	11.1	11.1	13.6	13.3	13.4
29	6.4	5.1	5.8	8.9	8.5	8.8	11.2	11.0	11.1	13.6	13.4	13.5
30	6.7	5.4	6.0	9.2	8.8	9.0	11.3	11.0	11.2	13.7	13.5	13.6
31	6.0	5.7	5.9	---	---	---	11.5	11.2	11.3	13.8	13.5	13.7
MONTH	15.2	3.6	7.9	9.2	5.1	7.2	11.5	8.9	10.5	13.8	11.2	12.4

06892450 OLATHE LAKE NEAR OLATHE, 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	14.0	13.7	13.8	12.3	12.1	12.2	9.6	8.8	9.2	7.4	6.6	7.0
2	14.0	13.7	13.9	12.3	12.0	12.1	10.9	8.6	9.2	7.4	6.5	7.1
3	14.1	13.8	14.0	12.3	12.0	12.2	10.9	8.4	9.2	7.8	6.8	7.4
4	14.2	14.0	14.1	12.1	11.4	11.8	12.6	9.1	10.4	7.9	7.0	7.6
5	14.1	13.9	14.0	11.5	10.9	11.1	14.9	11.8	13.3	8.7	7.1	8.0
6	14.1	13.9	14.0	10.9	10.4	10.7	16.1	11.4	13.7	9.3	8.1	8.7
7	14.0	13.9	14.0	10.5	10.3	10.4	14.9	10.4	12.1	10.4	8.4	9.3
8	14.0	13.5	13.9	10.4	10.1	10.3	14.9	8.5	11.8	10.6	8.9	9.7
9	13.9	13.4	13.8	10.3	10.0	10.1	15.9	9.4	14.2	10.0	8.9	9.6
10	14.3	13.6	13.9	10.1	9.9	10.0	14.7	8.9	12.0	9.6	8.1	8.8
11	14.4	13.7	14.0	10.0	9.8	9.9	13.0	11.5	12.1	9.3	7.8	8.6
12	14.4	13.2	13.9	9.9	9.7	9.8	13.4	10.4	12.5	9.0	8.0	8.4
13	14.3	13.1	13.8	9.9	9.7	9.8	12.8	8.1	11.1	8.4	7.2	7.7
14	14.6	13.4	14.3	9.7	9.5	9.6	12.4	11.5	12.0	10.0	6.7	8.0
15	14.5	13.3	14.2	9.7	9.5	9.6	11.9	9.9	10.8	10.6	8.8	9.6
16	14.4	13.4	14.1	9.7	9.4	9.6	11.1	9.9	10.4	10.8	8.6	9.8
17	14.2	13.2	13.8	9.7	9.3	9.6	12.0	9.8	10.7	10.5	9.2	9.8
18	14.0	13.1	13.6	9.7	9.3	9.5	10.8	9.3	9.9	9.7	7.9	9.1
19	14.0	12.5	13.5	9.6	9.4	9.5	11.1	8.3	9.1	9.0	7.2	8.2
20	13.7	12.7	13.4	9.6	9.4	9.5	11.5	8.8	10.3	8.0	6.2	7.3
21	14.0	13.1	13.4	9.6	9.4	9.5	11.9	7.9	8.7	7.4	6.4	7.0
22	13.8	13.2	13.5	10.2	9.4	9.7	12.0	8.8	10.5	7.3	6.7	7.0
23	13.9	12.3	13.4	10.1	9.7	9.9	9.1	8.0	8.5	7.2	5.7	6.5
24	13.3	12.9	13.0	9.9	9.7	9.9	8.3	7.5	7.9	---	---	---
25	13.0	12.6	12.8	9.9	9.6	9.8	7.8	6.9	7.3	---	---	---
26	13.2	12.5	12.8	10.0	9.6	9.8	7.8	6.7	7.4	---	---	---
27	13.4	12.7	12.9	9.8	9.5	9.7	8.8	7.3	8.0	7.0	5.4	6.3
28	12.8	12.5	12.6	9.7	9.2	9.5	8.5	7.9	8.2	11.0	5.5	6.2
29	12.6	12.3	12.4	9.7	9.2	9.4	8.0	7.4	7.7	10.1	8.6	9.3
30	---	---	---	9.6	9.0	9.4	7.5	6.7	7.1	8.9	5.7	7.4
31	---	---	---	9.7	8.8	9.1	---	---	---	9.3	7.0	7.9
MONTH	14.6	12.3	13.6	12.3	8.8	10.1	16.1	6.7	10.2	11.0	5.4	8.1

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.4	6.4	8.3	12.4	5.5	8.2	12.2	2.5	8.1	1.5	0.4	0.9
2	11.6	7.7	9.5	11.8	1.8	8.6	10.5	2.4	7.0	1.1	<0.2	0.7
3	12.0	9.8	10.6	8.2	1.3	4.1	12.1	3.8	6.1	10.3	0.6	2.7
4	12.5	8.6	9.7	9.4	1.5	6.3	6.0	2.3	3.8	12.1	0.7	5.7
5	12.5	7.6	10.7	10.1	0.7	5.9	9.6	2.4	5.1	9.9	3.7	8.5
6	11.2	8.3	10	8.2	0.7	4.6	8.9	5.7	7.6	9.0	1.7	5.2
7	10.0	7.6	9.1	9.3	1.0	6.3	9.3	4.8	7.8	9.0	6.2	7.4
8	7.6	6.2	6.9	10.7	0.5	6.8	8.9	4.9	7.7	9.0	6.6	7.5
9	6.8	5.8	6.3	9.6	2.5	7.2	9.7	2.9	5.6	11.0	7.2	8.9
10	6.6	5.8	6.1	6.8	1.2	3.9	9.6	2.8	5.4	12.7	5.6	9.2
11	6.9	5.4	5.9	12.5	0.4	6.0	9.2	3.6	7.0	12.0	3.9	7.7
12	7.0	5.0	5.9	4.9	0.7	2.6	8.1	5.3	6.4	11.9	3.7	8.1
13	5.8	3.0	4.6	4.5	0.9	2.6	8.8	6.1	7.3	10.6	8.5	9.4
14	---	---	---	9.4	0.5	4.5	8.3	5.9	6.7	9.1	7.2	8.1
15	---	---	---	13.7	3.7	6.2	9.4	6.7	8.1	7.9	4.0	6.1
16	---	---	---	11.0	2.5	6.1	9.4	7.1	8.5	7.3	3.8	5.2
17	8.8	4.0	5.0	7.8	2.9	4.4	9.1	4.9	7.4	7.6	3.8	6.5
18	9.1	1.4	4.0	10.0	4.6	7.8	7.3	4.0	6.0	7.1	5.4	6.4
19	6.5	1.6	3.1	11.7	6.1	10.2	7.5	3.3	5.3	8.9	5.3	6.9
20	9.0	5.4	6.9	10.1	5.4	7.2	6.8	5.3	6.0	8.5	6.6	7.5
21	7.8	2.5	5.6	10.2	4.5	6.9	8.2	4.8	6.4	7.8	5.8	6.8
22	10.5	3.4	6.6	11.6	4.8	6.5	9.6	4.6	7.3	9.6	5.6	7.3
23	12.3	3.2	9.4	11.5	3.8	6.5	8.7	4.8	7.2	8.8	5.2	7.0
24	9.9	1.9	6.0	9.4	5.8	7.4	7.6	1.8	5.7	7.8	5.0	6.6
25	8.6	2.4	6.4	6.4	4.5	5.5	6.7	1.7	4.8	9.7	5.6	6.5
26	9.7	6.6	8.1	5.7	3.8	4.4	9.5	2.2	6.7	10.4	5.2	8.1
27	8.1	2.0	6.6	6.0	2.9	3.8	9.6	3.0	6.3	10.8	8.1	9.2
28	6.7	2.0	5.0	12.4	2.9	8.8	7.6	2.9	4.9	10.7	4.5	8.4
29	9.2	6.6	8.3	12.4	3.6	7.5	6.0	3.0	4.2	9.3	4.0	6.5
30	9.5	6.4	7.6	7.2	3.1	4.7	6.6	1.8	3.3	9.3	6.8	8.0
31	---	---	---	12.9	2.0	6.0	3.1	0.9	1.9	---	---	---
MONTH	12.5	1.4	7.1	13.7	0.4	6.0	12.2	0.9	6.2	12.7	0.2	6.8

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

06892450 OLATHE LAKE NEAR OLATHE, 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	---	---	---	9.5	5.7	7.7	7.7	4.3	6.1	6.9	4.4	5.5
2	---	---	---	14	6.0	8.8	9.5	4.6	7.2	8.2	4.7	5.8
3	---	---	---	---	---	---	9.3	5.1	7.3	8.0	4.8	5.7
4	---	---	---	---	---	9.6	9.5	4.5	6.5	8.2	4.8	6.3
5	---	---	---	13	6.7	9.5	9.7	6.2	7.7	8.6	5.4	7.0
6	---	---	---	15	9.0	11	9.4	5.1	6.8	9.3	5.2	7.0
7	---	---	---	12	6.4	9.2	9.8	5.6	7.6	8.4	5.4	6.8
8	---	---	---	13	6.4	9.3	10	4.1	6.9	8.1	5.5	6.4
9	---	---	---	12	7.6	9.5	9.8	4.2	6.6	8.4	5.9	7.2
10	11	---	8.2	12	8.1	9.5	12	5.6	8.2	8.4	5.8	6.7
11	---	---	---	11	5.4	7.1	10	4.3	6.5	8.5	5.5	6.7
12	---	---	7.0	11	6.0	8.3	10	4.8	6.6	7.5	5.3	6.1
13	---	---	---	10	5.9	7.9	9.4	4.2	6.5	8.1	5.3	6.1
14	---	---	---	10	5.5	7.8	11	2.8	6.9	8.2	5.4	6.4
15	---	---	6.7	8.7	5.2	7.2	10	4.3	6.6	7.6	5.3	6.3
16	8.3	4.1	6.5	9.2	5.2	6.6	10	4.1	6.5	8.3	5.4	6.5
17	8.5	4.1	6.6	9.3	5.1	7.1	7.6	3.0	4.3	8.2	5.5	6.6
18	8.0	3.6	4.9	11	5.4	7.9	5.4	3.3	4.5	8.4	6.4	7.5
19	6.9	2.6	4.2	10	6.3	7.6	6.1	3.4	4.6	8.9	6.4	7.7
20	6.5	2.6	3.9	9.2	6.2	7.3	5.2	3.0	3.9	8.7	5.9	7.4
21	6.1	2.4	3.7	8.3	4.7	6.7	5.0	3.0	3.8	9.2	6.2	7.4
22	5.8	2.4	4.1	8.3	5.0	6.4	5.5	2.9	3.9	9.9	6.8	8.0
23	6.9	2.4	3.9	11	6.1	8.1	6.0	3.3	4.5	11	6.6	8.9
24	7.9	3.2	5.1	12	7.7	9.8	6.4	3.3	4.5	11	7.0	9.0
25	7.7	4.9	6.1	12	5.1	8.6	5.3	3.4	4.2	11	6.4	8.7
26	9.7	4.5	6.2	8.9	5.0	7.0	6.3	3.9	4.8	---	---	---
27	9.7	5.0	6.8	9.0	5.0	6.8	6.6	3.7	4.7	---	---	---
28	11	5.0	7.3	11	5.3	7.6	6.0	3.0	4.0	---	---	---
29	12	5.7	8.6	10	5.4	7.4	4.9	3.1	4.0	---	---	---
30	12	5.2	8.5	8.1	5.1	6.6	6.9	3.6	5.1	---	---	---
31	10	6.1	8.2	---	---	---	7.7	4.1	5.1	---	---	---
MONTH	12	2.4	6.1	15	4.7	8.1	12	2.8	5.7	11	4.4	6.9

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	10	6.9	8.2	15	9.1	12	---	---	---
2	---	---	---	10	7.1	8.4	15	8.8	10	---	---	---
3	---	---	---	12	6.6	8.1	17	7.3	11	---	---	11
4	---	---	---	140	7.0	18	17	6.1	9.8	13	6.0	8.4
5	---	---	---	180	85	130	15	7.7	9.8	8.3	4.2	6.3
6	---	---	---	220	100	160	12	5.6	8.0	7.6	4.7	5.9
7	---	---	---	170	110	130	9.5	4.6	6.9	7.8	4.7	6.0
8	---	---	---	110	91	98	14	5.1	7.9	7.2	4.3	5.8
9	---	---	---	97	66	81	9.0	4.6	6.7	7.0	4.2	6.0
10	---	---	---	74	53	66	8.2	4.3	6.0	7.5	4.2	5.5
11	---	---	---	60	42	51	8.0	4.2	5.8	8.2	3.9	5.9
12	---	---	---	52	35	40	7.8	3.2	5.1	9.6	5.4	6.9
13	---	---	---	40	33	36	13	3.5	5.8	9.8	4.3	6.3
14	---	---	---	40	28	33	11	4.2	6.2	16	5.0	8.9
15	---	---	---	33	26	29	16	5.8	8.6	9.8	5.7	7.7
16	---	---	---	31	23	27	32	6.6	9.6	9.8	4.6	6.9
17	---	---	---	27	21	23	31	6.5	8.4	11	4.4	6.8
18	---	---	---	29	22	24	14	6.6	8.3	11	3.7	5.7
19	---	---	---	29	21	25	15	5.4	9.5	400	5.3	110
20	---	---	---	29	23	25	12	5.4	6.8	---	---	---
21	---	---	---	36	23	26	11	4.3	6.5	---	---	---
22	6.7	2.3	3.7	31	22	26	12	4.0	6.4	---	---	---
23	6.6	2.3	4.0	28	22	25	26	8.5	15	---	---	---
24	6.5	4.3	5.3	29	22	24	---	23	---	---	---	---
25	7.7	5.1	5.9	24	19	21	---	---	---	---	---	---
26	7.6	5.0	6.0	22	16	19	---	---	---	---	---	25
27	8.2	5.3	6.7	20	15	17	---	---	---	30	22	25
28	8.7	6.0	7.4	19	14	16	---	---	---	24	16	20
29	10	6.7	8.1	18	12	14	---	---	---	20	16	18
30	---	---	---	21	11	14	---	---	---	26	13	17
31	---	---	---	20	12	15	---	---	---	16	9.7	13
MONTH	10	2.3	5.9	220	6.6	40	32	3.2	8.3	400	3.7	15

06892450 OLATHE LAKE NEAR OLATHE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14	9.4	11	11	3.2	6.4	22	8.6	15	40	28	32
2	12	6.8	9.3	9.1	3.6	6.5	19	6.6	13	34	22	27
3	12	4.9	6.7	12	3.6	6.8	17	8.0	12	28	17	22
4	7.9	3.2	4.8	11	4.2	6.9	21	8.8	14	27	14	19
5	5.3	2.9	3.9	8.8	4.9	7.0	20	7.7	11	25	11	16
6	6.4	3.2	4.8	15	5.1	7.6	16	8.9	12	25	12	20
7	9.5	4.5	6.5	9.4	4.2	6.6	14	8.4	12	19	11	14
8	8.6	4.4	7.0	14	4.8	9.0	16	7.8	11	20	9.8	14
9	8.5	3.8	5.6	9.7	5.6	7.3	14	7.7	11	17	9.4	13
10	9.5	3.8	6.4	8.7	4.2	6.1	15	7.6	12	18	9.4	14
11	---	7.0	8.7	20	5.5	11	14	8.9	11	20	10	14
12	---	---	---	---	---	---	16	8.4	11	19	12	15
13	---	---	---	---	---	---	15	8.3	11	19	12	14
14	---	---	---	---	---	8.0	14	7.0	9.4	17	11	13
15	5.1	2.1	3.3	12	4.3	7.1	17	7.7	11	25	10	14
16	4.5	2.0	2.9	14	4.0	7.4	18	9.3	13	24	6.8	12
17	12	<2.0	4.0	14	4.8	8.8	16	9.6	12	17	6.7	12
18	9.2	2.7	5.1	12	6.5	9.1	20	9.4	14	19	10	14
19	11	3.6	6.2	14	6.8	10	19	10	13	18	10	14
20	8.9	3.8	6.2	14	6.4	9.0	23	9.6	13	21	11	15
21	8.9	3.2	5.3	14	7.2	9.8	23	8.8	14	21	11	15
22	11	4.0	6.6	20	5.2	9.0	16	9.5	13	18	12	14
23	---	---	---	15	6.5	10	21	12	16	---	---	---
24	---	---	---	180	8.7	41	---	14	35	---	7.3	9.6
25	---	---	---	130	34	72	---	---	---	12	7.1	9.1
26	---	---	---	42	17	30	64	24	36	11	5.7	7.9
27	---	---	---	23	11	17	40	20	29	11	5.7	8.0
28	---	---	---	19	12	16	310	20	160	9.7	5.9	7.7
29	---	---	---	22	11	15	140	62	93	14	6.1	8.2
30	7.8	2.9	4.5	28	11	16	71	39	53	14	8.2	10
31	---	---	---	23	9.7	15	46	30	38	---	---	---
MONTH	14	2.0	5.9	180	3.2	13	310	6.6	24	40	5.7	14

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

06892460 CEDAR CREEK BELOW OLATHE LAKE NEAR OLATHE, KS

LOCATION.--Lat 38°53'01", long 94°52'47", in NW ¼ NW ¼ NE ¼ sec.32, T.13 S., R.23 E., Johnson County, Hydrologic Unit 10270104, on right upstream bank of Cedar Creek, 2 mi west of Olathe, and at mile 1.9.

DRAINAGE AREA.--17.3 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is sea level (NGVD 29).

REMARKS.--Records fair. Majority of flow regulated by Olathe Lake located 0.5 mi upstream. Satellite telemeter at station.

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

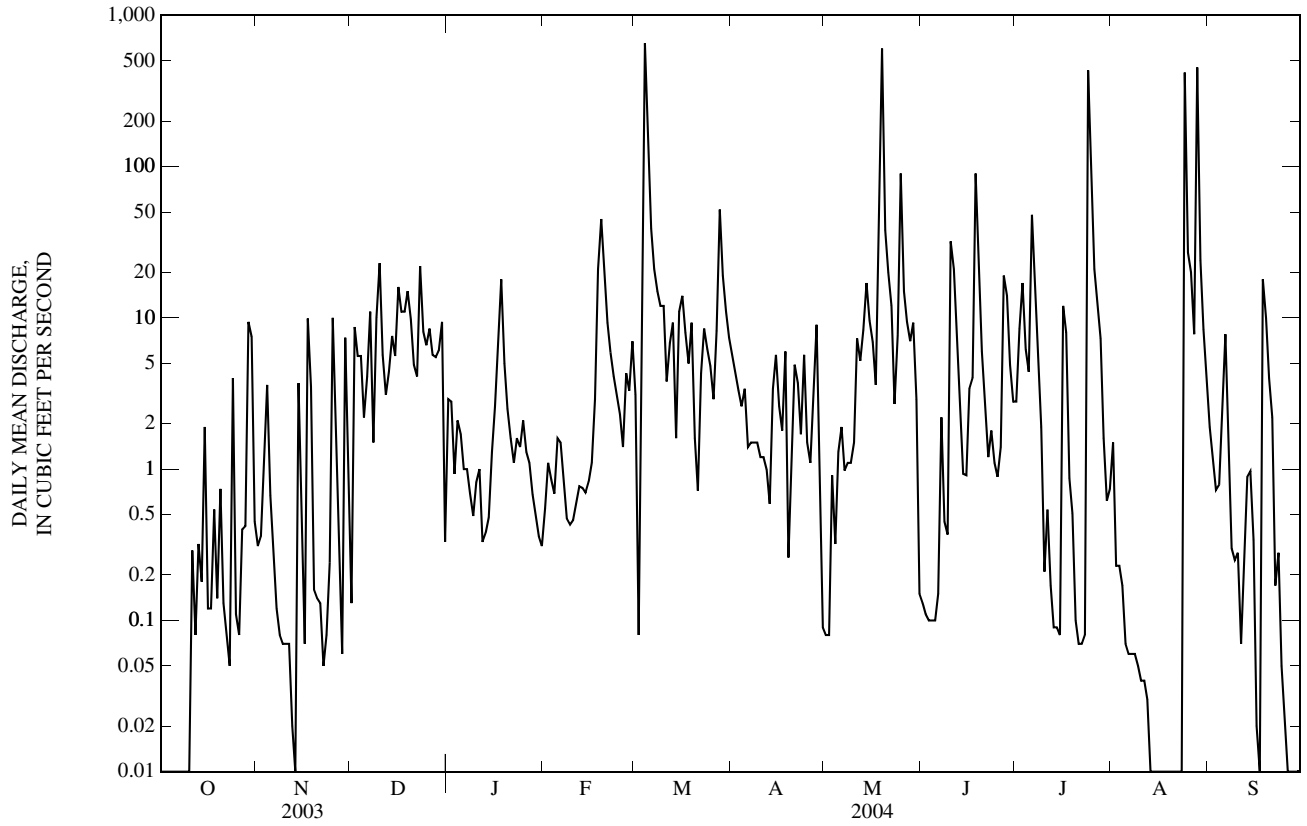
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.31	0.13	2.9	0.55	3.1	5.7	0.08	0.13	2.8	1.5	1.9
2	0.00	0.36	8.7	2.8	1.1	0.08	4.4	0.08	0.11	8.5	0.23	1.2
3	0.00	1.2	5.6	0.93	0.85	0.73	3.3	0.91	0.10	17	0.23	0.73
4	0.00	3.6	5.6	2.1	0.69	653	2.6	0.32	0.10	6.2	0.17	0.79
5	0.00	0.67	2.2	1.7	1.6	188	3.4	1.3	0.10	4.4	0.07	2.6
6	0.00	0.31	4.1	1.0	1.5	39	1.4	1.9	0.15	48	0.06	7.8
7	0.00	0.12	11	1.0	0.82	21	1.5	0.98	2.2	15	0.06	2.0
8	0.00	0.08	1.5	0.69	0.47	15	1.5	1.1	0.45	4.5	0.06	0.30
9	0.00	0.07	10	0.49	0.43	12	1.5	1.1	0.37	1.9	0.05	0.25
10	0.00	0.07	23	0.82	0.46	12	1.2	1.5	32	0.21	0.04	0.28
11	0.29	0.07	5.7	1.0	0.60	3.8	1.2	7.3	21	0.54	0.04	0.07
12	0.08	0.02	3.1	0.33	0.77	6.8	0.99	5.2	6.6	0.17	0.03	0.27
13	0.32	0.00	4.4	0.38	0.75	9.3	0.59	8.3	2.2	0.09	0.01	0.89
14	0.18	3.7	7.6	0.48	0.70	1.6	3.4	17	0.93	0.09	0.00	0.97
15	1.9	0.60	5.6	1.3	0.83	11	5.7	9.6	0.91	0.08	0.00	0.34
16	0.12	0.07	16	2.6	1.1	14	2.6	6.9	3.4	12	0.00	0.02
17	0.12	9.9	11	7.0	2.9	8.0	1.8	3.6	4.0	8.0	0.00	0.01
18	0.54	3.5	11	18	21	5.0	6.0	47	90	0.87	0.00	18
19	0.14	0.16	15	5.0	45	9.3	0.26	603	17	0.51	0.00	10
20	0.74	0.14	9.8	2.5	22	1.6	0.98	38	6.0	0.10	0.00	4.0
21	0.13	0.13	4.9	1.6	9.3	0.72	4.9	20	3.0	0.07	0.00	2.2
22	0.08	0.05	4.1	1.1	5.9	4.3	3.7	12	1.2	0.07	0.00	0.17
23	0.05	0.08	22	1.6	4.1	8.5	1.7	2.7	1.8	0.08	0.00	0.28
24	4.0	0.24	8.1	1.4	3.1	6.2	5.7	7.7	1.1	433	418	0.05
25	0.11	10	6.6	2.1	2.3	4.8	1.5	90	0.89	101	27	0.02
26	0.08	0.73	8.5	1.3	1.4	2.9	1.1	15	1.4	21	20	0.00
27	0.40	0.17	5.7	1.1	4.3	8.2	2.9	9.4	19	13	7.8	0.00
28	0.42	0.06	5.5	0.68	3.3	52	9.0	7.0	14	7.3	452	0.00
29	9.4	7.4	6.1	0.49	7.0	19	0.96	9.3	4.9	1.6	24	0.00
30	7.5	1.3	9.4	0.36	---	11	0.09	2.9	2.8	0.62	8.4	0.00
31	0.45	---	0.33	0.31	---	7.4	---	0.15	---	0.74	4.0	---
MEAN	0.87	1.50	7.81	2.10	4.99	36.8	2.72	30.0	7.93	22.9	31.1	1.84
MAX	9.4	10	23	18	45	653	9.0	603	90	433	452	18
MIN	0.00	0.00	0.13	0.31	0.43	0.08	0.09	0.08	0.10	0.07	0.00	0.00
AC-FT	54	89	481	129	287	2,260	162	1,850	472	1,410	1,910	109

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

MEAN	2.00	0.53	2.67	1.16	3.68	12.8	8.66	21.5	14.4	6.44	8.47	3.54
MAX	5.12	1.50	7.81	2.10	5.99	36.8	19.5	42.8	38.8	22.9	31.1	6.71
(WY)	(2002)	(2004)	(2004)	(2004)	(2002)	(2004)	(2002)	(2002)	(2001)	(2004)	(2004)	(2001)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.28	4.82	3.22	0.00	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)

06892460 CEDAR CREEK BELOW OLATHE LAKE NEAR OLATHE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL MEAN	2.69		12.7		7.07	
HIGHEST ANNUAL MEAN					12.7	2004
LOWEST ANNUAL MEAN					1.83	2003
HIGHEST DAILY MEAN	69	Aug 31	653	Mar 4	653	Mar 4, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 5, 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jul 20, 2001
MAXIMUM PEAK FLOW			2,050	May 19	2,050	May 19, 2004
MAXIMUM PEAK STAGE			82.08	May 19	82.08	May 19, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	May 16, 2001
ANNUAL RUNOFF (AC-FT)	1,950		9,210		5,120	
10 PERCENT EXCEEDS	8.6		15		10	
50 PERCENT EXCEEDS	0.07		1.5		0.13	
90 PERCENT EXCEEDS	0.00		0.05		0.00	



06892495 CEDAR CREEK NEAR DESOTO, KS

LOCATION.--Lat 38°58'41", long 94°55'22", in NW ¼ NE ¼ SW ¼ sec.25, T.12 S., R.22 E., Johnson County, Hydrologic Unit 10270104, on left upstream bank of 83rd Street bridge, 2 mi east of DeSoto, and at mile 1.0.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--58.4 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is sea level (NAVD 88).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow can be affected by backwater from Kansas River. Flow regulated by Olathe Lake 6 mi upstream and controls 13.3 mi^2 of drainage basin. 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	12	5.7	5.4	17	12	44	33	17	15	12	18	28
2	5.1	4.3	5.1	18	16	27	30	15	12	49	e17	22
3	3.4	4.6	17	17	15	25	27	11	9.6	58	e13	19
4	3.0	4.5	14	17	15	2,190	24	10	8.5	31	e10	15
5	3.0	4.0	8.1	20	16	e860	23	11	7.6	26	7.7	13
6	3.1	4.6	7.7	14	17	e163	22	8.7	7.5	846	6.7	41
7	2.8	4.7	8.3	12	15	83	20	9.6	7.1	103	6.6	25
8	2.8	4.2	14	13	13	59	20	8.1	7.9	47	6.1	18
9	3.4	4.3	25	12	13	50	20	8.2	8.0	34	6.5	14
10	3.9	4.5	55	11	12	46	19	34	54	26	6.1	11
11	4.5	4.9	31	12	13	79	18	29	62	20	6.0	9.2
12	5.5	5.1	24	12	13	53	18	26	26	16	6.4	8.2
13	6.7	4.7	23	11	13	30	17	36	27	12	5.7	7.2
14	11	5.4	22	10	13	27	16	60	19	10	5.2	6.7
15	7.1	5.2	27	10	14	31	20	44	15	9.7	4.8	7.3
16	5.1	5.7	44	12	15	43	19	29	16	29	4.5	9.2
17	5.4	6.5	39	23	18	32	17	25	31	37	4.4	7.4
18	6.3	6.9	33	50	32	27	16	50	184	19	4.7	41
19	5.0	8.1	39	33	102	26	18	1,010	68	11	4.4	40
20	4.0	7.2	32	25	86	24	19	89	34	9.7	5.7	22
21	4.5	6.9	29	22	56	19	37	48	26	7.4	6.7	16
22	3.9	5.5	22	20	45	18	25	34	21	7.0	5.1	12
23	3.9	15	45	20	40	25	19	26	16	6.5	5.6	7.8
24	4.8	6.7	37	20	35	27	20	21	13	e1,480	410	7.2
25	4.5	5.8	28	20	32	23	21	272	9.8	e334	224	6.2
26	4.5	5.3	27	22	29	21	16	64	7.8	76	36	5.5
27	4.0	5.4	28	19	27	23	13	59	23	51	129	5.3
28	3.8	4.9	28	16	29	114	16	38	46	39	1,480	4.9
29	4.2	4.5	28	14	31	67	18	30	22	32	101	4.7
30	5.4	5.0	25	12	---	46	18	28	16	23	49	4.9
31	7.2	---	24	11	---	39	---	19	---	20	36	---
MEAN	4.96	5.67	25.6	17.6	27.1	140	20.6	70.0	27.3	112	84.9	14.6
MAX	12	15	55	50	102	2,190	37	1,010	184	1,480	1,480	41
MIN	2.8	4.0	5.1	10	12	18	13	8.1	7.1	6.5	4.4	4.7
AC-FT	305	337	1,580	1,080	1,560	8,610	1,230	4,300	1,630	6,910	5,220	870

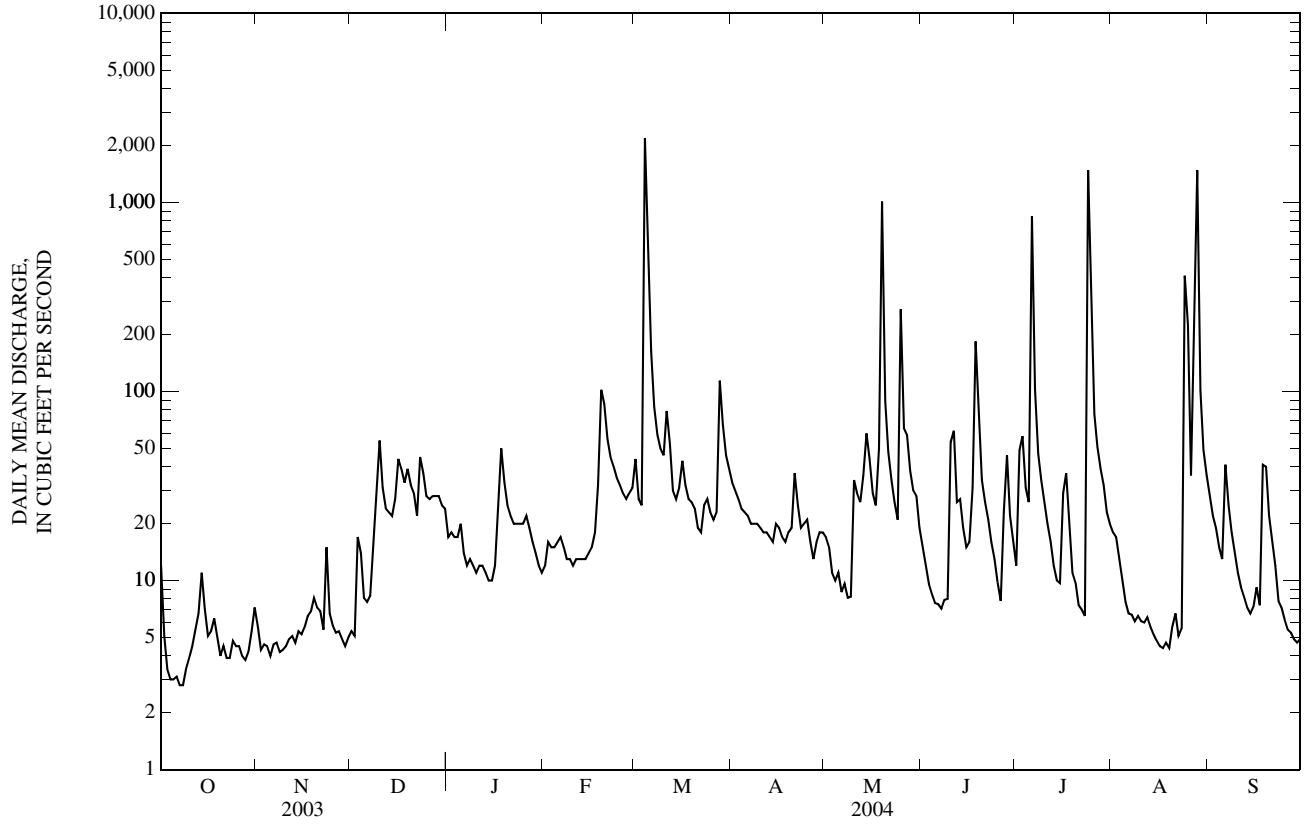
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	5.17	5.18	14.5	10.5	16.3	73.0	18.7	45.0	28.3	58.4	60.0	16.0
MAX	5.38	5.67	25.6	17.6	27.1	140	20.6	70.0	29.3	112	84.9	17.3
(WY)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2003)
MIN	4.96	4.70	3.44	3.36	5.12	5.97	16.7	20.1	27.3	4.52	35.1	14.6
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL MEAN	14.5		46.3		29.5	
HIGHEST ANNUAL MEAN					46.3	2004
LOWEST ANNUAL MEAN					12.6	2003
HIGHEST DAILY MEAN	992	Aug 31	2,190	Mar 4	2,190	Mar 4, 2004
LOWEST DAILY MEAN	1.5	Jul 27	2.8	Oct 7	1.3	Oct 1, 2002
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 5	3.1	Oct 3	1.5	Aug 5, 2003
MAXIMUM PEAK FLOW			6,140	Mar 4	6,140	Mar 4, 2004
MAXIMUM PEAK STAGE			62.98	Mar 4	62.98	Mar 4, 2004
INSTANTANEOUS LOW FLOW			2.4	Jul 23	1.2	Oct 1, 2002
ANNUAL RUNOFF (AC-FT)	10,510		33,620		21,360	
10 PERCENT EXCEEDS	29		50		39	
50 PERCENT EXCEEDS	5.0		17		7.7	
90 PERCENT EXCEEDS	2.1		4.9		2.6	

e Estimated



06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 2000 to current year.
pH: October 2000 to current year.
WATER TEMPERATURE: October 2000 to current year.
DISSOLVED OXYGEN: October 2000 to current year.
TURBIDITY (YSI 6136 sensor): October 2000 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions, malfunction of the recording instrument or sensors, or during days of no streamflow. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs International (YSI) 6136 sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,560 microsiemens/cm, Mar. 17, 2003; minimum, 202 microsiemens/cm, July 6, 2004.
pH: Maximum, 9.1 standard units, Aug. 6, 2003; minimum, 7.4 standard units, July 6, 2004.
WATER TEMPERATURE: Maximum, 31.9°C, July 18, 2003; minimum, 0.0°C, Feb. 7, 2004.
DISSOLVED OXYGEN: Maximum, 22.9 mg/L, Apr. 12, 2003; minimum, 1.2 mg/L, July 19, 2003.
TURBIDITY (YSI 6136 sensor): Maximum, >2,100 FNU, June 23, 2003; minimum, <0.1 FNU, Nov. 12, 2003.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,560 microsiemens/cm, Dec. 17; minimum, 202 microsiemens/cm, July 6.
pH: Maximum, 8.9 standard units, Jan. 2; minimum, 7.4 standard units, July 6.
WATER TEMPERATURE: Maximum, 31.2°C, July 13; minimum, 0.0°C, Jan. 21.
DISSOLVED OXYGEN: Maximum, 18.8 mg/L, Jan. 10; minimum, 4.6 mg/L, July 22.
TURBIDITY (YSI 6136 sensor): Maximum, 1,960 FNU, July 6; minimum, <2.0 FNU, Jan. 10.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	1,130	1,100	1,110	854	827	836	809	793	798
2	1,020	973	993	1,100	1,070	1,090	835	825	830	812	774	793
3	1,060	1,020	1,040	1,070	1,050	1,060	889	810	839	785	766	771
4	1,070	1,050	1,060	1,080	1,050	1,060	1,010	889	975	876	785	817
5	1,050	1,000	1,030	1,110	1,080	1,100	1,020	982	1,000	900	866	884
6	1,000	939	975	1,120	1,110	1,110	984	927	954	902	863	882
7	940	867	910	1,130	1,120	1,120	927	719	825	898	870	880
8	867	808	842	1,120	1,100	1,110	720	683	692	943	898	925
9	808	781	794	1,100	1,080	1,080	888	689	741	984	941	968
10	793	781	785	1,090	1,070	1,080	883	435	612	1,010	984	997
11	796	784	791	1,120	1,090	1,100	669	597	649	1,040	1,000	1,020
12	837	795	814	1,120	1,110	1,120	727	669	699	1,070	1,030	1,060
13	866	837	853	1,130	1,120	1,130	766	727	750	1,080	1,060	1,070
14	911	852	882	1,140	1,130	1,130	844	766	801	1,080	1,060	1,070
15	922	911	916	1,150	1,140	1,140	897	844	874	1,100	1,070	1,080
16	927	918	923	1,160	1,140	1,150	966	893	910	1,100	1,040	1,070
17	927	919	923	1,140	1,120	1,130	1,560	966	1,350	1,040	938	979
18	959	926	940	1,120	1,110	1,120	1,130	967	1,010	1,060	913	965
19	993	958	978	1,130	1,120	1,120	967	925	939	1,060	785	879
20	990	952	976	1,140	1,130	1,130	947	882	932	803	785	791
21	953	919	936	1,140	1,130	1,140	882	841	850	833	803	818
22	919	900	911	1,130	1,120	1,130	855	810	842	880	833	855
23	910	900	904	1,120	1,080	1,090	874	803	826	881	855	868
24	915	902	909	1,140	1,090	1,120	937	783	867	891	869	877
25	940	915	927	1,120	1,060	1,090	783	758	768	914	891	900
26	978	940	958	1,060	1,020	1,040	789	765	772	936	914	928
27	1,030	978	1,010	1,030	1,020	1,020	806	789	799	985	936	951
28	1,090	1,030	1,060	1,040	1,020	1,030	806	787	797	1,000	949	976
29	1,150	1,090	1,120	1,040	958	1,010	796	779	786	988	953	962
30	1,180	1,150	1,160	958	852	903	875	796	851	1,080	988	1,040
31	1,180	1,130	1,150	---	---	---	853	791	813	1,140	1,080	1,130
MONTH	1,180	781	949	1,160	852	1,090	1,560	435	845	1,140	766	936

06892495 CEDAR CREEK NEAR DESOTO, 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	1,180	1,130	1,160	918	860	874	754	718	738	863	801	833
2	1,230	1,170	1,190	905	871	883	764	743	749	801	783	787
3	1,250	1,210	1,230	905	827	871	765	748	756	827	789	802
4	1,220	1,130	1,180	---	---	---	772	751	762	863	826	852
5	1,130	1,070	1,100	---	---	---	776	762	770	867	860	863
6	1,110	1,070	1,080	679	646	667	781	760	771	876	867	871
7	1,200	1,110	1,160	682	674	680	766	759	762	874	863	869
8	1,260	1,200	1,240	727	676	700	766	750	757	883	872	876
9	1,340	1,260	1,310	755	696	723	762	746	752	888	878	884
10	1,330	1,270	1,310	775	722	746	766	758	763	892	618	777
11	1,270	1,220	1,250	782	749	764	819	766	784	807	704	769
12	1,250	1,200	1,230	806	738	756	838	819	827	790	581	676
13	1,230	1,170	1,200	819	804	813	841	815	829	741	583	647
14	1,210	1,170	1,190	818	799	807	847	829	837	740	577	693
15	1,320	1,210	1,280	799	749	765	852	814	834	693	670	681
16	1,370	1,320	1,350	802	737	783	817	801	810	704	681	691
17	1,370	1,310	1,340	737	689	701	847	815	829	732	704	713
18	1,310	1,080	1,200	747	698	725	848	814	830	746	689	730
19	1,240	817	981	759	746	750	822	797	805	734	467	612
20	838	817	828	789	759	772	835	813	827	662	629	645
21	838	825	832	795	756	779	831	764	780	718	662	685
22	865	837	855	756	728	741	764	532	594	728	710	718
23	868	856	863	793	746	760	695	546	613	735	710	720
24	872	859	864	800	765	784	828	695	781	735	494	717
25	878	857	869	804	765	785	830	806	815	661	300	481
26	902	878	889	766	735	746	858	828	840	611	534	573
27	918	885	899	761	738	753	859	829	850	627	561	605
28	921	898	906	753	541	675	830	801	809	667	627	659
29	932	917	925	677	611	654	822	802	813	708	666	680
30	---	---	---	710	677	692	864	822	844	718	707	713
31	---	---	---	718	710	714	---	---	---	713	706	709
MONTH	1,370	817	1,090	918	541	754	864	532	784	892	300	727

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	709	700	704	643	591	612	731	718	725	630	578	601
2	705	696	701	669	459	624	736	724	731	650	630	641
3	708	694	700	542	454	513	750	734	739	691	649	665
4	735	708	725	566	524	540	767	750	759	714	691	702
5	756	735	749	613	566	589	774	766	771	740	713	726
6	770	752	763	614	202	410	773	758	768	742	676	708
7	792	768	784	575	480	538	765	752	762	676	609	637
8	832	792	812	629	575	602	758	749	754	609	553	573
9	855	821	839	660	629	646	766	750	758	613	556	583
10	856	634	792	689	660	673	783	759	774	625	613	620
11	634	453	558	703	689	696	799	777	789	630	625	628
12	593	578	584	725	700	710	826	794	814	643	630	636
13	645	583	612	736	721	727	841	819	831	677	643	660
14	670	621	654	741	728	736	858	835	849	718	677	699
15	680	659	669	745	728	739	881	851	866	767	718	746
16	686	677	680	787	711	738	896	876	886	804	767	785
17	792	686	742	820	477	624	895	887	891	824	804	819
18	779	268	527	621	591	607	893	868	881	899	634	829
19	586	498	551	606	591	597	873	852	866	634	261	416
20	622	586	601	614	601	607	880	852	865	580	520	548
21	661	622	645	642	614	632	915	874	898	526	517	520
22	689	661	672	663	642	656	946	915	931	555	526	538
23	705	689	695	679	663	670	966	852	946	587	554	577
24	738	705	713	685	243	539	905	461	610	609	587	597
25	758	738	750	540	449	493	516	478	499	630	609	621
26	761	750	757	597	540	568	561	516	533	661	630	647
27	781	744	763	639	597	616	610	259	559	697	661	681
28	810	475	618	663	639	657	411	216	366	719	697	710
29	558	541	546	671	657	660	500	407	457	737	719	729
30	591	551	567	696	671	682	556	500	530	754	737	744
31	---	---	---	723	696	706	578	556	569	---	---	---
MONTH	856	268	682	820	202	626	966	216	741	899	261	653

06892495 CEDAR CREEK NEAR DESOTO, 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	---	---	---	8.1	7.9	8.0	8.4	8.2	8.3	8.8	8.4	8.5
2	8.4	8.0	8.1	8.0	7.8	7.9	8.4	8.1	8.2	8.9	8.3	8.5
3	8.4	8.0	8.2	8.0	7.8	7.9	8.2	8.1	8.1	8.8	8.3	8.5
4	8.4	8.0	8.2	8.0	7.8	7.9	8.5	8.1	8.3	8.6	8.2	8.4
5	8.3	8.0	8.2	8.1	7.9	7.9	8.4	8.2	8.2	8.7	8.3	8.4
6	8.4	8.0	8.2	8.2	8.0	8.1	8.5	8.2	8.3	8.7	8.3	8.5
7	8.4	8.0	8.2	8.2	8.0	8.1	8.5	8.2	8.3	8.7	8.3	8.5
8	8.4	8.0	8.2	8.1	8.0	8.0	8.5	8.1	8.2	8.8	8.4	8.6
9	8.3	8.0	8.2	8.1	8.0	8.1	8.3	8.1	8.1	8.8	8.5	8.6
10	8.3	7.9	8.1	8.1	8.0	8.0	8.3	8.1	8.1	8.8	8.5	8.6
11	8.2	7.9	8.0	8.0	7.9	7.9	8.3	8.1	8.2	8.8	8.5	8.6
12	8.2	7.9	8.0	8.1	7.9	8.0	8.4	8.2	8.2	8.8	8.5	8.6
13	8.2	7.9	8.0	8.2	8.0	8.1	8.4	8.2	8.3	8.7	8.4	8.6
14	8.1	7.8	8.0	8.2	8.1	8.2	8.4	8.3	8.3	8.8	8.4	8.6
15	8.1	7.8	7.9	8.2	8.0	8.1	8.4	8.3	8.3	8.8	8.4	8.6
16	8.1	7.9	8.0	8.2	8.0	8.0	8.4	8.2	8.3	8.7	8.4	8.6
17	8.2	7.9	8.0	8.2	8.0	8.0	8.2	8.1	8.2	8.6	8.4	8.5
18	8.1	7.9	8.0	8.1	7.9	8.0	8.4	8.2	8.2	8.4	8.3	8.3
19	8.1	7.8	8.0	8.2	8.0	8.1	8.4	8.2	8.3	8.5	8.2	8.3
20	8.2	7.9	8.0	8.2	7.9	8.0	8.5	8.3	8.3	8.6	8.2	8.3
21	8.2	7.9	8.0	8.3	7.9	8.1	8.6	8.3	8.3	8.5	8.3	8.4
22	8.2	7.9	8.0	8.3	8.0	8.0	8.3	8.2	8.3	8.6	8.3	8.4
23	8.2	7.9	8.0	8.1	7.9	7.9	8.3	8.2	8.2	8.6	8.3	8.4
24	8.2	7.9	8.0	8.2	7.9	8.0	8.4	8.2	8.3	8.7	8.3	8.4
25	8.2	7.9	8.0	8.3	8.0	8.1	8.6	8.2	8.4	8.6	8.3	8.4
26	8.1	8.0	8.0	8.3	8.0	8.2	8.7	8.3	8.4	8.7	8.4	8.4
27	8.1	7.9	8.1	8.3	8.0	8.2	8.5	8.3	8.4	8.7	8.4	8.4
28	8.1	7.9	8.0	8.3	8.1	8.2	8.6	8.2	8.3	8.7	8.3	8.4
29	8.1	8.0	8.1	8.4	8.2	8.3	8.6	8.2	8.3	8.7	8.3	8.5
30	8.2	8.0	8.1	8.4	8.2	8.3	8.7	8.3	8.4	8.7	8.4	8.5
31	8.1	7.9	8.0	---	---	---	8.8	8.3	8.5	8.7	8.4	8.5
MAX	8.4	8.0	8.2	8.4	8.2	8.3	8.8	8.3	8.5	8.9	8.5	8.6
MIN	8.1	7.8	7.9	8.0	7.8	7.9	8.2	8.1	8.1	8.4	8.2	8.3

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

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

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

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

06892495 CEDAR CREEK NEAR DESOTO, 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	---	---	---	11.6	10.6	10.8	5.2	3.9	4.7	6.3	3.5	4.9
2	14.9	12.0	13.6	11.2	10.6	11.0	4.7	3.5	3.9	7.6	4.8	6.4
3	14.9	13.2	14.0	13.8	11.0	12.0	4.0	3.7	3.9	6.4	5.1	5.8
4	15.8	13.0	14.5	13.7	11.0	12.7	4.7	3.8	4.2	5.1	3.1	4.0
5	17.0	14.6	15.6	11.0	8.5	9.5	4.1	2.8	3.3	3.1	0.6	2.1
6	17.3	14.7	15.9	9.3	7.4	8.2	3.8	2.6	3.2	1.4	0.2	0.7
7	17.9	15.3	16.5	8.3	6.6	7.4	4.4	2.2	3.4	1.6	0.3	0.9
8	18.2	16.1	17.1	7.5	6.7	7.0	5.2	3.2	4.2	1.6	0.6	1.1
9	18.9	17.4	18.0	8.0	6.3	7.1	4.8	4.1	4.6	1.3	0.6	0.9
10	18.7	17.5	18.1	8.7	7.5	7.9	4.2	2.0	3.2	1.6	0.2	0.9
11	18.4	17.0	18.0	10.6	8.7	9.6	2.2	0.6	1.5	2.6	0.7	1.5
12	17.0	14.8	16.0	10.7	8.9	10	1.5	0.3	0.8	2.5	0.6	1.5
13	16.1	14.3	15.2	8.9	6.9	7.5	1.2	0.2	0.7	2.5	0.6	1.6
14	16.6	13.9	15.4	7.9	7.0	7.4	1.3	0.6	0.9	3.2	0.7	1.9
15	15.4	12.7	14.3	8.8	7.7	8.1	2.8	0.8	1.7	2.9	0.9	2.0
16	15.1	13.4	14.0	8.9	7.3	8.1	3.8	2.1	2.9	3.1	2.2	2.7
17	13.7	11.7	12.9	10.5	8.3	9.3	3.3	2.1	2.7	2.9	2.1	2.6
18	14.9	11.9	13.4	11.2	9.8	10.6	3.9	2.4	3.0	3.6	1.8	2.6
19	15.4	12.9	14.2	9.8	7.7	8.8	3.8	2.5	3.0	1.8	0.2	1.1
20	16.8	14.0	15.2	10.2	8.0	9.2	3.9	2.1	2.9	0.8	0.1	0.4
21	16.4	14.5	15.4	9.9	8.5	9.2	4.4	2.4	3.3	2.0	0.0	0.8
22	16.1	14.0	15.0	8.9	8.0	8.3	4.5	3.6	4.1	1.8	0.4	0.9
23	16.1	14.2	15.2	8.2	5.6	7.2	4.4	3.6	4.0	3.3	0.6	1.7
24	16.1	14.0	15.1	5.7	3.8	4.8	3.8	2.0	3.1	3.0	1.1	1.9
25	15.5	13.2	14.3	4.9	3.1	4.2	3.2	1.4	2.2	2.5	1.5	1.9
26	13.2	11.3	12.1	5.0	3.3	4.3	4.5	2.1	3.2	2.1	0.5	1.4
27	12.4	10.7	11.7	4.6	3.3	3.9	6.8	4.5	5.8	1.4	0.1	0.6
28	13.7	11.9	12.5	3.6	2.3	2.9	7.6	6.0	6.8	1.2	0.1	0.5
29	13.0	10.9	12.1	3.9	1.8	2.7	6.7	4.9	5.9	0.8	0.1	0.3
30	14.8	12.4	13.6	5.3	3.0	4.2	5.4	3.9	4.6	1.1	0.0	0.4
31	13.7	11.6	12.6	---	---	---	4.8	3.4	4.1	0.8	0.1	0.4
MONTH	18.9	10.7	14.7	13.8	1.8	7.8	7.6	0.2	3.4	7.6	0.0	1.8

06892495 CEDAR CREEK NEAR DESOTO, 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	0.5	0.2	0.3	8.2	7.5	7.8	13.4	9.3	10.9	18.9	15.0	16.6
2	0.7	0.1	0.4	8.9	6.7	7.7	14.6	9.9	11.9	16.8	13.7	15.3
3	0.9	0.0	0.3	7.6	7.0	7.3	15.2	10.4	12.5	17.8	12.1	14.9
4	0.6	0.1	0.3	---	6.8	---	15.7	10.7	12.9	17.6	14.0	15.7
5	0.2	0.1	0.1	7.3	---	---	14.3	11.2	12.8	20.6	14.1	17.2
6	0.4	0.0	0.2	8.7	6.2	7.3	16.9	12.1	14.2	23.6	17.9	20.4
7	0.5	0.0	0.2	9.2	8.3	8.7	16.4	13.6	14.9	25.1	20.2	22.5
8	0.4	0.0	0.1	9.0	7.4	8.3	17.8	13.5	15.5	25.9	21.4	23.5
9	0.8	0.0	0.3	10.0	8.4	9.1	15.2	13.3	14.2	25.3	22.4	23.8
10	0.9	0.0	0.4	10.1	8.5	9.1	13.6	12.2	13.2	24.1	20.1	21.8
11	1.0	0.1	0.5	10.8	8.3	9.3	15.2	10.3	12.6	24.1	20.6	22.1
12	1.0	0.0	0.4	10.3	7.1	8.4	14.4	10.4	12.2	23.3	21.0	22.0
13	1.0	0.0	0.4	8.6	7.5	8.0	15.5	10.0	12.5	22.2	18.3	20.3
14	1.3	0.1	0.6	10.7	7.3	8.7	16.1	10.3	13.1	18.3	16.1	16.9
15	1.2	0.0	0.5	8.7	7.9	8.3	17.3	12.6	14.7	18.2	15.2	16.5
16	0.9	0.0	0.4	7.9	6.7	7.4	20.8	14.8	17.4	20.4	15.8	18.0
17	1.1	0.1	0.5	8.9	6.4	7.5	22.7	18.0	20.0	22.3	17.8	19.7
18	1.2	0.1	0.4	11.7	7.4	9.2	20.6	18.9	19.6	21.1	19.3	20.2
19	4.1	0.4	1.8	12.8	8.7	10.7	22.4	18.3	20.1	22.1	19.4	20.8
20	6.4	4.1	5.3	15.2	11.7	13.0	20.9	19.2	19.9	23.1	21.3	22.2
21	6.0	4.6	5.2	13.6	10.5	11.9	21.2	18.1	19.3	25.2	22.8	23.7
22	7.0	4.8	5.8	12.9	9.9	11.1	18.4	16.9	17.5	25.3	23.3	24.1
23	8.0	6.1	6.8	13.2	9.8	11.2	16.9	15.6	16.0	26.8	22.9	24.5
24	6.6	5.6	6.2	13.3	11.3	12.4	16.1	15.0	15.4	26.0	21.9	24.1
25	7.0	4.9	5.7	14.5	12.9	13.7	18.1	14.0	15.7	22.9	20.2	21.2
26	7.3	4.0	5.5	17.3	14.1	15.5	18.4	13.8	16.0	21.3	19.4	20.2
27	7.4	4.5	5.8	16.8	15.9	16.3	19.1	13.5	16.2	21.2	18.7	19.8
28	7.9	5.4	6.6	16.3	13.8	15.0	20.5	16.0	18.0	23.6	20.2	21.5
29	8.3	6.6	7.5	13.8	12.3	12.9	18.2	17.2	17.6	24.4	21.0	22.5
30	---	---	---	12.3	10.2	11.4	17.9	15.9	17.2	24.5	22.1	23.1
31	---	---	---	12.0	9.2	10.3	---	---	---	24.7	20.4	22.3
MONTH	8.3	0.0	2.4	17.3	6.2	10.3	22.7	9.3	15.5	26.8	12.1	20.6

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.9	20.1	22.3	24.4	22.5	23.4	27.7	23.0	25.2	24.8	22.0	23.2
2	24.1	20.0	21.9	23.6	22.1	23.0	29.0	24.9	26.7	25.1	21.9	23.3
3	24.2	19.6	21.8	24.2	22.0	22.9	30.4	26.0	28.0	25.2	22.0	23.5
4	24.9	20.0	22.2	27.1	23.1	24.7	28.8	26.5	27.6	25.5	22.3	23.9
5	23.4	20.9	21.9	28.1	23.8	25.7	28.0	24.7	26.3	25.9	23.1	24.4
6	24.7	20.6	22.3	25.7	21.2	23.3	27.0	23.4	25.3	25.0	22.7	23.7
7	26.2	22.4	24.2	23.6	21.9	22.8	26.1	22.3	24.1	23.9	21.0	22.4
8	27.4	23.1	25.0	23.5	22.6	22.9	25.3	23.0	24.1	23.1	19.8	21.3
9	25.4	23.4	23.9	24.4	22.0	22.9	27.4	23.4	25.0	22.9	19.0	20.9
10	23.4	22.4	22.8	26.5	22.2	24.1	26.4	23.6	24.9	23.0	19.3	21.1
11	24.8	22.3	23.3	28.5	23.7	25.8	25.0	22.2	23.4	22.5	19.7	21.1
12	27.8	23.7	25.4	29.7	25.2	27.1	23.2	20.1	21.7	23.3	19.7	21.4
13	27.4	23.3	25.2	31.2	26.2	28.5	22.5	20.5	21.6	23.9	20.7	22.2
14	28.3	23.9	25.6	30.5	26.9	28.6	23.5	20.6	21.8	24.7	21.4	22.8
15	27.7	24.2	25.8	30.1	25.7	27.8	23.0	20.1	21.6	24.2	22.7	23.3
16	26.9	24.9	25.7	28.6	25.7	26.9	22.6	20.4	21.5	23.3	20.5	22.1
17	25.7	23.7	24.7	27.1	25.0	25.9	24.0	21.6	22.7	22.1	19.4	20.7
18	24.0	20.8	22.5	27.8	23.8	25.6	26.0	23.4	24.3	21.5	20.0	20.7
19	23.2	21.2	22.3	29.0	24.0	26.3	25.8	21.2	23.5	22.8	20.3	21.3
20	22.0	20.5	21.1	30.3	25.8	27.8	22.6	20.0	21.0	23.0	20.4	21.6
21	25.0	20.4	22.2	29.0	26.8	27.9	22.4	20.2	21.2	23.4	20.2	21.7
22	25.6	21.5	23.2	30.1	26.6	28.1	22.5	20.4	21.4	23.1	20.2	21.7
23	26.4	21.2	23.7	28.5	25.9	26.7	23.3	22.4	22.9	21.9	20.4	21.1
24	27.1	22.1	24.3	25.9	19.0	23.1	23.7	21.2	22.8	21.5	18.5	20.0
25	25.5	21.2	23.3	22.9	22.0	22.5	24.5	23.6	24.0	21.4	18.6	20.1
26	25.2	20.7	23.0	22.8	21.3	22.1	27.0	23.6	25.0	20.9	18.4	19.7
27	23.7	20.8	21.9	23.8	21.4	22.4	28.0	23.2	26.0	20.5	18.1	19.3
28	22.4	19.8	20.9	24.0	21.5	22.6	24.3	22.8	23.8	20.0	18.4	19.2
29	24.3	20.0	22.0	23.2	21.9	22.5	23.5	22.0	22.6	18.8	16.5	17.6
30	24.9	21.0	22.8	24.6	21.6	22.8	23.7	21.6	22.5	18.8	16.5	17.4
31	---	---	---	26.4	21.7	23.9	24.4	21.9	22.9	---	---	---
MONTH	28.3	19.6	23.2	31.2	19.0	24.9	30.4	20.0	23.7	25.9	16.5	21.4

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10.3	7.9	9.1	14.4	11.3	12.6	14.4	10.4	12.1
2	12.1	8.1	9.7	9.5	7.6	8.6	13.5	10.7	11.9	15.7	10.3	12.7
3	11.6	7.8	9.7	9.6	7.6	8.6	12.0	10.9	11.4	---	---	---
4	11.6	8.1	9.9	9.0	6.8	7.5	14.3	11.1	12.3	---	---	---
5	11.4	7.9	9.6	9.5	7.1	8.0	13.0	11.1	11.9	---	---	---
6	11.6	7.8	9.6	10.5	8.2	9.3	14.7	11.3	12.7	---	---	---
7	11.4	7.8	9.5	10.6	8.4	9.7	14.5	11.4	12.7	---	---	---
8	10.7	7.7	9.3	10.4	8.8	9.7	14.5	11.1	12.4	18.4	14.8	16.2
9	10.4	7.6	9.0	10.7	9.2	10.1	12.3	10.9	11.5	18.4	14.0	15.8
10	10.4	7.1	8.9	10.6	8.8	9.4	11.9	10.9	11.4	18.8	14.4	16.3
11	9.5	7.0	7.8	9.5	7.7	8.6	13.6	11.9	12.8	18.3	14.2	15.9
12	10.5	6.7	8.3	10.0	7.6	8.9	14.5	12.8	13.5	18.2	14.1	15.7
13	10.1	6.7	8.4	11.2	9.3	10.2	14.6	13.1	13.7	17.7	13.7	15.3
14	9.6	6.5	7.9	11.5	10.3	10.9	14.7	13.1	13.7	17.2	13.5	15.0
15	10.5	6.6	8.2	10.8	9.5	10.1	14.5	12.9	13.5	17.1	12.9	14.7
16	10.3	6.8	8.5	11.5	9.4	10.3	13.7	12.1	12.8	14.8	12.7	13.9
17	11.4	7.3	9.2	11.4	8.9	9.6	13.2	12.1	12.5	14.1	12.3	13.1
18	10.8	7.2	9.0	10.4	7.9	8.9	14.4	12.4	13.1	12.3	10.9	11.5
19	10.7	6.9	8.7	11.8	8.6	10.2	13.9	12.4	13.0	14.1	11.3	12.7
20	10.8	7.2	8.9	11.8	8.4	10.1	14.4	12.5	13.2	15.7	12.6	13.8
21	11.6	7.2	9.1	12.5	8.6	10.4	14.6	12.2	13.1	15.7	12.6	14.0
22	10.7	7.1	8.8	12.1	9.5	10.5	12.9	11.9	12.3	15.6	12.8	14.0
23	11.2	7.6	9.3	11.0	8.8	9.5	13.0	11.7	12.2	15.7	12.7	13.8
24	11.0	7.3	9.2	12.6	9.0	10.8	13.8	12.0	12.8	14.9	11.6	13.1
25	10.2	7.1	8.5	13.5	10.2	11.9	14.2	11.8	12.8	14.9	11.2	12.5
26	11.3	8.4	9.8	13.1	10.8	11.9	13.8	11.0	12.2	15.2	11.6	13.1
27	11.4	8.0	9.7	13.9	10.5	12.2	12.7	10.6	11.5	16.9	11.6	13.4
28	10.6	8.3	9.6	14.1	11.3	12.6	14.4	10.8	12.0	15.7	9.6	11.9
29	11.2	8.5	10	13.8	11.4	12.8	15.1	10.7	12.4	15.1	8.8	11.2
30	11.1	8.8	10.1	13.7	11.5	12.7	15.0	11.4	12.6	15.9	8.3	11.7
31	10.9	7.1	9.0	---	---	---	15.4	11.0	12.7	12.7	6.0	9.4
MONTH	12.1	6.5	9.1	14.1	6.8	10.1	15.4	10.6	12.6	18.8	6.0	13.6

06892495 CEDAR CREEK NEAR DESOTO, 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	12.2	6.2	8.4	11.2	8.9	10	12.3	9.7	11.0	9.0	6.6	7.5
2	14.9	7.2	10.1	14.4	8.8	10.9	12.7	9.1	10.7	9.6	6.9	8.0
3	15.3	5.3	10.1	11.8	9.3	10.3	12.5	9.1	10.4	10.9	7.4	8.7
4	13.9	6.1	8.7	---	---	---	13.4	9.2	10.7	10.6	7.2	8.5
5	11.5	5.8	8.4	---	---	---	13.4	9.2	10.8	11.4	7.1	8.9
6	13.9	6.1	9.2	10.3	9.9	10.1	14.0	9.1	10.9	11.3	6.2	8.2
7	---	6.9	---	10.1	9.7	9.9	12.8	8.9	10.3	11.4	5.7	7.8
8	---	---	---	10.5	10.0	10.2	13.1	8.6	10.2	10.9	5.1	7.4
9	---	---	---	10.9	10.3	10.6	12.4	8.4	9.9	11.7	4.7	7.5
10	---	---	---	11.4	10.9	11.1	12.2	8.7	10.1	7.4	5.1	6.3
11	---	---	---	11.6	11.3	11.4	14.4	8.9	11.2	8.0	5.6	6.5
12	---	---	---	12.3	11.5	11.9	15.0	9.1	11.6	7.8	5.2	6.2
13	---	---	---	12.3	11.7	12.0	15.8	9.7	12.2	6.6	5.5	6.0
14	---	---	---	12.5	11.2	11.9	15.9	9.5	12.1	8.3	6.6	7.7
15	---	---	---	---	---	---	14.6	9.0	11.3	9.2	8.2	8.5
16	---	---	---	---	---	---	14.5	8.9	11.0	9.6	7.6	8.5
17	---	---	---	---	---	---	13.8	7.3	10.1	9.6	7.1	8.0
18	---	---	---	11.8	9.7	10.6	10.4	6.3	8.0	8.1	6.9	7.2
19	---	---	---	12.1	9.5	10.5	11.0	6.3	8.1	8.1	6.8	7.6
20	13.2	11.3	11.9	12.7	9.1	10.4	9.3	5.6	7.0	7.9	7.3	7.5
21	13.2	11.3	12.1	13.3	9.0	10.6	8.5	6.1	7.0	7.8	7.0	7.3
22	14.1	11.7	12.7	14.2	9.3	11.1	6.9	6.1	6.4	8.7	6.8	7.6
23	15.2	11.3	12.8	14.4	10.0	11.4	7.6	6.2	6.9	9.0	6.7	7.5
24	14.8	11.2	12.4	11.7	8.9	10.3	7.9	7.0	7.3	9.4	6.3	7.6
25	16.5	11.0	13.1	10.9	8.6	9.4	9.2	7.3	8.0	7.7	6.5	7.4
26	17.6	12.2	14.2	11.3	8.1	9.3	9.3	7.7	8.3	7.8	7.5	7.7
27	15.4	11.2	13.2	9.3	7.8	8.4	9.7	7.4	8.3	8.1	7.7	7.9
28	15.2	10.9	12.6	9.2	7.7	8.5	9.6	7.0	8.0	8.3	7.2	7.8
29	13.4	10.0	11.1	9.6	9.0	9.3	7.4	6.6	7.1	8.4	7.0	7.6
30	---	---	---	10.3	9.3	9.8	7.4	6.3	6.8	8.5	6.8	7.5
31	---	---	---	11.5	10.0	10.7	---	---	---	9.3	6.7	7.7
MONTH	17.6	5.3	11.3	14.4	7.7	10.4	15.9	5.6	9.4	11.7	4.7	7.6

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.5	6.6	8.1	11.1	6.6	8.4	12.8	7.1	9.0	---	---	---
2	12.4	7.0	9.1	8.6	6.4	7.1	12.6	6.4	8.7	---	---	---
3	13.4	7.2	9.7	7.2	6.7	6.9	11.9	5.6	8.2	---	---	---
4	14.4	7.0	10	8.7	6.4	7.2	8.3	5.1	6.7	---	---	---
5	12.9	6.5	9.4	9.1	6.2	7.2	9.7	5.0	7.0	---	---	---
6	14.6	6.5	9.9	7.5	6.0	7.0	10.6	5.2	7.3	---	---	---
7	13.9	6.1	9.6	8.0	6.9	7.5	9.9	5.0	7.2	---	---	---
8	15.4	6.2	9.9	7.8	6.9	7.2	9.5	4.9	6.9	---	---	---
9	11.6	6.3	8.5	8.2	6.8	7.2	11.6	5.0	7.8	---	---	---
10	8.0	6.5	7.1	8.7	6.6	7.4	11.3	5.2	7.9	9.3	6.1	7.3
11	7.9	6.7	7.2	9.5	6.2	7.4	11.4	5.6	8.2	9.8	6.0	7.5
12	9.0	6.4	7.4	9.5	5.8	7.0	11.6	5.9	8.1	9.8	6.1	7.6
13	8.3	5.9	6.8	9.9	5.4	7.0	10.7	5.9	8.2	10.2	5.8	7.7
14	9.6	5.6	6.9	10.5	5.2	7.3	10.2	5.8	8.0	9.7	5.8	7.5
15	9.6	5.8	7.1	11.0	5.3	7.6	10.1	5.3	7.9	8.7	5.6	7.0
16	8.7	5.6	6.8	8.8	5.4	6.5	9.9	5.5	7.7	10.5	6.0	7.7
17	8.4	5.9	6.9	7.3	5.5	6.2	11.3	5.2	8.0	10.3	6.1	7.9
18	7.5	6.1	6.9	10.3	5.7	7.5	12.9	5.4	8.8	8.3	6.3	7.1
19	8.3	7.1	7.6	10.9	5.8	7.7	9.3	5.3	7.4	6.8	6.2	6.4
20	8.4	7.3	7.8	12.1	5.2	7.9	11.7	5.6	7.8	8.5	6.5	7.1
21	9.1	7.2	7.8	10.9	4.9	7.5	9.7	5.7	7.6	9.1	6.4	7.3
22	9.6	7.0	7.9	12.0	4.6	7.8	9.5	5.3	7.8	10.0	6.3	7.6
23	10.1	6.7	7.8	9.7	4.9	6.9	---	---	---	8.8	6.0	7.2
24	10.5	6.5	7.9	8.1	5.6	7.0	---	---	---	8.9	6.1	7.3
25	11.2	6.4	8.2	8.3	7.8	8.0	---	---	---	9.0	6.0	7.4
26	11.7	6.2	8.4	8.8	7.6	8.2	---	---	---	9.2	6.1	7.5
27	9.0	6.0	7.2	9.0	7.9	8.3	---	---	---	9.5	6.2	7.8
28	8.2	7.1	7.5	9.4	7.9	8.5	---	---	---	10.6	6.4	8.3
29	10.6	7.2	8.5	9.7	7.8	8.5	---	---	---	10.4	6.9	8.5
30	11.8	7.0	8.8	10.8	7.4	8.6	---	---	---	11.2	7.0	8.8
31	---	---	---	11.7	7.4	8.9	---	---	---	---	---	---
MONTH	15.4	5.6	8.1	12.1	4.6	7.5	12.9	4.9	7.8	11.2	5.6	7.5

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10	4.3	6.2	12	9.0	9.6	6.4	3.3	4.7
2	9.5	3.5	6.3	11	5.4	7.4	10	7.8	9.0	17	5.0	9.3
3	7.8	4.7	6.0	12	6.0	9.1	15	8.0	11	15	7.4	9.3
4	10	5.1	7.4	13	8.0	9.5	11	5.2	7.2	14	---	---
5	9.2	5.0	6.8	12	4.0	7.6	9.2	6.3	7.6	19	6.6	11
6	11	3.8	6.4	11	4.0	6.3	10	8.1	8.7	14	4.5	7.1
7	11	4.8	7.5	7.0	4.0	5.5	15	8.4	11	9.6	4.5	6.5
8	12	5.9	8.8	10	5.0	6.2	19	13	15	13	3.0	6.5
9	11	5.9	8.4	9.0	5.0	6.6	66	11	19	5.2	2.1	3.6
10	13	6.1	9.0	10	5.0	7.8	240	22	120	4.2	<2.0	2.9
11	14	6.0	9.1	9.0	6.0	7.7	100	18	40	5.6	2.0	3.5
12	16	5.6	10	15	7.0	9.7	23	10	16	6.8	<2.0	2.6
13	12	5.9	8.2	11	4.0	6.2	16	9.0	10	5.4	<2.0	2.2
14	16	8.3	12	8.0	4.0	5.8	17	7.6	11	4.2	<2.0	2.4
15	11	5.4	7.9	8.0	6.0	6.7	15	6.7	9.2	6.0	<2.0	3.0
16	13	5.7	8.0	9.0	4.0	6.1	26	10	16	4.8	<2.0	2.2
17	15	6.6	9.7	11	5.0	7.1	51	18	27	9.8	<2.0	3.4
18	12	6.9	8.8	14	6.0	9.0	22	12	16	12	5.0	7.7
19	14	6.1	9.3	9.0	5.0	7.2	30	11	18	16	5.7	10
20	8.8	4.9	7.2	9.0	6.0	7.2	27	9.7	15	6.7	2.7	4.6
21	14	5.5	8.4	10	6.0	7.5	19	7.8	10	5.7	2.2	3.6
22	14	6.5	9.9	13	6.0	8.0	31	10	15	4.1	<2.0	2.8
23	12	6.6	8.7	96	7.0	17	70	12	20	7.1	<2.0	2.9
24	13	6.1	9.0	14	7.0	9.2	15	8.5	11	9.4	<2.0	2.6
25	15	7.0	9.5	19	6.0	8.0	9.7	6.6	8.0	8.0	<2.0	3.2
26	12	5.1	7.4	11	6.0	6.6	9.3	5.5	6.8	3.8	<2.0	<2.0
27	15	5.5	8.4	13	6.0	6.9	13	7.1	9.1	8.4	<2.0	2.4
28	14	7.1	9.4	7.0	5.0	6.4	16	11	13	5.8	<2.0	<2.0
29	12	6.4	8.6	8.0	5.0	6.5	18	12	14	3.5	<2.0	<2.0
30	11	5.8	7.9	10	7.0	8.4	14	6.6	9.2	2.9	<2.0	<2.0
31	15	5.7	8.3	---	---	---	8.6	3.6	5.6	3.0	<2.0	<2.0
MONTH	16	3.5	8.4	96	4.0	7.6	240	3.6	17	19	2.0	4.3

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6136—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	2.3	<2.0	<2.0	---	---	---	7.3	<2.0	4.2	30	15	22
2	4.3	<2.0	<2.0	---	---	---	12	6.5	9.1	29	14	19
3	3.7	<2.0	<2.0	---	---	---	14	9.1	11	23	13	17
4	2.9	<2.0	<2.0	---	---	---	15	7.7	11	23	12	17
5	3.6	<2.0	2.0	---	---	---	14	6.8	9.7	22	7.2	15
6	3.3	<2.0	<2.0	---	---	---	14	7.9	10	16	6.7	12
7	2.3	<2.0	<2.0	---	---	---	14	7.6	9.2	16	7.2	11
8	<2.0	<2.0	<2.0	---	---	---	13	7.3	9.8	21	6.4	12
9	<2.0	<2.0	<2.0	---	---	---	13	7.4	8.9	18	5.1	10
10	<2.0	<2.0	<2.0	28	18	23	14	7.9	10	250	9.9	50
11	<2.0	<2.0	<2.0	24	18	21	13	6.1	9.6	40	13	23
12	2.9	<2.0	<2.0	20	13	16	12	4.7	6.7	21	12	15
13	<2.0	<2.0	<2.0	13	10	11	8.6	4.4	5.8	43	12	22
14	<2.0	<2.0	<2.0	13	8.6	10	11	4.7	6.9	38	21	27
15	2.2	<2.0	<2.0	23	13	16	9.9	5.5	7.4	24	16	19
16	2.1	<2.0	<2.0	20	14	16	10	3.1	6.5	31	12	18
17	6.5	<2.0	2.7	22	14	18	10	3.0	4.6	28	11	16
18	73	2.0	9.5	17	14	15	10	3.0	6.0	46	11	24
19	360	8.0	39	20	16	17	14	4.7	7.8	940	44	190
20	11	5.6	8.4	19	13	16	32	4.2	8.8	54	23	38
21	9.4	5.4	7.1	23	13	17	32	9.5	14	29	16	22
22	---	---	---	22	12	16	39	15	31	30	9.6	15
23	---	---	---	29	8.8	14	34	16	25	20	9.6	13
24	---	---	---	25	12	16	22	15	19	290	9.2	24
25	---	---	---	30	16	20	22	13	17	1,870	61	310
26	---	---	---	34	15	23	23	12	16	66	33	48
27	---	---	---	42	15	21	20	13	16	110	29	52
28	---	---	---	86	25	47	21	12	17	39	21	28
29	---	---	---	37	16	23	32	15	21	40	17	27
30	---	---	---	18	4.7	11	29	16	21	24	13	19
31	---	---	---	4.8	<2.0	3.2	---	---	---	21	11	16
MONTH	360	2.0	4.7	86	2.0	18	39	2.0	12	1,870	5.1	37

06892495 CEDAR CREEK NEAR DESOTO, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20	7.9	12	19	8.0	12	11	4.0	7.5	28	15	22
2	17	7.7	11	120	9.3	35	10	4.0	6.4	33	13	21
3	17	6.7	9.8	130	26	51	9.0	4.0	6.3	29	12	21
4	14	6.3	8.9	30	12	20	7.0	5.0	6.0	26	9.0	17
5	15	5.9	8.0	20	10	15	11	5.0	7.0	22	7.0	12
6	14	5.5	8.4	1,960	14	280	14	6.0	7.4	28	11	20
7	13	6.0	8.9	92	21	38	12	5.0	7.3	21	9.0	15
8	15	5.5	9.4	26	14	18	11	5.0	6.3	15	9.0	11
9	16	7.4	10	21	11	14	11	4.0	7.0	14	8.0	10
10	49	9.9	33	14	7.7	11	10	5.0	6.7	12	6.8	9.2
11	59	24	39	13	5.0	8.9	12	5.0	6.7	12	4.6	7.8
12	52	18	32	11	3.0	6.3	9.0	4.0	6.3	11	4.7	7.1
13	36	17	25	10	3.0	4.9	8.0	4.0	5.8	10	4.2	6.5
14	32	12	19	9.0	2.0	4.4	9.0	4.0	6.0	10	4.1	6.8
15	24	11	17	8.0	3.0	5.1	8.0	4.0	5.7	8.7	4.3	5.8
16	23	7.9	13	18	5.0	11	9.0	4.0	6.1	9.8	4.6	6.6
17	27	16	19	22	12	15	9.0	3.0	5.5	11	5.4	7.1
18	790	20	170	13	7.0	9.9	9.0	4.0	6.3	100	5.6	19
19	54	20	34	15	6.0	9.9	9.0	4.0	6.4	350	33	130
20	36	20	28	15	8.0	10	12	5.0	8.0	35	17	24
21	36	15	26	15	7.0	10	8.0	5.0	6.4	24	14	20
22	24	14	19	18	9.0	11	13	4.0	7.4	20	13	16
23	23	12	17	15	9.0	11	30	5.0	9.0	18	11	14
24	43	12	20	850	10	160	560	19	74	16	10	13
25	25	8.3	16	100	22	43	39	18	24	15	9.5	12
26	16	6.9	11	24	15	19	19	14	17	17	9.1	12
27	28	7.3	14	16	11	14	850	12	63	14	7.6	11
28	41	21	29	14	9.0	11	1,200	77	230	14	7.8	10
29	23	12	17	14	9.0	11	---	29	---	14	6.0	9.9
30	21	9.7	13	12	7.0	10	35	19	26	11	6.4	8.6
31	---	---	---	12	5.0	8.6	29	15	22	---	---	---
MONTH	790	5.5	23	1,960	2.0	29	1,200	3.0	20	350	4.1	17

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

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS

LOCATION.--Lat 39°01'45", long 94°49'02", in SE ¼ SE ¼ SE ¼ sec.2, T.12 S., R.23 E., Johnson County, Hydrologic Unit 10270104, on right upstream bank of Johnson Drive and at mile 1.9.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--58.1 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is sea level (NAVD 88).

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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	30	4.8	5.0	16	14	45	29	31	15	9.6	17	30
2	14	5.1	5.3	15	28	25	27	19	12	270	16	24
3	9.3	5.2	85	14	17	25	24	15	11	87	14	19
4	8.1	5.2	22	32	17	1,410	21	14	11	27	26	16
5	8.0	7.8	12	20	18	460	20	13	10	81	17	34
6	11	4.9	9.2	13	17	130	19	11	11	1,480	13	112
7	8.4	4.1	8.4	12	14	69	18	11	9.9	131	11	21
8	6.0	4.4	7.8	13	14	53	18	10	8.5	59	11	15
9	6.8	4.6	158	13	16	45	17	9.8	38	44	11	14
10	8.4	4.6	87	12	17	36	18	221	255	36	9.8	14
11	7.8	5.0	35	12	18	31	16	38	47	31	11	12
12	17	4.8	27	12	17	27	15	22	27	26	9.4	12
13	21	4.2	24	11	14	25	14	124	106	23	8.2	10
14	50	4.3	23	11	16	27	13	92	24	19	7.7	11
15	11	4.8	60	11	18	72	13	40	26	18	6.9	12
16	7.6	4.7	62	12	16	41	13	27	42	211	7.5	17
17	11	7.4	34	67	33	29	13	21	30	37	6.9	11
18	7.7	20	31	47	58	25	13	129	298	26	6.3	142
19	5.8	6.7	33	25	92	22	13	331	47	19	11	28
20	5.7	4.8	24	21	73	20	116	57	27	19	32	15
21	5.0	4.6	21	19	43	16	63	34	24	16	11	12
22	4.7	4.4	41	18	36	16	24	25	19	13	8.4	11
23	4.8	70	60	16	32	28	20	20	14	20	47	9.9
24	4.5	13	31	15	29	23	32	35	12	1,150	303	9.0
25	4.4	9.2	24	20	26	19	23	490	9.8	220	20	8.7
26	4.7	7.5	20	25	23	23	17	47	7.7	78	8.4	7.7
27	4.6	6.6	24	16	21	21	15	340	73	e49	667	8.5
28	4.4	5.6	43	15	20	200	14	56	27	e34	2,160	8.1
29	4.1	5.2	22	14	36	49	23	33	13	27	121	7.6
30	4.1	5.2	18	e12	---	38	50	32	11	25	56	7.6
31	4.8	---	16	11	---	32	---	22	---	21	38	---
MEAN	9.83	8.29	34.6	18.4	27.3	99.4	24.4	76.4	42.2	139	119	22.0
MAX	50	70	158	67	92	1,410	116	490	298	1,480	2,160	142
MIN	4.1	4.1	5.0	11	14	16	13	9.8	7.7	9.6	6.3	7.6
AC-FT	604	493	2,130	1,130	1,570	6,110	1,450	4,700	2,510	8,540	7,320	1,310

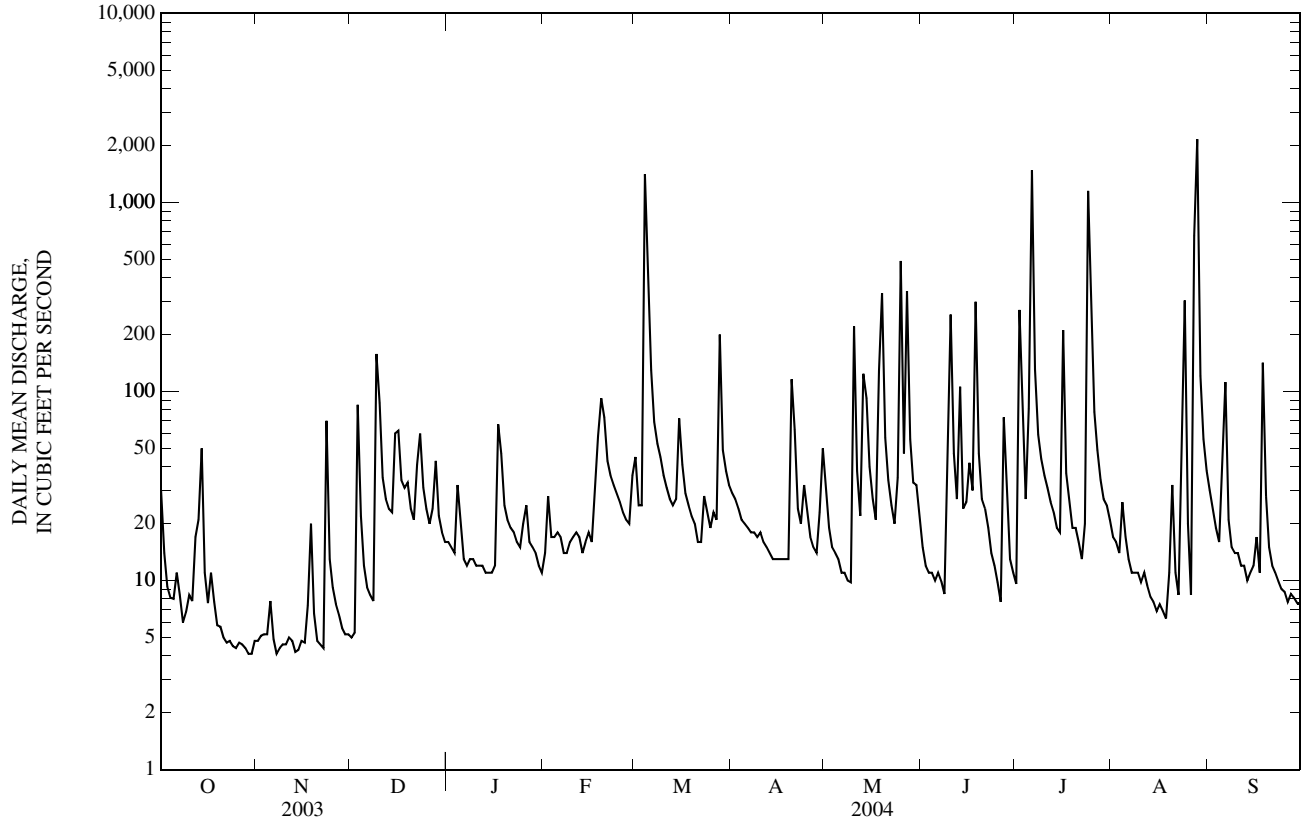
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	13.8	8.65	19.3	11.4	20.7	58.7	34.8	48.9	48.5	73.1	106	28.6
MAX	17.7	9.02	34.6	18.4	27.3	99.4	45.2	76.4	54.8	139	119	35.3
(WY)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)	(2004)	(2004)	(2003)
MIN	9.83	8.29	3.99	4.35	13.8	17.9	24.4	21.3	42.2	7.31	92.6	22.0
(WY)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2004)	(2003)	(2003)	(2004)

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL MEAN	28.8		52.2		39.6	
HIGHEST ANNUAL MEAN					52.2	2004
LOWEST ANNUAL MEAN					26.9	2003
HIGHEST DAILY MEAN	2,310	Aug 31	2,160	Aug 28	2,310	Aug 31, 2003
LOWEST DAILY MEAN	1.7	Aug 25	4.1	Oct 29	1.7	Aug 25, 2003
ANNUAL SEVEN-DAY MINIMUM	1.9	Aug 21	4.4	Oct 24	1.9	Aug 21, 2003
MAXIMUM PEAK FLOW			9,700	Aug 28	9,700	Aug 28, 2004
MAXIMUM PEAK STAGE			64.90	Aug 28	64.90	Aug 28, 2004
INSTANTANEOUS LOW FLOW			3.5	Oct 29	1.6	Oct 2, 2002
ANNUAL RUNOFF (AC-FT)	20,860		37,880		28,670	
10 PERCENT EXCEEDS	43		72		56	
50 PERCENT EXCEEDS	7.6		18		12	
90 PERCENT EXCEEDS	3.6		5.9		4.0	

e Estimated



06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 2002 to current year.
pH: October 2002 to current year.
WATER TEMPERATURE: October 2002 to current year.
DISSOLVED OXYGEN: October 2002 to current year.
TURBIDITY (YSI 6136 sensor): October 2002 to current year.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions, malfunction of the recording instrument or sensors, or during days of no streamflow. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs International (YSI) 6136 sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 4,540 microsiemens/cm, Feb. 4, 2004; minimum, 155 microsiemens/cm, Aug. 28, 2004.
pH: Maximum, 9.1 standard units, July 18, 2003; minimum, 7.4 standard units, June 27, 2003.
WATER TEMPERATURE: Maximum, 32.8°C, July 20, 2003; minimum, 0.0°C, Feb. 2, 2004.
DISSOLVED OXYGEN: Maximum, 24.0 mg/L, Jan. 31, 2004; minimum, 1.8 mg/L, Aug. 28, 2003.
TURBIDITY (YSI 6136 sensor): Maximum, 1,970 FNU, May 10, 2004; minimum, <0.1 FNU, Apr. 30, 2003.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 4,540 microsiemens/cm, Feb. 4; minimum, 155 microsiemens/cm, Aug. 28.
pH: Maximum, 8.7 standard units, Feb. 25; minimum, 7.4 standard units, Apr. 22.
WATER TEMPERATURE: Maximum, 31.0°C, July 13; minimum, 0.0°C, Feb. 2.
DISSOLVED OXYGEN: Maximum, 24.0 mg/L, Jan. 31; minimum, 5.0 mg/L, Sept. 25.
TURBIDITY (YSI 6136 sensor): Maximum, 1,970 FNU, May 10; minimum, <2.0 FNU, Nov. 8.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	972	741	899	896	882	889	634	611	622	963	922	945
2	741	610	641	930	896	913	678	634	655	988	963	975
3	621	612	618	970	929	953	804	533	671	1,010	988	997
4	617	578	600	973	959	964	548	505	536	1,110	1,010	1,040
5	578	564	569	969	959	963	505	490	492	1,280	1,100	1,180
6	620	567	587	995	969	981	536	492	511	1,430	1,280	1,370
7	652	620	643	1,010	995	1,000	574	536	557	1,530	1,430	1,480
8	707	652	674	1,010	1,010	1,010	614	574	594	1,620	1,520	1,570
9	749	706	720	1,010	996	999	680	474	595	1,730	1,620	1,680
10	791	749	772	997	986	993	536	437	481	1,750	1,670	1,730
11	820	791	804	992	985	987	768	536	644	1,670	1,520	1,590
12	868	809	855	1,040	992	1,010	939	768	882	1,520	1,410	1,480
13	864	727	826	1,070	1,040	1,060	1,200	939	1,040	1,410	1,340	1,390
14	835	689	750	1,080	1,060	1,070	1,370	1,200	1,310	1,350	1,280	1,330
15	713	628	683	1,090	1,080	1,090	1,560	1,360	1,390	1,290	1,240	1,270
16	628	567	594	1,090	1,080	1,090	2,250	1,560	2,130	1,250	1,190	1,230
17	575	554	559	1,080	1,010	1,040	2,150	1,580	1,770	1,480	1,120	1,190
18	630	575	602	1,090	988	1,050	1,580	1,460	1,510	1,620	1,180	1,390
19	666	630	648	1,050	1,010	1,020	1,460	1,380	1,420	1,180	1,130	1,140
20	698	665	678	1,010	999	1,010	1,380	1,350	1,360	1,220	1,150	1,180
21	729	698	706	1,000	988	994	1,380	1,340	1,350	1,230	1,210	1,220
22	761	720	734	990	978	982	1,400	1,240	1,370	1,220	1,210	1,220
23	795	761	772	979	592	770	1,240	1,130	1,180	1,220	1,190	1,210
24	836	795	810	766	619	663	1,130	1,030	1,050	1,190	1,180	1,180
25	862	835	849	621	598	616	1,080	1,030	1,050	1,300	1,160	1,200
26	885	862	877	598	559	575	1,090	1,070	1,080	1,310	1,160	1,210
27	887	879	884	577	558	565	1,070	1,050	1,060	1,590	1,310	1,430
28	879	859	868	595	577	589	1,130	1,050	1,090	1,730	1,590	1,670
29	861	852	855	599	594	597	1,150	1,010	1,100	2,420	1,730	2,040
30	862	853	857	611	597	603	1,010	904	955	2,930	2,420	2,670
31	882	862	872	---	---	---	922	898	904	3,030	2,810	2,950
MONTH	972	554	736	1,090	558	902	2,250	437	1,010	3,030	922	1,420

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, 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	2,810	2,490	2,610	1,540	1,320	1,400	938	909	932	791	711	743
2	2,720	2,260	2,510	1,520	1,260	1,350	959	933	940	752	711	722
3	3,590	2,720	3,060	1,300	1,250	1,260	976	958	970	812	752	788
4	4,540	3,590	4,260	1,340	435	890	981	953	968	841	812	822
5	4,350	3,590	3,930	790	516	681	966	940	954	904	841	873
6	3,590	3,030	3,250	895	790	852	955	942	947	938	904	919
7	3,070	2,850	3,020	945	895	925	962	944	955	968	937	954
8	2,850	2,550	2,680	975	945	958	974	961	968	983	968	977
9	2,550	2,260	2,380	1,010	975	998	973	964	967	992	983	990
10	2,260	2,150	2,200	1,040	913	992	979	970	973	999	384	723
11	2,340	2,230	2,300	1,010	912	956	996	979	984	549	487	510
12	2,450	2,260	2,320	1,030	1,010	1,020	1,020	996	1,010	648	546	598
13	2,480	2,440	2,460	1,040	1,030	1,040	1,030	1,020	1,020	755	542	671
14	2,500	2,450	2,470	1,040	1,030	1,040	1,050	1,020	1,040	658	532	569
15	2,460	2,350	2,400	1,070	994	1,040	1,060	1,020	1,040	665	642	653
16	2,350	2,140	2,240	994	752	799	1,020	1,000	1,010	702	642	665
17	2,140	1,990	2,080	890	760	829	1,020	1,000	1,010	776	702	741
18	2,670	1,970	2,160	964	890	933	1,020	1,000	1,010	802	472	700
19	2,370	1,490	1,790	993	964	979	1,020	1,010	1,010	571	319	453
20	1,510	1,370	1,410	1,010	989	996	1,060	565	960	703	571	654
21	1,500	1,370	1,450	1,010	994	1,000	565	472	525	777	703	749
22	1,500	1,410	1,460	1,020	987	1,010	635	552	581	813	777	791
23	1,410	1,390	1,400	1,030	989	1,000	759	635	701	848	813	832
24	1,390	1,360	1,370	1,070	1,020	1,040	881	759	812	892	668	857
25	1,360	1,320	1,330	1,080	988	1,050	949	881	919	788	258	429
26	1,330	1,310	1,320	988	929	948	967	939	951	658	545	605
27	1,350	1,310	1,330	994	966	987	939	886	911	669	281	486
28	1,330	1,310	1,320	975	594	727	903	884	890	644	516	586
29	1,330	1,260	1,310	810	689	751	933	879	909	720	644	686
30	---	---	---	893	810	857	987	701	896	751	720	737
31	---	---	---	909	834	869	---	---	---	778	748	764
MONTH	4,540	1,260	2,200	1,540	435	973	1,060	472	925	999	258	718

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	794	778	787	638	577	609	975	944	964	774	756	764
2	805	793	799	669	276	536	995	975	986	809	774	790
3	815	802	809	457	312	393	993	964	983	825	809	821
4	823	812	817	566	457	515	1,030	887	971	834	825	828
5	825	821	823	619	489	571	1,040	1,010	1,030	838	644	824
6	837	824	829	620	187	399	1,090	1,020	1,070	665	541	579
7	845	836	841	670	517	604	1,020	891	946	---	525	548
8	849	844	846	741	670	711	907	890	897	563	524	538
9	858	787	845	792	741	767	975	907	948	625	563	594
10	787	411	549	866	792	838	1,010	975	1,000	677	625	648
11	499	444	471	897	864	881	1,020	999	1,010	717	677	696
12	587	499	543	904	883	895	1,010	995	1,000	762	717	737
13	625	491	558	935	890	917	1,010	995	1,000	789	762	777
14	554	517	530	956	935	946	1,000	949	983	819	789	805
15	619	554	583	976	956	967	969	933	950	850	819	836
16	733	619	659	968	316	624	937	902	920	899	850	875
17	737	521	591	543	425	475	916	889	905	909	896	903
18	576	272	443	660	543	606	889	874	881	908	399	700
19	562	435	500	748	660	705	892	770	868	466	392	426
20	674	562	619	829	748	785	865	735	815	488	466	481
21	763	674	719	899	829	865	827	784	800	533	488	509
22	809	763	791	907	857	887	804	785	794	580	533	552
23	842	809	825	971	862	901	810	554	757	622	580	603
24	859	842	851	999	199	597	576	280	368	669	622	648
25	851	836	844	557	361	481	425	355	383	703	669	686
26	844	830	837	646	557	602	523	425	476	739	703	723
27	894	566	820	---	---	---	574	160	497	775	739	756
28	566	381	425	---	---	---	512	155	365	804	775	790
29	483	449	462	884	837	858	642	512	582	840	804	822
30	577	483	524	910	884	900	711	642	681	868	840	854
31	---	---	---	944	910	931	756	711	735	---	---	---
MONTH	894	272	685	999	187	716	1,090	155	825	909	392	704

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, 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	8.4	8.0	8.2	8.2	8.1	8.2	7.8	7.8	7.8	8.2	8.1	8.1
2	8.0	7.9	7.9	8.1	8.0	8.0	---	---	7.5	8.2	8.1	8.2
3	8.0	7.8	7.9	8.1	8.0	8.1	8.0	7.8	7.9	8.2	8.0	8.1
4	8.1	7.8	8.0	7.8	7.5	7.7	7.8	7.8	7.8	8.3	8.0	8.2
5	8.2	7.8	8.0	8.0	7.8	7.9	7.8	7.8	7.8	8.2	8.1	8.2
6	8.2	8.0	8.1	8.0	8.0	8.0	7.9	7.7	7.8	8.2	8.0	8.1
7	8.2	8.0	8.1	8.1	8.0	8.0	7.9	7.8	7.8	8.1	8.0	8.1
8	8.2	8.0	8.1	8.1	8.0	8.0	8.0	7.9	7.9	8.4	8.0	8.1
9	8.2	8.0	8.2	8.1	8.0	8.0	8.0	7.9	8.0	8.3	8.2	8.2
10	8.2	8.0	8.1	8.1	8.0	8.0	7.9	7.9	7.9	8.3	8.2	8.3
11	8.1	7.9	8.0	8.0	8.0	8.0	8.0	7.9	7.9	8.4	8.2	8.3
12	8.0	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.4	8.2	8.3
13	8.1	7.8	7.9	8.1	8.0	8.1	8.1	8.0	8.0	8.4	8.2	8.3
14	8.0	7.8	7.9	8.1	8.0	8.1	8.1	8.0	8.0	8.4	8.2	8.3
15	7.9	7.8	7.8	8.1	8.0	8.0	8.1	8.0	8.1	8.5	8.2	8.3
16	7.8	7.7	7.8	8.2	8.0	8.0	8.1	7.9	8.0	8.4	8.2	8.3
17	7.9	7.7	7.8	8.1	8.0	8.0	8.0	7.9	7.9	8.3	8.1	8.2
18	8.0	7.8	7.8	8.0	7.9	8.0	8.1	8.0	8.0	8.1	8.0	8.1
19	8.0	7.8	7.9	8.1	7.9	8.0	8.1	8.1	8.1	8.3	8.1	8.1
20	8.1	7.9	8.0	8.1	8.0	8.1	8.2	8.1	8.1	8.4	8.2	8.3
21	8.1	7.9	8.0	8.1	8.0	8.1	8.2	8.1	8.1	8.4	8.2	8.3
22	8.1	7.9	8.0	8.1	8.0	8.0	8.1	8.1	8.1	8.4	8.3	8.3
23	8.0	7.9	8.0	8.1	7.8	7.9	8.1	8.0	8.0	8.4	8.3	8.4
24	8.0	8.0	8.0	7.8	7.7	7.7	8.0	7.9	7.9	8.4	8.3	8.4
25	8.0	8.0	8.0	7.7	7.6	7.7	8.1	8.0	8.0	8.4	8.3	8.4
26	8.1	8.0	8.0	7.7	7.6	7.6	8.2	8.0	8.1	8.5	8.3	8.4
27	8.1	8.0	8.0	7.7	7.6	7.6	8.2	8.0	8.1	8.5	8.3	8.4
28	8.1	8.0	8.1	7.7	7.7	7.7	8.2	8.1	8.2	8.4	8.3	8.4
29	8.2	8.1	8.1	7.8	7.7	7.7	8.2	8.0	8.0	8.4	8.3	8.3
30	8.2	8.0	8.1	7.8	7.7	7.8	8.1	7.9	8.0	8.4	8.2	8.3
31	8.2	8.1	8.1	---	---	---	8.1	7.9	8.0	8.4	8.2	8.3
MAX	8.4	8.1	8.2	8.2	8.1	8.2	8.2	8.1	8.2	8.5	8.3	8.4
MIN	7.8	7.7	7.8	7.7	7.5	7.6	7.8	7.7	7.5	8.1	8.0	8.1

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

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

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

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

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, 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	14.3	12.2	13.2	12.5	11.3	11.7	4.8	4.2	4.4	5.6	4.0	4.7
2	14.5	12.6	13.6	11.6	11.2	11.4	4.8	4.3	4.5	7.3	5.2	6.3
3	14.9	13.6	14.2	---	11.3	12.0	4.5	4.1	4.3	7.1	5.9	6.6
4	15.6	13.5	14.5	---	---	---	4.8	4.1	4.4	5.9	2.9	4.5
5	16.9	14.8	15.7	12.0	10.0	10.7	4.5	3.6	4.0	2.9	0.6	1.7
6	17.5	15.5	16.4	10.0	8.6	9.2	3.8	3.2	3.5	1.0	0.3	0.6
7	18.0	16.1	16.9	8.6	7.6	8.0	4.2	2.9	3.5	0.6	0.3	0.5
8	18.5	17.1	17.7	7.9	7.1	7.3	4.9	3.6	4.2	0.9	0.3	0.6
9	19.4	18.3	18.8	7.7	6.8	7.2	6.3	4.9	5.4	0.8	0.5	0.6
10	19.3	18.4	18.9	8.3	7.2	7.7	5.0	1.2	2.6	1.0	0.2	0.6
11	19.1	18.0	18.7	9.6	8.3	8.8	1.2	0.3	0.7	1.6	0.5	1.0
12	18.0	16.2	17.1	9.8	9.0	9.6	0.8	0.2	0.5	1.8	0.7	1.2
13	17.2	15.3	16.0	9.3	8.0	8.3	0.8	0.2	0.5	2.1	0.8	1.4
14	15.9	14.6	15.4	8.4	7.7	8.1	1.1	0.5	0.7	2.6	0.8	1.7
15	15.6	14.0	14.9	8.9	8.3	8.5	2.6	0.8	1.5	2.6	1.0	1.8
16	15.4	14.2	14.6	9.3	7.9	8.5	3.2	2.4	2.9	2.9	1.8	2.3
17	14.2	12.5	13.5	10.2	8.3	9.2	2.4	1.6	2.1	4.0	2.5	3.0
18	14.6	12.5	13.4	11.0	10.0	10.4	3.3	2.2	2.7	4.1	2.0	3.4
19	15.3	13.4	14.2	10.2	8.8	9.5	3.1	2.5	2.7	2.0	0.4	1.1
20	16.5	14.7	15.4	10.3	9.1	9.7	3.0	1.9	2.4	0.7	0.2	0.4
21	16.4	15.2	15.8	10.0	9.4	9.7	4.1	2.3	3.0	1.7	0.2	0.8
22	16.2	15.0	15.6	9.4	9.0	9.1	4.8	3.6	3.9	1.7	0.8	1.1
23	16.2	15.3	15.8	9.0	5.9	7.5	4.8	3.6	4.3	2.4	0.7	1.3
24	16.5	15.2	15.7	5.9	4.2	4.7	3.6	2.1	2.7	2.3	1.4	1.8
25	16.2	14.4	15.2	4.3	3.1	3.7	2.7	1.5	2.0	1.9	1.5	1.7
26	14.4	12.5	13.2	4.3	3.3	3.7	4.0	2.0	2.8	1.7	0.4	1.1
27	12.8	11.9	12.4	4.3	3.5	3.9	6.8	4.0	5.2	0.8	0.1	0.4
28	13.2	12.4	12.8	3.8	3.0	3.3	7.9	6.8	7.4	0.8	0.1	0.4
29	12.9	11.8	12.4	3.5	2.7	3.0	7.4	5.3	6.4	0.5	0.1	0.3
30	14.2	12.4	13.2	4.5	3.5	3.9	5.3	4.3	4.9	0.7	0.1	0.3
31	13.7	12.5	13.1	---	---	---	4.8	4.0	4.4	0.5	0.1	0.3
MONTH	19.4	11.8	15.1	12.5	2.7	7.9	7.9	0.2	3.4	7.3	0.1	1.7

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, 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	0.3	0.1	0.2	8.5	7.9	8.2	12.6	9.9	11.2	16.9	14.4	15.5
2	0.3	0.0	0.1	8.6	7.2	7.8	14.0	10.8	12.3	16.2	14.1	15.2
3	0.5	0.0	0.2	7.9	7.3	7.6	14.9	11.5	13.0	16.7	13.0	14.8
4	0.3	0.1	0.1	7.7	6.7	7.3	15.2	11.3	13.2	16.8	14.6	15.6
5	0.1	0.0	0.0	8.0	7.5	7.8	14.6	12.0	13.4	20.2	14.7	17.2
6	0.2	0.0	0.1	9.4	6.7	7.9	16.4	12.8	14.4	23.2	18.4	20.6
7	0.3	0.0	0.1	10.0	8.5	9.3	16.9	14.8	15.8	25.4	21.1	23.2
8	0.3	0.0	0.1	9.4	8.0	8.7	17.6	14.4	16.0	26.1	22.5	24.3
9	0.4	0.0	0.1	10.6	8.4	9.5	16.3	14.4	15.0	25.7	23.3	24.5
10	0.4	0.0	0.2	10.3	8.3	9.4	14.4	12.7	13.5	24.4	19.0	21.4
11	0.4	0.0	0.2	10.0	8.2	9.2	14.4	11.0	12.6	22.9	20.1	21.4
12	0.5	0.0	0.2	9.5	7.7	8.7	13.6	11.5	12.6	22.7	21.6	22.1
13	0.5	0.0	0.2	8.7	7.8	8.2	14.7	11.0	12.7	22.2	16.6	19.8
14	0.7	0.1	0.3	9.9	7.4	8.6	15.6	11.6	13.6	16.6	15.1	15.8
15	0.6	0.0	0.2	9.2	7.4	8.5	17.0	13.4	15.1	17.9	14.4	16.2
16	0.5	0.1	0.2	7.4	6.6	7.0	20.6	15.4	17.9	19.7	16.4	18.0
17	0.5	0.1	0.2	8.4	6.3	7.3	22.6	18.6	20.6	22.2	18.6	20.1
18	0.8	0.0	0.3	10.8	7.9	9.2	21.7	19.2	20.1	21.3	19.4	20.2
19	3.9	0.2	1.4	12.5	9.3	10.9	21.8	18.1	19.8	22.5	19.4	20.7
20	---	3.9	---	15.1	12.4	13.4	21.0	18.6	20.0	24.6	22.1	23.2
21	6.5	4.8	5.7	13.2	10.8	12.1	19.2	16.8	18.1	25.8	23.0	24.4
22	7.1	5.4	6.1	12.3	9.8	11.1	18.4	16.3	17.3	25.3	23.9	24.6
23	7.5	6.7	7.0	12.4	10.1	11.2	16.3	15.2	15.6	26.5	23.4	24.7
24	6.9	5.4	6.1	13.1	11.7	12.4	15.5	14.6	15.0	25.9	23.3	24.5
25	6.5	4.8	5.5	14.7	13.1	13.9	17.0	13.9	15.3	23.4	20.3	20.9
26	6.8	4.2	5.4	16.9	14.4	15.6	18.2	14.5	16.2	20.9	19.4	20.1
27	7.1	4.5	5.8	17.1	16.5	16.8	18.6	14.9	16.8	21.9	17.9	19.8
28	7.7	5.5	6.6	16.5	13.6	14.8	20.3	16.5	18.3	22.9	20.6	21.8
29	8.4	7.0	7.6	14.3	13.1	13.8	19.2	17.8	18.1	23.8	21.3	22.6
30	---	---	---	13.2	11.0	12.1	17.8	15.4	16.8	23.8	22.6	23.2
31	---	---	---	---	9.3	---	---	---	---	23.4	20.9	22.2
MONTH	8.4	0.0	2.1	17.1	6.3	10.3	22.6	9.9	15.7	26.5	13.0	20.6

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	20.5	22.2	24.9	23.2	24.0	27.6	23.8	25.5	24.0	22.4	23.2
2	23.7	20.6	22.2	24.4	22.6	23.4	28.9	25.6	27.1	24.6	22.4	23.5
3	24.1	20.6	22.3	24.9	22.8	23.7	30.4	26.9	28.5	24.9	22.4	23.6
4	24.9	20.9	22.8	27.0	23.8	25.2	29.4	26.8	27.8	25.4	22.9	24.1
5	23.7	21.9	22.5	26.5	23.9	25.4	27.8	25.1	26.5	25.8	23.7	24.7
6	24.3	21.2	22.6	25.4	21.5	23.5	26.8	24.3	25.7	24.4	22.7	23.6
7	26.1	22.9	24.4	23.8	21.8	22.9	26.5	23.1	24.9	23.2	---	22.5
8	26.9	23.7	25.2	23.8	22.8	23.2	25.5	23.4	24.4	22.6	20.1	21.4
9	26.0	23.0	24.3	24.2	22.1	23.1	27.3	23.5	25.2	22.4	19.8	21.1
10	23.0	21.5	22.4	25.8	22.9	24.2	26.3	24.3	25.3	22.9	20.2	21.4
11	25.5	22.7	23.9	28.4	24.9	26.4	25.4	23.1	24.2	22.7	20.7	21.6
12	26.8	24.1	25.4	29.8	26.2	27.7	23.8	21.2	22.7	23.4	20.7	21.9
13	25.3	21.9	23.7	31.0	27.0	28.9	23.2	21.2	22.3	23.9	21.6	22.7
14	27.1	23.3	25.1	30.5	27.8	29.2	23.4	21.2	22.3	24.8	22.2	23.4
15	27.2	25.3	26.1	30.0	26.9	28.4	23.6	20.8	22.2	24.4	23.2	23.6
16	26.8	25.0	25.9	28.7	22.9	25.5	23.3	21.2	22.2	23.4	21.6	22.6
17	25.1	23.0	24.2	27.1	24.5	25.7	25.1	21.9	23.1	22.6	20.6	21.4
18	24.4	20.6	22.4	27.4	24.6	26.0	26.3	23.5	24.8	21.4	19.8	20.8
19	22.0	20.9	21.4	28.4	24.4	26.2	26.2	21.7	23.8	23.2	20.9	21.9
20	21.3	20.0	20.6	30.0	26.2	27.9	22.1	20.0	21.0	23.0	21.1	22.2
21	---	20.6	---	29.0	27.6	28.3	22.0	20.1	21.0	23.2	20.8	22.0
22	25.4	22.3	23.5	30.2	27.2	28.5	23.8	20.4	21.7	22.9	20.9	22.0
23	26.3	22.0	24.0	28.9	26.2	27.2	23.7	22.1	22.8	22.6	21.1	21.6
24	27.1	23.2	25.0	26.2	18.8	22.1	22.3	20.2	21.7	21.7	19.5	20.7
25	25.5	22.4	24.1	21.9	19.7	20.7	24.0	22.3	23.2	21.7	19.6	20.6
26	25.2	21.8	23.5	22.9	20.7	21.8	26.9	23.3	24.9	21.3	19.5	20.3
27	24.5	20.0	22.1	---	---	---	27.8	22.8	25.8	21.1	19.2	20.1
28	22.8	19.8	21.0	---	---	---	24.0	22.4	23.2	20.7	19.3	19.9
29	24.4	20.4	22.3	23.4	22.6	23.0	23.5	21.6	22.6	19.7	17.7	18.6
30	25.0	21.6	23.2	24.1	21.9	22.8	23.5	21.5	22.4	19.1	17.6	18.4
31	---	---	---	26.1	22.2	23.9	23.9	21.8	22.8	---	---	---
MONTH	27.2	19.8	23.4	31.0	18.8	25.1	30.4	20.0	23.9	25.8	17.6	21.8

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.3	9.0	9.7	11.3	10.2	10.7	13.3	11.2	12.2	14.3	11.8	13.2
2	10.8	8.3	9.4	10.3	9.4	9.7	13.0	11.7	12.2	14.0	11.9	13.1
3	10.6	8.2	9.3	11.4	8.5	9.9	11.8	11.2	11.5	13.5	9.8	11.3
4	11.8	8.0	9.8	9.8	8.1	8.7	11.2	10.3	10.7	12.8	10.6	12.1
5	11.3	8.3	10.0	9.8	7.9	8.8	10.7	10.3	10.6	15.2	12.2	13.5
6	11.5	8.3	10	10.4	9.5	9.9	11.6	10.0	10.7	16.2	13.9	14.8
7	12.7	7.9	9.5	12.0	9.9	10.8	12.3	10.8	11.5	16.5	14.4	15.5
8	11.1	8.7	9.7	12.2	9.9	11.1	12.3	11.1	11.7	19.1	15.4	17.2
9	11.8	8.9	10	12.3	10.7	11.5	12.3	10.7	11.3	18.7	16.5	17.6
10	11.0	7.7	9.2	11.7	10.5	11.2	12.9	10.9	12.1	19.6	16.9	18.0
11	9.5	6.9	8.1	12.4	9.5	10.9	13.5	12.9	13.2	19.4	16.6	18.0
12	10.8	7.4	8.6	12.3	9.4	10.7	13.9	13.3	13.5	19.4	16.4	17.9
13	10.7	7.0	8.3	11.9	10.3	11.1	13.7	13.1	13.4	19.5	16.3	17.8
14	9.3	7.2	8.6	12.2	10.5	11.2	14.0	13.0	13.5	19.8	16.3	18.0
15	9.5	7.2	8.2	11.9	9.9	10.8	13.8	12.7	13.3	20.1	16.4	18.1
16	9.2	6.8	7.9	13.7	9.9	11.2	12.7	12.0	12.2	19.4	16.1	17.3
17	10.7	7.4	9.0	12.6	9.5	10.6	13.3	12.4	12.8	16.9	13.5	15.0
18	11.5	7.2	9.2	11.4	9.0	9.8	13.5	12.6	13.0	14.8	13.1	13.8
19	10.6	8.0	9.6	11.0	8.3	9.6	13.6	12.8	13.2	17.6	14.8	16.1
20	10.5	8.2	9.4	11.1	8.4	10	14.1	12.8	13.3	19.4	16.6	17.8
21	10.6	7.4	9.3	10.7	9.6	10.2	14.0	12.6	13.2	20.3	17.2	18.5
22	10.3	6.4	9.2	11.3	9.2	10.3	12.8	11.9	12.4	20.6	17.3	18.7
23	10.5	8.0	9.1	10.5	9.6	10.0	11.9	11.6	11.7	20.3	18.1	18.9
24	9.4	7.9	8.9	10.5	9.7	10.2	13.2	11.8	12.5	20.3	17.9	18.8
25	9.4	8.1	8.9	11.1	10.2	10.5	14.4	12.9	13.6	19.3	17.2	18.0
26	10.6	8.6	9.6	11.1	10.6	10.8	14.8	13.3	14.0	19.6	16.5	17.8
27	11.4	8.9	10.1	11.4	10.3	10.9	13.3	12.0	12.8	21.1	17.3	18.7
28	12.2	9.4	10.5	12.1	11.2	11.6	12.1	10.6	11.3	21.9	18.5	20.0
29	13.5	9.6	10.9	12.4	11.7	12.0	12.5	10.2	11.3	22.6	19.1	20.7
30	11.8	8.4	10.1	13.0	10.9	12.1	14.2	10.9	12.3	23.6	19.2	21.2
31	12.9	9.7	10.4	---	---	---	14.2	11.3	12.5	24.0	19.5	21.6
MONTH	13.5	6.4	9.4	13.7	7.9	10.6	14.8	10.0	12.4	24.0	9.8	17.1

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, 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	22.4	18.7	20.2	12.0	10.3	10.7	13.0	10.5	11.7	7.7	7.2	7.4
2	20.0	17.3	18.7	12.0	10.0	10.9	13.3	10.3	11.8	7.6	7.2	7.4
3	21.2	17.3	18.8	12.4	10.9	11.5	13.6	10.2	11.8	8.3	7.2	7.7
4	20.1	17.0	18.3	12.1	11.1	11.6	14.6	10.1	12.1	8.2	7.3	7.7
5	18.5	17.0	17.6	11.8	11.3	11.7	14.5	10.3	12.3	8.8	7.3	7.9
6	18.5	16.1	17.1	12.2	11.4	11.9	14.6	10.3	12.2	8.8	6.8	7.7
7	19.5	16.4	17.4	11.9	11.0	11.5	13.1	9.9	11.3	8.8	6.1	7.4
8	20.2	16.8	18.0	12.4	11.3	11.8	13.5	9.2	10.9	8.8	5.6	7.2
9	20.4	17.0	18.4	12.0	11.3	11.7	12.6	9.7	10.9	9.0	5.4	7.2
10	20.8	17.0	18.6	12.0	11.4	11.7	12.4	9.4	10.5	8.3	5.7	6.9
11	20.9	16.8	18.6	13.0	11.4	12.1	14.3	10.1	12.0	6.6	5.6	6.0
12	21.5	16.9	18.7	13.9	11.9	12.8	14.7	11.2	12.8	5.7	5.3	5.5
13	21.6	17.7	19.2	13.4	12.3	12.8	15.2	11.2	13.0	8.4	5.4	6.7
14	21.4	17.8	19.3	14.9	12.3	13.5	15.4	11.1	13.1	9.2	7.8	8.6
15	21.7	17.2	19.1	13.6	12.2	12.8	14.7	10.4	12.4	9.1	8.4	8.7
16	21.5	17.5	19.2	13.1	11.9	12.5	13.5	9.0	11.4	8.5	7.8	8.2
17	20.1	17.1	18.7	15.2	12.9	13.9	12.1	7.5	9.9	8.1	7.4	7.7
18	18.1	20.1	21.0	15.5	13.0	14.2	10.0	6.6	7.9	7.6	6.9	7.2
19	16.0	13.7	14.7	15.7	12.5	14.0	11.4	6.0	8.3	8.0	7.0	7.5
20	---	---	---	15.6	11.6	13.4	9.0	6.3	7.0	7.3	6.7	7.0
21	14.1	11.3	12.5	16.6	11.4	13.7	7.4	6.1	6.9	7.1	6.3	6.7
22	15.2	12.2	13.4	17.3	12.6	14.6	6.3	5.9	6.1	7.0	6.1	6.5
23	15.0	12.0	13.4	16.4	12.6	14.1	7.0	6.2	6.5	7.5	6.1	6.7
24	14.3	12.2	13.1	13.6	11.6	12.5	8.0	6.7	7.4	7.9	5.9	6.8
25	16.9	12.3	14.3	11.6	9.9	10.7	8.4	7.6	7.9	7.8	6.4	7.5
26	18.0	13.4	15.4	12.0	9.3	10.5	8.4	7.3	7.7	8.1	7.6	7.8
27	17.9	13.4	15.4	10.8	8.9	9.8	8.2	6.8	7.4	8.5	7.5	8.1
28	16.8	13.2	14.8	10.4	9.2	10.0	8.4	6.6	7.4	8.1	7.5	7.8
29	14.6	12.0	13.4	11.4	9.9	10.5	7.2	6.2	6.5	7.9	7.5	7.7
30	---	---	---	12.8	10.9	11.8	7.6	6.3	6.8	7.7	7.2	7.5
31	---	---	---	---	---	---	---	---	---	8.2	7.2	7.7
MONTH	22.4	11.3	17.0	17.3	8.9	12.2	15.4	5.9	9.8	9.2	5.3	7.4

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.8	7.5	8.1	13.5	8.1	10.5	12.9	7.6	9.8	---	---	---
2	9.5	7.6	8.4	10.7	7.7	8.8	13.5	7.5	9.9	---	---	---
3	10.2	7.6	8.7	8.7	8.2	8.5	14.4	7.2	10.1	---	---	---
4	10.9	7.6	9.1	8.9	7.3	8.2	10.0	6.7	8.1	---	---	---
5	10.3	7.7	8.9	8.3	7.4	8.0	12.5	6.6	9.0	---	---	---
6	12.7	7.8	9.7	9.3	7.3	8.6	13.9	7.3	10.1	---	---	---
7	14.6	7.4	10.4	9.7	8.8	9.3	15.8	7.5	11.0	---	---	---
8	16.7	7.1	11.2	9.1	8.6	8.8	13.3	7.4	10.2	9.0	7.0	7.8
9	12.0	7.1	8.9	9.4	8.6	8.9	15.7	6.8	11.0	10.1	7.3	8.3
10	8.8	7.8	8.3	---	8.3	---	15.3	7.1	10.9	10.2	7.5	8.5
11	8.3	7.6	8.0	---	---	---	15.0	7.4	11.1	10.3	7.3	8.6
12	9.0	7.1	7.9	---	---	---	15.8	8.0	11.4	11.6	7.2	9.0
13	8.7	7.8	8.3	---	---	---	14.6	8.0	11.5	12.4	7.3	9.4
14	9.3	6.7	7.7	---	---	---	14.6	7.9	11.5	13.5	7.0	9.8
15	9.2	6.2	7.5	---	---	---	14.7	8.0	11.8	10.2	6.8	8.3
16	9.1	6.2	7.6	---	---	---	12.8	8.2	11.1	11.3	6.7	8.6
17	8.3	6.9	7.4	---	---	---	14.6	8.2	11.4	11.5	6.8	9.0
18	8.2	6.8	7.7	---	---	---	15.0	7.9	11.3	9.9	6.9	7.7
19	8.6	8.0	8.2	---	---	---	---	---	---	6.9	6.0	6.5
20	9.1	8.3	8.6	---	---	---	---	---	---	7.6	5.5	6.4
21	---	8.2	---	14.9	---	---	---	---	---	8.2	5.7	6.7
22	10.2	7.7	8.8	16.7	7.4	11.5	---	---	---	8.8	5.1	7.0
23	11.7	7.8	9.4	12.6	7.1	9.1	---	---	---	8.6	5.7	7.1
24	12.6	7.8	9.9	9.2	6.8	8.1	---	---	---	9.5	6.0	7.5
25	13.7	8.0	10.4	9.0	8.1	8.6	---	---	---	9.8	5.0	7.5
26	14.8	8.0	11.2	9.2	8.0	8.5	---	---	---	10.3	5.0	7.5
27	12.6	8.2	9.4	---	---	---	---	---	---	10.2	5.9	8.0
28	9.7	8.2	8.8	---	---	---	---	---	---	10.1	5.1	8.0
29	11.9	7.8	9.5	9.0	7.6	8.3	---	---	---	11.0	6.1	8.5
30	13.1	7.8	10.2	10.4	7.8	8.8	---	---	---	11.6	6.1	9.1
31	---	---	---	11.6	7.8	9.4	---	---	---	---	---	---
MONTH	16.7	6.2	8.9	16.7	6.8	8.9	15.8	6.6	10.6	13.5	5.0	8.0

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22	9.7	13	8.3	3.2	5.5	13	7.8	10	4.0	2.0	2.9
2	26	7.4	14	5.4	3.4	4.2	9.0	5.0	7.0	9.0	2.0	4.2
3	9.4	4.4	6.6	9.1	4.0	5.8	120	5.0	65	7.0	3.0	4.2
4	8.5	4.1	5.6	19	4.0	6.6	62	25	35	19	3.0	6.2
5	6.1	2.8	4.3	10	2.6	5.0	26	15	22	7.0	4.0	5.8
6	6.1	2.5	4.0	3.4	<2.0	2.4	15	12	13	8.0	4.0	5.6
7	5.1	2.0	3.3	4.7	<2.0	2.1	12	9.0	11	8.0	4.0	5.5
8	5.3	<2.0	2.9	2.8	<2.0	2.0	11	8.0	9.5	6.3	4.0	5.2
9	5.9	<2.0	3.1	3.1	<2.0	2.3	620	9.0	180	---	---	---
10	6.7	<2.0	2.7	3.4	<2.0	2.5	280	36	91	---	---	---
11	8.1	<2.0	4.0	5.3	<2.0	2.8	37	18	25	4.0	2.9	3.5
12	6.2	3.7	4.8	8.4	<2.0	4.7	18	11	15	3.8	2.7	3.2
13	74	2.6	9.4	7.6	<2.0	3.7	12	6.0	8.8	3.6	2.8	3.1
14	80	22	49	3.9	<2.0	2.8	7.0	5.0	5.6	3.3	2.5	2.8
15	30	13	21	4.4	<2.0	3.2	55	4.0	15	3.7	2.3	2.7
16	16	9.9	13	6.1	<2.0	2.8	37	27	32	12	2.6	4.3
17	17	10	13	7.3	<2.0	3.3	33	11	20	30	3.2	14
18	11	5.4	8.6	8.3	4.0	6.2	12	6.0	9.0	39	22	31
19	12	4.3	7.9	5.9	2.3	4.0	8.0	5.0	6.2	22	10	15
20	9.5	3.3	6.6	5.1	2.3	3.6	7.0	3.0	4.6	10	5.1	7.3
21	11	3.6	6.8	5.0	2.3	3.6	7.0	4.0	4.4	5.2	3.4	4.4
22	26	2.9	8.5	3.8	<2.0	2.3	54	4.0	10	3.9	<2.0	3.3
23	12	3.1	6.7	240	<2.0	89	68	39	50	2.4	<2.0	<2.0
24	12	4.5	7.0	100	62	79	43	17	30	2.1	<2.0	<2.0
25	14	5.5	8.0	63	51	58	18	9.0	13	4.7	<2.0	2.1
26	13	6.0	8.3	52	35	44	9.0	5.0	6.2	2.8	<2.0	2.2
27	9.5	4.9	6.7	36	24	30	14	5.0	6.7	2.6	<2.0	2.0
28	8.2	4.1	6.1	24	20	23	19	11	14	2.9	<2.0	2.2
29	9.1	4.0	6.4	21	17	20	16	10	13	2.4	<2.0	2.0
30	11	3.7	5.7	19	12	15	12	6.0	8.9	2.1	<2.0	<2.0
31	11	4.5	7.1	---	---	---	8.0	3.0	4.8	2.3	<2.0	2.0
MONTH	80	2.0	8.8	240	2.0	15	620	3.0	24	39	2.0	5.3

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

TURBIDITY, WATER, UNFILTERED, NEAR INFRA-RED LED, 860 NM, DETECTION ANGLE 90 +/-2.5 DEGREES TO INCIDENT LIGHT (FNU), MEASUREMENTS MADE USING YSI SENSOR 6136—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	3.8	<2.0	2.1	41	23	29	6.0	4.0	5.1	83	32	50
2	3.2	<2.0	2.2	46	23	31	10	2.0	7.3	32	21	27
3	3.5	2.2	2.6	28	13	19	9.0	6.0	6.9	25	15	20
4	3.8	2.7	3.3	>1,800	14	>650	8.0	4.0	5.6	19	12	16
5	3.3	2.0	2.7	350	46	120	6.0	3.0	4.5	19	9.0	14
6	2.3	<2.0	2.0	47	20	30	7.0	4.0	5.1	15	6.0	11
7	2.0	<2.0	<2.0	23	12	17	7.0	4.0	5.2	14	6.0	9.3
8	2.0	<2.0	<2.0	12	8.7	11	11	4.0	6.2	11	5.0	8.3
9	2.4	<2.0	<2.0	14	7.6	11	7.0	4.0	4.8	10	5.0	7.5
10	7.6	<2.0	<2.0	47	7.3	21	9.0	5.0	6.0	1,970	5.0	490
11	2.2	<2.0	<2.0	38	9.4	20	7.0	3.0	5.4	200	51	110
12	2.3	<2.0	2.0	13	4.8	8.1	7.0	4.0	5.6	59	26	38
13	2.3	<2.0	<2.0	9.2	3.6	5.5	8.0	5.0	6.3	310	24	86
14	6.1	<2.0	2.2	8.6	3.6	5.6	12	2.0	4.6	180	46	79
15	2.2	<2.0	<2.0	59	6.2	20	5.0	2.0	3.1	64	27	41
16	3.7	<2.0	<2.0	66	25	38	5.0	<2.0	3.0	38	19	24
17	9.6	<2.0	3.4	25	8.6	15	4.0	2.0	2.4	25	12	18
18	170	9.4	36	12	6.7	8.6	9.0	<2.0	4.4	330	12	94
19	110	39	59	11	6.7	8.1	7.0	3.0	4.8	1,010	54	250
20	50	22	35	15	6.5	8.8	390	3.0	63	55	22	36
21	22	9.4	13	14	6.5	8.5	420	76	160	35	11	20
22	13	5.2	8.0	9.2	5.3	7.2	120	---	---	26	10	16
23	13	4.8	6.7	12	5.6	7.8	38	24	32	23	8.0	12
24	7.2	3.9	5.3	16	7.2	9.7	---	---	---	490	7.0	23
25	5.8	2.2	3.2	13	8.0	9.5	---	---	---	1,590	83	590
26	6.0	2.8	3.9	15	8.0	12	---	---	---	83	27	49
27	6.6	3.4	4.4	37	8.0	13	20	11	15	1,100	23	420
28	7.3	4.4	5.4	220	17	100	16	9.0	13	140	30	63
29	38	4.8	12	53	18	35	27	10	14	31	18	26
30	---	---	---	19	8.0	13	97	18	39	33	17	22
31	---	---	---	14	3.0	8.3	---	---	---	24	12	18
MONTH	170	2.0	7.9	1,800	3.0	42	420	2.0	17	1,970	5.0	87

06892513 MILL CREEK AT JOHNSON DRIVE, SHAWNEE, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18	10	13	9.0	4.0	6.1	6.0	2.0	3.3	13	7.0	10
2	17	7.0	11	940	4.0	240	4.0	<2.0	2.3	10	6.0	7.8
3	14	6.0	9.0	350	40	130	3.0	<2.0	1.6	8.0	5.0	6.6
4	14	5.0	7.6	44	16	28	20	<2.0	4.7	7.0	4.0	5.1
5	13	5.0	6.3	190	14	74	4.0	<2.0	2.6	570	3.0	26
6	10	2.0	5.6	1,610	35	430	9.0	2.0	3.0	450	54	170
7	4.0	<2.0	2.6	84	22	38	7.0	2.0	3.4	56	24	3.0
8	4.0	<2.0	2.1	24	12	17	7.0	3.0	4.4	27	14	21
9	27	<2.0	7.5	30	8.0	11	6.0	2.0	3.5	21	11	15
10	320	23	140	23	6.0	8.9	8.0	2.0	3.8	29	9.1	14
11	130	28	68	11	4.0	6.4	9.0	3.0	4.9	21	7.1	10
12	98	25	43	8.0	3.0	5.0	7.0	3.0	5.0	21	5.1	10
13	370	62	120	11	2.0	4.2	14	3.0	4.7	22	4.1	8.0
14	79	39	53	8.0	2.0	3.6	9.0	3.0	4.5	15	3.1	6.8
15	54	38	47	13	2.0	3.6	7.0	3.0	4.1	19	4.1	7.8
16	61	---	---	1,610	2.0	190	20	3.0	6.8	13	4.1	7.2
17	150	27	70	65	13	30	8.0	2.0	4.2	14	4.1	6.8
18	1,560	29	380	19	9.0	14	7.0	2.0	4.2	580	5.2	150
19	150	39	76	15	5.0	9.3	35	2.0	8.5	120	27	60
20	40	23	30	28	---	---	33	9.0	18	29	15	22
21	24	12	18	42	2	---	16	8.0	12	26	12	17
22	17	8.0	12	18	---	---	11	4.0	7.5	24	9.5	14
23	16	5.0	10	---	---	---	67	5.0	19	20	8.5	12
24	14	5.0	8.5	---	---	---	1,520	51	360	---	4.0	---
25	15	3.0	7.6	140	21	54	150	50	81	22	5.3	11
26	13	2.0	5.8	24	11	16	51	21	33	19	4.3	8.8
27	43	2.0	16	---	---	---	>1,600	17	>260	24	4.3	8.7
28	48	15	30	---	---	---	>1,600	64	>390	18	4.3	7.7
29	18	7.0	12	7.0	4.0	5.6	64	25	43	18	3.2	7.6
30	13	4.0	7.7	8.0	3.0	5.2	27	14	20	14	2.2	6.2
31	---	---	---	7.0	3.0	4.1	17	10	13	---	---	---
MONTH	1,560	2.0	42	1,610	2.0	56	1,600	2.0	43	580	2.2	23

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

06893080 BLUE RIVER NEAR STANLEY, KS

LOCATION.--Lat 38°48'45", long 94°40'32", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.19, T.14 S., R.25 E., Johnson County, Hydrologic Unit 10300001, on left bank between bridges on U.S. Highway 69, 0.5 mi downstream from confluence of Wolf and Coffee Creeks, 3.0 mi south of Stanley, and at mile 36.8.

DRAINAGE AREA.--46 mi^2, approximately.

PERIOD OF RECORD.--Annual maximum, water years 1970-74. October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 886.05 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1974, crest-stage 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 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 4	1800	16,300	19.44	Jul 24	1630	2,440	11.16
May 19	0345	*18,700	*20.12	Aug 24	0245	3,260	12.40
May 25	0300	2,240	10.83	Aug 28	0200	1,350	9.11

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	12	3.4	1.1	18	5.9	21	37	13	12	6.1	5.6	17
2	3.5	3.3	1.0	17	8.0	14	30	11	8.5	6.6	4.2	12
3	e2.7	3.3	7.5	15	6.3	13	26	9.5	8.3	22	3.3	7.8
4	e2.4	3.3	8.9	13	5.7	4,130	21	8.9	6.3	11	3.2	5.5
5	e2.5	3.2	5.1	11	7.0	641	20	7.8	5.8	7.2	4.4	7.8
6	e2.6	2.9	3.3	7.4	7.8	187	18	6.8	5.6	56	2.5	138
7	e2.3	3.6	1.9	6.3	6.0	94	17	6.4	4.2	22	1.8	26
8	e2.2	4.1	1.6	6.6	5.2	63	16	6.1	3.4	8.7	1.6	14
9	e2.3	3.7	25	6.7	5.8	50	13	5.0	3.8	6.0	1.5	8.6
10	e2.2	3.5	70	6.1	5.6	44	13	6.7	392	4.1	1.3	5.8
11	e2.2	3.6	23	6.1	5.9	35	13	17	123	2.7	1.4	4.1
12	e2.1	3.7	16	6.1	5.9	28	11	9.8	37	2.1	1.1	3.1
13	e2.3	3.4	15	5.6	5.2	24	9.9	28	35	1.8	1.9	2.6
14	e2.4	3.4	13	5.5	5.7	23	8.6	54	23	1.3	1.2	2.0
15	e2.3	3.5	15	5.6	6.9	53	7.6	34	16	1.1	1.0	2.3
16	2.1	3.6	43	6.6	6.8	64	6.9	19	13	10	0.90	1.9
17	3.0	4.1	29	19	16	37	6.9	14	9.5	11	0.90	1.8
18	3.4	5.4	33	42	119	30	6.8	105	174	3.3	0.97	81
19	2.6	5.3	46	18	224	24	6.6	4,450	52	2.1	0.91	25
20	2.8	3.7	26	14	105	22	12	230	25	1.5	0.94	e12
21	3.7	2.3	22	13	47	18	25	84	19	1.1	1.0	e5.9
22	4.1	2.1	30	12	33	16	12	47	14	1.3	1.3	2.8
23	4.4	3.3	97	10	27	20	10	34	7.7	2.1	2.1	2.2
24	3.3	4.8	35	9.5	23	21	26	29	5.3	714	1,100	1.8
25	3.6	2.5	24	9.9	19	18	23	654	3.3	234	124	1.4
26	3.6	1.8	20	10	16	18	14	96	2.9	60	155	1.3
27	3.7	1.6	44	7.9	15	18	11	56	19	31	40	1.3
28	3.8	1.5	96	5.7	13	448	8.8	36	30	20	568	1.1
29	3.1	1.9	38	5.5	14	125	8.4	26	11	15	91	1.7
30	3.2	1.4	27	5.1	---	75	9.6	21	6.0	12	40	1.6
31	3.4	---	21	4.7	---	49	---	16	---	7.9	25	---
MEAN	3.22	3.24	27.0	10.6	26.6	207	14.9	198	35.9	41.5	70.6	13.3
MAX	12	5.4	97	42	224	4,130	37	4,450	392	714	1,100	138
MIN	2.1	1.4	1.0	4.7	5.2	13	6.6	5.0	2.9	1.1	0.90	1.1
AC-FT	198	193	1,660	652	1,530	12,740	889	12,180	2,130	2,550	4,340	792

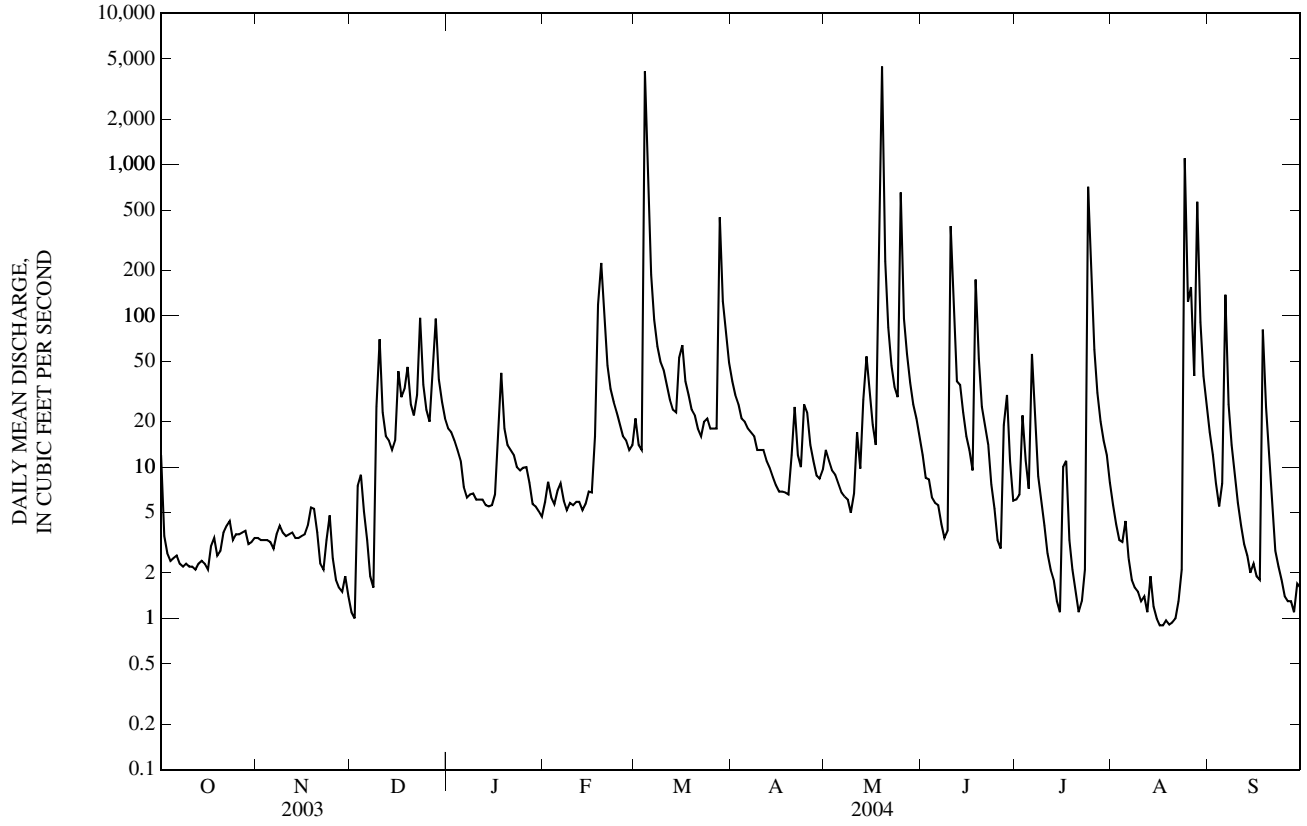
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	25.6	28.0	20.5	14.1	34.0	44.5	54.2	85.8	53.8	27.1	9.83	26.4
MAX	200	200	143	65.3	208	207	223	450	182	415	70.6	237
(WY)	(1987)	(1999)	(1993)	(1982)	(1985)	(2004)	(1983)	(1995)	(1984)	(1993)	(2004)	(1986)
MIN	0.00	0.02	0.04	0.04	0.45	0.78	1.12	2.29	1.07	0.04	0.00	0.00
(WY)	(1979)	(1981)	(1977)	(1977)	(1977)	(1996)	(1996)	(1988)	(1988)	(1980)	(1991)	(1976)

06893080 BLUE RIVER NEAR STANLEY, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL MEAN	10.3		54.9		35.3	
HIGHEST ANNUAL MEAN					104	1993
LOWEST ANNUAL MEAN					4.99	1976
HIGHEST DAILY MEAN	1,000	Aug 31	4,450	May 19	5,520	May 17, 1995
LOWEST DAILY MEAN	0.00	Jul 25	0.90	Aug 16	0.00	Aug 9, 1976
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 25	0.95	Aug 15	0.00	Aug 9, 1976
MAXIMUM PEAK FLOW			18,700	May 19	20,200	May 15, 1990
MAXIMUM PEAK STAGE			20.12	May 19	20.51	May 15, 1990
INSTANTANEOUS LOW FLOW			0.84	Aug 19	0.00	most years
ANNUAL RUNOFF (AC-FT)	7,460		39,860		25,550	
10 PERCENT EXCEEDS	19		55		54	
50 PERCENT EXCEEDS	2.0		8.4		4.6	
90 PERCENT EXCEEDS	0.00		1.9		0.08	

e Estimated



06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS

LOCATION.--Lat 38°50'32", long 94°36'44", in NE ¼ SE ¼ SE ¼ sec.10, T.14 S., R.25 E., Johnson County, Hydrologic Unit 10300101, on left downstream side of bridge on Kenneth Road.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--64.17 mi^2.

PERIOD OF RECORD.--May to September 2003.

GAGE.--Water-stage recorder. Datum of gage is 857.36 ft above NGVD of 1988.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

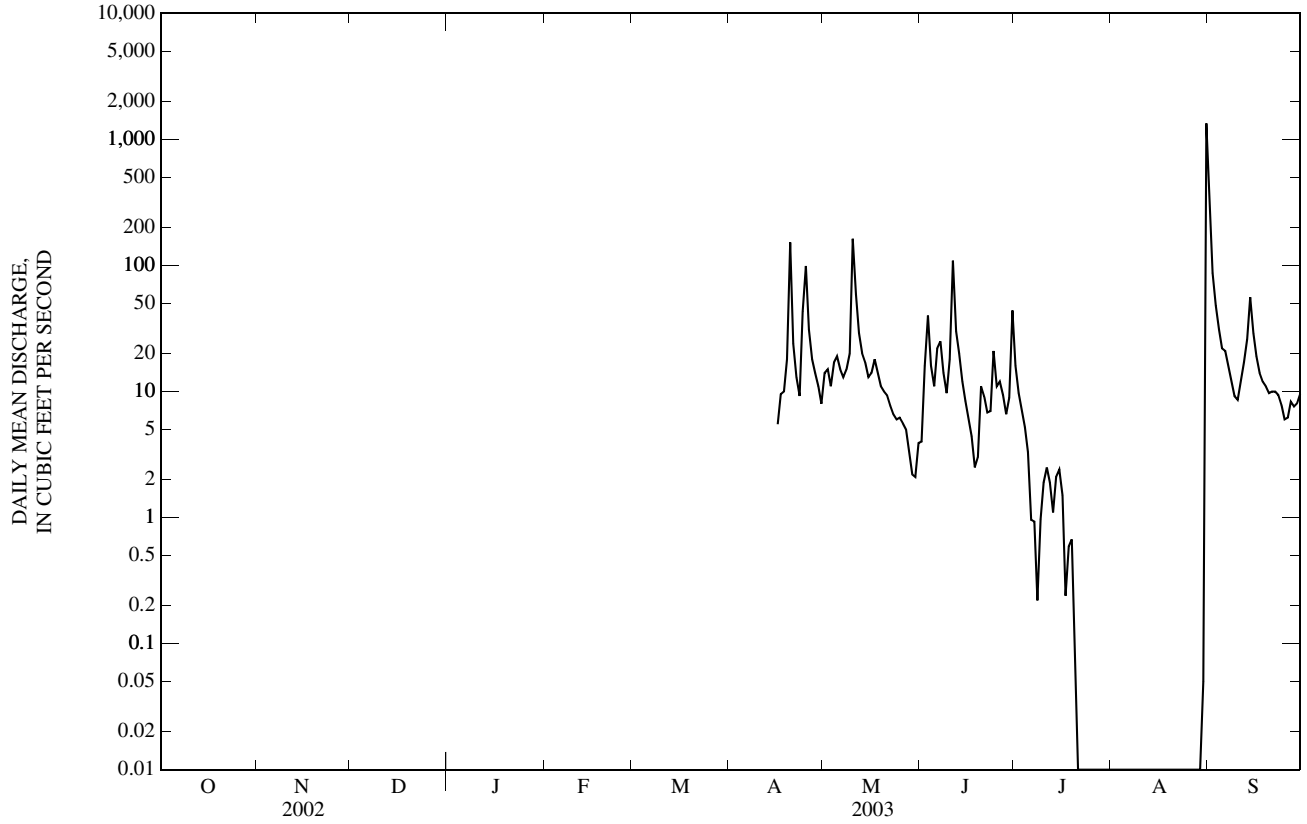
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e14	e4.0	e16	e0.00	e369
2	---	---	---	---	---	---	---	e15	e16	e9.7	e0.00	e87
3	---	---	---	---	---	---	---	e11	e40	e7.2	e0.00	e48
4	---	---	---	---	---	---	---	e17	e16	e5.2	e0.00	e31
5	---	---	---	---	---	---	---	e19	e11	e3.3	e0.00	e22
6	---	---	---	---	---	---	---	e15	e22	e0.96	e0.00	e21
7	---	---	---	---	---	---	---	e13	e25	e0.93	e0.00	e16
8	---	---	---	---	---	---	---	e15	e14	e0.22	e0.00	e12
9	---	---	---	---	---	---	---	e20	e9.7	e0.97	e0.00	e9.2
10	---	---	---	---	---	---	---	e163	e18	e1.9	e0.00	e8.6
11	---	---	---	---	---	---	---	e59	e109	e2.5	e0.00	e12
12	---	---	---	---	---	---	---	e29	e30	e1.9	e0.00	e17
13	---	---	---	---	---	---	---	e20	e20	e1.1	e0.00	e26
14	---	---	---	---	---	---	---	e17	e12	e2.1	e0.00	e56
15	---	---	---	---	---	---	---	e13	e8.4	e2.4	e0.00	e29
16	---	---	---	---	---	---	---	e14	e6.1	e1.5	e0.00	e19
17	---	---	---	---	---	---	---	e18	e4.4	e0.24	e0.00	e14
18	---	---	---	---	---	---	---	e14	e2.5	e0.59	e0.00	e12
19	---	---	---	---	---	---	---	e11	e3.0	e0.67	e0.00	e11
20	---	---	---	---	---	---	---	e10	e11	e0.07	e0.00	e9.7
21	---	---	---	---	---	---	---	e9.3	e9.1	e0.00	e0.00	e10
22	---	---	---	---	---	---	---	e7.7	e6.8	e0.00	e0.00	e10
23	---	---	---	---	---	---	---	e6.6	e7.0	e0.00	e0.00	e9.4
24	---	---	---	---	---	---	---	e6.0	e21	e0.00	e0.00	e7.8
25	---	---	---	---	---	---	---	e6.2	e11	e0.00	e0.00	e6.0
26	---	---	---	---	---	---	---	e5.6	e12	e0.00	e0.00	e6.2
27	---	---	---	---	---	---	---	e5.0	e9.4	e0.00	e0.00	e8.3
28	---	---	---	---	---	---	---	e3.3	e6.6	e0.00	e0.00	e7.6
29	---	---	---	---	---	---	---	e2.2	e8.9	e0.00	e0.00	e8.1
30	---	---	---	---	---	---	---	e2.1	e44	e0.00	e0.05	e9.6
31	---	---	---	---	---	---	---	e3.9	---	e0.00	e1,340	---
MEAN	---	---	---	---	---	---	---	18.2	17.3	1.92	43.2	30.4
MAX	---	---	---	---	---	---	---	163	109	16	1,340	369
MIN	---	---	---	---	---	---	---	2.1	2.5	0.00	0.00	6.0
AC-FT	---	---	---	---	---	---	---	1,120	1,030	118	2,660	1,810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2003, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	18.2	17.3	1.92	43.2	30.4
MAX	---	---	---	---	---	---	---	18.2	17.3	1.92	43.2	30.4
(WY)	---	---	---	---	---	---	---	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	---	---	---	---	---	---	---	18.2	17.3	1.92	43.2	30.4
(WY)	---	---	---	---	---	---	---	(2003)	(2003)	(2003)	(2003)	(2003)

e Estimated

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued



06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS

LOCATION.--Lat 38°50'32", long 94°36'44", in NE ¼ SE ¼ SE ¼ sec.10, T.14 S., R.25 E., Johnson County, Hydrologic Unit 10300101, on left downstream side of bridge on Kenneth Road.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--64.17 mi^2.

PERIOD OF RECORD.--May 2003 to current year.

GAGE.--Water-stage recorder. Datum of gage is 857.36 ft above NGVD of 1988.

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

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

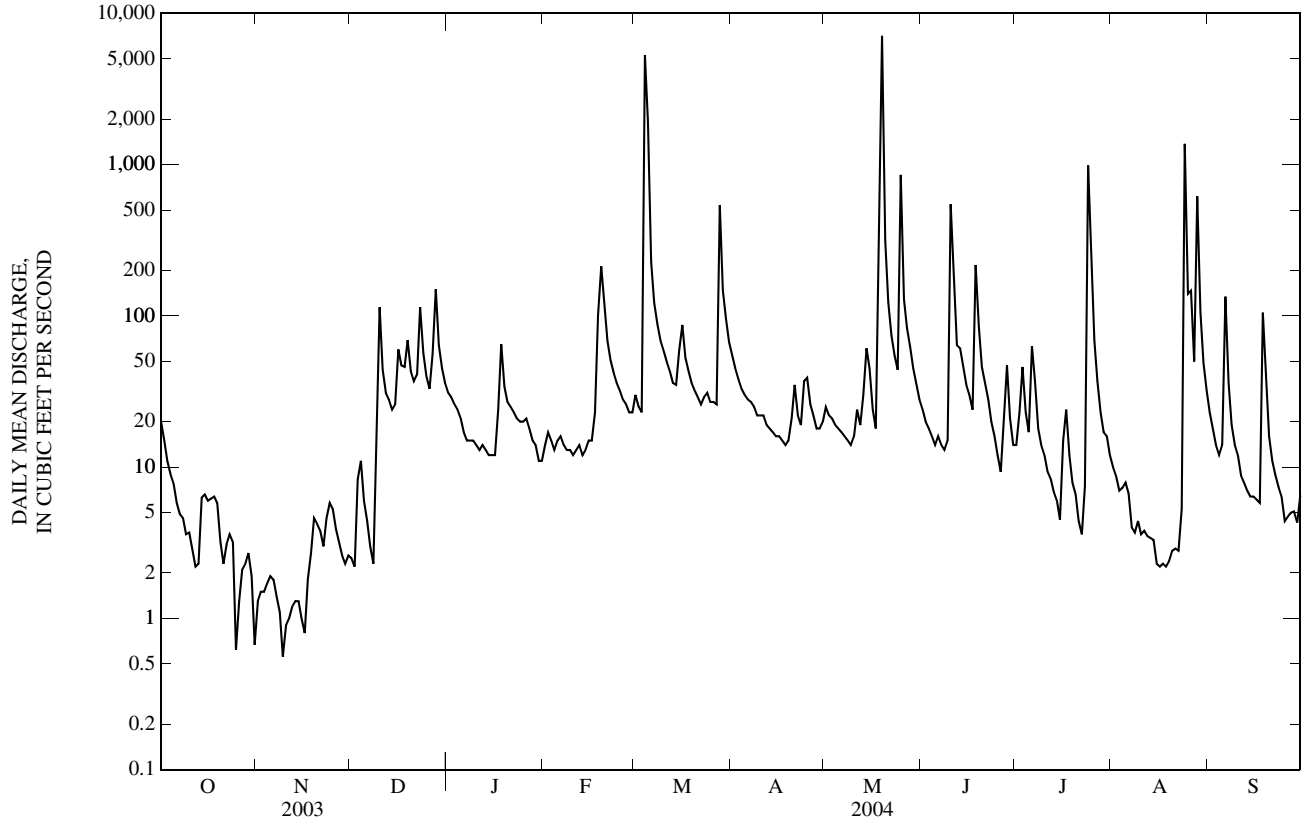
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	1.3	2.5	31	14	30	55	25	24	14	10	23
2	15	1.5	2.2	29	17	25	45	22	20	23	8.7	18
3	11	1.5	8.3	26	15	23	38	21	18	46	7.0	14
4	9.0	1.7	11	24	13	5,300	33	19	16	23	7.3	12
5	7.8	1.9	6.0	21	15	1,910	30	18	14	17	7.9	14
6	5.8	1.8	4.4	17	16	227	28	17	16	63	6.7	134
7	4.9	1.4	3.0	15	14	122	27	16	14	37	4.0	36
8	4.6	1.1	2.3	15	13	88	25	15	13	18	3.7	19
9	3.6	0.56	17	15	13	69	22	14	15	14	4.4	14
10	3.7	0.90	114	14	12	59	22	16	546	12	3.6	12
11	2.9	1.0	44	13	13	50	22	24	174	9.4	3.8	8.8
12	2.2	1.2	31	14	14	43	19	19	64	8.4	3.5	7.9
13	2.3	1.3	28	13	12	36	18	30	61	6.9	3.4	7.0
14	6.3	1.3	24	12	13	35	17	61	46	6.0	3.3	6.4
15	6.6	1.0	26	12	15	59	16	45	35	4.5	2.3	6.4
16	6.0	0.80	60	12	15	87	16	24	30	15	2.2	6.1
17	6.2	1.8	47	24	23	53	15	18	24	24	2.3	5.8
18	6.4	2.7	46	65	101	43	14	120	217	12	2.2	105
19	5.8	4.6	69	34	213	36	15	7,100	85	7.9	2.4	41
20	3.2	4.2	43	27	126	32	21	315	46	6.6	2.8	16
21	2.3	3.8	37	25	68	29	35	123	36	4.4	2.9	11
22	3.1	3.0	41	23	51	26	22	74	28	3.6	2.8	8.9
23	3.6	4.6	114	21	42	29	19	55	20	7.5	5.3	7.4
24	3.2	5.8	57	20	36	31	37	44	16	988	1,370	6.4
25	0.62	5.3	40	20	32	27	39	854	12	310	140	4.4
26	1.3	3.9	33	21	28	27	26	129	9.3	69	147	4.7
27	2.1	3.2	56	18	26	26	22	83	22	37	50	5.0
28	2.3	2.6	150	15	23	539	18	62	47	23	617	5.1
29	2.7	2.3	64	14	23	148	18	45	21	17	106	4.3
30	1.9	2.6	45	11	---	95	20	35	14	16	49	6.5
31	0.67	---	36	11	---	67	---	28	---	12	32	---
MEAN	5.07	2.36	40.7	20.4	35.0	302	25.1	306	56.8	59.8	84.3	19.0
MAX	20	5.8	150	65	213	5,300	55	7,100	546	988	1,370	134
MIN	0.62	0.56	2.2	11	12	23	14	14	9.3	3.6	2.2	4.3
AC-FT	312	140	2,500	1,250	2,020	18,590	1,500	18,790	3,380	3,680	5,180	1,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	5.07	2.36	40.7	20.4	35.0	302	25.1	162	37.0	30.9	63.8	24.7
MAX	5.07	2.36	40.7	20.4	35.0	302	25.1	306	56.8	59.8	84.3	30.4
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)
MIN	5.07	2.36	40.7	20.4	35.0	302	25.1	18.2	17.3	1.92	43.2	19.0
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2004)

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

SUMMARY STATISTICS	FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL MEAN	80.5		80.5	
HIGHEST ANNUAL MEAN			80.5	2004
LOWEST ANNUAL MEAN			80.5	2004
HIGHEST DAILY MEAN	7,100	May 19	7,100	May 19, 2004
LOWEST DAILY MEAN	0.56	Nov 9	0.00	Jul 21, 2003
ANNUAL SEVEN-DAY MINIMUM	1.0	Nov 9	0.00	Jul 21, 2003
MAXIMUM PEAK FLOW	19,200	May 19	19,200	May 19, 2004
MAXIMUM PEAK STAGE	20.48	May 19	20.48	May 19, 2004
INSTANTANEOUS LOW FLOW	0.18	Nov 9	0.00	Jul 20, 2003
ANNUAL RUNOFF (AC-FT)	58,460		58,340	
10 PERCENT EXCEEDS	70		70	
50 PERCENT EXCEEDS	17		17	
90 PERCENT EXCEEDS	2.6		2.6	



06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 2004.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February to September 2004.
pH: February to September 2004.
WATER TEMPERATURE: February to September 2004.
DISSOLVED OXYGEN: February to September 2004.
TURBIDITY (YSI 6136 sensor): February to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions, malfunction of the recording instrument or sensors, or during days of no streamflow. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs International (YSI) 6136 sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 791 microsiemens/cm, Feb. 18, 2004; minimum, 148 microsiemens/cm, May 19, 2004.
pH: Maximum, 8.5 standard units, July 12, 2004; minimum, 7.6 standard units, May 19, 2004.
WATER TEMPERATURE: Maximum, 30.0°C, July 13, 2004; minimum, 0.1°C, Feb. 18, 2004.
DISSOLVED OXYGEN: Maximum, 15.4 mg/L, Feb. 18, 2004; minimum, 4.2 mg/L, July 24, 2004.
TURBIDITY (YSI 6136 sensor): Maximum, >1,200 FNU, May 25, 2004; minimum, <2.0 FNU, Feb. 18, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 791 microsiemens/cm, Feb. 18; minimum, 148 microsiemens/cm, May 19.
pH: Maximum, 8.5 standard units, July 12; minimum, 7.6 standard units, May 19.
WATER TEMPERATURE: Maximum, 30.0°C, July 13; minimum, 0.1°C, Feb. 18.
DISSOLVED OXYGEN: Maximum, 15.4 mg/L, Feb. 18; minimum, 4.2 mg/L, July 24.
TURBIDITY: Maximum, >1,200 FNU, May 25; minimum, <2.0 FNU, Feb. 18.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	685	654	664	559	545	551	619	610	615
2	---	---	---	688	676	682	569	559	564	622	617	620
3	---	---	---	679	657	667	571	561	567	630	621	625
4	---	---	---	669	179	451	574	559	567	632	626	629
5	---	---	---	387	200	322	568	563	565	629	621	626
6	---	---	---	466	387	430	565	557	562	630	622	627
7	---	---	---	509	466	488	567	554	562	635	629	632
8	---	---	---	541	509	526	590	564	575	639	625	633
9	---	---	---	558	540	550	591	575	582	636	610	627
10	---	---	---	569	558	564	581	572	577	631	615	620
11	---	---	---	579	569	575	577	568	572	631	625	628
12	---	---	---	588	578	583	581	569	576	637	628	633
13	---	---	---	596	586	591	582	572	578	641	618	632
14	---	---	---	614	595	604	591	578	585	649	621	636
15	---	---	---	615	576	600	598	583	591	621	577	592
16	---	---	---	583	537	561	590	562	582	586	565	574
17	---	---	---	549	527	535	587	571	580	591	576	585
18	791	692	760	567	549	561	592	579	586	586	303	568
19	693	428	478	575	566	571	598	585	592	340	148	235
20	507	474	487	576	566	571	595	581	587	438	340	393
21	573	507	544	577	568	573	587	575	582	495	438	470
22	604	573	586	574	564	570	612	580	598	535	495	512
23	630	603	613	569	557	564	624	602	616	549	535	540
24	642	630	636	570	560	565	602	583	590	571	537	561
25	676	642	655	574	568	571	598	585	591	540	178	297
26	680	660	670	579	572	576	601	592	597	431	347	394
27	683	669	678	589	579	582	605	594	601	484	431	463
28	692	675	680	584	333	414	605	599	602	495	484	490
29	693	662	676	484	392	443	614	604	607	522	494	511
30	---	---	---	531	484	511	611	608	610	537	522	531
31	---	---	---	546	531	542	---	---	---	556	537	548
MONTH	791	428	622	688	179	549	624	545	583	649	148	550

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	559	554	557	517	508	512	547	536	544	524	486	510
2	564	558	561	516	459	497	550	547	549	535	511	522
3	570	564	567	520	447	499	554	549	551	554	535	549
4	572	569	570	502	446	471	557	547	553	553	549	552
5	575	570	573	525	502	517	558	555	557	556	427	545
6	581	574	576	524	450	499	561	558	560	530	380	443
7	592	581	588	508	456	487	564	555	560	411	377	388
8	596	580	590	462	451	455	560	547	554	450	411	430
9	587	565	580	484	462	475	554	546	551	476	450	463
10	580	231	403	510	484	496	564	554	559	519	476	500
11	362	296	326	535	510	520	564	557	560	548	519	538
12	436	362	401	545	535	540	570	564	567	552	548	550
13	466	435	449	550	537	545	575	569	573	563	552	556
14	486	464	476	543	525	535	578	574	576	567	563	565
15	495	480	488	532	526	529	579	574	577	570	567	569
16	522	495	510	534	451	503	582	578	580	571	568	570
17	539	522	532	556	524	547	583	576	580	574	571	572
18	538	330	447	550	545	547	583	577	580	575	349	509
19	415	331	376	560	547	554	580	570	577	507	402	415
20	451	415	431	578	560	569	577	570	572	450	418	435
21	494	451	476	582	570	576	579	572	574	469	450	460
22	506	493	501	595	576	585	587	579	583	492	469	480
23	521	505	513	583	568	575	590	471	581	512	492	502
24	533	521	527	572	---	---	475	159	240	521	511	516
25	546	533	539	---	---	---	356	267	313	529	521	526
26	550	546	548	431	---	---	404	336	362	542	528	534
27	555	510	540	463	431	450	393	323	374	556	541	550
28	557	529	542	492	463	481	399	236	292	570	552	565
29	546	540	543	511	490	500	415	323	373	582	570	578
30	540	515	526	526	510	518	453	415	439	590	582	588
31	---	---	---	536	526	531	491	452	470	---	---	---
MONTH	596	231	509	595	431	518	590	159	512	590	349	516

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, 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
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	8.3	8.1	8.1	8.2	8.1	8.1	7.9	7.8	7.8
2	---	---	---	8.2	8.1	8.1	8.2	8.1	8.1	7.9	7.8	7.8
3	---	---	---	8.2	8.1	8.1	8.2	8.1	8.1	8.0	7.8	7.9
4	---	---	---	8.1	7.7	8.0	8.3	8.1	8.2	8.0	7.9	7.9
5	---	---	---	7.8	---	---	8.3	8.1	8.2	8.1	7.8	7.9
6	---	---	---	7.8	7.7	7.8	8.3	8.1	8.2	8.1	7.9	8.0
7	---	---	---	7.9	7.8	7.8	8.3	8.1	8.2	8.2	7.9	8.0
8	---	---	---	7.9	7.9	7.9	8.3	8.1	8.1	8.3	7.9	8.0
9	---	---	---	7.9	7.9	7.9	8.3	8.0	8.1	8.4	8.0	8.1
10	---	---	---	8.0	7.9	8.0	8.2	8.0	8.1	8.2	7.9	8.0
11	---	---	---	8.0	8.0	8.0	8.3	8.0	8.1	8.2	8.0	8.0
12	---	---	---	8.0	8.0	8.0	8.3	8.1	8.2	8.0	7.8	7.9
13	---	---	---	8.0	8.0	8.0	8.3	8.1	8.2	7.9	7.8	7.8
14	---	---	---	8.0	8.0	8.0	8.3	8.1	8.2	7.9	7.8	7.8
15	---	---	---	8.1	8.0	8.0	8.3	8.1	8.2	8.0	7.9	8.0
16	---	---	---	8.1	8.0	8.1	8.4	8.1	8.2	8.0	7.9	8.0
17	---	---	---	8.1	8.0	8.0	8.4	8.1	8.2	8.1	7.9	8.0
18	8.3	8.1	8.2	8.1	8.0	8.1	8.3	8.1	8.2	8.0	7.7	7.9
19	8.1	7.9	8.0	8.1	8.0	8.1	8.4	8.1	8.2	7.9	7.6	7.6
20	8.0	7.9	8.0	8.2	8.0	8.1	8.2	8.0	8.1	7.7	7.7	7.7
21	8.0	7.9	8.0	8.2	8.1	8.1	8.0	7.9	7.9	7.8	7.7	7.7
22	8.1	8.0	8.0	8.3	8.1	8.2	8.0	7.9	7.9	7.7	7.7	7.7
23	8.2	8.0	8.0	8.3	8.1	8.2	8.0	8.0	8.0	7.8	7.7	7.8
24	8.2	8.0	8.1	8.3	8.1	8.2	8.0	7.9	8.0	7.8	7.7	7.8
25	8.2	8.0	8.1	8.2	8.1	8.1	8.1	8.0	8.0	7.8	7.6	7.6
26	8.2	8.1	8.1	8.3	8.0	8.1	8.2	8.0	8.1	7.8	7.7	7.7
27	8.2	8.1	8.1	8.2	8.0	8.1	8.2	8.0	8.1	7.8	7.8	7.8
28	8.3	8.1	8.2	8.0	7.9	8.0	8.2	8.0	8.1	7.9	7.8	7.8
29	8.2	8.1	8.1	8.0	8.0	8.0	8.1	8.0	8.0	7.9	7.8	7.8
30	---	---	---	8.1	8.0	8.1	8.0	7.8	7.9	7.9	7.9	7.9
31	---	---	---	8.1	8.1	8.1	---	---	---	8.0	7.9	7.9
MAX	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.1	8.2	8.4	8.0	8.1
MIN	8.0	7.9	8.0	7.8	7.7	7.8	8.0	7.8	7.9	7.7	7.6	7.6

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

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

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

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, 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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	7.8	6.7	7.2	12.3	9.5	10.6	17.6	15.2	16.1
2	---	---	---	8.4	6.8	7.5	13.6	10.1	11.6	16.1	14.2	15.1
3	---	---	---	7.6	7.0	7.3	14.0	10.6	12.1	16.4	13.0	14.8
4	---	---	---	7.7	6.7	7.2	14.2	11.0	12.5	16.7	14.5	15.5
5	---	---	---	8.0	---	---	13.8	11.4	12.7	18.5	14.1	16.3
6	---	---	---	8.8	7.0	7.7	15.3	12.1	13.6	21.7	17.6	19.5
7	---	---	---	9.3	8.6	8.9	15.9	13.4	14.5	23.3	19.6	21.5
8	---	---	---	9.1	8.0	8.5	16.8	13.7	15.1	24.1	21.2	22.8
9	---	---	---	10.0	8.4	9.1	15.1	13.8	14.5	23.8	22.1	23.0
10	---	---	---	10.1	8.5	9.0	14.1	12.5	13.3	22.9	21.1	22.1
11	---	---	---	10.4	8.3	9.0	13.9	11.0	12.4	23.5	21.1	22.2
12	---	---	---	10.0	7.6	8.6	13.1	10.9	12.0	22.7	21.5	21.9
13	---	---	---	8.2	7.4	7.8	13.7	10.0	11.8	21.7	18.8	20.3
14	---	---	---	9.3	7.2	8.2	14.7	10.6	12.7	18.8	16.6	17.7
15	---	---	---	8.4	7.5	8.1	15.3	12.3	13.7	18.2	15.2	16.7
16	---	---	---	7.5	6.4	7.0	18.7	13.9	16.1	18.7	15.6	17.2
17	1.5	---	---	8.2	6.2	7.1	20.9	17.0	18.8	20.6	17.9	19.1
18	0.9	0.1	0.4	10.3	7.0	8.6	19.6	18.4	19.0	20.3	18.5	19.3
19	3.0	0.1	0.8	11.8	8.4	10.1	21.1	17.5	19.0	20.7	18.7	19.6
20	5.2	3.0	4.6	13.1	11.3	12.0	20.7	18.8	19.7	21.3	19.8	20.5
21	5.6	4.5	4.9	13.1	10.8	11.8	20.1	17.6	18.8	22.5	21.3	21.8
22	6.5	4.6	5.5	12.5	10.4	11.2	18.6	16.4	17.4	22.8	21.8	22.2
23	7.6	5.6	6.5	12.0	9.5	10.7	16.4	15.5	15.9	23.4	21.4	22.2
24	6.5	5.7	6.1	12.2	10.5	11.4	15.9	14.6	15.5	23.7	21.2	22.4
25	6.1	4.8	5.4	13.5	12.2	12.9	16.1	13.9	14.9	22.4	19.6	20.1
26	6.4	4.0	5.1	16.3	13.4	14.8	16.7	13.8	15.1	19.7	18.0	18.8
27	6.6	4.4	5.5	16.3	15.3	15.8	17.5	13.6	15.6	19.8	17.8	18.7
28	7.0	4.7	5.9	15.8	13.3	14.2	18.7	15.7	17.2	21.7	19.0	20.2
29	7.6	5.9	6.8	14.1	12.2	12.8	17.6	16.4	16.8	22.7	19.9	21.2
30	---	---	---	12.2	10.2	11.4	17.1	16.1	16.7	23.1	21.2	22.1
31	---	---	---	10.9	9.4	10.0	---	---	---	23.1	20.6	21.8
MONTH	7.6	0.1	4.8	16.3	6.2	9.9	21.1	9.5	15.0	24.1	13.0	19.8

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.0	20.3	21.6	22.4	21.5	22.0	25.4	22.5	23.9	23.4	21.5	22.5
2	22.4	20.0	21.2	22.9	21.6	22.2	26.7	24.2	25.4	23.9	21.8	22.8
3	22.3	19.6	21.0	23.6	21.4	22.5	28.5	25.8	27.1	23.9	21.9	22.9
4	23.2	19.8	21.5	25.6	22.5	23.9	28.0	26.1	27.1	24.4	22.3	23.3
5	22.3	20.9	21.5	26.2	23.7	25.0	26.1	24.5	25.4	24.6	22.9	23.7
6	22.9	20.7	21.7	25.8	23.4	24.5	25.1	23.1	24.3	23.6	21.8	22.7
7	24.6	22.0	23.2	25.5	23.3	24.3	25.0	22.1	23.7	22.7	21.0	21.7
8	25.3	23.1	24.2	24.5	23.3	23.8	24.2	22.9	23.5	21.7	19.8	20.7
9	24.8	22.7	23.6	24.7	22.8	23.6	25.9	23.0	24.3	21.6	19.4	20.4
10	22.7	21.0	21.8	26.5	23.2	24.8	25.4	23.7	24.5	21.5	19.4	20.5
11	23.0	21.9	22.4	27.7	25.0	26.4	24.2	22.1	22.8	21.2	19.6	20.5
12	24.7	22.6	23.4	28.6	26.0	27.2	22.3	20.4	21.5	22.0	19.7	20.8
13	24.8	22.3	23.4	30.0	27.1	28.5	21.6	20.4	20.9	22.6	20.6	21.6
14	26.0	22.4	24.1	29.4	27.8	28.7	21.8	20.1	20.9	23.3	21.3	22.3
15	25.1	23.6	24.4	28.6	26.0	27.5	22.3	19.8	21.1	23.1	22.3	22.7
16	25.9	24.4	25.0	27.9	25.5	26.8	22.3	20.2	21.2	22.5	20.7	21.7
17	25.3	23.2	24.3	26.5	25.2	25.8	23.9	21.4	22.5	21.4	19.1	20.3
18	24.4	20.4	22.5	26.7	24.1	25.4	26.0	23.0	24.3	20.8	19.3	20.2
19	21.6	20.6	21.3	27.7	24.5	26.0	24.9	22.2	23.5	22.0	20.3	21.0
20	21.1	19.9	20.4	29.0	26.2	27.5	22.2	20.7	21.2	22.0	20.3	21.1
21	22.3	19.8	20.9	28.8	27.3	28.1	20.9	20.0	20.4	22.2	20.3	21.3
22	22.8	20.5	21.6	29.1	27.1	28.0	22.8	19.8	21.1	21.9	20.1	21.2
23	24.3	21.0	22.6	28.2	25.9	26.8	22.7	21.7	22.5	21.2	20.1	20.7
24	24.9	22.0	23.4	---	---	---	21.7	19.9	20.5	20.8	18.8	19.9
25	23.2	20.5	21.9	---	---	---	22.6	21.4	22.1	20.8	18.8	19.9
26	23.3	20.3	21.8	21.8	---	---	24.2	22.5	23.5	20.5	18.4	19.6
27	22.6	20.9	21.5	22.8	20.1	21.3	26.1	24.1	25.0	19.8	17.9	19.0
28	21.4	19.6	20.5	22.3	20.4	21.4	25.1	23.0	23.4	19.6	18.0	18.7
29	22.4	19.5	20.9	22.1	21.2	21.7	23.2	21.6	22.5	18.5	16.1	17.5
30	22.7	20.6	21.6	22.6	21.1	21.7	22.8	21.3	21.9	18.5	16.4	17.5
31	---	---	---	24.6	21.1	22.7	23.4	21.2	22.2	---	---	---
MONTH	26.0	19.5	22.3	30.0	20.1	24.9	28.5	19.8	23.0	24.6	16.1	21.0

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, 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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	13.5	11.1	12.0	11.3	10.4	10.9	9.2	7.0	7.8
2	---	---	---	14.1	10.9	12.1	11.5	10.0	10.8	9.2	6.9	7.9
3	---	---	---	12.7	11.2	11.9	12.2	9.9	10.8	10.4	7.5	8.7
4	---	---	---	11.7	10.2	11.1	13.0	9.8	11.1	10.4	7.5	8.7
5	---	---	---	---	---	---	13.3	9.9	11.3	11.2	7.6	9.1
6	---	---	---	11.2	10.7	11.0	13.8	10.0	11.5	10.9	7.3	8.9
7	---	---	---	10.8	10.5	10.6	13.6	9.8	11.1	11.0	6.8	8.5
8	---	---	---	10.8	10.6	10.7	13.1	9.3	10.8	12.1	6.4	8.7
9	---	---	---	10.8	10.4	10.6	12.8	8.9	10.4	13.6	6.7	9.6
10	---	---	---	10.6	10.5	10.5	11.7	8.7	10.1	10.0	6.7	8.0
11	---	---	---	10.7	10.4	10.6	13.1	9.4	11.0	10.3	6.2	8.1
12	---	---	---	10.9	10.5	10.7	13.8	9.8	11.6	7.8	5.5	6.6
13	---	---	---	11.1	10.6	10.9	14.2	10.2	12.0	6.6	5.7	6.1
14	---	---	---	11.4	10.6	11.0	14.4	10.3	12.1	7.6	5.8	6.8
15	---	---	---	11.0	10.6	10.8	13.8	9.9	11.6	8.7	7.6	8.1
16	---	---	---	11.4	11.0	11.2	14.5	9.5	11.6	9.0	7.6	8.2
17	---	---	---	11.6	11.2	11.4	14.1	8.7	11.0	9.1	7.0	7.9
18	15.4	13.6	14.5	11.7	10.7	11.3	11.2	8.0	9.5	7.8	6.5	7.1
19	13.6	12.1	13.0	11.6	10.2	10.9	14.0	7.8	10.4	8.0	7.0	7.4
20	12.1	11.4	11.6	11.6	10.0	10.5	10.4	7.8	9.1	7.8	7.4	7.7
21	12.2	11.7	11.9	11.8	9.8	10.5	9.5	7.3	8.1	7.4	7.2	7.3
22	12.8	11.6	12.1	12.6	9.9	11.1	8.4	6.8	7.6	7.2	6.9	7.1
23	13.2	11.2	12.1	13.2	10.7	11.7	9.1	7.6	8.3	7.3	6.9	7.0
24	12.9	11.2	11.9	12.1	10.1	11.0	8.6	7.9	8.3	7.4	6.8	7.0
25	14.4	11.5	12.6	11.0	9.6	10.2	10.4	8.4	9.3	7.8	6.8	7.5
26	15.2	12.1	13.3	11.9	9.1	10.1	10.6	8.8	9.5	7.9	7.6	7.7
27	15.3	12.3	13.5	10.7	8.6	9.4	11.1	8.6	9.6	7.8	7.6	7.7
28	15.2	12.2	13.4	9.4	8.5	9.0	11.0	7.9	9.3	7.6	7.2	7.4
29	14.5	11.7	12.7	9.8	9.1	9.5	8.8	7.6	8.2	7.5	6.9	7.2
30	---	---	---	10.3	9.6	9.9	8.1	7.2	7.6	7.5	6.8	7.1
31	---	---	---	11.1	10.2	10.7	---	---	---	7.7	6.7	7.1
MONTH	15.4	11.2	12.7	14.1	8.5	10.8	14.5	6.8	10.2	13.6	5.5	7.7

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	6.6	7.2	9.9	8.2	9.1	9.7	6.7	8.1	7.8	7.0	7.3
2	9.2	6.7	7.8	9.2	7.8	8.1	9.6	6.7	8.1	7.7	6.8	7.1
3	10.1	7.0	8.3	8.6	7.1	7.8	9.5	6.6	7.9	7.9	6.7	7.2
4	11.5	7.1	9.1	8.3	7.3	7.7	7.5	5.9	6.6	8.5	6.4	7.3
5	11.6	7.8	9.7	9.2	7.1	8.0	8.9	5.8	7.2	8.3	6.4	7.3
6	11.8	7.8	9.7	---	---	---	9.6	6.4	7.9	7.3	6.4	6.9
7	12.2	7.9	10.0	---	---	---	12.6	6.9	9.3	7.1	6.6	6.8
8	12.4	7.5	9.7	---	---	---	9.9	6.5	8.2	7.6	6.7	7.1
9	9.3	7.1	7.7	---	---	---	10.9	6.3	8.6	7.9	7.0	7.3
10	7.5	---	---	---	---	---	8.6	5.5	7.2	7.9	6.8	7.3
11	7.5	6.9	7.2	---	---	---	8.7	5.4	7.1	8.0	6.7	7.3
12	6.9	6.6	6.8	---	---	---	9.9	5.6	7.5	8.3	6.8	7.5
13	7.0	6.6	6.7	---	---	---	8.1	5.5	6.8	9.0	6.9	7.7
14	7.3	6.5	6.8	---	---	---	8.3	5.1	6.6	9.3	7.0	7.9
15	7.0	6.1	6.5	---	---	---	9.4	5.8	7.2	8.2	6.8	7.4
16	7.0	6.0	6.4	8.5	---	---	9.0	6.0	7.4	8.9	6.9	7.7
17	7.5	6.0	6.6	8.6	5.9	7.0	10.3	6.7	8.1	8.8	6.8	7.6
18	7.7	6.0	6.9	9.9	5.1	7.1	9.3	6.6	7.9	9.0	7.2	8.0
19	7.4	7.3	7.3	10.5	6.1	8.0	8.4	5.9	6.9	8.4	7.3	7.7
20	7.6	7.3	7.4	10.8	5.6	8.0	6.3	4.8	5.5	7.8	7.2	7.4
21	7.7	7.3	7.4	10.3	5.5	7.8	6.0	4.6	5.2	8.1	7.1	7.4
22	---	7.1	---	9.5	5.0	7.0	7.4	4.9	5.9	7.8	6.6	7.2
23	8.0	6.9	7.3	6.4	4.3	5.3	7.1	5.1	5.9	---	---	---
24	8.6	6.6	7.5	---	4.2	---	7.9	6.6	7.5	---	---	---
25	9.4	7.0	8.0	---	---	---	7.7	6.9	7.3	---	---	---
26	11.2	7.5	9.1	---	---	---	7.2	6.7	7.0	---	---	---
27	9.7	7.6	8.4	8.3	7.7	7.9	6.7	6.2	6.5	---	---	---
28	9.6	7.5	8.6	8.2	7.3	7.8	7.4	6.5	7.0	---	---	---
29	11.3	8.7	9.8	8.1	7.1	7.6	7.4	7.1	7.3	---	---	---
30	11.3	8.3	9.7	8.0	6.9	7.4	7.6	7.3	7.4	---	---	---
31	---	---	---	8.9	6.8	7.7	7.8	7.2	7.4	---	---	---
MONTH	12.4	6.0	8.0	10.8	4.2	7.6	12.6	4.6	7.2	9.3	6.4	7.4

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	9.3	7.4	8.1	12	9.5	10	16	8.7	9.6
2	---	---	---	10	8.3	9.0	12	9.1	10	10	7.8	8.9
3	---	---	---	17	7.7	10	17	10	11	11	7.6	8.6
4	---	---	---	>1,100	9.0	>520	18	9.0	11	11	7.6	9.1
5	---	---	---	690	130	260	11	8.2	9.4	11	7.3	8.1
6	---	---	---	130	67	91	9.8	8.0	8.9	11	6.8	8.0
7	---	---	---	68	46	57	9.2	6.8	7.7	10	5.9	7.7
8	---	---	---	46	33	39	11	6.9	8.0	10	5.8	7.8
9	---	---	---	34	26	30	9.6	6.3	7.3	17	6.8	9.5
10	---	---	---	27	21	24	11	7.8	9.1	20	8.6	13
11	---	---	---	22	18	20	11	7.0	8.8	27	10	18
12	---	---	---	19	17	18	7.9	5.2	6.3	30	14	22
13	---	---	---	17	13	15	10	5.0	7.0	45	16	25
14	---	---	---	16	10	12	---	---	---	---	14	---
15	---	---	---	34	10	16	9.7	6.3	7.4	---	---	---
16	---	---	---	33	19	25	10	5.9	7.2	---	---	---
17	19	---	---	40	20	31	14	6.8	9.4	---	---	---
18	54	2.0	13	20	15	17	12	7.3	8.8	>1,200	27	---
19	97	39	66	16	14	15	9.8	5.1	6.9	>1,200	130	490
20	52	28	41	15	12	13	22	5.0	11	130	46	78
21	30	15	20	13	11	12	17	10	12	46	26	34
22	15	11	13	13	8.8	11	15	11	13	26	20	22
23	12	8.6	9.9	12	6.0	7.8	15	10	12	20	16	18
24	10	7.8	9.1	8.6	5.9	6.9	21	12	16	41	14	17
25	11	5.8	7.7	10	8.2	9.3	16	12	13	>1,200	41	390
26	7.4	5.1	5.9	10	7.7	8.8	14	9.1	11	120	38	64
27	7.5	6.0	6.5	22	7.7	9.0	12	8.3	9.5	38	27	31
28	8.0	5.6	6.6	450	16	170	12	7.9	9.7	44	26	32
29	24	5.7	8.6	77	31	49	19	9.1	11	39	20	28
30	---	---	---	31	19	24	19	8.8	11	23	15	20
31	---	---	---	20	12	16	---	---	---	17	13	16
MONTH	97	2.0	17	1,100	5.9	50	22	5.0	9.8	1,200	5.8	54

06893100 BLUE RIVER AT KENNETH ROAD, OVERLAND PARK, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18	11	13	18	13	15	17	10	13	28	18	23
2	14	8.7	11	93	15	36	15	9.5	12	23	15	19
3	11	7.8	8.9	54	28	36	23	8.1	13	19	10	15
4	11	6.7	7.9	54	25	41	17	7.7	12	15	7.8	12
5	9.8	6.6	7.9	25	17	22	15	9.9	12	250	8.3	22
6	8.5	6.7	7.4	170	15	45	14	9.0	11	110	44	72
7	8.4	6.7	7.5	53	33	44	14	8.7	11	73	30	47
8	10	7.0	8.0	47	28	35	10	6.8	8.5	32	21	25
9	27	8.1	12	29	21	25	12	7.2	9.1	24	18	20
10	1,100	12	330	22	16	20	14	6.5	9.0	22	14	18
11	290	81	140	16	12	15	13	7.3	10	16	10	14
12	82	41	55	16	11	13	14	7.8	11	12	7.3	11
13	50	34	39	14	9.3	12	12	6.0	8.9	11	6.2	8.7
14	36	24	30	14	9.3	11	8.0	5.0	6.4	9.5	5.5	7.5
15	29	20	24	14	8.9	11	7.0	4.3	5.7	9.5	5.3	7.0
16	21	18	19	170	8.1	39	6.7	4.2	5.5	9.2	5.3	7.3
17	21	16	19	23	13	17	7.2	4.3	5.2	10	5.7	7.5
18	430	17	150	16	11	13	6.6	3.8	4.9	430	5.8	83
19	270	66	130	14	9.8	11	7.5	4.7	6.0	110	49	82
20	68	44	53	13	9.0	11	6.4	4.1	5.0	49	23	33
21	46	31	40	10	7.0	9.0	7.1	3.7	5.1	26	17	21
22	33	28	30	11	7.3	8.9	5.8	3.3	4.5	24	16	20
23	29	20	25	13	8.2	9.8	87	3.9	8.0	20	15	17
24	21	16	19	---	9.0	---	>1,200	87	460	20	14	17
25	20	14	17	---	---	---	140	44	84	17	12	14
26	17	12	14	---	25	---	75	40	56	15	9.5	13
27	41	12	23	29	21	25	260	31	48	14	9.8	12
28	43	23	32	27	18	22	790	92	280	11	8.5	10
29	28	20	24	23	18	20	98	37	60	11	7.3	9.5
30	24	13	17	22	16	19	39	27	34	11	7.0	9.0
31	---	---	---	20	14	17	35	21	27	---	---	---
MONTH	1,100	6.6	44	170	7.0	22	1,200	3.3	40	430	5.3	23

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

06893300 INDIAN CREEK AT OVERLAND PARK, KS

LOCATION.--Lat 38°56'26", long 94°40'16", in NW ¼ NE ¼ NE ¼ sec.7, T.13 S., R.25 E., Johnson County, Hydrologic Unit 10300001, on right bank at downstream side of Marty Street bridge in Overland Park and at mile 10.1.

DRAINAGE AREA.--26.6 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 856.88 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to May 17, 1977, water-stage recorder at site 700 ft downstream at same 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 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 4	1645	4,210	12.69
May 19	0345	2,250	10.76
Jun 10	1415	1,050	9.11
Jul 6	0700	1,530	9.85
Jul 24	1515	3,460	12.02
Aug 24	0400	1,190	9.34
Aug 28	0100	*4,900	*13.24

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	28	18	13	16	25	28	25	26	15	15	14	20
2	16	17	13	17	e20	18	20	17	14	121	10	19
3	14	19	113	15	18	34	18	16	13	33	13	18
4	13	43	23	38	17	1,610	15	15	13	19	44	17
5	13	17	16	17	15	201	13	15	13	44	15	49
6	13	15	15	14	15	80	14	16	14	340	15	79
7	13	14	14	14	14	55	13	16	13	37	13	20
8	14	13	14	14	14	43	15	17	12	23	15	17
9	18	13	168	14	15	32	15	16	64	17	16	17
10	15	14	76	13	20	26	15	99	345	15	14	15
11	23	15	38	13	22	24	15	23	55	14	23	15
12	22	11	28	14	21	21	13	17	46	13	15	13
13	37	12	23	14	25	20	14	111	111	12	14	14
14	40	15	24	14	18	24	14	66	29	10	13	13
15	17	15	68	14	20	84	13	30	35	9.8	13	42
16	18	15	60	23	17	31	13	20	35	134	13	21
17	29	41	38	81	46	22	13	15	24	14	13	14
18	16	25	41	37	54	19	13	140	196	12	13	183
19	15	28	33	23	76	17	14	461	39	11	21	27
20	15	13	22	19	61	16	141	45	23	11	25	17
21	14	14	21	19	38	15	36	23	26	9.9	15	15
22	14	13	50	18	29	15	18	16	20	10	14	14
23	15	76	54	17	23	48	19	14	16	34	67	14
24	15	17	29	17	19	20	48	60	15	998	388	14
25	15	14	21	34	18	17	20	177	14	85	40	15
26	15	14	19	24	17	17	16	23	14	43	26	15
27	15	13	46	17	16	29	13	67	108	31	297	15
28	16	13	40	16	16	198	14	20	27	25	988	14
29	17	13	21	14	48	51	31	19	17	18	62	14
30	19	13	19	14	---	38	39	21	15	15	37	13
31	20	---	17	14	---	32	---	17	---	14	28	---
MEAN	18.2	19.1	38.0	20.3	26.1	93.1	22.7	52.8	46.0	70.6	74.0	25.8
MAX	40	76	168	81	76	1,610	141	461	345	998	988	183
MIN	13	11	13	13	14	15	13	14	12	9.8	10	13
AC-FT	1,120	1,140	2,330	1,250	1,500	5,720	1,350	3,250	2,740	4,340	4,550	1,530

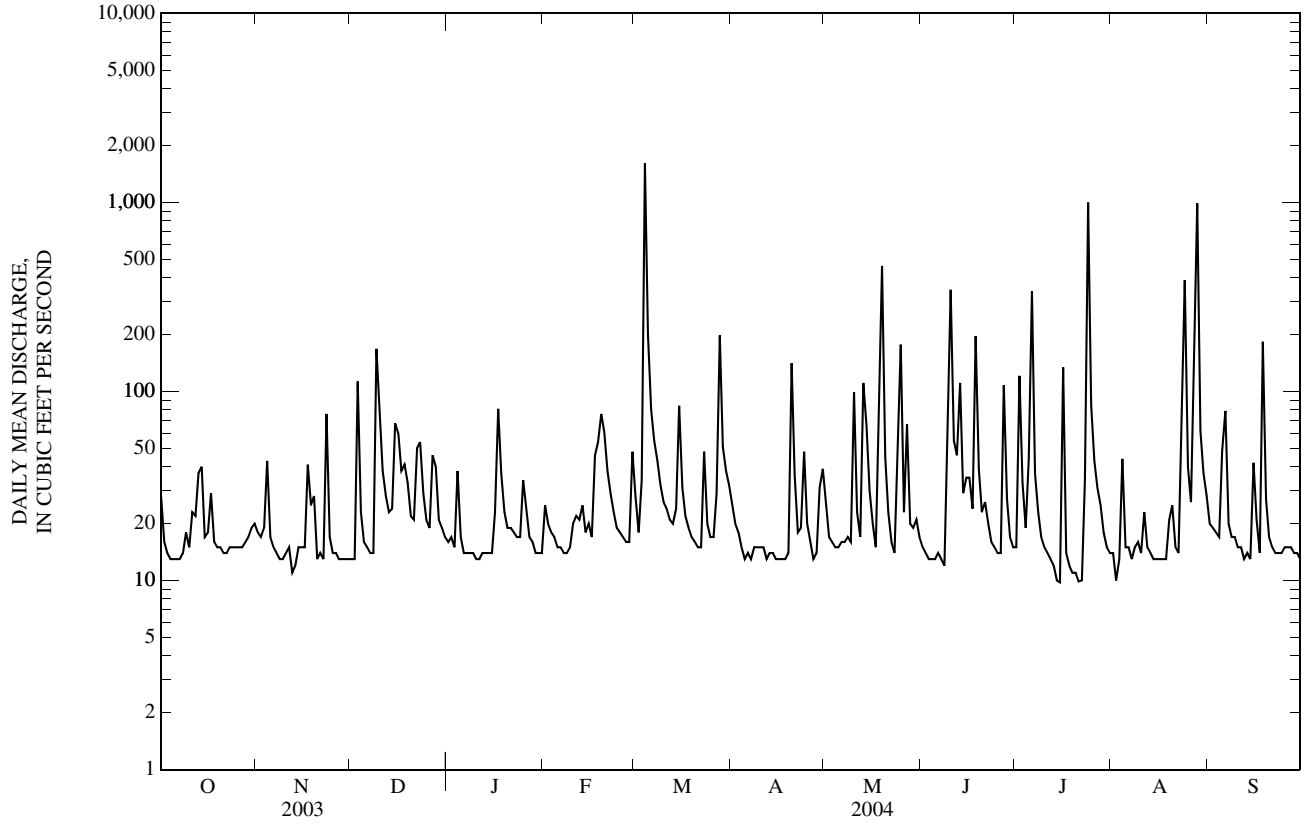
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	33.0	25.6	21.4	18.5	24.9	34.9	43.6	55.5	66.7	33.4	24.8	42.7
MAX	146	114	107	99.1	118	208	158	243	263	248	96.3	217
(WY)	(1986)	(1999)	(1993)	(1982)	(1985)	(1973)	(1994)	(1990)	(1984)	(1993)	(2003)	(1986)
MIN	0.00	0.47	0.00	0.26	0.63	1.19	2.86	3.26	4.86	0.91	0.56	0.66
(WY)	(1964)	(1967)	(1964)	(1964)	(1964)	(1964)	(1977)	(1965)	(1968)	(1975)	(1967)	(1976)

06893300 INDIAN CREEK AT OVERLAND PARK, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL MEAN	35.0		42.5		35.4	
HIGHEST ANNUAL MEAN					89.5	1993
LOWEST ANNUAL MEAN					8.32	1976
HIGHEST DAILY MEAN	1,940	Aug 31	1,610	Mar 4	4,340	Jun 9, 1984
LOWEST DAILY MEAN	7.9	Apr 15	9.8	Jul 15	0.00	Oct 1, 1963
ANNUAL SEVEN-DAY MINIMUM	9.0	Aug 20	13	Jul 9	0.00	Oct 1, 1963
MAXIMUM PEAK FLOW			4,900	Aug 28	12,800	Jun 9, 1984
MAXIMUM PEAK STAGE			13.24	Aug 28	17.78	Jun 9, 1984
INSTANTANEOUS LOW FLOW			2.6	Nov 12	0.00	many years
ANNUAL RUNOFF (AC-FT)	25,330		30,820		25,650	
10 PERCENT EXCEEDS	50		63		57	
50 PERCENT EXCEEDS	15		17		13	
90 PERCENT EXCEEDS	11		13		1.5	

e Estimated



06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS

LOCATION.--Lat 38°56'18", long 94°36'28", in SE ¼ NE ¼ NE ¼ sec.10, T.13 S., R.25 E., Johnson County, Hydrologic Unit 10300101, on right downstream side of bridge on State Line Road in Leawood and at mile 3.4.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--64.17 mi^2.

PERIOD OF RECORD.--May to September 2003.

GAGE.--Water-stage recorder. Datum of gage is 803.43 ft above NGVD of 1988.

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

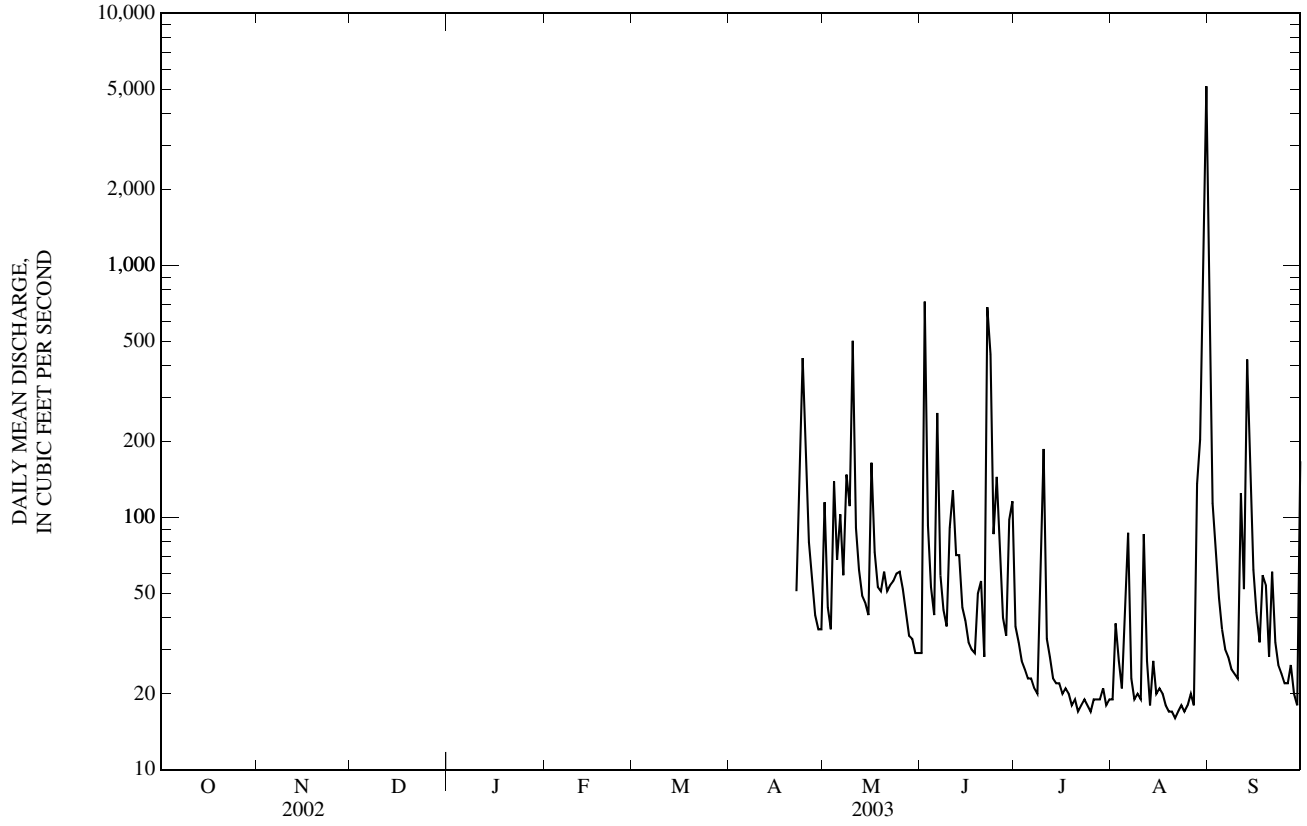
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	115	29	37	19	320
2	---	---	---	---	---	---	---	44	718	32	38	114
3	---	---	---	---	---	---	---	36	93	27	27	72
4	---	---	---	---	---	---	---	139	53	25	21	48
5	---	---	---	---	---	---	---	68	41	23	39	36
6	---	---	---	---	---	---	---	103	260	23	87	30
7	---	---	---	---	---	---	---	59	59	21	23	28
8	---	---	---	---	---	---	---	148	43	20	19	25
9	---	---	---	---	---	---	---	111	37	76	20	24
10	---	---	---	---	---	---	---	502	91	187	19	23
11	---	---	---	---	---	---	---	91	128	33	86	125
12	---	---	---	---	---	---	---	62	71	28	27	52
13	---	---	---	---	---	---	---	49	71	23	18	423
14	---	---	---	---	---	---	---	46	44	22	27	161
15	---	---	---	---	---	---	---	41	39	22	20	62
16	---	---	---	---	---	---	---	165	32	20	21	42
17	---	---	---	---	---	---	---	73	30	21	20	32
18	---	---	---	---	---	---	---	53	29	20	18	59
19	---	---	---	---	---	---	---	51	50	18	17	54
20	---	---	---	---	---	---	---	61	56	19	17	28
21	---	---	---	---	---	---	---	51	28	17	16	61
22	---	---	---	---	---	---	---	54	683	18	17	32
23	---	---	---	---	---	---	---	56	444	19	18	26
24	---	---	---	---	---	---	---	60	86	18	17	24
25	---	---	---	---	---	---	---	61	145	17	18	22
26	---	---	---	---	---	---	---	52	71	19	20	22
27	---	---	---	---	---	---	---	42	40	19	18	26
28	---	---	---	---	---	---	---	34	34	19	136	20
29	---	---	---	---	---	---	---	33	98	21	204	18
30	---	---	---	---	---	---	---	29	116	18	1,560	167
31	---	---	---	---	---	---	---	29	---	19	5,140	---
MEAN	---	---	---	---	---	---	---	81.2	124	29.1	250	72.5
MAX	---	---	---	---	---	---	---	502	718	187	5,140	423
MIN	---	---	---	---	---	---	---	29	28	17	16	18
AC-FT	---	---	---	---	---	---	---	4,990	7,380	1,790	15,370	4,320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2003, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	81.2	124	29.1	250	72.5
MAX	---	---	---	---	---	---	---	81.2	124	29.1	250	72.5
(WY)	---	---	---	---	---	---	---	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	---	---	---	---	---	---	---	81.2	124	29.1	250	72.5
(WY)	---	---	---	---	---	---	---	(2003)	(2003)	(2003)	(2003)	(2003)

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued



06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS

LOCATION.--Lat 38°56'18", long 94°36'28", in SE ¼ NE ¼ NE ¼ sec.10, T.13 S., R.25 E., Johnson County, Hydrologic Unit 10300101, on right downstream side of bridge on State Line Road in Leawood and at mile 3.4.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--64.17 mi^2.

PERIOD OF RECORD.--May 2003 to current year.

GAGE.--Water-stage recorder. Datum of gage is 803.43 ft above NGVD of 1988.

REMARKS.--Records good. 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	69	21	21	39	64	70	52	64	31	29	28	47
2	33	22	21	38	76	38	42	44	30	245	24	40
3	28	23	267	36	43	67	38	41	29	73	24	38
4	26	73	55	74	39	4,250	34	40	27	40	128	35
5	23	30	38	39	35	548	30	41	27	94	33	135
6	23	24	31	30	35	185	31	50	29	818	30	206
7	22	22	29	28	33	108	29	59	27	83	27	50
8	23	21	28	28	31	81	30	67	24	52	28	39
9	39	20	481	28	33	65	31	67	126	38	32	37
10	27	22	209	27	43	52	31	237	865	32	27	35
11	39	25	86	26	49	45	32	65	135	29	42	29
12	45	24	64	27	43	42	27	39	105	27	29	27
13	72	18	53	26	45	38	26	299	346	26	26	26
14	95	22	53	25	42	45	25	159	74	e22	25	25
15	33	22	158	27	46	190	26	67	e97	19	24	75
16	33	22	139	46	41	73	26	45	e77	e227	23	47
17	54	105	81	172	102	46	27	34	57	51	24	29
18	23	60	97	88	145	39	29	422	467	29	23	518
19	20	40	82	49	196	35	30	1,170	86	25	43	66
20	23	23	58	40	137	33	356	113	54	22	61	41
21	25	22	55	39	82	29	105	68	56	19	28	34
22	23	21	134	37	65	28	47	48	41	23	27	30
23	23	162	133	35	56	100	42	42	34	72	179	28
24	22	35	68	34	45	42	123	117	29	2,330	1,060	28
25	22	28	52	68	41	33	52	444	26	205	99	28
26	23	25	46	54	37	33	36	59	24	88	60	29
27	24	24	151	37	35	84	31	174	223	65	381	28
28	24	22	118	33	35	e635	31	55	63	52	2,180	25
29	23	22	60	31	95	e120	58	42	37	42	118	23
30	23	22	49	30	---	e75	87	47	30	33	77	24
31	23	---	43	30	---	64	---	40	---	31	60	---
MEAN	32.4	34.1	95.5	42.6	61.0	235	52.1	137	109	159	160	60.7
MAX	95	162	481	172	196	4,250	356	1,170	865	2,330	2,180	518
MIN	20	18	21	25	31	28	25	34	24	19	23	23
AC-FT	1,990	2,030	5,870	2,620	3,510	14,470	3,100	8,450	6,500	9,800	9,860	3,610

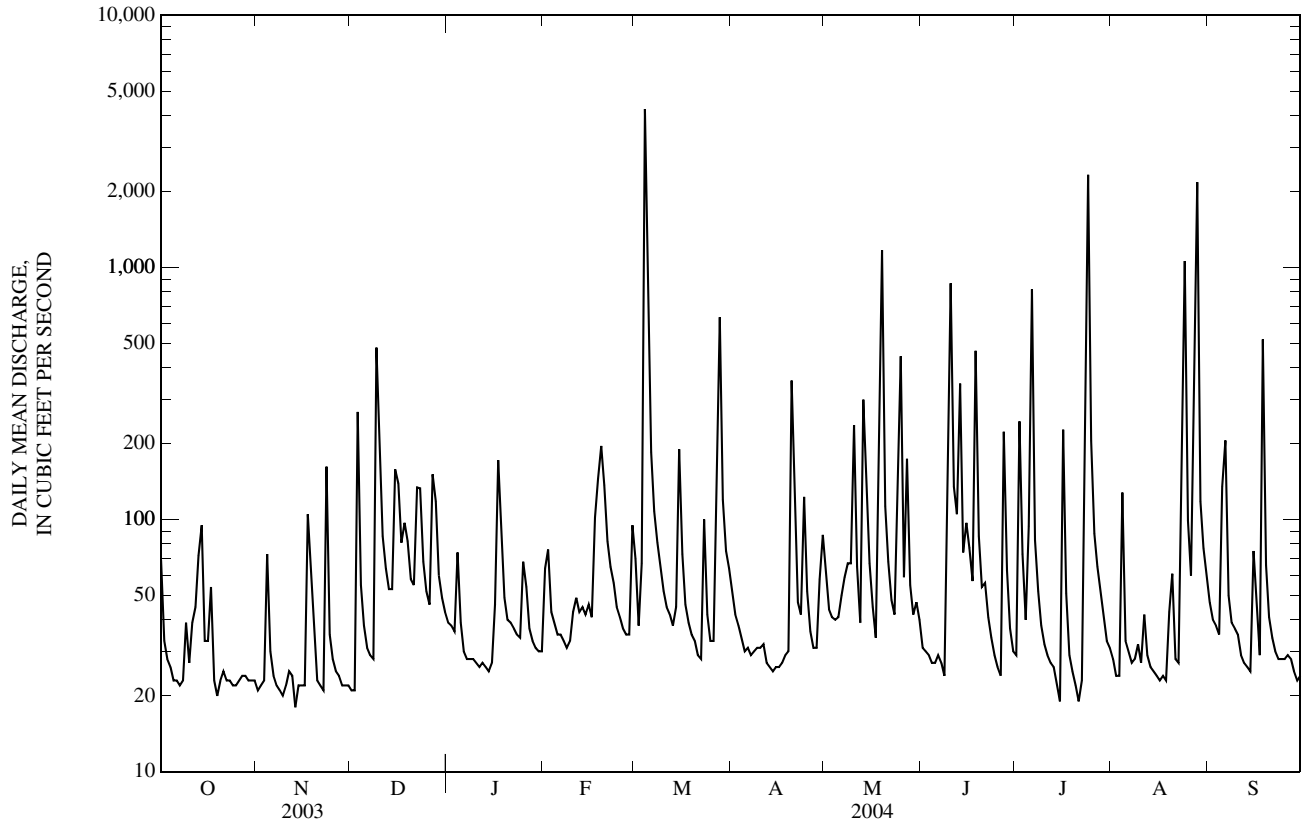
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	32.4	34.1	95.5	42.6	61.0	235	52.1	109	117	94.2	205	66.6
MAX	32.4	34.1	95.5	42.6	61.0	235	52.1	137	124	159	250	72.5
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)	(2003)
MIN	32.4	34.1	95.5	42.6	61.0	235	52.1	81.2	109	29.1	160	60.7
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)	(2004)	(2004)

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

SUMMARY STATISTICS	FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL MEAN	98.9		98.9	
HIGHEST ANNUAL MEAN			98.9	2004
LOWEST ANNUAL MEAN			98.9	2004
HIGHEST DAILY MEAN	4,250	Mar 4	5,140	Aug 31, 2003
LOWEST DAILY MEAN	18	Nov 13	16	Aug 21, 2003
ANNUAL SEVEN-DAY MINIMUM	22	Nov 7	17	Aug 18, 2003
MAXIMUM PEAK FLOW	11,600	Mar 4	11,600	Mar 4, 2004
MAXIMUM PEAK STAGE	22.72	Mar 4	22.72	Mar 4, 2004
INSTANTANEOUS LOW FLOW	14	Nov 13	11	Jul 21, 2003
ANNUAL RUNOFF (AC-FT)	71,810		71,660	
10 PERCENT EXCEEDS	147		147	
50 PERCENT EXCEEDS	39		39	
90 PERCENT EXCEEDS	23		23	

e Estimated



06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 2004.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February to September 2004.
pH: February to September 2004.
WATER TEMPERATURE: February to September 2004.
DISSOLVED OXYGEN: February to September 2004.
TURBIDITY (YSI 6136 sensor): February to September 2004.

INSTRUMENTATION.--Multiparameter water-quality monitor.

REMARKS.--Interruptions in record are due to ice conditions, malfunction of the recording instrument or sensors, or during days of no streamflow. Instruments used to measure turbidity conform to ISO 7027 standards and were made using Yellow Springs International (YSI) 6136 sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 3,230 microsiemens/cm, Feb. 17, 2004; minimum, 203 microsiemens/cm, July 24, 2004.
pH: Maximum, 8.8 standard units, Mar. 22, 2004; minimum, 7.3 standard units, May 8, 2004.
WATER TEMPERATURE: Maximum, 31.8°C, July 13, 2004; minimum, 3.4°C, Feb. 18, 2004.
DISSOLVED OXYGEN: Maximum, 17.9 mg/L, Apr. 5, 2004; minimum, 1.9 mg/L, May 10, 2004.
TURBIDITY (YSI 6136 sensor): Maximum, >1,100 FNU, June 10, 2004; minimum, 2.0 FNU, Apr. 2, 2004.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,230 microsiemens/cm, Feb. 17; minimum, 203 microsiemens/cm, July 24.
pH: Maximum, 8.8 standard units, Mar. 22; minimum, 7.3 standard units, May 8.
WATER TEMPERATURE: Maximum, 31.8°C, July 13; minimum, 3.4°C, Feb. 18.
DISSOLVED OXYGEN: Maximum, 17.9 mg/L, Apr. 5; minimum, 1.9 mg/L, May 10.
TURBIDITY: Maximum, >1,100 FNU, June 10; minimum, 2.0 FNU, Apr. 2.

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	1,510	1,430	1,450	1,030	998	1,020	838	716	769
2	---	---	---	1,450	1,360	1,400	1,050	988	1,030	894	813	862
3	---	---	---	1,390	1,340	1,360	996	960	981	943	878	898
4	---	---	---	1,400	684	1,020	980	959	971	987	943	959
5	---	---	---	900	744	840	984	953	972	1,010	976	990
6	---	---	---	987	886	941	1,000	977	988	1,010	990	1,000
7	---	---	---	1,070	972	1,030	1,020	998	1,010	1,030	1,000	1,020
8	---	---	---	1,110	1,060	1,090	1,030	996	1,020	1,030	994	1,020
9	---	---	---	1,130	1,110	1,120	1,040	1,010	1,020	1,040	996	1,020
10	---	---	---	1,140	1,120	1,130	1,060	1,020	1,040	1,020	499	794
11	---	---	---	1,160	1,140	1,150	1,060	1,030	1,040	606	547	575
12	---	---	---	1,150	1,100	1,120	1,070	1,030	1,040	738	604	662
13	---	---	---	1,130	1,120	1,120	1,080	1,050	1,070	752	414	586
14	---	---	---	1,150	1,120	1,130	1,080	1,050	1,070	587	427	499
15	---	---	---	1,140	646	962	1,070	1,040	1,060	733	587	696
16	---	---	---	724	670	689	1,080	1,060	1,070	843	733	796
17	---	---	---	864	724	795	1,090	1,070	1,080	924	830	882
18	3,210	1,810	2,560	961	864	917	1,090	1,070	1,090	917	379	614
19	1,810	1,370	1,530	1,020	961	990	1,100	1,060	1,080	644	250	430
20	1,560	1,360	1,490	1,040	1,020	1,030	1,110	373	800	782	644	719
21	1,550	1,490	1,520	1,050	1,040	1,040	563	364	480	852	782	818
22	1,550	1,490	1,510	1,050	1,020	1,040	755	562	650	886	852	872
23	1,590	1,490	1,520	1,050	915	998	879	755	824	903	884	891
24	1,590	1,490	1,510	939	855	872	872	679	773	910	535	889
25	1,490	1,460	1,470	926	860	880	798	679	755	535	347	404
26	1,460	1,440	1,450	1,000	934	969	861	798	822	677	472	565
27	1,450	1,430	1,440	1,010	792	963	922	861	887	705	385	559
28	1,430	1,410	1,420	792	412	503	959	916	937	711	550	645
29	1,490	1,380	1,420	832	592	779	970	864	955	819	711	775
30	---	---	---	940	811	883	974	731	878	851	819	833
31	---	---	---	998	940	972	---	---	---	865	831	849
MONTH	3,210	1,360	1,570	1,510	412	1,010	1,110	364	947	1,040	250	771

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	878	841	862	791	750	761	942	882	916	904	862	881
2	909	875	885	795	362	635	935	895	919	921	878	895
3	912	890	901	532	382	460	940	904	927	926	903	918
4	911	886	901	680	532	598	923	508	679	946	910	926
5	911	895	904	694	601	659	696	639	653	947	436	893
6	913	886	901	681	301	421	808	696	756	495	423	459
7	903	866	883	731	414	628	871	808	828	616	464	531
8	895	852	875	812	731	765	892	871	882	774	616	705
9	879	602	791	856	812	836	899	863	882	828	774	798
10	602	264	370	871	849	857	889	833	865	895	828	852
11	646	331	541	884	865	870	849	815	828	900	852	877
12	779	646	717	903	852	871	872	830	855	909	871	888
13	667	460	513	902	840	871	879	840	854	938	904	922
14	703	536	625	887	851	873	890	876	883	962	935	950
15	683	645	668	908	877	890	917	889	900	962	596	873
16	742	573	696	906	330	510	925	913	920	789	709	737
17	721	574	679	519	411	464	933	914	926	792	732	764
18	740	363	487	632	519	559	937	911	925	807	371	518
19	745	424	557	732	632	681	935	836	912	563	426	476
20	809	745	796	781	732	756	840	686	744	726	563	645
21	855	809	832	812	781	792	822	784	805	814	726	771
22	875	839	859	825	786	817	882	793	822	872	814	836
23	894	870	879	813	725	767	903	487	774	898	872	885
24	912	885	892	749	203	423	487	224	313	911	894	903
25	928	880	901	691	354	563	687	399	587	927	910	919
26	930	892	915	829	691	759	765	687	733	927	900	914
27	932	372	700	888	830	854	808	414	769	914	891	904
28	520	377	449	931	888	901	610	258	437	928	887	912
29	661	520	584	941	931	936	783	610	704	935	902	918
30	750	661	704	956	931	940	868	778	826	945	913	932
31	---	---	---	956	915	938	883	863	873	---	---	---
MONTH	932	264	742	956	203	731	942	224	797	962	371	813

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, 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
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	7.9	7.7	7.8	8.2	7.8	7.8	7.8	7.5	7.6
2	---	---	---	8.1	7.6	7.7	8.2	7.7	7.9	7.8	7.5	7.6
3	---	---	---	8.0	7.6	7.8	8.6	7.8	8.0	7.9	7.5	7.6
4	---	---	---	7.9	7.6	7.8	8.7	7.8	8.1	7.8	7.5	7.6
5	---	---	---	7.8	7.6	7.7	8.8	7.7	8.1	8.2	7.4	7.5
6	---	---	---	7.8	7.8	7.8	8.7	7.6	8.0	8.2	7.4	7.5
7	---	---	---	7.8	7.8	7.8	8.6	7.6	7.9	8.2	7.4	7.5
8	---	---	---	7.8	7.8	7.8	8.6	7.6	7.9	8.2	7.3	7.5
9	---	---	---	7.8	7.7	7.8	8.6	7.7	7.9	8.3	7.3	7.5
10	---	---	---	7.9	7.7	7.8	8.4	7.6	7.8	7.6	7.3	7.5
11	---	---	---	8.0	7.9	7.9	8.5	7.7	7.9	7.5	7.3	7.4
12	---	---	---	7.9	7.9	7.9	8.6	7.6	8.0	7.5	7.3	7.4
13	---	---	---	7.9	7.9	7.9	8.6	7.6	8.0	7.7	7.3	7.6
14	---	---	---	8.0	7.9	7.9	8.6	7.7	7.9	7.8	7.6	7.7
15	---	---	---	8.0	7.8	7.9	8.4	7.6	7.8	7.8	7.6	7.7
16	---	---	---	7.9	7.8	7.8	8.4	7.6	7.8	7.8	7.5	7.6
17	---	---	---	8.0	7.8	7.8	8.2	7.5	7.7	7.8	7.5	7.6
18	8.1	7.8	---	8.0	7.8	7.9	7.8	7.5	7.6	7.8	7.4	7.6
19	8.0	7.8	7.9	8.2	7.9	8.0	8.2	7.5	7.7	7.8	7.6	7.7
20	8.0	7.8	7.9	8.5	7.9	8.1	7.8	7.6	7.6	7.7	7.7	7.7
21	8.1	7.8	7.8	8.7	8.0	8.2	7.8	7.5	7.6	7.8	7.7	7.7
22	8.0	7.7	7.8	8.8	8.0	8.3	7.6	7.5	7.6	7.8	7.6	7.7
23	8.2	7.6	7.8	8.7	7.8	8.0	7.7	7.6	7.6	8.0	7.7	7.8
24	8.1	7.8	7.8	8.1	7.7	7.8	7.8	7.7	7.8	8.0	7.7	7.8
25	8.4	7.8	7.9	8.1	7.7	7.8	7.8	7.7	7.8	7.7	7.4	7.5
26	8.4	7.8	7.9	8.6	7.7	8.0	7.8	7.6	7.7	---	---	---
27	8.6	7.8	8.0	8.4	7.8	8.0	7.8	7.6	7.6	7.8	7.6	7.7
28	8.6	7.8	8.0	8.0	7.8	7.9	7.8	7.6	7.6	7.7	7.5	7.6
29	8.4	7.8	7.9	8.0	7.8	7.9	7.8	7.6	7.6	7.8	7.5	7.6
30	---	---	---	8.0	7.8	7.8	7.8	7.5	7.6	7.9	7.6	7.7
31	---	---	---	8.0	7.8	7.8	---	---	---	8.0	7.6	7.7
MAX	8.6	7.8	8.0	8.8	8.0	8.3	8.8	7.8	8.1	8.3	7.7	7.8
MIN	8.0	7.6	7.8	7.8	7.6	7.7	7.6	7.5	7.6	7.5	7.3	7.4

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

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

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

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, 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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	10.8	8.8	9.5	15.2	10.9	12.7	18.0	14.8	15.9
2	---	---	---	10.6	8.0	9.1	16.6	11.8	13.8	17.3	14.1	15.4
3	---	---	---	9.4	8.6	8.9	17.0	12.4	14.2	18.7	12.5	15.3
4	---	---	---	9.2	6.9	8.1	17.5	12.1	14.4	18.5	14.2	16.3
5	---	---	---	9.4	8.5	9.0	16.6	12.1	14.3	22.5	15.0	18.5
6	---	---	---	10.7	7.9	9.4	19.0	13.2	15.8	25.3	18.4	21.4
7	---	---	---	11.6	9.5	10.5	18.5	15.2	16.8	26.5	20.5	23.2
8	---	---	---	11.9	8.6	10.2	19.3	14.2	16.6	26.5	21.4	23.7
9	---	---	---	12.6	9.3	10.8	16.6	13.9	15.2	25.5	21.9	23.5
10	---	---	---	12.3	9.4	10.7	14.5	12.5	13.6	22.9	20.2	21.3
11	---	---	---	12.2	9.3	10.5	16.1	10.7	13.1	24.1	20.1	21.9
12	---	---	---	12.0	8.4	9.9	15.7	11.3	13.3	22.9	21.2	21.9
13	---	---	---	10.2	9.2	9.6	16.8	11.0	13.6	21.8	17.0	19.5
14	---	---	---	12.3	8.5	10.2	18.2	11.7	14.7	17.0	14.9	15.9
15	---	---	---	10.3	7.9	9.3	19.0	13.9	16.1	19.6	14.8	16.8
16	---	---	---	8.5	7.1	7.7	22.7	15.9	18.9	21.3	16.9	18.8
17	---	---	---	10.8	7.4	8.8	24.4	18.5	21.1	23.8	18.5	20.7
18	5.9	3.4	4.3	13.6	9.1	11.0	21.5	19.1	20.1	21.3	19.1	19.8
19	8.7	4.0	6.1	14.7	10.2	12.4	23.0	18.0	20.2	22.1	19.2	20.5
20	8.9	7.6	8.2	17.0	13.1	14.7	20.5	18.1	19.4	24.1	20.9	22.3
21	8.9	6.6	7.8	14.6	10.5	12.3	20.7	16.9	18.4	26.0	22.3	23.9
22	10.1	7.8	8.8	14.2	9.6	11.6	18.2	15.6	17.1	24.9	22.9	23.7
23	10.9	8.8	9.6	13.5	10.3	11.6	15.9	14.7	15.2	26.4	22.4	23.9
24	8.8	7.0	8.0	13.6	12.1	12.9	15.6	14.4	14.9	26.3	21.9	23.8
25	8.9	6.4	7.3	15.2	13.4	14.3	17.7	14.0	15.5	22.8	20.2	20.9
26	9.9	5.8	7.6	18.9	14.9	16.7	19.4	14.2	16.4	20.2	19.0	19.5
27	10.5	6.6	8.3	18.3	16.3	17.4	20.4	14.1	17.0	22.7	18.6	20.3
28	10.9	7.6	9.2	16.3	13.4	14.5	21.8	16.2	18.7	24.4	20.3	22.1
29	11.2	9.0	10.0	14.4	12.7	13.8	19.1	17.5	18.0	25.1	21.5	23.0
30	---	---	---	13.4	10.8	12.2	17.7	15.8	17.1	25.1	22.0	23.5
31	---	---	---	13.7	9.3	11.3	---	---	---	23.8	20.5	21.9
MONTH	11.2	3.4	7.9	18.9	6.9	11.3	24.4	10.7	16.2	26.5	12.5	20.6

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.1	19.6	21.9	24.8	22.2	23.5	28.7	23.0	25.5	25.3	22.7	23.7
2	24.8	20.0	22.0	23.6	22.5	23.0	29.9	24.7	26.9	26.0	22.0	23.6
3	24.3	19.6	21.8	26.1	22.6	23.9	31.2	25.8	28.2	26.3	22.2	23.9
4	25.9	19.9	22.6	28.3	23.6	25.4	28.5	25.6	27.0	26.7	22.6	24.4
5	23.1	20.8	22.0	26.9	24.3	25.4	27.6	23.8	25.5	27.1	23.2	24.9
6	25.1	20.9	22.7	25.7	21.9	23.7	27.1	22.7	24.6	24.9	22.6	23.7
7	27.0	22.2	24.4	25.1	22.4	23.7	26.5	21.5	23.8	24.0	21.1	22.3
8	28.0	23.1	25.1	24.0	23.1	23.6	25.2	22.2	23.4	23.8	19.7	21.4
9	25.0	22.3	23.4	25.8	22.5	23.6	27.9	22.3	24.7	24.1	19.4	21.4
10	23.4	21.3	22.3	28.2	22.5	25.1	27.1	23.1	24.7	24.4	19.9	21.9
11	24.7	22.6	23.5	30.1	24.3	26.8	24.1	21.5	22.9	24.9	20.5	22.4
12	26.3	22.9	24.3	30.3	25.2	27.4	23.9	19.7	21.7	25.6	20.8	22.9
13	24.3	20.7	22.5	31.8	26.0	28.5	23.0	20.0	21.4	25.9	21.4	23.4
14	26.6	22.7	24.5	31.1	26.2	28.2	23.9	20.1	21.7	26.2	22.1	23.9
15	---	23.9	---	29.9	25.2	27.4	25.3	19.6	22.0	24.4	23.2	23.7
16	26.1	---	---	27.3	23.4	25.3	24.4	20.2	22.1	24.5	21.5	22.8
17	26.3	22.5	24.3	27.2	24.4	25.5	27.0	21.5	23.9	22.6	19.9	21.3
18	24.0	20.9	22.0	27.4	23.1	25.1	28.4	23.1	25.4	21.3	19.5	20.5
19	21.8	20.3	21.0	28.9	23.2	25.7	25.6	21.4	23.3	23.8	20.7	21.9
20	21.9	19.9	20.7	30.8	25.0	27.6	21.5	19.9	20.7	24.1	21.0	22.1
21	24.8	20.4	22.2	28.8	26.3	27.5	22.5	19.6	20.8	24.3	20.1	21.9
22	25.6	22.1	23.3	29.9	26.2	27.7	25.4	19.7	22.2	24.4	20.1	22.0
23	26.6	20.8	---	26.9	24.1	25.6	23.5	22.2	22.8	22.6	20.5	21.4
24	28.0	21.9	24.4	24.1	17.9	20.9	22.3	20.5	21.3	23.1	19.0	20.8
25	25.8	20.7	23.0	22.0	19.2	20.5	24.3	22.2	23.3	23.4	19.0	21.0
26	25.4	20.1	22.5	---	---	21.1	27.6	23.5	25.2	23.3	19.1	21.0
27	22.6	20.1	21.0	24.7	20.9	22.5	28.4	23.0	26.5	22.8	19.0	20.8
28	23.4	19.8	21.1	24.5	21.9	22.9	23.8	22.2	22.9	21.6	19.2	20.2
29	24.8	19.9	22.2	24.0	22.2	22.8	23.8	21.4	22.5	21.4	17.3	19.0
30	25.6	20.9	23.0	24.7	21.7	22.7	24.2	21.0	22.5	20.9	17.4	19.0
31	---	---	---	---	21.5	---	24.9	22.4	23.3	---	---	---
MONTH	28.0	19.6	22.7	31.8	17.9	24.8	31.2	19.6	23.6	27.1	17.3	22.1

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, 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
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	10.6	8.4	9.2	12.7	7.1	9.3	9.6	6.8	8.0
2	---	---	---	13.0	8.4	10.0	14.5	7.0	9.7	10.0	7.0	8.2
3	---	---	---	11.2	8.5	9.8	16.2	7.4	10.8	11.2	7.0	8.7
4	---	---	---	10.7	8.9	9.9	17.3	7.7	11.3	10.8	6.4	8.1
5	---	---	---	10.2	10.0	10.0	17.9	7.4	11.4	13.2	5.6	8.4
6	---	---	---	10.4	9.6	10.1	17.2	6.9	10.8	13.8	4.4	7.9
7	---	---	---	9.7	9.2	9.5	15.4	6.1	9.5	14.7	3.2	7.7
8	---	---	---	9.4	8.0	9.0	16.0	6.0	9.8	14.9	2.6	7.5
9	---	---	---	8.2	7.5	7.8	15.2	6.2	9.5	15.4	2.1	7.3
10	---	---	---	9.0	7.4	8.1	13.7	6.4	9.3	6.9	1.9	4.6
11	---	---	---	9.9	8.9	9.5	15.9	7.3	10.6	8.1	4.2	6.2
12	---	---	---	10.3	9.7	9.9	16.4	7.0	10.7	7.0	3.7	4.8
13	---	---	---	10.2	9.5	9.8	16.3	6.7	10.4	8.0	3.8	6.6
14	---	---	---	10.8	9.5	10.1	16.4	6.6	10.3	9.5	7.9	8.6
15	---	---	---	11.1	9.2	10.0	14.8	5.7	9.0	9.7	6.6	8.2
16	---	---	---	11.2	10.8	10.9	14.2	4.8	8.3	9.1	5.4	7.2
17	---	---	---	11.7	10.3	11.0	13.1	3.6	7.2	9.0	4.2	6.2
18	13.6	11.4	12.2	11.6	9.9	10.6	8.6	3.4	5.4	7.8	3.8	6.0
19	12.1	10.2	11.5	12.4	9.2	10.6	11.5	3.6	6.6	8.2	6.4	7.3
20	11.2	9.5	10.2	13.4	8.5	10.4	6.8	3.7	5.5	6.5	5.1	6.0
21	12.7	9.4	10.6	15.7	8.8	11.5	7.1	5.8	6.6	6.5	4.8	5.6
22	12.6	7.9	9.9	17.2	9.4	12.4	6.9	5.7	6.2	7.0	4.6	5.6
23	13.4	7.2	9.6	11.2	8.6	9.8	7.8	6.4	7.0	8.9	5.0	6.5
24	12.6	8.8	10.1	11.4	7.8	9.2	8.3	7.1	8.0	9.8	5.1	7.0
25	15.8	9.4	11.7	11.6	7.4	8.8	8.7	7.2	7.9	7.4	6.7	7.1
26	16.2	9.7	11.9	14.2	7.0	9.7	8.7	6.6	7.6	7.6	6.6	7.1
27	16.8	9.4	12.0	11.8	6.4	8.5	8.8	5.9	7.3	7.8	6.3	7.1
28	16.1	8.9	11.7	9.2	8.2	8.9	8.8	5.5	6.9	8.1	5.6	6.8
29	14.3	8.4	10.3	9.8	8.2	8.9	7.1	5.0	6.0	8.4	5.2	6.4
30	---	---	---	10.4	7.8	8.9	7.5	5.6	6.5	8.6	5.2	6.6
31	---	---	---	11.2	7.7	9.2	---	---	---	9.9	5.3	7.2
MONTH	16.8	7.2	11.0	17.2	6.4	9.7	17.9	3.4	8.5	15.4	1.9	7.0

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.9	5.2	7.7	10.6	4.7	6.9	15.5	4.0	8.4	9.4	5.8	7.1
2	13.4	4.9	8.2	7.1	4.7	6.1	16.4	3.3	8.2	10.9	5.6	7.4
3	13.3	4.6	8.1	8.1	5.7	6.9	16.1	2.6	7.8	12.9	5.5	8.1
4	15.5	4.4	8.9	9.7	5.2	7.0	6.6	3.0	5.1	14.6	4.9	8.3
5	13.1	4.0	7.8	8.0	5.0	6.4	10.4	4.0	6.4	15.2	4.6	8.5
6	15.1	4.3	8.5	7.5	4.8	6.9	12.1	4.2	7.0	6.8	5.9	6.2
7	15.8	3.8	8.6	7.5	5.7	6.7	12.5	3.9	7.0	9.1	5.8	7.0
8	16.3	3.3	8.5	7.0	5.4	6.1	10.9	3.2	5.5	10.6	6.0	7.5
9	8.8	3.1	5.6	8.5	5.2	6.2	10.8	3.2	5.9	11.4	5.9	7.6
10	7.6	6.4	7.0	10.1	5.1	7.1	11.4	3.0	5.8	12.6	5.5	8.0
11	6.9	5.6	6.5	12.2	4.9	7.6	9.8	3.8	6.4	14.2	5.2	8.2
12	7.3	5.2	6.1	14.3	4.3	7.9	11.3	4.5	7.0	14.0	4.7	8.0
13	7.5	6.3	7.0	15.7	3.7	8.2	9.5	4.2	6.3	13.4	4.3	7.4
14	7.6	5.4	6.4	17.4	3.0	8.3	10.0	3.7	6.2	12.0	4.0	6.8
15	7.5	4.6	5.9	16.0	3.0	8.0	11.9	4.0	6.9	6.9	3.6	5.2
16	8.8	5.2	6.4	7.4	2.8	5.6	11.5	3.6	6.5	8.6	5.1	6.3
17	10.2	5.2	7.2	7.8	5.5	6.5	11.9	3.1	6.5	9.0	5.0	6.5
18	7.6	5.0	6.8	9.0	5.2	6.7	12.2	2.9	6.3	8.0	5.0	6.9
19	8.8	6.6	7.6	10.3	4.4	6.8	---	---	---	7.8	5.9	6.9
20	9.6	5.7	7.4	11.7	3.8	6.7	---	---	---	8.3	5.7	6.5
21	10.1	5.7	7.5	11.6	3.4	6.7	---	---	---	9.5	5.7	7.0
22	11.8	5.3	7.7	12.5	3.4	6.6	---	---	---	---	---	---
23	13.0	4.9	8.0	7.3	3.8	5.7	---	---	---	---	---	---
24	14.1	4.6	8.1	8.9	5.1	7.4	---	---	---	---	---	---
25	14.4	4.7	8.4	8.1	6.3	7.6	---	---	---	---	---	---
26	15.5	4.6	8.6	7.7	5.2	6.2	---	---	---	---	---	---
27	7.6	4.4	6.3	7.2	5.1	6.0	---	---	---	---	---	---
28	9.0	6.2	7.4	7.9	4.9	6.0	---	---	---	---	---	---
29	10.3	5.6	7.6	8.7	4.6	6.1	---	---	---	---	---	---
30	10.9	5.1	7.2	10.6	4.2	6.1	---	---	---	12.5	5.6	7.8
31	---	---	---	13.4	3.8	7.5	8.3	5.7	6.7	---	---	---
MONTH	16.3	3.1	7.4	17.4	2.8	6.8	16.4	2.6	6.6	15.2	3.6	7.2

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	94	24	45	18	7.6	12	17	6.6	12
2	---	---	---	28	11	18	19	2.0	---	8.1	4.5	5.3
3	---	---	---	52	5.8	18	3.7	2.0	2.7	7.0	---	5.0
4	---	---	---	1,000	25	460	4.5	2.1	2.9	---	3.0	4.0
5	---	---	---	510	67	170	5.1	2.6	3.3	5.7	<2.0	3.3
6	---	---	---	67	---	---	5.1	2.6	3.8	4.2	2.7	3.2
7	---	---	---	---	---	---	5.0	3.0	4.0	5.3	<2.0	3.0
8	---	---	---	---	10	---	---	2.0	3.0	3.3	<2.0	2.2
9	---	---	---	13	7.5	9.4	4.8	2.2	3.1	3.3	<2.0	2.0
10	---	---	---	9.8	4.4	6.8	4.4	2.8	3.4	200	<2.0	46
11	---	---	---	7.4	4.0	5.5	4.2	2.7	3.3	36	6.8	17
12	---	---	---	8.1	4.5	5.9	4.3	2.6	3.1	11	2.6	5.9
13	---	---	---	6.8	3.3	4.6	4.3	2.8	3.3	130	3.3	53
14	---	---	---	5.1	3.5	4.1	4.8	2.5	3.2	56	23	37
15	---	---	---	130	3.4	50	4.4	3.1	3.5	24	8.4	17
16	---	---	---	82	32	59	4.3	2.6	3.5	8.8	3.9	5.6
17	---	---	---	32	11	18	4.7	2.7	3.7	5.1	2.3	3.5
18	190	21	59	11	4.9	7.6	4.2	2.9	3.3	590	2.7	170
19	120	44	61	6.4	3.3	4.5	4.6	3.0	3.6	940	44	270
20	54	18	32	5.8	2.8	3.9	1,080	3.6	130	44	7.1	20
21	18	9.7	13	6.6	3.2	4.3	270	36	87	9.1	3.5	5.3
22	11	6.8	8.2	7.7	3.2	4.8	37	13	22	---	---	---
23	---	---	---	30	4.0	16	13	7.0	9.4	---	---	---
24	---	---	---	16	9.1	12	34	8.6	21	---	---	---
25	---	---	---	13	4.9	7.6	15	7.5	11	---	---	---
26	---	---	---	6.2	2.8	4.0	9.5	6.4	7.8	---	---	---
27	4.5	2.9	3.4	68	2.8	15	8.7	5.7	6.9	150	12	54
28	5.0	3.1	3.8	440	46	180	10	6.0	7.0	24	7.5	13
29	95	3.2	25	46	19	25	---	6.0	---	8.1	3.8	5.2
30	---	---	---	21	10	15	25	---	---	4.7	2.9	3.9
31	---	---	---	19	6.8	13	---	---	---	7.1	3.0	3.9
MONTH	190	2.9	26	1,000	2.8	42	1,080	2.0	14	940	2.0	30

06893390 INDIAN CREEK AT STATE LINE ROAD, LEAWOOD, KS—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	4.7	<2.0	2.9	5.8	<2.0	<2.0	---	---	---	3.3	<2.0	2.1
2	3.8	<2.0	2.3	490	<2.0	80	---	<2.0	---	2.9	<2.0	<2.0
3	4.0	<2.0	2.3	79	<2.0	27	3.2	<2.0	1.5	2.6	<2.0	<2.0
4	2.9	<2.0	<2.0	20	4.3	7.9	38	<2.0	12	2.0	<2.0	<2.0
5	2.3	<2.0	<2.0	510	12	150	5.1	2.1	3.4	260	<2.0	23
6	2.4	<2.0	<2.0	890	72	410	3.2	<2.0	2.1	240	31	93
7	2.3	<2.0	<2.0	---	6	---	3.3	<2.0	2.0	32	6.8	15
8	2.9	<2.0	<2.0	10	3.6	5.2	3.0	<2.0	<2.0	8.8	2.7	4.7
9	39	<2.0	13	4.9	<2.0	3.8	3.9	<2.0	<2.0	6.3	2.0	3.1
10	>1,100	30	>280	3.9	<2.0	2.6	3.0	<2.0	<2.0	6.4	<2.0	2.6
11	200	11	53	3.0	<2.0	<2.0	2.6	<2.0	<2.0	5.4	<2.0	2.4
12	150	2.7	12	3.0	<2.0	<2.0	2.7	<2.0	<2.0	3.8	<2.0	2.5
13	210	18	73	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	4.4	<2.0	2.4
14	25	4.0	10	2.0	<2.0	<2.0	2.2	<2.0	<2.0	3.6	<2.0	2.3
15	25	---	13	3.3	<2.0	<2.0	2.4	<2.0	<2.0	47	2.0	11
16	---	4.0	10	>1,100	<2.0	>150	2.5	<2.0	<2.0	9.0	4.0	6.0
17	---	---	---	39	9.1	19	2.5	<2.0	<2.0	6.3	2.8	3.7
18	>1,100	2.2	>220	11	6.3	8.4	2.4	<2.0	<2.0	970	3.1	240
19	75	11	29	7.0	<2.0	4.4	12	<2.0	4.0	98	15	44
20	13	4.6	7.4	5.4	<2.0	3.6	12	3.0	6.1	16	6.2	9.9
21	6.3	2.2	3.9	9.5	3.8	5.3	4.0	<2.0	2.6	---	---	4.0
22	4.1	<2.0	2.2	26	7.1	12	3.1	<2.0	2.1	6.8	3.3	4.5
23	4.0	<2.0	<2.0	19	12	15	160	<2.0	21	6.7	3.4	4.3
24	3.5	<2.0	<2.0	260	13	120	1,050	85	320	8.4	5.0	6.3
25	<2.0	<2.0	<2.0	---	---	---	85	11	36	7.5	4.6	5.5
26	3.7	<2.0	<2.0	---	---	---	11	3.5	7.3	6.3	4.6	5.2
27	130	<2.0	41	8.5	6.2	7.3	360	2.5	26	6.4	4.2	4.9
28	47	9.3	21	13	8.4	10	520	37	180	5.3	2.6	4.1
29	10	4.0	6.1	16	7.8	13	4.0	9.4	20	4.0	<2.0	<2.0
30	5.4	<2.0	3.7	---	---	9.8	---	---	---	4.6	2.2	2.9
31	---	---	---	---	---	---	3.2	<2.0	2.4	---	---	---
MONTH	1,100	2.0	28	1,100	2.0	40	1,050	2.0	24	970	2.0	17

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

06910800 MARAIS DES CYGNES RIVER NEAR READING, KS

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

DRAINAGE AREA.--177 mi^2.

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0400	9,080	22.80	Jul 9	1800	4,260	17.19
Mar 28	1000	3,910	16.22	Jul 25	0100	*11,500	*23.51
Jun 18	2000	7,500	22.24				

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	4.6	0.26	0.87	9.9	10	417	92	29	5.9	96	63	21
2	4.2	0.23	0.94	9.3	13	191	76	28	5.0	985	53	15
3	3.3	0.22	12	9.0	13	98	64	28	4.7	1,180	46	11
4	2.7	0.26	28	7.9	14	2,510	56	26	4.0	277	40	8.2
5	2.9	0.52	32	6.9	15	4,940	51	23	4.2	129	36	8.1
6	3.3	0.87	20	5.4	14	571	48	19	13	1,020	33	11
7	3.1	0.74	11	5.2	14	328	46	17	24	298	31	26
8	3.6	e0.74	6.6	5.0	12	179	45	15	14	514	30	30
9	6.5	e0.74	7.4	4.9	11	123	42	13	7.4	2,310	34	19
10	6.1	0.74	14	4.5	12	98	39	17	164	804	32	11
11	3.1	0.85	8.4	4.7	12	79	37	29	147	239	30	8.0
12	1.7	0.86	9.0	5.3	11	67	35	23	52	132	28	6.5
13	1.2	0.92	16	5.6	10	61	32	81	211	90	25	5.5
14	0.99	1.3	13	5.9	11	59	31	312	129	67	23	5.0
15	1.1	1.4	20	6.4	20	59	30	187	719	53	20	4.8
16	0.96	1.1	40	7.4	18	61	29	73	488	43	18	3.4
17	0.69	1.5	24	15	38	58	28	47	134	38	16	5.5
18	0.61	1.4	27	31	255	50	27	237	3,240	34	15	5.0
19	0.51	1.2	24	24	948	45	27	228	1,930	32	25	3.8
20	0.42	1.2	17	22	413	41	33	93	336	28	28	3.1
21	0.44	1.0	15	15	161	36	37	54	208	25	19	2.8
22	0.41	0.94	19	12	88	33	36	37	131	20	15	2.9
23	0.41	0.95	63	9.9	63	32	32	29	88	27	15	2.8
24	0.40	0.89	34	9.5	48	32	43	24	66	3,760	40	2.5
25	0.38	1.1	26	44	40	32	77	20	52	4,500	46	2.2
26	0.39	1.1	22	75	35	32	66	15	43	472	36	2.0
27	0.33	0.95	19	e56	31	33	42	16	41	274	28	1.4
28	0.31	0.93	15	e33	29	2,070	34	12	133	168	67	1.4
29	0.31	0.90	13	e21	48	395	29	9.6	84	110	77	1.7
30	0.33	0.90	12	15	---	182	28	9.2	52	87	42	1.5
31	0.31	---	10	11	---	120	---	7.6	---	75	29	---
MEAN	1.79	0.89	18.7	16.0	83.0	420	43.1	56.7	284	577	33.5	7.74
MAX	6.5	1.5	63	75	948	4,940	92	312	3,240	4,500	77	30
MIN	0.31	0.22	0.87	4.5	10	32	27	7.6	4.0	20	15	1.4
AC-FT	110	53	1,150	985	4,770	25,850	2,560	3,490	16,920	35,480	2,060	460

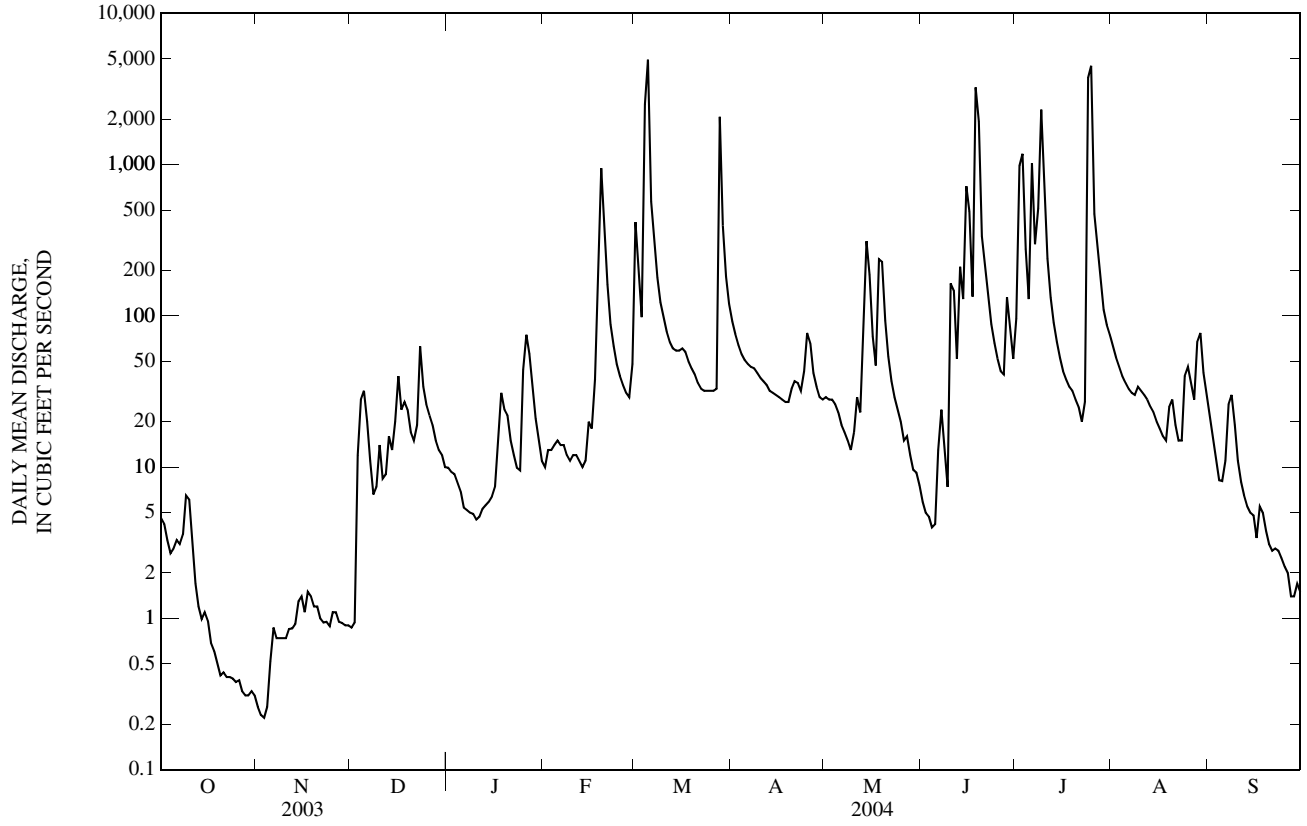
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	74.8	79.0	53.0	44.2	94.7	154	174	231	200	98.0	25.4	63.1
MAX	773	978	276	208	424	744	778	1,766	1,173	875	156	828
(WY)	(1986)	(1999)	(1993)	(1974)	(1985)	(1973)	(1983)	(1982)	(1977)	(1993)	(1977)	(1973)
MIN	0.00	0.00	0.00	0.00	0.01	0.66	0.74	13.6	0.58	0.27	0.00	0.00
(WY)	(1989)	(1989)	(1992)	(1992)	(1992)	(1989)	(1981)	(1980)	(1989)	(1980)	(1991)	(1991)

06910800 MARAIS DES CYGNES RIVER NEAR READING, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL MEAN	51.0		129		108	
HIGHEST ANNUAL MEAN					296	1999
LOWEST ANNUAL MEAN					8.37	1991
HIGHEST DAILY MEAN	2,970	Apr 20	4,940	Mar 5	25,000	May 29, 1982
LOWEST DAILY MEAN	0.00	Aug 21	0.22	Nov 3	0.00	Sep 8, 1976
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 21	0.27	Oct 29	0.00	Sep 8, 1976
MAXIMUM PEAK FLOW			11,500	Jul 25	67,400	May 29, 1982
MAXIMUM PEAK STAGE			23.51	Jul 25	27.47	May 29, 1982
INSTANTANEOUS LOW FLOW			0.19	Nov 3	0.00	many years
ANNUAL RUNOFF (AC-FT)	36,900		93,890		77,890	
10 PERCENT EXCEEDS	52		180		162	
50 PERCENT EXCEEDS	3.7		24		13	
90 PERCENT EXCEEDS	0.41		0.95		0.17	

e Estimated



06910997 MELVERN LAKE NEAR MELVERN, KS

LOCATION.--Lat 38°30'34", long 95°42'34", in NW ¼ SW ¼ SW ¼ sec.1, T.18 S., R.15 E., Osage County, Hydrologic Unit 10290101, in control tower of Melvern Dam on Marais des Cygnes River, 4.0 mi west of Melvern, and at mile 447.7.

DRAINAGE AREA.--349 mi^2.

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

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

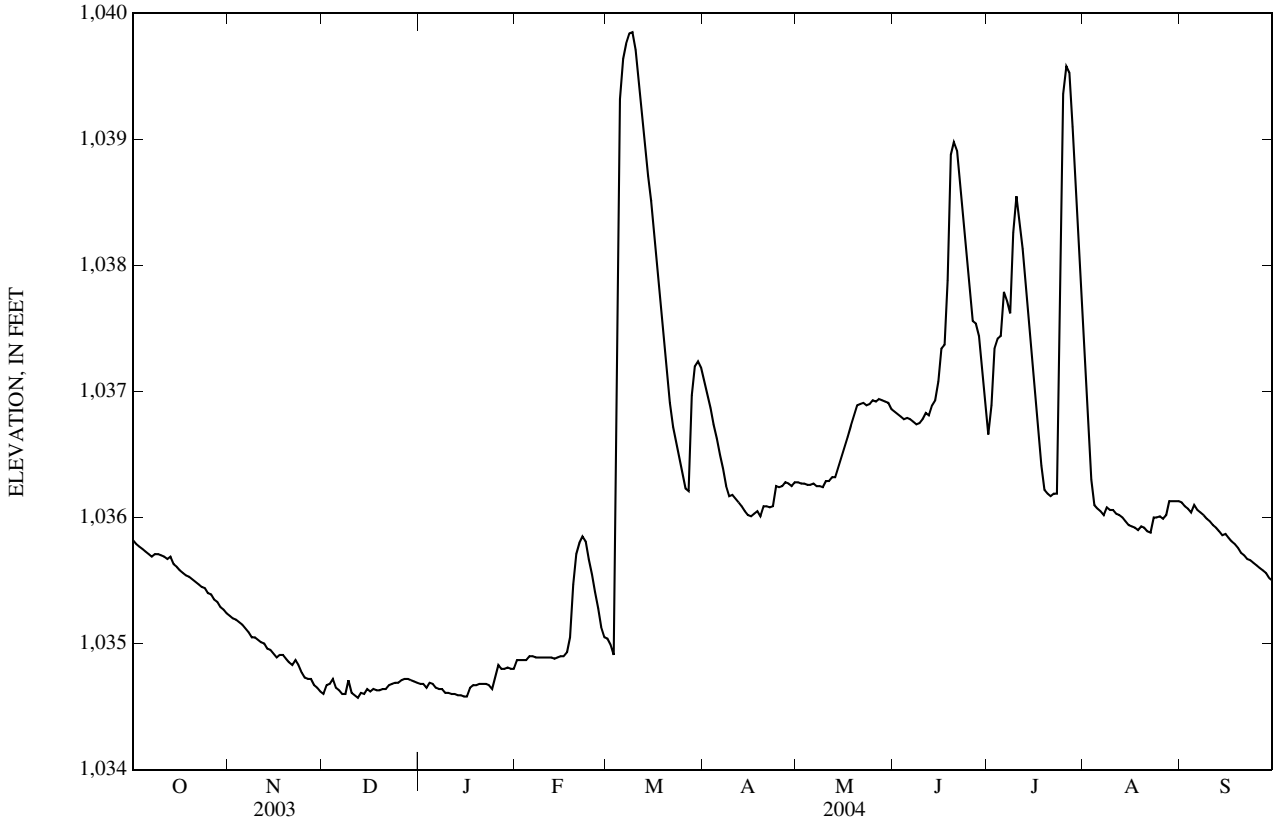
REMARKS.--Reservoir is formed by compacted earthfill dam. Storage began in July 1972. Conservation pool elevation first reached Apr. 4, 1975. Total capacity, 920,600 acre-ft, consisting of the following: Dead storage, 26 acre-ft below elevation 962.0 ft; conservation pool, 154,400 acre-ft between elevations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

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

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,039.86 ft, Mar. 9, contents, 182,600 acre-ft; minimum elevation, 1,034.56 ft, Dec. 12 contents, 144,600 acre-ft.

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

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



06910997 MELVERN LAKE NEAR MELVERN, 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	1,035.82	1,035.22	1,034.60	1,034.68	1,034.87	1,035.04	1,037.08	1,036.28	1,036.84	1,036.66	1,037.16	1,036.12
2	1,035.79	1,035.20	1,034.67	1,034.68	1,034.87	1,034.99	1,036.98	1,036.27	1,036.82	1,036.89	1,036.72	1,036.09
3	1,035.77	1,035.19	1,034.68	1,034.65	1,034.87	1,034.91	1,036.87	1,036.27	1,036.80	1,037.34	1,036.30	1,036.07
4	1,035.75	1,035.17	1,034.72	1,034.69	1,034.87	1,036.83	1,036.74	1,036.26	1,036.78	1,037.42	1,036.10	1,036.04
5	1,035.73	1,035.15	1,034.65	1,034.68	1,034.90	1,039.32	1,036.63	1,036.26	1,036.79	1,037.44	1,036.07	1,036.10
6	1,035.71	1,035.12	1,034.63	1,034.65	1,034.90	1,039.64	1,036.50	1,036.27	1,036.78	1,037.79	1,036.05	1,036.06
7	1,035.69	1,035.09	1,034.60	1,034.64	1,034.89	1,039.76	1,036.39	1,036.25	1,036.76	1,037.72	1,036.02	1,036.04
8	1,035.71	1,035.05	1,034.60	1,034.64	1,034.89	1,039.84	1,036.25	1,036.25	1,036.74	1,037.62	1,036.08	1,036.02
9	1,035.71	1,035.05	1,034.71	1,034.61	1,034.89	1,039.85	1,036.17	1,036.24	1,036.75	1,038.26	1,036.06	1,035.99
10	1,035.70	1,035.03	1,034.61	1,034.61	1,034.89	1,039.71	1,036.18	1,036.29	1,036.78	1,038.55	1,036.06	1,035.97
11	1,035.69	1,035.01	1,034.59	1,034.60	1,034.89	1,039.45	1,036.15	1,036.29	1,036.83	1,038.34	1,036.03	1,035.94
12	1,035.67	1,035.00	1,034.57	1,034.60	1,034.89	1,039.20	1,036.12	1,036.32	1,036.81	1,038.13	1,036.02	1,035.92
13	1,035.69	1,034.96	1,034.61	1,034.59	1,034.88	1,038.97	1,036.09	1,036.32	1,036.89	1,037.87	1,036.00	1,035.89
14	1,035.63	1,034.95	1,034.60	1,034.59	1,034.89	1,038.71	1,036.05	e1,036.40	1,036.93	1,037.58	1,035.97	1,035.86
15	1,035.61	1,034.92	1,034.64	1,034.58	1,034.90	1,038.51	1,036.02	e1,036.48	1,037.08	1,037.29	1,035.94	1,035.87
16	1,035.58	1,034.89	1,034.62	1,034.58	1,034.90	1,038.25	1,036.01	e1,036.56	1,037.34	1,037.02	1,035.93	1,035.84
17	1,035.56	1,034.91	1,034.64	1,034.65	1,034.93	1,037.98	1,036.03	e1,036.64	1,037.37	1,036.72	1,035.92	1,035.81
18	1,035.54	1,034.91	1,034.63	1,034.67	1,035.05	1,037.73	1,036.05	e1,036.73	1,037.88	1,036.41	1,035.90	1,035.79
19	1,035.53	1,034.88	1,034.63	1,034.67	1,035.47	1,037.48	1,036.01	e1,036.81	1,038.88	1,036.22	1,035.93	1,035.76
20	1,035.51	1,034.85	1,034.64	1,034.68	1,035.71	1,037.20	1,036.09	1,036.89	1,038.98	1,036.19	1,035.92	1,035.72
21	1,035.49	1,034.83	1,034.64	1,034.68	1,035.80	1,036.91	1,036.09	1,036.90	1,038.91	1,036.17	1,035.89	1,035.70
22	1,035.47	1,034.87	1,034.67	1,034.68	1,035.85	1,036.72	1,036.08	1,036.91	1,038.67	1,036.19	1,035.88	1,035.67
23	1,035.45	1,034.83	1,034.68	1,034.67	1,035.81	1,036.60	1,036.09	1,036.89	1,038.42	1,036.19	1,036.00	1,035.66
24	1,035.44	1,034.77	1,034.69	1,034.64	1,035.67	1,036.47	1,036.25	1,036.90	1,038.10	1,037.44	1,036.00	1,035.64
25	1,035.40	1,034.73	1,034.69	1,034.73	1,035.55	1,036.35	1,036.24	1,036.93	1,037.85	1,039.36	1,036.01	1,035.62
26	1,035.39	1,034.72	1,034.71	1,034.83	1,035.41	1,036.23	1,036.25	1,036.92	1,037.56	1,039.58	1,035.99	1,035.60
27	1,035.35	1,034.72	1,034.72	1,034.80	1,035.28	1,036.21	1,036.28	1,036.94	1,037.54	1,039.53	1,036.02	1,035.58
28	1,035.33	1,034.67	1,034.72	1,034.80	1,035.13	1,036.97	1,036.27	1,036.93	1,037.44	1,039.10	1,036.13	1,035.56
29	1,035.29	1,034.65	1,034.71	1,034.81	1,035.05	1,037.20	1,036.25	1,036.92	1,037.18	1,038.52	1,036.13	1,035.52
30	1,035.27	1,034.62	1,034.70	1,034.80	---	1,037.24	1,036.28	1,036.91	1,036.92	1,038.04	1,036.13	1,035.50
31	1,035.24	---	1,034.69	1,034.80	---	1,037.19	---	1,036.86	---	1,037.60	1,036.13	---
MEAN	1,035.57	1,034.93	1,034.65	1,034.68	1,035.13	1,037.66	1,036.28	1,036.58	1,037.38	1,037.59	1,036.08	1,035.83
MAX	1,035.82	1,035.22	1,034.72	1,034.83	1,035.85	1,039.85	1,037.08	1,036.94	1,038.98	1,039.58	1,037.16	1,036.12
MIN	1,035.24	1,034.62	1,034.57	1,034.58	1,034.87	1,034.91	1,036.01	1,036.24	1,036.74	1,036.17	1,035.88	1,035.50
(+)	149,200	145,000	145,500	146,200	147,900	162,800	156,300	160,400	160,800	165,800	155,300	151,000
(#)	-4,100	-4,200	+500	+700	+1,700	+14,900	-6,500	+4,100	+400	+5,000	-10,500	-4,300

CAL YR 2003 ..... (#) +3,700
WTR YR 2004 ..... (#) -2,300

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

e Estimated

06911490 SALT CREEK AT LYNDON, KS

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

DRAINAGE AREA.--97.8 mi^2.

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 4	1930	*5,870	*10.64	No peak greater than base discharge.			

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

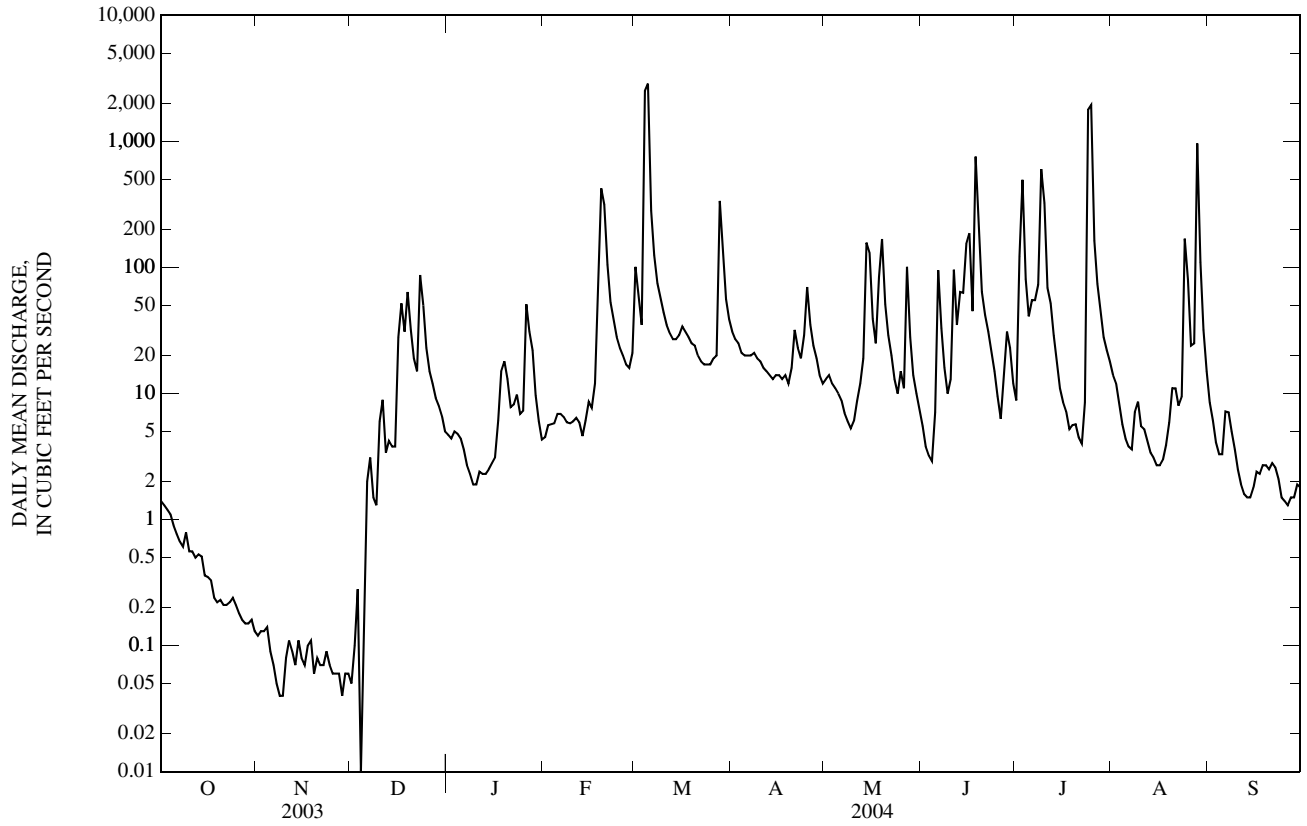
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	0.12	0.05	4.7	4.5	101	31	13	5.5	8.8	14	8.5
2	1.3	0.13	0.10	4.4	5.6	61	27	14	3.8	123	12	6.1
3	1.2	0.13	0.28	5.0	5.7	35	25	12	3.2	496	8.3	4.1
4	1.1	0.14	0.01	4.8	5.8	2,520	21	11	2.9	81	5.7	3.3
5	0.90	0.09	0.32	4.4	6.9	2,870	20	10	7.1	41	4.4	3.3
6	0.77	0.07	2.0	3.6	6.9	282	20	8.8	95	55	3.8	7.2
7	0.67	0.05	3.1	2.7	6.5	125	20	7.0	33	55	3.6	7.1
8	0.61	0.04	1.5	2.3	5.9	75	21	6.0	16	73	7.1	5.0
9	0.79	0.04	1.3	1.9	5.8	58	19	5.3	10	604	8.6	3.6
10	0.56	0.08	6.0	1.9	6.0	44	18	6.1	13	325	5.5	2.5
11	0.56	0.11	8.9	2.4	6.4	35	16	8.7	96	69	5.2	1.9
12	0.50	0.09	3.4	2.3	5.9	30	15	12	35	52	4.2	1.6
13	0.53	0.07	4.2	2.3	4.6	27	14	19	64	29	3.4	1.5
14	0.51	0.11	3.8	2.5	6.1	27	13	157	63	18	3.1	1.5
15	0.36	0.08	3.8	2.8	8.6	29	14	131	154	11	2.7	1.8
16	0.35	0.07	28	3.1	7.7	34	14	39	187	8.5	2.7	2.4
17	0.33	0.10	52	6.1	12	31	13	25	45	7.2	3.0	2.3
18	0.24	0.11	31	15	79	28	14	84	758	5.2	3.9	2.7
19	0.22	0.06	64	18	424	25	12	168	224	5.6	5.9	2.7
20	0.23	0.08	32	13	315	24	16	51	64	5.7	11	2.5
21	0.21	0.07	19	7.8	105	20	32	29	42	4.5	11	2.8
22	0.21	0.07	15	8.2	53	18	23	20	31	4.0	8.0	2.6
23	0.22	0.09	87	9.8	38	17	19	13	22	8.5	9.4	2.1
24	0.24	0.07	50	6.9	28	17	29	10	15	1,790	169	1.5
25	0.21	0.06	23	7.3	23	17	70	15	9.5	1,950	80	1.4
26	0.18	0.06	15	51	20	19	35	11	6.3	163	24	1.3
27	0.16	0.06	12	31	17	20	24	101	15	74	25	1.5
28	0.15	0.04	9.2	22	16	337	19	28	31	46	964	1.5
29	0.15	0.06	8.0	9.7	21	125	14	14	23	28	110	1.9
30	0.16	0.06	6.6	6.0	---	56	12	10	12	22	32	1.8
31	0.13	---	5.0	4.3	---	39	---	7.5	---	18	15	---
MEAN	0.49	0.08	16.0	8.62	43.1	231	21.3	33.8	69.5	199	50.5	3.00
MAX	1.4	0.14	87	51	424	2,870	70	168	758	1,950	964	8.5
MIN	0.13	0.04	0.01	1.9	4.5	17	12	5.3	2.9	4.0	2.7	1.3
AC-FT	30	4.8	983	530	2,480	14,170	1,270	2,080	4,140	12,260	3,110	179

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	1.85	2.68	24.9	3.98	42.4	75.5	48.1	74.4	70.2	41.0	18.2	18.3
MAX	4.62	10.4	105	8.62	106	231	103	275	161	199	50.5	77.1
(WY)	(2002)	(2000)	(2000)	(2004)	(2000)	(2004)	(2003)	(2002)	(2001)	(2004)	(2004)	(2001)
MIN	0.00	0.02	0.06	0.09	1.22	1.51	8.72	7.12	2.71	0.77	0.11	0.00
(WY)	(2001)	(2001)	(2001)	(2001)	(2003)	(2003)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)

06911490 SALT CREEK AT LYNDON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL MEAN	19.7		56.8		35.1	
HIGHEST ANNUAL MEAN					56.8	2004
LOWEST ANNUAL MEAN					18.6	2003
HIGHEST DAILY MEAN	1,390	Apr 24	2,870	Mar 5	2,870	Mar 5, 2004
LOWEST DAILY MEAN	0.00	Aug 23	0.01	Dec 4	0.00	Aug 25, 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 21	0.06	Nov 25	0.00	Aug 25, 2000
MAXIMUM PEAK FLOW			5,870	Mar 4	5,870	Mar 4, 2004
MAXIMUM PEAK STAGE			10.64	Mar 4	10.64	Mar 4, 2004
INSTANTANEOUS LOW FLOW			0.01	Dec 3	0.00	Aug 28, 2000
ANNUAL RUNOFF (AC-FT)	14,250		41,230		25,410	
10 PERCENT EXCEEDS	28		74		46	
50 PERCENT EXCEEDS	0.85		8.6		2.7	
90 PERCENT EXCEEDS	0.09		0.16		0.05	



06911900 DRAGOON CREEK NEAR BURLINGAME, KS

LOCATION.--Lat 38°42'38", long 95°50'09", in SE ¼ SE ¼ sec.27, T.15 S., R.14 E., Osage County, Hydrologic Unit 10290101, on left bank 110 ft downstream from city of Burlingame pumping station and dam, 0.2 mi downstream from bridge on U.S. Highway 56, 2.0 mi downstream from Plum Creek, and 3.0 mi south of Burlingame.

DRAINAGE AREA.--114 mi^2.

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0300	6,260	19.62	Jun 18	2100	4,580	17.83
Mar 28	1030	1,990	9.29	Jul 25	0130	*6,470	*19.73

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	0.18	0.20	0.55	4.6	5.1	223	56	14	6.1	46	31	16
2	0.09	0.34	0.68	5.0	5.9	105	49	15	5.4	215	25	12
3	0.12	0.33	1.6	4.9	6.1	51	43	16	5.4	229	21	9.0
4	0.29	0.34	7.4	4.9	6.1	1,620	38	14	5.0	66	17	6.8
5	0.29	0.28	11	5.0	6.5	3,590	36	13	6.9	39	15	6.9
6	0.14	0.24	6.5	4.4	6.9	327	34	12	18	90	13	75
7	e0.10	0.24	4.1	3.8	6.3	165	34	11	14	65	12	37
8	e0.19	0.19	3.1	3.7	5.4	103	33	10	9.3	44	12	15
9	0.46	0.16	4.0	3.7	5.2	77	31	9.2	8.5	455	13	9.2
10	0.37	0.31	4.7	3.6	5.3	61	28	9.9	132	241	12	7.1
11	0.55	0.52	9.1	3.8	5.7	50	27	11	84	81	13	5.9
12	0.38	0.44	8.8	4.2	5.6	42	26	14	29	89	11	5.2
13	0.28	0.52	7.1	4.3	4.9	38	26	22	68	32	9.5	4.6
14	0.31	0.48	5.9	4.6	4.9	38	27	134	40	23	9.0	4.2
15	0.27	0.57	5.5	4.9	5.3	39	27	114	41	18	8.9	4.9
16	0.17	0.58	25	5.2	5.1	44	27	38	56	15	8.7	6.5
17	0.16	0.69	30	6.3	5.0	38	27	23	32	13	9.0	6.2
18	0.15	0.71	27	10	40	33	27	128	2,350	12	8.8	4.8
19	0.24	0.72	23	13	387	29	26	109	946	12	8.2	4.5
20	0.29	0.71	14	8.5	230	26	30	48	138	11	9.6	4.3
21	0.24	0.66	11	6.7	100	22	34	28	81	9.4	8.8	4.0
22	0.19	0.69	11	6.0	48	21	32	19	69	9.1	8.2	3.9
23	0.21	0.70	21	5.4	34	20	27	14	46	36	18	4.1
24	0.23	0.54	13	5.4	25	21	34	12	34	2,390	250	4.0
25	0.13	0.49	9.2	8.1	20	22	54	10	27	2,770	96	3.9
26	0.15	0.73	7.8	50	17	22	43	9.6	22	184	35	4.3
27	0.13	0.81	7.5	26	14	24	27	9.7	191	111	42	3.7
28	0.18	0.82	7.2	14	13	922	21	8.4	472	73	585	3.6
29	0.13	0.66	6.3	8.6	19	197	17	8.1	94	54	103	3.3
30	0.14	0.61	5.3	6.3	---	101	15	7.9	48	45	38	3.3
31	0.16	---	5.0	5.2	---	69	---	6.9	---	38	23	---
MEAN	0.22	0.51	9.78	8.07	35.9	263	31.9	29.0	169	242	47.5	9.44
MAX	0.55	0.82	30	50	387	3,590	56	134	2,350	2,770	585	75
MIN	0.09	0.16	0.55	3.6	4.9	20	15	6.9	5.0	9.1	8.2	3.3
AC-FT	14	30	602	496	2,070	16,150	1,900	1,780	10,070	14,910	2,920	562

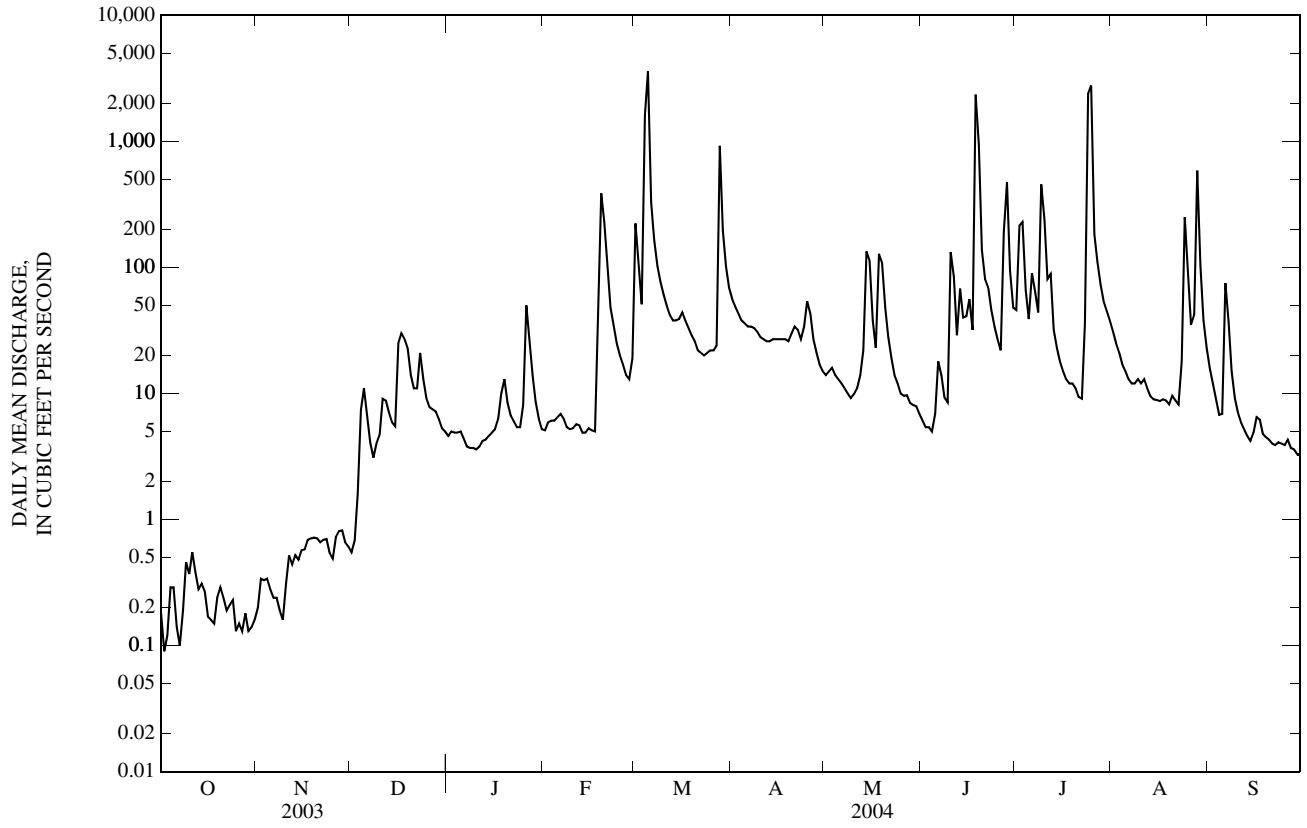
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	48.4	47.1	30.3	26.3	50.4	96.6	116	135	144	56.0	16.1	35.4
MAX	447	621	186	182	249	511	600	1,008	856	652	186	339
(WY)	(1986)	(1999)	(1974)	(1962)	(1985)	(1973)	(1983)	(1995)	(1977)	(1993)	(1968)	(1973)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00	0.01	0.00	0.00
(WY)	(1965)	(1967)	(1967)	(1977)	(1992)	(1967)	(1977)	(1989)	(1989)	(1991)	(1966)	(1966)

06911900 DRAGOON CREEK NEAR BURLINGAME, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1961 - 2004	
ANNUAL MEAN	33.8		70.9		66.7	
HIGHEST ANNUAL MEAN					175	1999
LOWEST ANNUAL MEAN					5.54	1989
HIGHEST DAILY MEAN	2,340	Apr 20	3,590	Mar 5	13,400	May 29, 1982
LOWEST DAILY MEAN	0.00	Aug 20	0.09	Oct 2	0.00	Aug 14, 1962
ANNUAL SEVEN-DAY MINIMUM	0.03	Aug 22	0.15	Oct 25	0.00	Aug 14, 1962
MAXIMUM PEAK FLOW			6,470	Jul 25	34,400	May 29, 1982
MAXIMUM PEAK STAGE			19.73	Jul 25	22.80	May 17, 1995
INSTANTANEOUS LOW FLOW			0.07	Oct 2	0.00	many years
ANNUAL RUNOFF (AC-FT)	24,470		51,500		48,320	
10 PERCENT EXCEEDS	31		91		91	
50 PERCENT EXCEEDS	1.6		11		7.7	
90 PERCENT EXCEEDS	0.16		0.34		0.00	

e Estimated



06912490 POMONA LAKE NEAR QUENEMO, KS

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

DRAINAGE AREA.--322 mi^2.

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

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

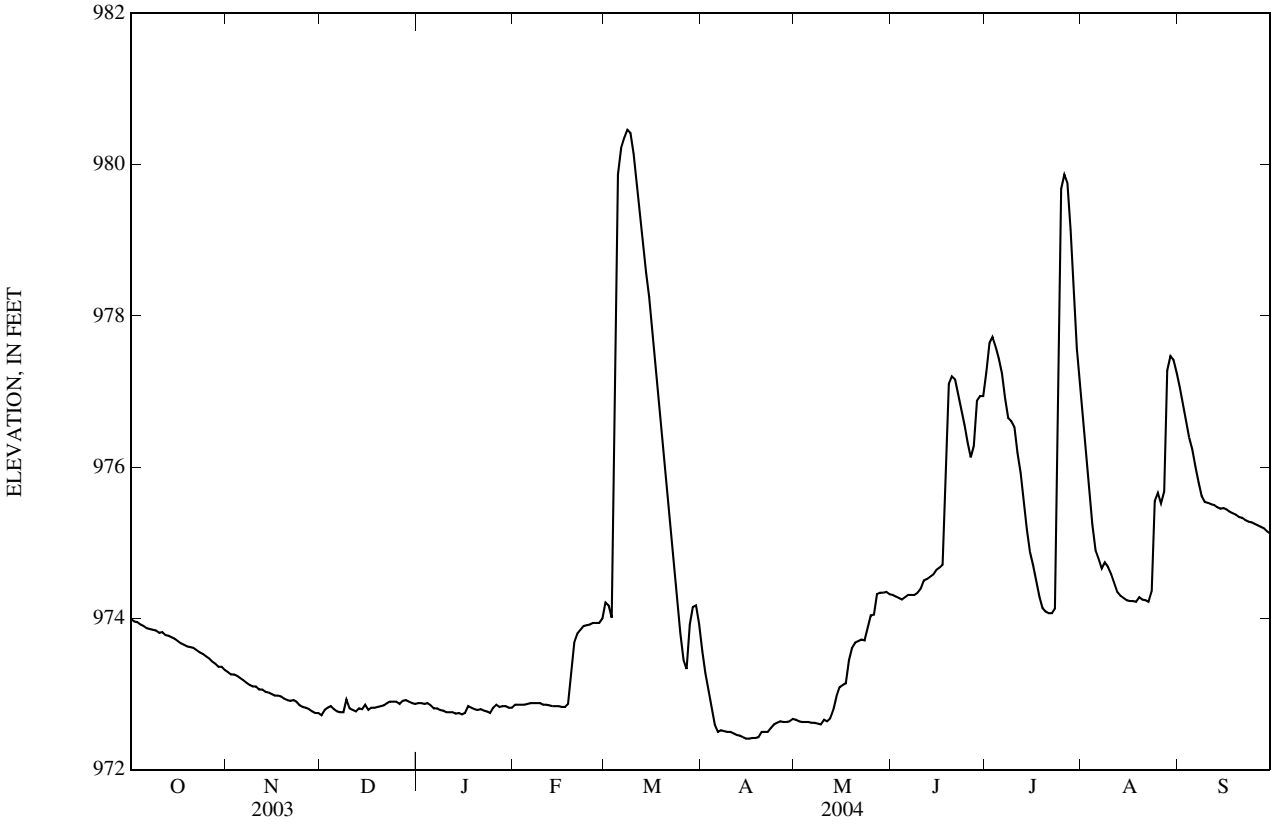
REMARKS.--Reservoir is formed by compacted earthfill dam. Storage began Oct. 18, 1963. Conservation pool elevation was first reached on June 4, 1965. Total capacity, 498,500 acre-ft, consisting of the following: Sedimentation, 25,610 acre-ft below elevation 960.5 ft; conservation pool, 41,030 acre-ft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

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

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 977.87 ft, June 26, contents, 80,260 acre-ft; minimum elevation, 970.57 ft, Apr. 18, contents, 51,760 acre-ft.

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

Elevation	Contents	Elevation	Contents	Elevation	Contents
965	34,440	975	68,150	980	90,000
970	49,820				



06912490 POMONA LAKE NEAR QUENEMO, 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	973.99	973.29	972.72	972.88	972.86	974.21	e973.57	972.66	974.31	977.25	976.66	977.06
2	973.96	973.26	972.79	972.88	972.86	974.17	973.28	972.64	974.29	977.64	976.20	976.84
3	973.95	973.26	972.82	972.87	972.86	974.01	973.06	972.63	974.27	977.72	975.73	976.62
4	973.92	973.24	972.84	972.88	972.86	976.75	972.84	972.63	974.25	977.59	975.24	976.39
5	973.90	973.21	972.80	972.85	972.87	979.87	972.60	972.63	974.28	977.44	974.90	976.24
6	973.87	973.18	972.77	972.81	972.88	980.22	972.50	972.62	974.31	977.24	974.79	976.01
7	973.86	973.15	972.76	972.81	972.88	980.35	972.52	972.62	974.31	976.92	974.66	975.80
8	973.85	973.12	972.76	972.79	972.88	980.46	972.51	972.61	974.31	976.65	974.74	975.62
9	973.84	973.10	972.93	972.78	972.88	980.42	972.50	972.60	974.34	976.61	974.68	975.54
10	973.81	973.10	972.81	972.76	972.86	980.14	972.50	972.66	974.39	976.53	974.59	975.53
11	973.82	973.06	972.79	972.76	972.86	979.75	972.48	972.64	974.50	976.19	974.47	975.51
12	973.78	973.06	972.77	972.76	972.85	979.35	972.46	972.68	974.52	975.92	974.35	975.50
13	973.77	973.03	972.81	972.74	972.84	978.98	972.45	972.79	974.55	975.56	974.30	975.47
14	973.75	973.02	972.80	972.75	972.84	978.57	972.43	972.97	974.58	975.17	974.27	975.45
15	973.73	973.00	972.86	972.73	972.84	978.25	972.41	973.09	974.64	974.88	974.24	975.46
16	973.70	972.98	972.79	972.75	972.83	977.80	972.41	973.12	974.67	974.70	974.23	975.44
17	973.67	972.98	972.82	972.84	972.83	977.40	972.42	973.14	974.71	974.50	974.23	975.41
18	973.65	972.97	972.82	972.82	972.87	976.97	972.42	973.45	976.11	974.29	974.22	975.39
19	973.63	972.94	972.83	972.80	973.29	976.54	972.43	973.61	977.10	974.14	974.28	975.37
20	973.62	972.92	972.84	972.79	973.68	976.12	972.50	973.68	977.20	974.09	974.25	975.34
21	973.61	972.91	972.85	972.80	973.80	975.65	972.50	973.70	977.16	974.07	974.24	975.33
22	973.58	972.92	972.88	972.78	973.85	975.19	972.50	973.72	976.96	974.07	974.22	975.30
23	973.55	972.90	972.90	972.77	973.90	974.70	972.55	973.71	976.76	974.13	974.36	975.28
24	973.53	972.85	972.90	972.75	973.91	974.25	972.60	973.88	976.56	977.21	975.55	975.27
25	973.50	972.83	972.90	972.82	973.92	973.80	972.62	974.04	976.33	979.68	975.66	975.25
26	973.47	972.82	972.87	972.86	973.94	973.45	972.64	974.05	976.13	979.87	975.52	975.23
27	973.43	972.80	972.91	972.83	973.94	973.33	972.63	974.32	976.28	979.76	975.68	975.21
28	973.40	972.77	972.92	972.84	973.94	973.92	972.63	974.34	976.88	979.14	977.28	975.19
29	973.36	972.75	972.90	972.84	974.00	974.15	972.64	974.34	976.94	978.26	977.47	975.15
30	973.36	972.75	972.88	972.82	---	974.17	972.67	974.35	976.94	977.57	977.42	975.12
31	973.32	---	972.87	972.82	---	e973.93	---	974.32	---	977.12	977.25	---
MEAN	973.68	973.01	972.84	972.81	973.23	976.67	972.61	973.30	975.42	976.51	975.15	975.61
MAX	973.99	973.29	972.93	972.88	974.00	980.46	973.57	974.35	977.20	979.87	977.47	977.06
MIN	973.32	972.75	972.72	972.73	972.83	973.33	972.41	972.60	974.25	974.07	974.22	975.12
(+)	61,630	59,510	59,940	59,760	64,210	63,940	59,210	65,470	76,210	76,990	77,560	68,640
(#)	-2,660	-2,120	+430	-180	+4,450	-270	-4,730	+6,260	-10,740	+780	+570	-8,920

CAL YR 2003 ..... (#) +4,600
WTR YR 2004 ..... (#) +4,350

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

e Estimated

06912500 HUNDRED AND TEN MILE CREEK NEAR QUENEMO, KS

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

DRAINAGE AREA.--322 mi^2.

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

REVISED RECORDS.--WSP 1116: 1942.

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	26	18	19	18	17	854	18	17	119	995	474
2	27	26	19	19	17	268	679	18	17	299	992	491
3	27	26	19	19	15	484	470	18	17	475	991	487
4	28	27	17	19	15	e198	469	18	17	471	991	489
5	27	26	18	19	15	e31	468	18	17	470	631	487
6	27	26	18	19	14	e28	266	17	17	694	219	488
7	27	26	18	19	15	24	47	17	17	898	220	483
8	27	26	18	19	15	23	47	17	17	893	235	397
9	27	26	18	19	15	194	47	17	17	897	224	157
10	27	26	18	19	15	911	47	18	17	894	219	16
11	27	26	18	19	15	1,100	48	17	17	884	221	16
12	27	26	18	19	15	1,080	48	17	17	878	220	16
13	26	26	18	19	15	1,070	48	19	18	884	108	16
14	27	26	17	19	15	1,070	48	20	18	869	16	16
15	26	26	17	19	15	1,060	49	18	18	617	16	16
16	26	26	17	18	15	1,050	31	18	18	383	16	16
17	26	26	17	19	15	1,030	17	18	18	381	16	16
18	26	26	17	19	17	1,030	18	22	e19	380	16	16
19	26	25	17	18	17	1,030	18	19	19	302	16	17
20	26	26	17	18	18	1,020	19	18	19	86	16	16
21	26	23	17	18	17	1,020	19	18	307	21	16	16
22	24	17	18	18	17	1,010	19	18	487	21	16	16
23	24	17	18	19	16	1,010	19	18	478	22	e17	16
24	24	17	18	19	16	1,000	20	21	475	e22	e17	16
25	25	17	18	19	17	1,000	19	24	472	e22	280	16
26	25	17	18	18	16	734	18	18	393	22	451	16
27	24	17	18	19	16	479	18	24	104	504	477	16
28	24	17	18	19	16	277	19	18	103	1,560	178	17
29	25	17	18	19	17	17	19	18	103	2,150	18	17
30	26	18	18	18	---	128	18	18	104	1,670	289	17
31	26	---	19	18	---	631	---	17	---	1,000	464	---
MEAN	26.3	23.2	17.8	18.7	15.8	646	131	18.5	113	606	277	143
MAX	34	27	19	19	18	1,100	854	24	487	2,150	995	491
MIN	24	17	17	18	14	17	17	17	17	21	16	16
AC-FT	1,610	1,380	1,090	1,150	910	39,720	7,790	1,140	6,700	37,270	17,060	8,520

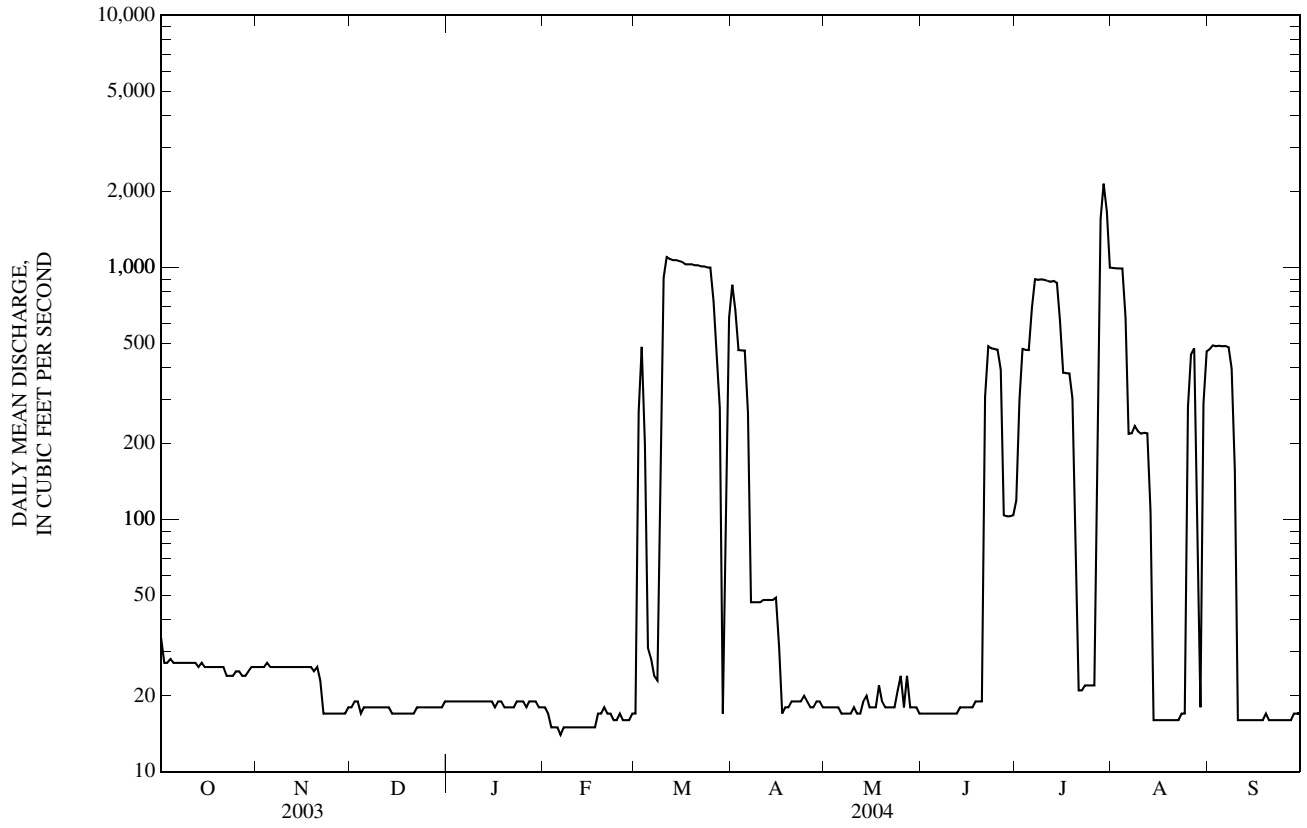
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	130	136	120	84.1	107	203	273	268	371	291	92.0	83.6
MAX	1,196	1,520	1,113	506	847	984	2,476	1,645	2,141	3,096	1,296	1,331
(WY)	(1942)	(1999)	(1999)	(1962)	(1973)	(1987)	(1944)	(1999)	(1982)	(1951)	(1993)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.03	5.04	1.22	0.02	0.00	0.00
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1940)	(1954)	(1954)	(1953)	(1954)	(1940)	(1953)

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL MEAN	63.0		171		180	
HIGHEST ANNUAL MEAN					554	1999
LOWEST ANNUAL MEAN					3.65	1956
HIGHEST DAILY MEAN	747	Jun 29	2,150	Jul 29	27,700	Jul 11, 1951
LOWEST DAILY MEAN	12	Jul 23	14	Feb 6	0.00	Oct 1, 1939
ANNUAL SEVEN-DAY MINIMUM	12	Jul 22	15	Feb 3	0.00	Oct 1, 1939
MAXIMUM PEAK FLOW			2,170	Jul 29	38,600	Jul 11, 1951
MAXIMUM PEAK STAGE			9.90	Jul 29	28.47	Jul 11, 1951
INSTANTANEOUS LOW FLOW			14	Feb 6	0.00	some years
ANNUAL RUNOFF (AC-FT)	45,600		124,300		130,300	
10 PERCENT EXCEEDS	111		645		436	
50 PERCENT EXCEEDS	25		19		20	
90 PERCENT EXCEEDS	15		16		1.4	

e Estimated



06913000 MARAIS DES CYGNES RIVER NEAR POMONA, KS

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

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

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

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

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

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

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

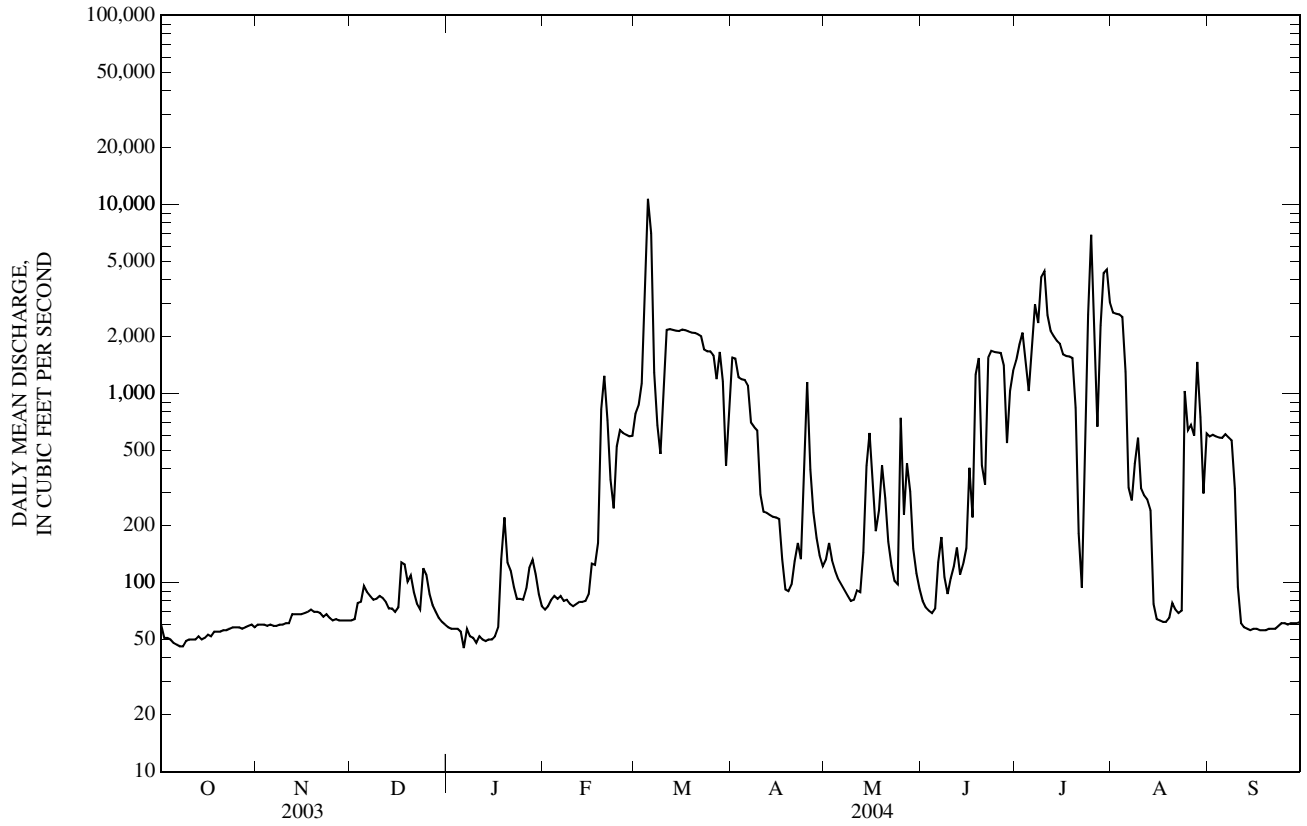
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	60	63	58	72	782	1,550	132	80	1,500	2,680	593
2	51	60	64	57	75	868	1,530	162	74	1,820	2,640	604
3	51	60	78	57	81	1,130	1,220	131	71	2,100	2,620	593
4	50	59	79	57	85	3,400	1,190	115	69	1,440	2,540	585
5	48	60	96	55	82	10,700	1,180	104	73	1,030	1,300	583
6	47	59	89	45	85	7,040	1,100	97	128	1,720	318	609
7	46	59	85	57	80	1,290	702	91	174	2,960	272	586
8	46	60	81	52	81	680	665	85	107	2,360	426	566
9	49	60	82	51	77	479	638	80	87	4,130	584	315
10	50	61	85	48	75	1,160	292	81	105	4,440	316	95
11	50	61	83	52	77	2,170	237	91	122	2,600	289	61
12	50	68	79	50	79	2,190	234	89	153	2,140	275	58
13	52	68	73	49	79	2,170	228	144	110	2,010	242	57
14	50	68	73	50	80	2,150	223	414	125	1,900	77	56
15	51	68	70	50	87	2,140	221	619	152	1,830	64	57
16	53	69	74	52	126	2,180	217	315	405	1,610	63	57
17	52	70	128	58	124	2,160	133	187	221	1,580	62	56
18	55	72	125	133	162	2,130	92	241	1,260	1,570	62	56
19	55	70	101	221	827	2,100	90	417	1,540	1,540	65	56
20	55	70	109	128	1,240	2,090	98	280	417	838	78	57
21	56	69	89	116	723	2,060	130	164	330	182	72	57
22	56	66	77	95	350	2,010	162	123	1,550	94	69	57
23	57	68	72	82	247	1,710	133	102	1,680	341	71	59
24	58	65	119	82	525	1,670	353	98	1,660	2,610	1,030	61
25	58	63	110	81	639	1,670	1,150	743	1,650	6,900	639	61
26	58	64	87	93	619	1,590	397	229	1,640	2,170	683	60
27	57	63	76	120	606	1,190	235	427	1,410	668	599	61
28	58	63	70	132	594	1,660	172	303	547	2,290	1,470	61
29	59	63	65	111	598	1,160	139	151	1,030	4,330	751	61
30	60	63	62	87	---	416	122	112	1,320	4,520	296	62
31	58	---	60	75	---	868	---	93	---	3,040	615	---
MEAN	53.4	64.3	84.0	79.2	296	2,097	494	207	610	2,202	686	210
MAX	60	72	128	221	1,240	10,700	1,550	743	1,680	6,900	2,680	609
MIN	46	59	60	45	72	416	90	80	69	94	62	56
AC-FT	3,280	3,830	5,170	4,870	17,010	129,000	29,420	12,730	36,280	135,400	42,190	12,500

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

MEAN	381	586	434	270	410	638	912	992	1,338	643	240	221
MAX	4,204	6,256	3,275	1,342	2,224	3,772	3,722	4,717	5,587	3,206	2,807	1,436
(WY)	(1986)	(1999)	(1999)	(1973)	(1973)	(1973)	(1984)	(1999)	(1982)	(1969)	(1993)	(1973)
MIN	0.29	1.00	0.87	1.00	1.32	1.87	8.00	59.3	8.93	0.42	0.00	0.87
(WY)	(1938)	(1938)	(1938)	(1938)	(1938)	(1934)	(1936)	(2000)	(1936)	(1936)	(1934)	(1931)

06913000 MARAIS DES CYGNES RIVER NEAR POMONA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1923 - 2004	
ANNUAL MEAN	231		595		592	
HIGHEST ANNUAL MEAN					2,092	1999
LOWEST ANNUAL MEAN					55.6	1934
HIGHEST DAILY MEAN	8,270	Sep 1	10,700	Mar 5	40,600	Nov 2, 1998
LOWEST DAILY MEAN	29	Aug 10	45	Jan 6	0.00	Jul 27, 1926
ANNUAL SEVEN-DAY MINIMUM	32	Aug 8	48	Oct 4	0.00	Jul 16, 1934
MAXIMUM PEAK FLOW			11,300	Mar 5	69,400	Nov 17, 1928
MAXIMUM PEAK STAGE			27.15	Mar 5	38.38	Nov 17, 1928
INSTANTANEOUS LOW FLOW			27	Jan 6	0.00	many years
ANNUAL RUNOFF (AC-FT)	166,900		431,600		428,600	
10 PERCENT EXCEEDS	630		1,820		1,660	
50 PERCENT EXCEEDS	67		110		78	
90 PERCENT EXCEEDS	39		57		8.0	



06913500 MARAIS DES CYGNES RIVER NEAR OTTAWA, KS

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

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

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

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	1400	*12,000	*30.49	Jul 25	1045	11,200	29.21

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	73	53	60	64	e80	755	1,330	137	96	1,380	2,740	618
2	65	54	61	63	e80	910	1,470	159	82	2,580	2,680	607
3	60	57	82	62	e90	1,120	1,210	143	72	2,430	2,660	594
4	60	58	75	63	96	3,780	1,130	118	64	1,820	2,640	576
5	58	57	86	57	e95	11,600	1,110	106	90	1,070	1,720	578
6	57	53	88	44	93	10,800	1,080	95	166	1,160	504	648
7	57	53	82	53	e90	3,230	759	86	178	3,120	283	588
8	56	52	81	52	e90	874	640	77	124	2,350	295	560
9	59	54	86	51	86	589	630	74	101	3,470	803	390
10	58	56	88	48	89	808	404	96	153	4,400	392	177
11	60	59	82	49	85	2,020	238	91	192	3,080	315	72
12	58	61	76	52	e85	2,240	237	90	181	2,290	295	64
13	59	64	73	52	e85	2,210	230	151	140	2,150	281	57
14	59	66	69	51	81	2,190	221	441	109	2,010	138	54
15	57	62	69	52	e90	2,200	211	695	174	1,930	73	57
16	58	62	75	54	e100	2,210	207	455	329	1,580	68	55
17	58	66	100	72	119	2,200	162	233	307	1,490	64	52
18	55	69	138	91	131	2,170	90	294	1,240	1,470	61	50
19	56	65	114	252	485	2,140	79	585	2,070	1,460	62	48
20	55	65	105	153	1,320	2,120	108	416	679	1,050	65	50
21	55	66	108	135	1,090	2,090	129	222	298	332	67	51
22	54	66	88	108	503	2,070	154	152	1,120	108	60	51
23	55	68	83	89	310	1,740	146	117	1,560	607	67	48
24	56	60	94	92	387	1,570	214	133	1,530	3,800	1,170	46
25	54	57	134	94	683	1,560	1,170	2,340	1,500	10,500	1,280	45
26	52	57	101	100	666	1,550	548	572	1,480	5,280	1,220	44
27	54	57	85	e90	651	1,190	292	717	1,610	841	726	44
28	57	57	77	e90	638	1,500	202	615	2,450	1,750	3,860	43
29	55	57	74	e90	642	1,680	156	250	866	3,700	2,010	42
30	53	57	69	e85	---	571	134	159	1,300	4,280	395	43
31	53	---	63	e85	---	630	---	118	---	3,400	604	---
MEAN	57.3	59.6	86.0	80.4	312	2,333	490	321	675	2,480	890	212
MAX	73	69	138	252	1,320	11,600	1,470	2,340	2,450	10,500	3,860	648
MIN	52	52	60	44	80	571	79	74	64	108	60	42
AC-FT	3,520	3,550	5,290	4,940	17,930	143,400	29,140	19,710	40,190	152,500	54,740	12,600

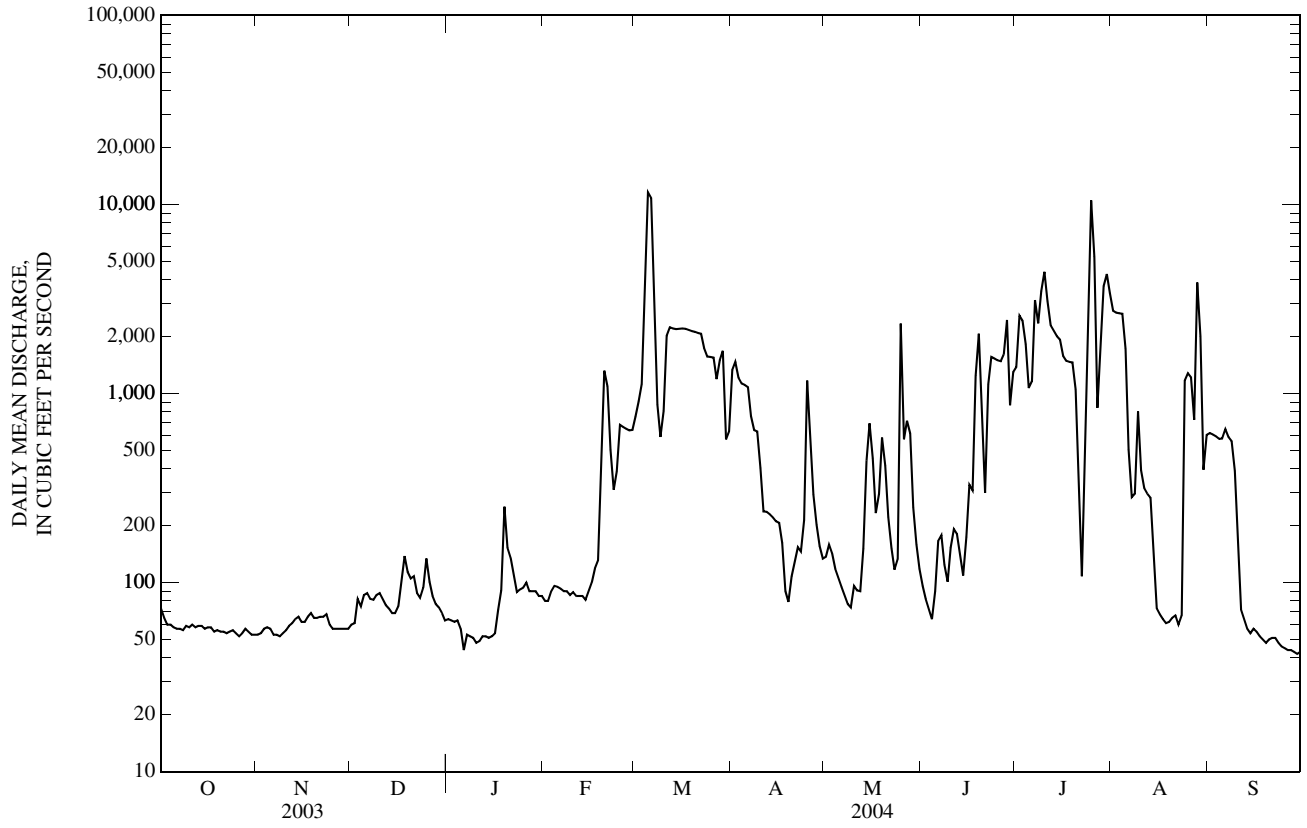
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2004, BY WATER YEAR (WY)

MEAN	511	563	397	299	417	769	1,103	1,116	1,459	856	335	411
MAX	6,546	6,913	3,820	2,011	2,578	4,422	8,859	5,170	6,143	13,580	3,683	4,581
(WY)	(1942)	(1999)	(1945)	(1941)	(1949)	(1973)	(1944)	(1904)	(1904)	(1951)	(1950)	(1951)
MIN	0.03	0.33	0.06	0.23	1.14	1.88	9.52	51.6	7.87	0.19	0.52	0.00
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1956)	(1956)	(1965)	(1936)	(1940)	(1936)	(1939)

06913500 MARAIS DES CYGNES RIVER NEAR OTTAWA, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1903 - 2004	
ANNUAL MEAN	241		672		690	
HIGHEST ANNUAL MEAN					2,332	1999
LOWEST ANNUAL MEAN					26.0	1956
HIGHEST DAILY MEAN	7,460	Sep 1	11,600	Mar 5	134,000	Jul 12, 1951
LOWEST DAILY MEAN	23	Jul 25	42	Sep 29	0.00	Jun 27, 1920
ANNUAL SEVEN-DAY MINIMUM	27	Aug 21	44	Sep 24	0.00	Jul 1, 1933
MAXIMUM PEAK FLOW			12,000	Mar 5	142,000	Jul 11, 1951
MAXIMUM PEAK STAGE			30.49	Mar 5	42.50	Jul 11, 1951
INSTANTANEOUS LOW FLOW			34	Jan 6	0.00	at times
ANNUAL RUNOFF (AC-FT)	174,500		487,600		499,900	
10 PERCENT EXCEEDS	646		2,080		1,640	
50 PERCENT EXCEEDS	66		118		94	
90 PERCENT EXCEEDS	37		54		4.0	

e Estimated



06914100 POTTAWATOMIE CREEK NEAR SCIPIO, KS

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

DRAINAGE AREA.--343 mi^2.

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

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0700	*7,380	*26.60	No other 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	e4.6	e0.80	e1.7	30	32	47	203	103	21	272	38	1.2
2	e4.4	e0.75	e2.0	27	33	86	169	95	13	439	35	0.86
3	e4.2	e0.75	e3.0	25	31	88	135	88	9.6	2,370	32	0.63
4	e4.0	e0.70	e4.0	24	31	2,110	110	75	7.1	762	27	0.52
5	e3.7	e0.70	e4.0	22	31	6,840	93	65	5.9	297	23	1.5
6	e3.5	e0.65	e3.8	19	31	4,740	80	56	5.2	444	18	36
7	e3.3	e0.70	e3.7	17	29	1,810	72	51	4.3	399	14	18
8	e3.0	e0.70	e3.6	16	28	1,290	64	44	3.4	199	11	6.7
9	e2.8	e0.75	e5.0	14	26	1,090	57	39	8.4	153	8.9	3.8
10	e2.6	e0.75	e10	11	25	556	55	35	755	116	6.9	3.0
11	e2.4	e0.80	e12	10	28	252	61	34	1,120	128	6.6	2.4
12	e2.3	e0.80	e12	9.0	33	188	60	34	345	90	5.5	2.1
13	e2.2	e0.85	e13	8.4	38	149	60	40	221	60	5.3	1.6
14	e2.1	e0.90	e14	8.0	45	119	53	74	215	45	6.0	1.3
15	e2.0	e0.95	e15	7.6	46	108	47	151	207	35	6.4	2.7
16	e2.0	e1.0	e30	7.9	47	119	42	139	149	31	6.8	4.5
17	e1.9	e1.5	137	14	52	128	39	93	1,660	28	5.8	2.7
18	e1.8	e1.0	98	141	57	109	37	78	3,880	23	5.6	1.8
19	e1.7	e1.5	70	238	113	91	34	68	1,670	20	6.4	1.1
20	e1.6	e1.5	54	153	188	81	38	54	377	15	12	0.76
21	e1.5	e1.4	46	120	170	69	262	45	232	12	13	0.61
22	e1.4	e1.5	40	97	130	61	253	38	186	9.1	12	0.53
23	e1.3	e1.8	37	76	106	56	180	33	140	11	12	0.50
24	e1.2	e1.7	35	64	80	52	974	28	99	423	38	0.53
25	e1.1	e1.6	34	61	66	49	1,970	25	73	1,700	31	0.51
26	e1.0	e1.6	37	65	56	47	532	23	50	255	27	0.46
27	e0.95	e1.7	35	60	50	46	250	26	78	162	9.9	0.42
28	e0.90	e1.7	33	63	45	1,370	190	41	147	105	4.5	0.41
29	e0.85	e1.6	32	53	42	1,580	145	38	85	72	2.8	0.40
30	e0.85	e1.6	32	42	---	472	115	34	57	57	1.9	0.50
31	e0.80	---	31	36	---	260	---	27	---	45	1.5	---
MEAN	2.19	1.14	28.6	49.6	58.2	776	213	57.2	394	283	14.0	3.27
MAX	4.6	1.8	137	238	188	6,840	1,970	151	3,880	2,370	38	36
MIN	0.80	0.65	1.7	7.6	25	46	34	23	3.4	9.1	1.5	0.40
AC-FT	135	68	1,760	3,050	3,350	47,730	12,650	3,520	23,450	17,410	860	194

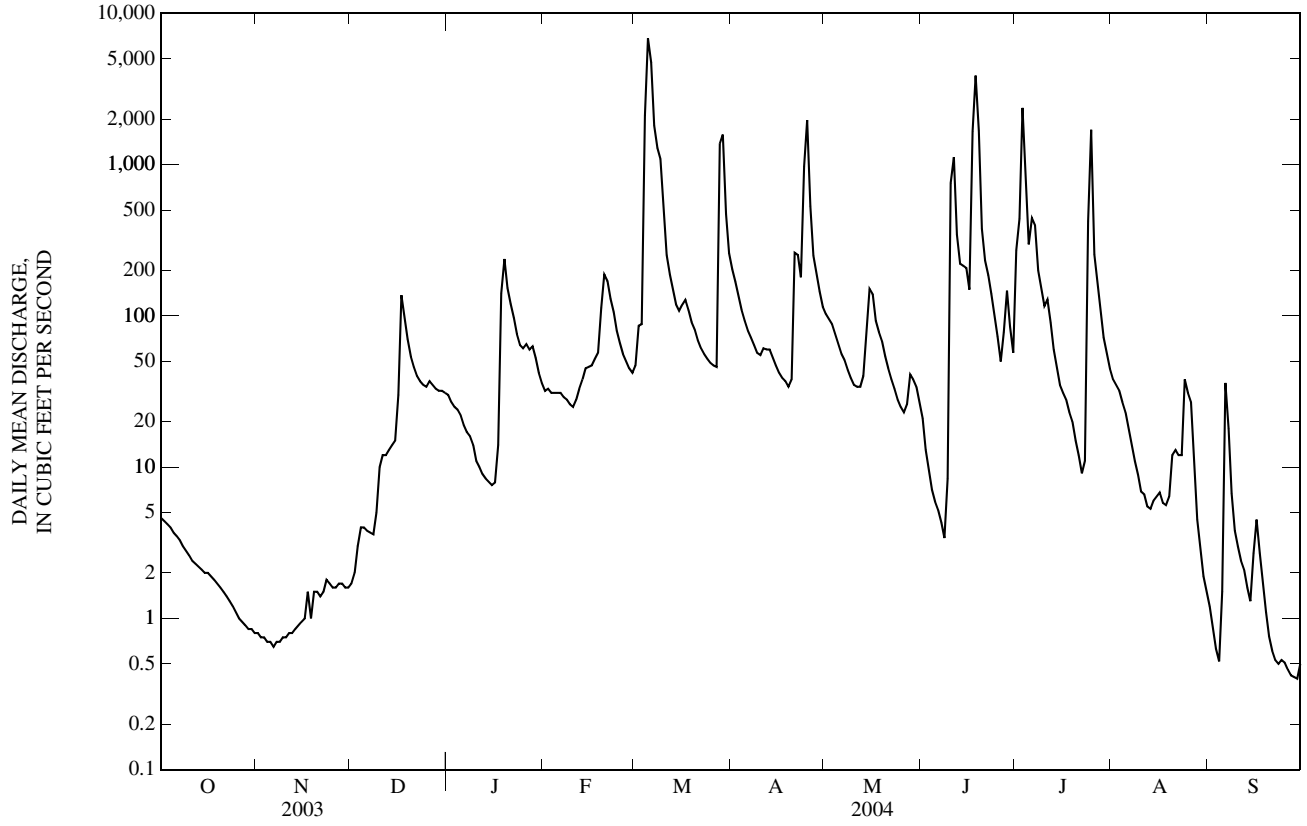
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	2.33	0.93	9.99	17.1	33.6	268	136	443	247	106	27.9	102
MAX	4.54	1.33	28.6	49.6	58.2	776	213	1,047	394	283	67.7	301
(WY)	(2002)	(2002)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2004)	(2004)	(2003)	(2003)
MIN	0.26	0.31	0.25	0.32	3.65	12.2	57.9	57.2	53.8	11.4	1.96	0.48
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2004)	(2003)	(2003)	(2002)	(2002)

06914100 POTTAWATOMIE CREEK NEAR SCIPIO, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL MEAN	64.1		157		117	
HIGHEST ANNUAL MEAN					157	2004
LOWEST ANNUAL MEAN					61.5	2003
HIGHEST DAILY MEAN	5,650	Sep 1	6,840	Mar 5	6,840	Mar 5, 2004
LOWEST DAILY MEAN	0.00	Aug 21	0.40	Sep 29	0.00	Aug 21, 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 21	0.46	Sep 23	0.00	Aug 21, 2003
MAXIMUM PEAK FLOW			7,380	Mar 5	7,380	Mar 5, 2004
MAXIMUM PEAK STAGE			26.60	Mar 5	26.60	Mar 5, 2004
INSTANTANEOUS LOW FLOW			0.35	Sep 28	0.00	Jul 28, 2003
ANNUAL RUNOFF (AC-FT)	46,420		114,200		84,530	
10 PERCENT EXCEEDS	94		234		158	
50 PERCENT EXCEEDS	2.1		32		5.2	
90 PERCENT EXCEEDS	0.05		1.0		0.25	

e Estimated



06914950 BIG BULL CREEK NEAR EDGERTON, KS

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

DRAINAGE AREA.--28.7 mi^2.

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

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

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

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

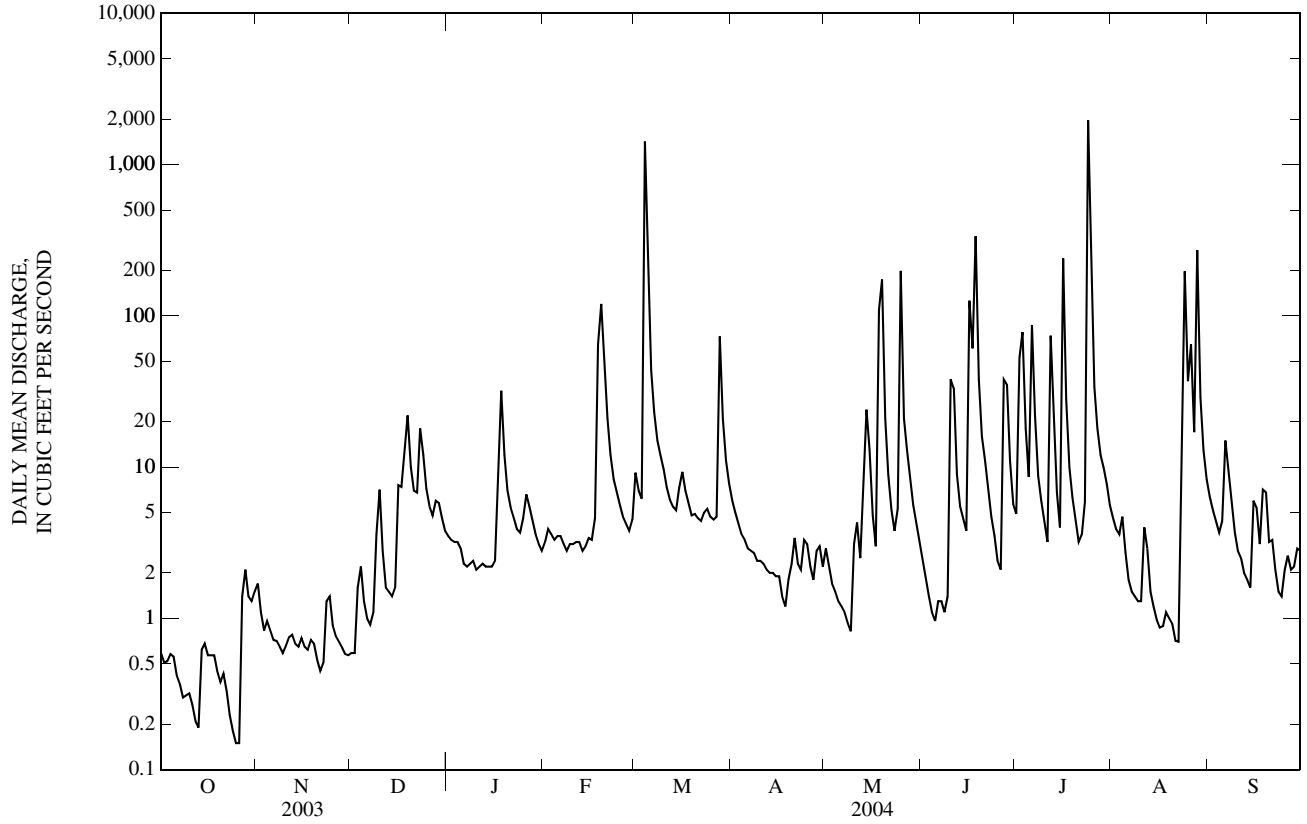
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.59	1.7	0.59	3.5	3.2	9.2	6.0	2.9	2.5	4.9	4.6	6.4
2	0.51	1.1	0.59	3.3	3.9	7.0	5.0	2.2	1.9	53	3.9	5.2
3	0.52	0.83	1.6	3.2	3.6	6.2	4.2	1.7	1.4	78	3.6	4.4
4	0.58	0.96	2.2	3.2	3.3	1,420	3.6	1.5	1.1	18	4.7	3.7
5	0.56	0.83	1.3	2.9	3.5	225	3.3	1.3	0.96	8.6	2.7	4.4
6	0.42	0.72	1.0	2.3	3.5	44	2.9	1.2	1.3	87	1.8	15
7	0.37	0.71	0.91	2.2	3.1	23	2.8	1.1	1.3	22	1.5	8.8
8	0.30	0.65	1.1	2.3	2.8	15	2.7	0.93	1.1	8.7	1.4	5.6
9	0.31	0.59	3.6	2.4	3.1	12	2.4	0.82	1.4	6.0	1.3	3.7
10	0.32	0.66	7.1	2.1	3.1	9.7	2.4	3.1	38	4.4	1.3	2.8
11	0.27	0.75	2.8	2.2	3.2	7.4	2.3	4.3	33	3.2	4.0	2.5
12	0.21	0.78	1.6	2.3	3.2	6.1	2.1	2.5	9.0	74	2.9	2.0
13	0.19	0.68	1.5	2.2	2.8	5.5	2.0	8.8	5.5	18	1.5	1.8
14	0.62	0.65	1.4	2.2	3.0	5.2	2.0	24	4.6	6.8	1.2	1.6
15	0.68	0.74	1.6	2.2	3.4	7.3	1.9	13	3.8	4.0	0.98	6.0
16	0.57	0.65	7.6	2.4	3.3	9.3	1.9	4.8	126	240	0.87	5.4
17	0.57	0.62	7.4	9.4	4.6	7.0	1.4	3.0	61	28	0.89	3.1
18	0.57	0.72	13	32	65	5.8	1.2	110	336	10	1.1	7.1
19	0.45	0.68	22	12	120	4.8	1.8	174	38	6.3	1.0	6.8
20	0.38	0.53	10	7.0	56	4.9	2.3	21	16	4.4	0.92	3.2
21	0.43	0.45	7.0	5.4	21	4.6	3.4	8.9	11	3.2	0.71	3.3
22	0.33	0.51	6.8	4.6	12	4.4	2.3	5.2	7.0	3.6	0.70	2.1
23	0.23	1.3	18	3.9	8.3	5.0	2.1	3.8	4.7	5.9	20	1.5
24	0.18	1.4	12	3.7	6.9	5.3	3.3	5.3	3.5	1,960	197	1.4
25	0.15	0.90	7.2	4.6	5.6	4.7	3.1	198	2.4	149	37	2.1
26	0.15	0.76	5.5	6.6	4.7	4.5	2.2	21	2.1	34	65	2.6
27	1.4	0.70	4.8	5.5	4.2	4.7	1.8	13	38	18	17	2.1
28	2.1	0.64	6.0	4.4	3.8	73	2.8	8.5	35	12	272	2.2
29	1.4	0.58	5.8	3.6	4.5	21	3.0	5.6	11	9.9	29	2.9
30	1.3	0.57	4.6	3.1	---	11	2.2	4.3	5.7	7.7	13	2.8
31	1.5	---	3.8	2.8	---	7.8	---	3.3	---	5.6	8.3	---
MEAN	0.59	0.78	5.50	4.82	12.7	63.9	2.68	21.3	26.8	93.4	22.6	4.08
MAX	2.1	1.7	22	32	120	1,420	6.0	198	336	1,960	272	15
MIN	0.15	0.45	0.59	2.1	2.8	4.4	1.2	0.82	0.96	3.2	0.70	1.4
AC-FT	36	46	338	297	731	3,930	159	1,310	1,600	5,740	1,390	243

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

MEAN	15.6	23.9	10.3	4.53	17.3	19.8	33.8	52.2	35.2	14.8	7.71	13.2
MAX	107	139	38.7	14.3	69.0	63.9	119	246	74.9	93.4	24.5	91.8
(WY)	(1999)	(1999)	(1998)	(1999)	(1997)	(2004)	(1994)	(1995)	(1996)	(2004)	(2003)	(1998)
MIN	0.30	0.66	0.46	0.60	0.74	0.73	1.32	2.80	5.29	0.31	0.73	0.59
(WY)	(2003)	(2003)	(2003)	(2003)	(1996)	(1996)	(1996)	(2003)	(2003)	(2003)	(2000)	(1995)

06914950 BIG BULL CREEK NEAR EDGERTON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL MEAN	4.76		21.8		20.7	
HIGHEST ANNUAL MEAN					45.8	1999
LOWEST ANNUAL MEAN					4.29	2003
HIGHEST DAILY MEAN	759	Aug 31	1,960	Jul 24	2,520	May 17, 1995
LOWEST DAILY MEAN	0.00	Jul 8	0.15	Oct 25	0.00	Sep 11, 1997
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 28	0.26	Oct 20	0.00	Jul 28, 2003
MAXIMUM PEAK FLOW			4,810	Jul 24	5,790	May 17, 1995
MAXIMUM PEAK STAGE			14.35	Jul 24	15.55	May 17, 1995
INSTANTANEOUS LOW FLOW			0.11	Oct 26	0.00	Sep 11, 1997
ANNUAL RUNOFF (AC-FT)	3,440		15,810		14,970	
10 PERCENT EXCEEDS	6.3		22		21	
50 PERCENT EXCEEDS	0.68		3.3		2.4	
90 PERCENT EXCEEDS	0.01		0.65		0.45	



06914990 LITTLE BULL CREEK NEAR SPRING HILL, KS

LOCATION.--Lat 38°45'11", long 94°52'10", in NW ¼ NW ¼ NW ¼ sec.16, T.15 S., R.23 E., Johnson County, Hydrologic Unit 10290102, located on right bank at downstream side of county highway bridge, 0.3 mi west of intersection of 207th Street and Clare Road, 4 mi south and 3.2 mi east of Gardner.

DRAINAGE AREA.--8.81 mi^2, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 925.244 ft above NGVD of 1929.

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	0.80	0.40	1.7	e1.4	3.9	5.9	0.65	1.4	1.7	7.2	8.0
2	1.4	0.77	0.45	1.6	e1.6	2.7	4.1	0.32	1.2	25	8.2	4.7
3	1.1	0.76	5.5	1.6	e1.7	3.2	3.1	0.26	1.0	12	8.7	5.2
4	1.1	1.6	1.8	1.6	e1.8	698	2.8	0.24	0.88	4.8	8.8	5.0
5	0.96	1.1	1.2	1.4	1.9	110	2.4	0.17	0.74	4.5	8.7	4.2
6	0.71	0.83	1.0	1.1	1.8	49	2.3	0.17	1.1	34	3.8	9.6
7	0.84	0.73	0.93	1.3	1.8	22	1.9	0.14	0.65	5.9	3.8	5.9
8	0.83	0.65	0.78	1.3	1.7	16	1.6	0.12	0.65	3.0	4.0	2.7
9	1.0	0.76	8.6	1.3	1.8	13	1.4	0.11	2.3	2.7	6.1	4.0
10	e1.0	0.60	5.8	1.2	2.0	11	1.2	3.1	35	2.0	8.9	8.0
11	e1.0	0.74	2.6	1.2	2.0	9.5	1.1	0.49	7.8	1.2	8.9	2.9
12	e1.0	e0.86	1.9	1.2	2.0	8.6	0.81	0.18	4.6	1.0	11	2.5
13	e1.0	e0.74	2.0	1.2	1.7	8.4	0.83	6.4	6.9	1.4	3.5	2.3
14	e1.6	0.74	1.6	1.2	1.9	8.1	0.65	4.1	3.5	0.86	3.6	2.3
15	1.1	0.82	5.9	1.2	2.5	21	0.59	0.71	2.4	0.74	3.2	2.0
16	0.81	0.77	9.9	1.3	2.0	13	0.59	0.21	21	38	2.0	4.7
17	1.2	0.77	5.1	9.5	6.5	9.8	0.54	0.14	11	5.7	4.3	5.6
18	0.96	1.0	9.2	8.7	30	9.1	0.57	58	69	2.5	2.1	16
19	0.86	0.79	6.1	e4.0	22	8.4	0.59	198	15	2.3	1.9	5.5
20	0.67	0.74	3.1	2.3	11	7.9	3.0	21	7.8	1.7	2.9	7.2
21	0.52	0.74	2.7	2.2	6.0	6.9	2.4	9.3	6.3	1.4	2.1	4.2
22	0.70	0.76	6.6	1.9	3.9	7.1	0.65	7.2	3.9	2.1	1.9	2.1
23	0.77	1.7	12	1.5	3.2	11	0.68	5.0	2.2	34	49	2.0
24	0.67	0.95	3.8	1.7	2.9	8.5	2.3	8.0	1.6	439	e511	2.1
25	0.65	0.82	2.9	2.5	2.7	7.2	0.72	113	1.1	73	39	1.5
26	0.74	0.87	2.4	2.3	2.5	7.4	0.64	11	0.93	15	46	1.0
27	0.58	0.82	3.5	1.7	2.4	7.2	0.63	8.6	21	9.6	24	0.84
28	0.62	0.65	6.8	1.3	2.3	67	0.48	6.3	8.4	8.3	196	1.5
29	0.70	0.50	3.1	e1.4	3.3	11	0.29	3.5	4.1	8.5	16	1.7
30	0.68	0.61	2.4	e1.3	---	7.7	0.66	2.1	2.4	9.7	12	1.4
31	0.63	---	2.0	e1.3	---	7.7	---	1.7	---	7.9	9.9	---
MEAN	0.95	0.83	3.94	2.10	4.42	38.1	1.51	15.2	8.20	24.5	32.9	4.22
MAX	3.0	1.7	12	9.5	30	698	5.9	198	69	439	511	16
MIN	0.52	0.50	0.40	1.1	1.4	2.7	0.29	0.11	0.65	0.74	1.9	0.84
AC-FT	58	50	242	129	254	2,340	90	933	488	1,510	2,020	251

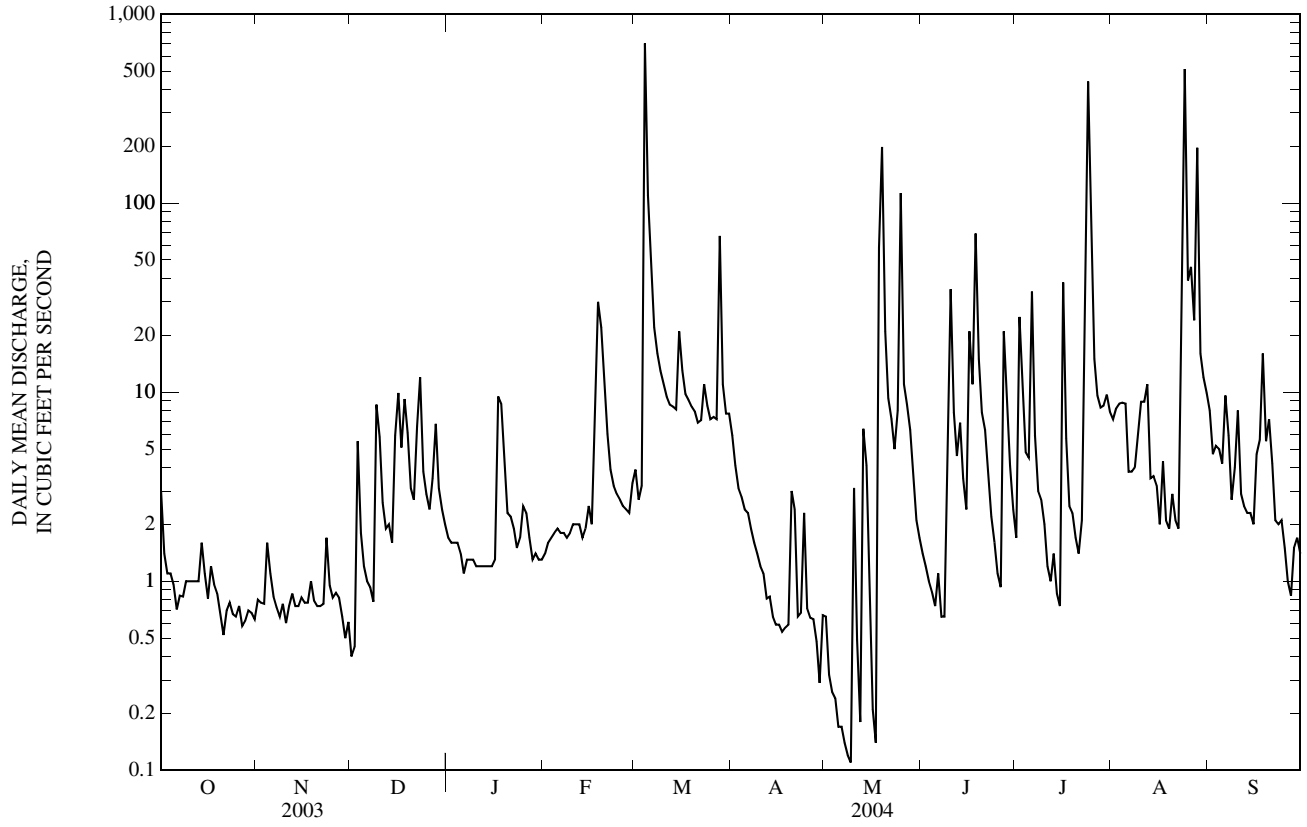
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	5.87	7.77	3.65	2.37	8.74	8.63	12.0	19.3	14.9	4.34	5.81	3.99
MAX	22.6	37.5	10.3	5.64	33.2	38.1	46.6	88.4	31.8	24.5	32.9	19.1
(WY)	(1999)	(1999)	(1999)	(2001)	(1997)	(2004)	(1994)	(1995)	(1996)	(2004)	(2004)	(1998)
MIN	0.44	0.36	0.28	0.40	0.63	0.46	0.44	1.62	1.16	0.42	0.16	0.44
(WY)	(1996)	(2003)	(2003)	(2003)	(1996)	(1996)	(1996)	(2000)	(2002)	(1994)	(2000)	(1995)

06914990 LITTLE BULL CREEK NEAR SPRING HILL, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL MEAN	2.44		11.5		8.09	
HIGHEST ANNUAL MEAN					12.8	1999
LOWEST ANNUAL MEAN					2.14	2003
HIGHEST DAILY MEAN	119	Aug 31	698	Mar 4	930	May 17, 1995
LOWEST DAILY MEAN	0.05	Aug 26	0.11	May 9	0.00	Aug 30, 2000
ANNUAL SEVEN-DAY MINIMUM	0.08	Aug 21	0.17	May 3	0.01	Sep 4, 2000
MAXIMUM PEAK FLOW			b	Aug 24	1,670	Jun 16, 1997
MAXIMUM PEAK STAGE			a17.56	Aug 24	17.56	Aug 24, 2004
INSTANTANEOUS LOW FLOW			0.09	May 9	0.00	Aug 22, 2000
ANNUAL RUNOFF (AC-FT)	1,770		8,360		5,860	
10 PERCENT EXCEEDS	3.5		12		9.6	
50 PERCENT EXCEEDS	0.86		2.2		1.3	
90 PERCENT EXCEEDS	0.22		0.65		0.31	

e Estimated
a Maximum gage height from high-water mark
b Peak discharge affected by backwater



06914995 HILLSDALE LAKE NEAR HILLSDALE, KS

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

DRAINAGE AREA.--144 mi^2.

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

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

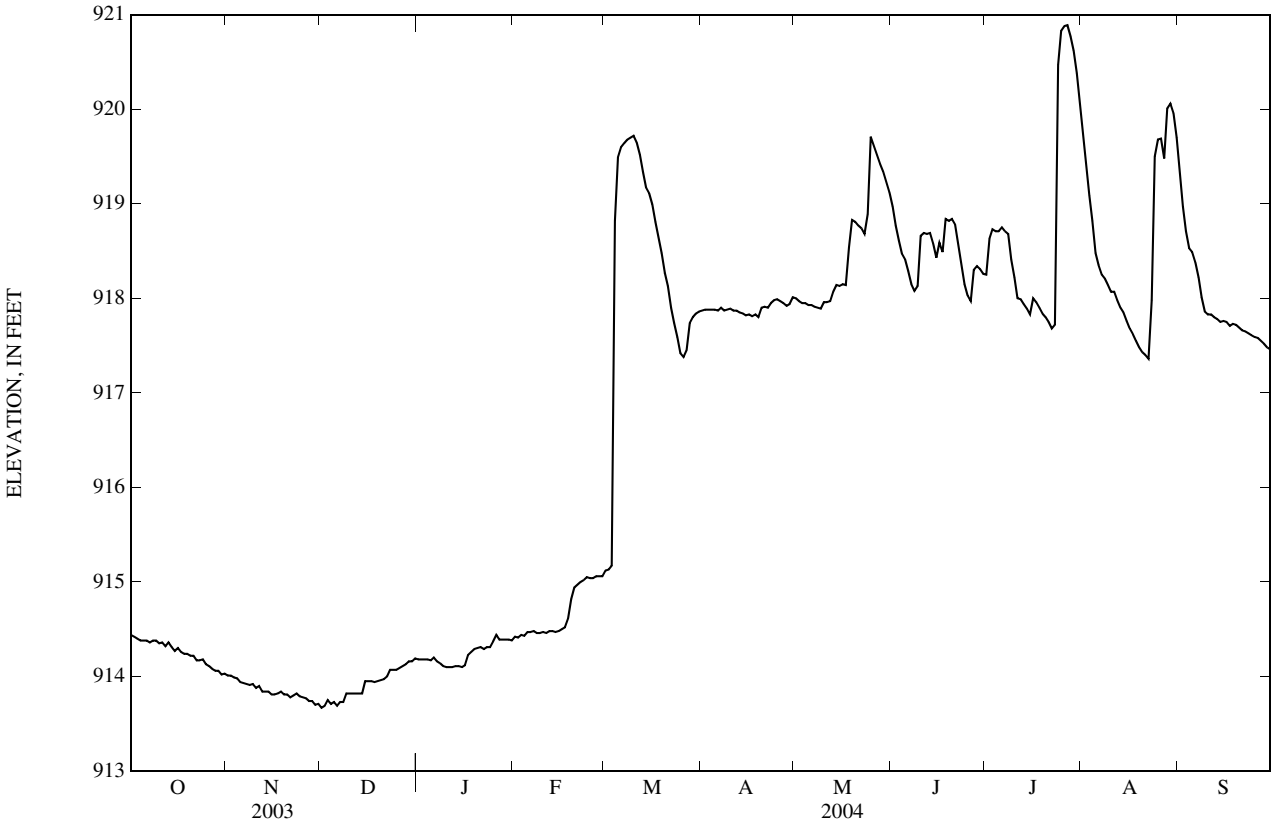
REMARKS.--Reservoir is formed by compacted earthfill dam. Storage began Sept. 19, 1981. Conservation pool elevation was first reached on Feb. 23, 1985. Total capacity, 315,600 acre-ft, consisting of the following: Conservation pool, 76,270 acre-ft between elevations 860.0 ft and 917.0 ft; flood-control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

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

EXTREMES FOR CURRENT OF RECORD.--Maximum elevation, 920.90 ft, July 28, contents, 95,610 acre-ft; minimum elevation, 913.66 ft, Dec. 1, contents, 62,050 acre-ft.

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

Elevation	Contents	Elevation	Contents	Elevation	Contents
910	48,700	920	90,870	920	119,100
915	67,500				



06914995 HILLSDALE LAKE NEAR HILLSDALE, 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	914.44	914.01	913.67	e914.18	914.42	915.12	917.87	918.00	918.97	918.25	919.76	919.36
2	914.42	914.01	913.69	e914.18	914.41	915.13	917.88	917.97	918.77	918.63	919.43	918.97
3	914.40	913.99	913.75	e914.18	914.44	915.17	917.88	917.95	918.61	918.73	919.09	918.71
4	914.38	913.98	913.71	e914.18	914.43	918.82	917.88	917.95	918.47	918.71	918.82	918.53
5	914.38	913.94	913.73	e914.17	914.47	919.49	917.88	917.93	918.41	918.71	918.48	918.49
6	914.38	913.93	913.69	e914.20	914.47	919.60	917.87	917.93	918.29	918.75	918.35	918.38
7	914.36	913.92	913.73	e914.16	914.48	919.64	917.90	917.91	918.15	918.71	918.25	918.22
8	914.38	913.91	913.73	e914.14	914.46	919.68	917.87	917.90	918.08	918.68	918.21	918.01
9	914.38	913.92	e913.82	914.11	914.46	919.70	917.88	917.89	918.13	918.41	918.14	917.86
10	914.35	913.88	e913.82	914.10	914.47	919.72	917.89	917.96	918.66	918.22	918.07	917.83
11	914.36	913.90	e913.82	914.10	914.46	919.65	917.87	917.96	918.69	918.00	918.07	917.83
12	914.32	913.84	e913.82	914.10	914.48	919.52	917.87	917.97	918.68	917.99	917.98	917.80
13	914.36	913.84	e913.82	914.11	914.48	919.34	917.85	918.07	918.69	917.94	917.90	917.78
14	914.31	913.84	e913.82	914.11	914.47	919.17	917.84	918.14	918.58	917.89	917.85	917.75
15	914.27	913.81	e913.95	914.10	914.48	919.11	917.82	918.13	918.43	917.83	917.76	917.76
16	914.30	913.81	e913.95	914.12	914.50	918.99	917.83	918.15	918.59	918.00	917.68	917.75
17	914.26	913.82	e913.95	914.23	914.52	918.81	917.81	918.14	918.49	917.96	917.62	917.71
18	914.24	913.84	e913.94	914.26	914.61	918.64	917.83	918.54	918.84	917.90	917.55	917.73
19	914.24	913.81	e913.95	914.29	914.82	918.48	917.80	918.83	918.82	917.84	917.48	917.72
20	914.22	913.81	e913.96	914.30	914.94	918.27	917.90	918.81	918.84	917.80	917.43	917.69
21	914.22	913.78	e913.97	914.31	914.97	918.13	917.91	918.77	918.78	917.75	917.40	917.66
22	914.17	913.80	e914.00	914.29	915.00	917.90	917.90	918.74	918.56	917.68	917.36	917.65
23	914.17	913.82	e914.07	914.31	915.02	917.74	917.95	918.68	918.36	917.72	917.98	917.63
24	914.18	913.79	e914.07	914.31	915.05	917.59	917.98	918.89	918.15	920.47	919.50	917.61
25	914.13	913.78	e914.07	914.37	915.04	917.42	917.99	919.71	918.03	920.83	919.68	917.59
26	914.11	913.77	e914.09	914.44	915.04	917.38	917.97	919.61	917.97	920.88	919.69	917.58
27	914.08	913.74	e914.11	914.39	915.06	917.45	917.95	919.52	918.30	920.89	919.48	917.55
28	914.06	913.74	e914.13	914.39	915.06	917.74	917.92	919.42	918.34	920.77	920.01	917.52
29	914.06	913.70	e914.16	914.39	915.06	917.80	917.94	919.34	918.31	920.62	920.06	917.48
30	914.02	913.71	e914.16	914.39	---	917.84	918.01	919.23	918.26	920.38	919.96	917.46
31	914.03	---	e914.19	914.38	---	917.86	---	919.12	---	920.09	919.70	---
MEAN	914.26	913.85	913.91	914.24	914.67	918.29	917.89	918.49	918.48	918.81	918.54	917.92
MAX	914.44	914.01	914.19	914.44	915.06	919.72	918.01	919.71	918.97	920.89	920.06	919.36
MIN	914.02	913.70	913.67	914.10	914.41	915.12	917.80	917.89	917.97	917.68	917.36	917.46
(+)	63,510	62,250	64,170	64,950	67,750	80,290	80,990	86,420	82,210	91,350	89,350	78,420
(#)	-1,730	-1,260	+1,920	+780	+2,800	+12,540	+700	+5,430	-4,210	+9,140	-2,000	-10,930

CAL YR 2003 ..... (#) +3,530
WTR YR 2004 ..... (#) +13,180

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

e Estimated

06915000 BIG BULL CREEK NEAR HILLSDALE, KS

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

DRAINAGE AREA.--147 mi^2.

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

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

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

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

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

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	15	7.1	8.3	5.9	9.0	15	18	386	99	848	1,020
2	19	14	7.1	8.3	6.4	8.1	15	17	514	109	843	1,020
3	16	11	8.0	8.4	6.1	8.6	16	16	451	106	839	717
4	15	5.4	7.3	8.3	6.0	e50	16	16	308	101	836	425
5	15	3.7	6.9	8.0	6.5	e35	16	16	310	103	842	454
6	15	e4.0	6.9	8.0	6.6	18	17	16	309	103	473	446
7	15	e5.0	6.9	7.4	6.7	12	18	15	308	101	143	427
8	14	5.4	7.0	7.8	7.0	11	18	15	192	310	144	427
9	14	5.3	11	8.2	6.7	11	18	15	43	519	143	229
10	14	5.5	9.9	8.4	6.7	11	19	17	e55	516	143	65
11	15	5.5	8.8	8.5	6.6	130	18	15	50	515	143	28
12	15	8.2	9.0	8.7	6.3	393	19	15	46	312	143	29
13	15	11	9.3	8.6	5.6	499	18	22	47	98	144	29
14	14	8.1	8.1	8.3	6.4	495	18	24	309	98	144	29
15	15	8.1	12	8.4	7.5	502	18	16	547	98	145	29
16	15	7.9	13	8.7	7.5	381	19	15	546	100	146	30
17	14	7.8	9.5	21	10	424	19	15	545	99	146	30
18	14	7.4	9.8	16	11	484	19	26	561	99	147	30
19	14	7.3	9.2	9.1	11	482	19	e110	241	99	148	30
20	14	7.3	8.7	8.7	10	481	20	141	21	98	91	30
21	14	7.4	8.6	8.6	8.1	480	20	140	226	98	52	30
22	15	7.6	9.3	8.3	7.9	478	19	140	541	98	53	30
23	15	7.6	11	8.1	7.9	477	19	140	537	108	54	31
24	15	7.3	8.9	8.3	7.9	472	26	196	533	e45	e62	31
25	16	7.3	8.7	10	7.9	472	19	e40	304	7.9	e60	31
26	16	7.3	8.5	9.6	7.7	258	18	210	97	11	460	30
27	15	7.3	12	8.2	7.7	95	17	444	115	19	982	31
28	15	7.1	14	8.1	7.9	145	17	356	103	273	40	31
29	15	7.2	9.2	7.7	8.5	58	17	259	99	500	32	31
30	15	7.1	8.6	6.7	---	19	17	258	98	688	268	31
31	15	---	8.5	5.9	---	16	---	258	---	853	780	---
MEAN	15.2	7.54	9.12	8.92	7.52	239	18.1	96.8	281	206	306	194
MAX	23	15	14	21	11	502	26	444	561	853	982	1,020
MIN	14	3.7	6.9	5.9	5.6	8.1	15	15	21	7.9	32	28
AC-FT	934	448	561	549	432	14,710	1,080	5,950	16,740	12,660	18,830	11,570

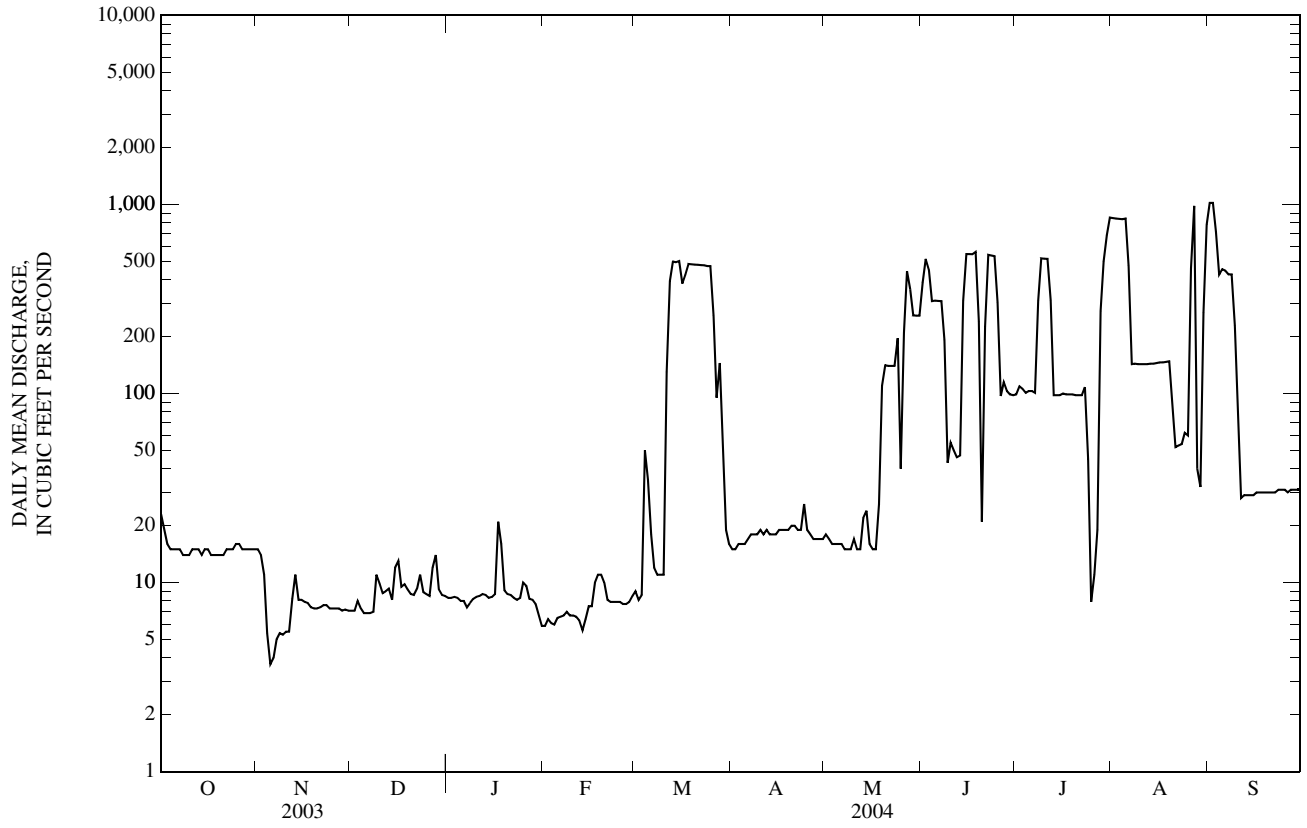
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	89.5	74.4	91.9	67.0	58.5	125	99.3	135	247	85.8	46.8	79.4
MAX	773	612	688	408	389	1,057	368	492	1,061	744	730	1,019
(WY)	(1974)	(1962)	(1987)	(1993)	(1982)	(1973)	(1987)	(1993)	(1995)	(1984)	(1993)	(1961)
MIN	0.00	0.00	0.00	0.00	0.18	0.43	1.77	7.90	8.23	0.01	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1981)	(1964)	(1981)	(1965)	(1959)	(1980)	(1975)	(1963)

06915000 BIG BULL CREEK NEAR HILLSDALE, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL MEAN	14.4		116		100	
HIGHEST ANNUAL MEAN					271	1973
LOWEST ANNUAL MEAN					12.0	1989
HIGHEST DAILY MEAN	114	Aug 31	1,020	Sep 1	18,000	Sep 13, 1961
LOWEST DAILY MEAN	2.9	Jan 24	3.7	Nov 5	0.00	Sep 11, 1959
ANNUAL SEVEN-DAY MINIMUM	3.2	Jan 23	4.9	Nov 4	0.00	Sep 11, 1959
MAXIMUM PEAK FLOW			1,090	Aug 26	39,600	Sep 13, 1961
MAXIMUM PEAK STAGE			5.77	Aug 26	20.85	Sep 13, 1961
INSTANTANEOUS LOW FLOW			2.3	Jul 26	0.00	many years
ANNUAL RUNOFF (AC-FT)	10,400		84,470		72,440	
10 PERCENT EXCEEDS	22		464		224	
50 PERCENT EXCEEDS	14		18		15	
90 PERCENT EXCEEDS	4.5		7.3		0.43	

e Estimated



06915800 MARAIS DES CYGNES RIVER AT LA CYGNE, KS

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

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

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 8	0100	*31,300	*30.52	Jul 26	0930	17,800	26.63
Jun 19	1900	10,300	17.93				

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	76	73	73	285	299	908	2,010	688	586	2,130	5,030	1,840
2	88	72	72	253	286	1,020	2,360	657	666	2,750	3,960	1,910
3	107	71	84	236	e270	1,200	2,380	606	704	6,660	3,780	1,810
4	99	73	109	219	258	4,540	2,030	564	587	7,990	3,710	1,310
5	84	74	123	198	261	18,300	1,770	482	452	5,070	3,640	1,130
6	80	74	113	177	268	20,800	1,670	415	470	2,500	2,810	2,430
7	78	69	116	154	e253	27,900	1,590	361	601	3,230	1,170	2,070
8	76	65	122	138	e231	29,200	1,260	314	595	4,460	581	1,460
9	74	62	127	139	233	21,500	1,040	273	446	3,640	544	1,230
10	72	61	249	139	252	11,200	996	244	1,530	4,460	992	825
11	72	65	391	133	225	3,620	872	261	6,580	5,520	757	473
12	71	66	231	134	e213	3,410	635	308	3,890	4,260	586	242
13	73	66	217	130	e244	3,660	592	299	1,990	2,930	539	174
14	76	68	201	128	272	3,490	559	467	1,230	2,590	514	150
15	81	76	188	132	314	3,490	521	1,140	1,180	2,430	442	132
16	78	80	369	153	309	4,140	489	1,430	1,430	2,400	302	126
17	72	85	461	200	323	3,590	461	1,080	2,560	2,180	260	123
18	69	97	392	1,230	518	3,530	423	737	4,720	1,890	250	122
19	64	93	524	1,090	852	3,410	324	2,650	9,830	1,800	247	134
20	55	89	505	1,370	1,590	3,290	302	4,240	7,690	1,760	252	131
21	53	85	370	937	2,470	3,190	1,950	1,370	2,490	1,380	198	113
22	62	81	326	677	2,080	3,100	1,490	854	1,580	719	155	106
23	70	87	e323	540	1,220	3,050	1,090	636	2,200	784	156	102
24	70	106	e310	440	812	2,780	2,620	519	2,590	3,660	1,650	100
25	70	97	318	404	695	2,560	3,690	1,730	2,470	16,000	3,830	96
26	67	88	315	e429	956	2,560	4,650	5,720	2,090	17,800	3,670	90
27	68	83	304	e398	942	2,310	2,490	2,380	2,050	16,500	3,400	87
28	66	78	763	e368	902	5,820	1,380	1,780	4,090	6,660	2,270	79
29	65	76	724	e350	869	8,080	970	1,540	4,220	2,940	5,350	75
30	69	74	412	e332	---	6,300	766	911	1,880	4,830	4,310	81
31	73	---	345	e315	---	2,780	---	698	---	5,920	1,480	---
MEAN	73.5	77.8	296	382	635	6,927	1,446	1,140	2,447	4,769	1,833	625
MAX	107	106	763	1,370	2,470	29,200	4,650	5,720	9,830	17,800	5,350	2,430
MIN	53	61	72	128	213	908	302	244	446	719	155	75
AC-FT	4,520	4,630	18,200	23,460	36,530	425,900	86,040	70,120	145,600	293,200	112,700	37,190

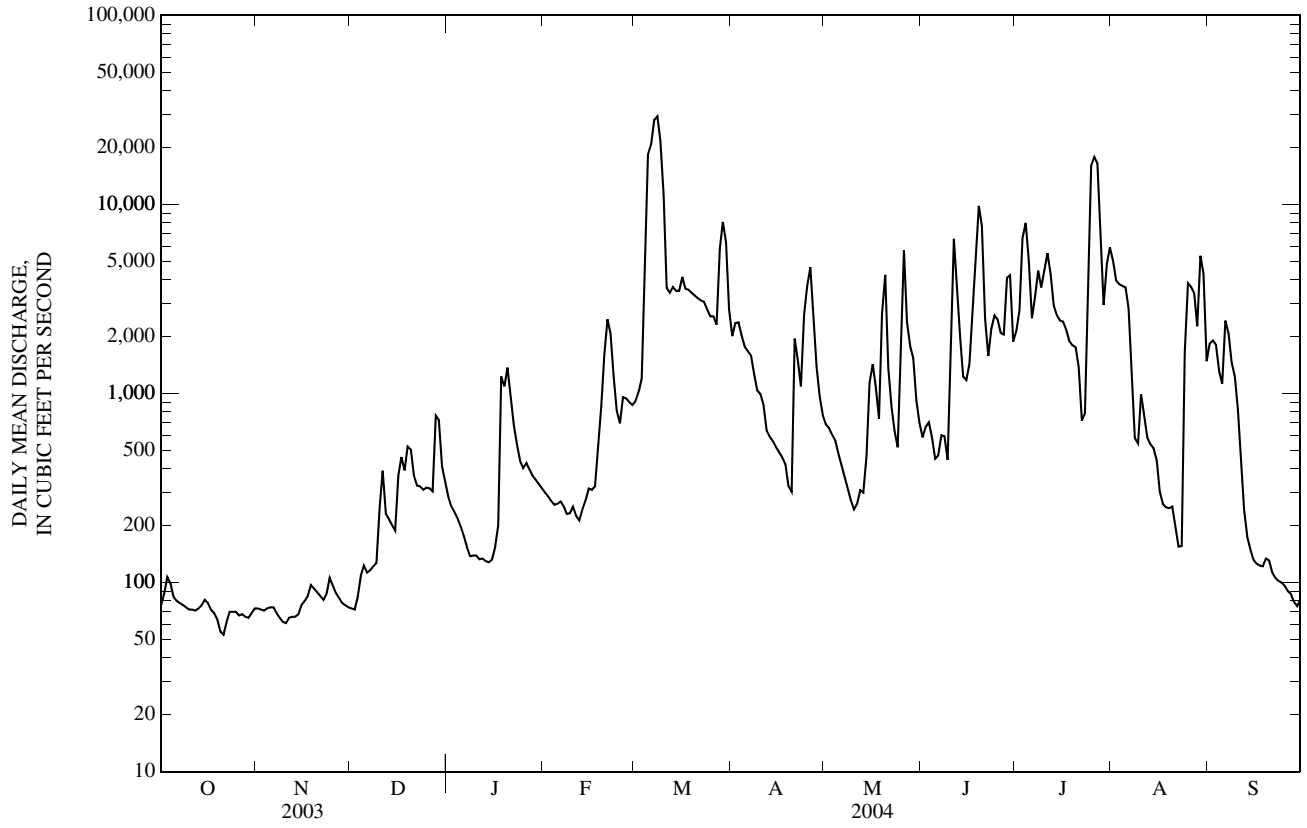
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2004, BY WATER YEAR (WY)

MEAN	1,914	2,173	1,800	920	1,575	2,462	2,571	3,718	3,289	1,978	888	966
MAX	12,290	13,630	8,038	4,631	8,653	9,746	6,920	11,640	11,020	12,060	4,120	4,627
(WY)	(1987)	(1999)	(1993)	(1993)	(1985)	(1987)	(1999)	(1995)	(1995)	(1993)	(1993)	(1993)
MIN	49.0	59.6	50.3	56.0	64.2	66.1	83.6	222	112	144	48.2	52.8
(WY)	(1992)	(1996)	(2001)	(1996)	(1996)	(1996)	(1996)	(2000)	(1988)	(1991)	(1991)	(1991)

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1985 - 2004	
ANNUAL MEAN	452		1,733		2,022	
HIGHEST ANNUAL MEAN					5,540	1993
LOWEST ANNUAL MEAN					313	1991
HIGHEST DAILY MEAN	13,500	Sep 3	29,200	Mar 8	60,600	Nov 4, 1998
LOWEST DAILY MEAN	41	Jul 28	53	Oct 21	1.0	Oct 4, 1984
ANNUAL SEVEN-DAY MINIMUM	43	Aug 20	63	Oct 18	1.8	Oct 1, 1984
MAXIMUM PEAK FLOW			31,300	Mar 8	66,700	Nov 4, 1998
MAXIMUM PEAK STAGE			30.52	Mar 8	33.49	Nov 4, 1998
INSTANTANEOUS LOW FLOW			52	Oct 21	36	Nov 7, 1988
ANNUAL RUNOFF (AC-FT)	327,000		1,258,000		1,465,000	
10 PERCENT EXCEEDS	992		4,000		5,610	
50 PERCENT EXCEEDS	90		532		447	
90 PERCENT EXCEEDS	53		74		61	

e Estimated



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

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

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

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 9	0945	*31,900	*29.39	Jun 19	1500	11,000	15.94
Mar 29	0500	13,900	18.85	Jul 26	0445	17,400	22.23

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

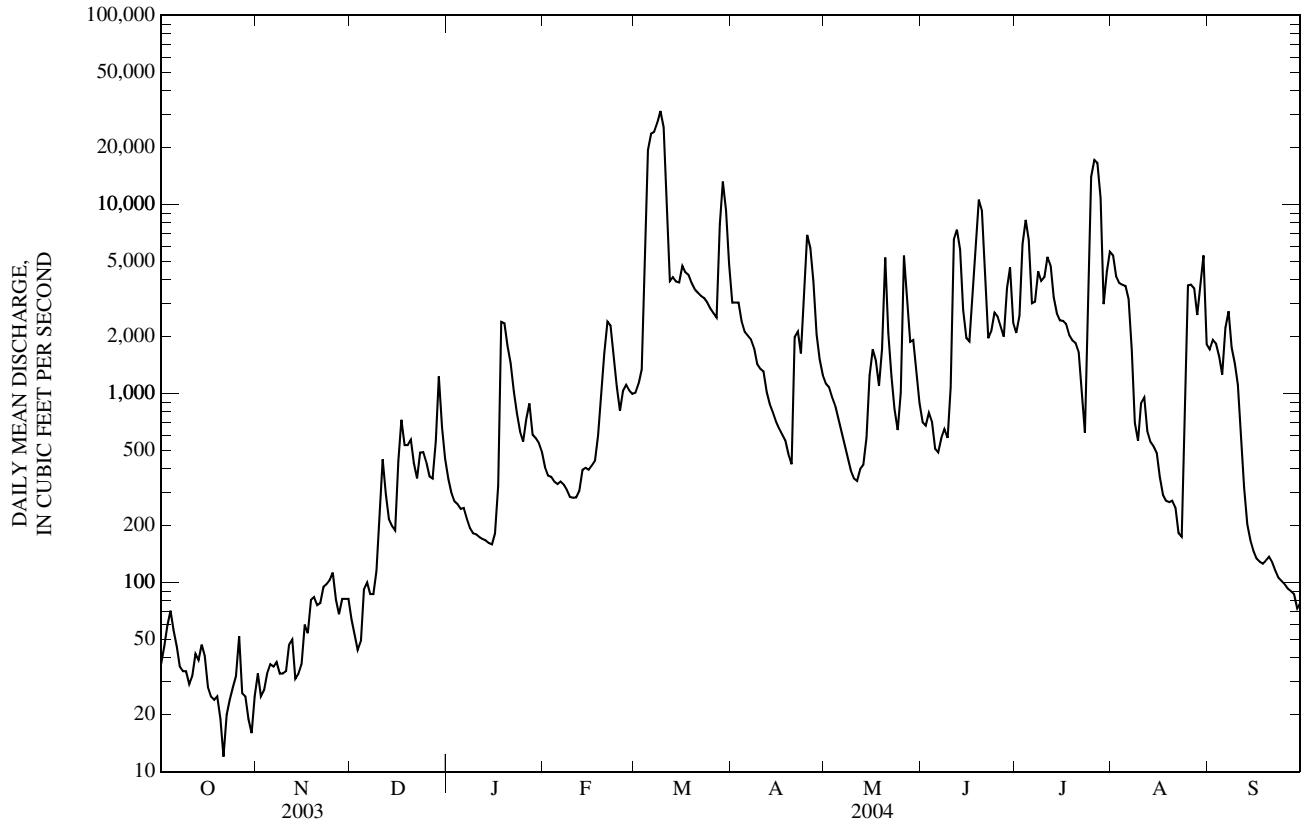
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	33	64	355	407	1,010	3,030	1,130	704	2,090	5,380	1,710
2	46	25	53	300	368	1,130	3,030	1,080	677	2,580	4,180	1,920
3	59	27	44	269	362	1,340	3,030	957	793	6,160	3,840	1,840
4	71	33	49	260	342	4,120	2,420	860	711	8,270	3,760	1,570
5	56	37	92	245	332	19,400	2,120	739	510	6,470	3,700	1,260
6	46	36	100	248	342	23,700	2,020	630	489	3,000	3,160	2,220
7	36	38	87	217	330	24,200	1,930	539	582	3,060	1,690	2,720
8	34	33	87	194	310	27,100	1,730	457	649	4,430	700	1,750
9	34	33	115	182	284	31,200	1,430	392	582	3,940	562	1,440
10	29	34	236	180	281	25,600	1,350	355	1,080	4,130	889	1,110
11	32	47	449	174	282	10,600	1,310	345	6,520	5,280	953	603
12	42	50	292	170	305	3,930	1,020	399	7,350	4,740	634	318
13	39	31	217	167	395	4,120	882	419	5,760	3,230	555	203
14	47	33	199	162	405	3,910	795	585	2,770	2,650	526	168
15	41	37	189	159	395	3,860	713	1,240	1,970	2,440	485	147
16	28	60	441	182	416	4,730	652	1,710	1,890	2,420	362	134
17	25	54	726	326	442	4,380	608	1,500	2,970	2,330	291	129
18	24	81	534	2,390	597	4,240	564	1,100	5,050	2,030	271	126
19	25	84	534	2,350	994	3,850	478	1,720	10,600	1,910	266	131
20	19	76	570	1,790	1,630	3,560	422	5,240	9,320	1,850	271	137
21	12	78	428	1,440	2,400	3,420	1,990	2,100	3,980	1,660	249	128
22	20	95	356	1,020	2,290	3,280	2,130	1,230	1,960	1,030	183	116
23	24	98	487	787	1,600	3,200	1,630	826	2,140	620	175	106
24	28	103	490	629	1,090	3,030	3,520	641	2,680	2,380	638	102
25	32	113	433	557	810	2,820	6,910	1,010	2,560	14,000	3,730	98
26	52	81	364	737	1,030	2,660	5,890	5,360	2,250	17,200	3,770	93
27	26	68	355	886	1,110	2,520	3,920	3,350	2,000	16,600	3,600	90
28	25	82	559	607	1,040	7,800	2,050	1,880	3,600	10,800	2,600	87
29	19	82	1,230	582	995	13,200	1,520	1,920	4,640	2,970	3,810	73
30	16	82	662	548	---	9,290	1,250	1,270	2,370	4,400	5,370	78
31	25	---	453	493	---	4,850	---	893	---	5,630	1,820	---
MEAN	33.8	58.8	351	600	744	8,453	2,011	1,351	2,972	4,848	1,885	687
MAX	71	113	1,230	2,390	2,400	31,200	6,910	5,360	10,600	17,200	5,380	2,720
MIN	12	25	44	159	281	1,010	422	345	489	620	175	73
AC-FT	2,080	3,500	21,610	36,900	42,810	519,800	119,700	83,060	176,800	298,100	115,900	40,870

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

MEAN	1,788	2,003	1,436	1,054	1,702	2,896	3,246	3,460	4,247	1,813	714	1,414
MAX	15,030	13,830	9,470	5,023	9,357	15,760	12,900	13,560	14,740	14,540	4,392	13,300
(WY)	(1987)	(1999)	(1993)	(1993)	(1985)	(1973)	(1983)	(1995)	(1967)	(1993)	(1968)	(1961)
MIN	3.94	5.63	1.56	3.08	9.32	6.73	30.6	165	97.6	21.3	12.6	14.6
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1981)	(1965)	(1988)	(1980)	(1963)	(1963)

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL MEAN	497		2,013		2,145	
HIGHEST ANNUAL MEAN					6,283	1993
LOWEST ANNUAL MEAN					361	1991
HIGHEST DAILY MEAN	12,900	Sep 3	31,200	Mar 9	61,400	Oct 4, 1986
LOWEST DAILY MEAN	12	Oct 21	12	Oct 21	0.00	Oct 12, 1963
ANNUAL SEVEN-DAY MINIMUM	21	Oct 17	21	Oct 17	0.00	Nov 13, 1963
MAXIMUM PEAK FLOW			31,900	Mar 9	64,100	Oct 4, 1986
MAXIMUM PEAK STAGE			29.39	Mar 9	34.31	Oct 4, 1986
INSTANTANEOUS LOW FLOW			11	Oct 21	0.00	many years
ANNUAL RUNOFF (AC-FT)	359,500		1,461,000		1,554,000	
10 PERCENT EXCEEDS	1,200		4,410		5,850	
50 PERCENT EXCEEDS	84		645		465	
90 PERCENT EXCEEDS	35		42		40	



06917000 LITTLE OSAGE RIVER AT FULTON, KS

LOCATION.--Lat 38°01'08", long 94°42'48", in SE ¼ NE ¼ NE ¼ sec.25, T.23 S., R.24 E., Bourbon County, Hydrologic Unit 10290103, on right bank at downstream side of county highway bridge, 0.8 mi north of Fulton.

DRAINAGE AREA.--295 mi^2.

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	2100	*9,830	*25.08	Apr 25	0100	4,250	16.65
Mar 29	0200	3,810	15.46	Jun 13	0900	4,810	18.10

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

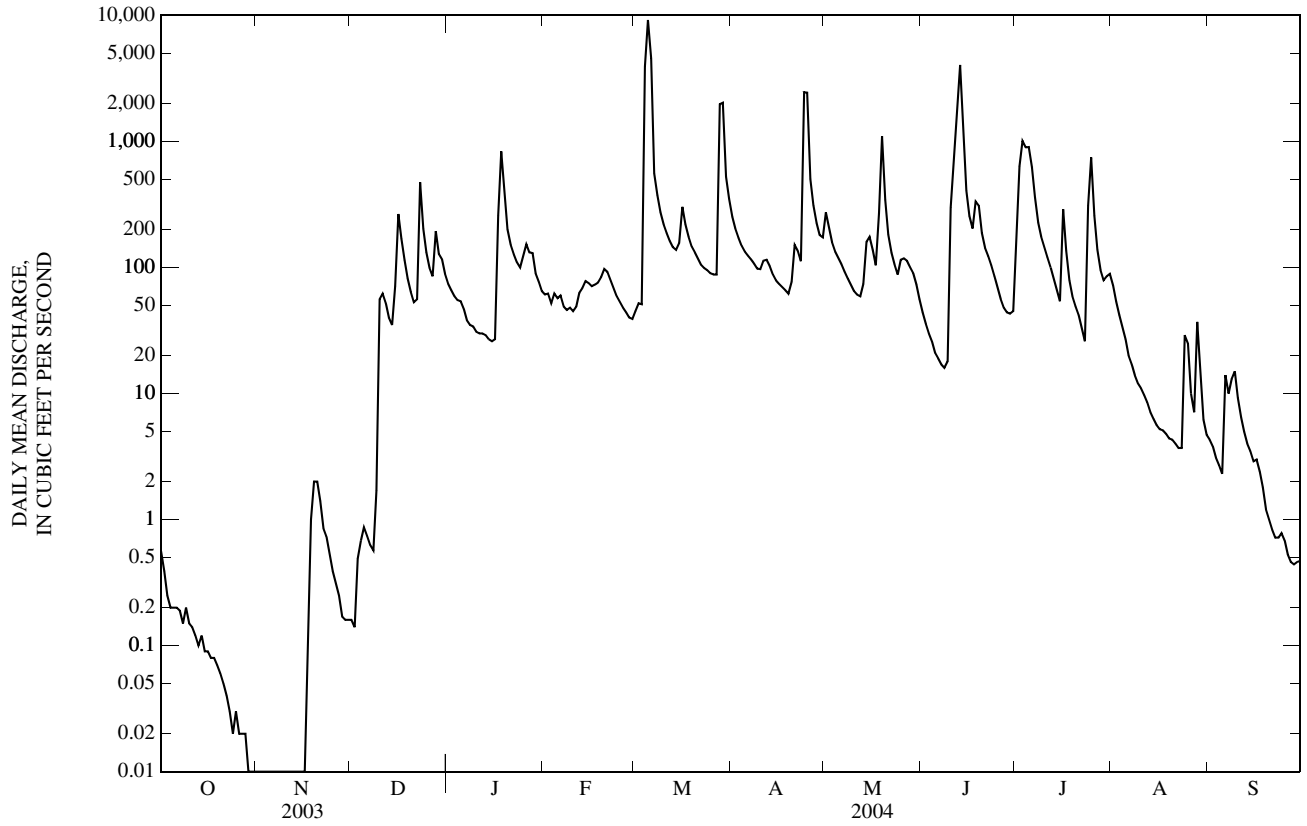
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.56	0.01	0.16	74	61	45	253	273	44	187	72	4.3
2	0.39	0.01	0.14	66	62	52	204	207	36	634	54	3.8
3	0.25	0.01	0.49	59	52	51	172	158	30	1,010	42	3.1
4	0.20	0.01	0.68	55	62	3,930	149	133	26	897	34	2.7
5	0.20	0.01	0.87	54	57	9,200	134	119	21	903	27	2.3
6	0.20	0.01	0.74	47	60	4,560	124	106	19	623	20	14
7	0.19	0.00	0.63	38	49	557	116	93	17	360	17	10
8	0.15	0.00	0.57	35	46	373	107	82	16	227	14	13
9	0.20	0.00	1.7	34	48	275	98	73	18	175	12	15
10	0.15	0.00	56	31	45	220	97	65	298	145	11	9.2
11	0.14	0.00	62	30	49	188	113	61	690	120	9.7	6.5
12	0.12	0.00	52	30	63	162	115	59	1,530	100	8.5	5.0
13	0.10	0.00	40	29	69	145	103	74	4,040	82	7.1	4.0
14	0.12	0.00	35	27	78	138	88	160	1,260	66	6.3	3.5
15	0.09	0.00	71	26	75	156	79	175	407	54	5.6	2.9
16	0.09	0.00	265	27	71	303	74	138	256	290	5.2	3.0
17	0.08	0.10	169	259	73	220	70	104	204	136	5.1	2.4
18	0.08	1.0	114	834	76	175	66	269	334	79	4.8	1.8
19	0.07	2.0	82	421	84	147	62	1,100	309	59	4.4	1.2
20	0.06	2.0	64	201	97	132	77	344	188	49	4.3	1.0
21	0.05	1.4	53	152	92	118	151	182	143	42	4.0	0.83
22	0.04	0.85	56	127	79	105	135	131	123	33	3.7	0.72
23	0.03	0.73	474	110	68	99	112	106	104	26	3.7	0.72
24	0.02	0.53	202	100	59	95	2,450	88	85	310	29	0.78
25	0.03	0.39	132	123	53	90	2,440	115	69	747	25	0.68
26	0.02	0.31	99	153	48	88	503	118	56	258	10	0.53
27	0.02	0.25	85	132	44	88	312	113	48	138	7.1	0.46
28	0.02	0.17	194	130	40	1,970	225	100	44	95	37	0.44
29	0.01	0.16	128	90	39	2,020	181	90	43	79	14	0.46
30	0.01	0.16	116	77	---	524	173	73	45	85	6.2	0.47
31	0.01	---	89	65	---	351	---	56	---	89	4.7	---
MEAN	0.12	0.34	85.3	117	62.0	857	299	160	350	261	16.4	3.83
MAX	0.56	2.0	474	834	97	9,200	2,450	1,100	4,040	1,010	72	15
MIN	0.01	0.00	0.14	26	39	45	62	56	16	26	3.7	0.44
AC-FT	7.3	20	5,240	7,210	3,570	52,720	17,820	9,850	20,830	16,060	1,010	228

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	186	218	143	132	222	351	381	336	350	226	59.5	176
MAX	3,327	1,867	1,170	715	1,378	2,254	2,681	2,206	1,982	2,128	699	2,377
(WY)	(1987)	(1993)	(1993)	(1973)	(1985)	(1973)	(1994)	(1995)	(1970)	(1951)	(1950)	(1951)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.77	9.05	3.38	0.04	0.00	0.00
(WY)	(1954)	(1953)	(1957)	(1957)	(1964)	(1964)	(1996)	(1962)	(1972)	(1954)	(1953)	(1953)

06917000 LITTLE OSAGE RIVER AT FULTON, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL MEAN	46.0		185		231	
HIGHEST ANNUAL MEAN					656	1993
LOWEST ANNUAL MEAN					9.21	1953
HIGHEST DAILY MEAN	2,950	Jun 6	9,200	Mar 5	51,800	Oct 3, 1986
LOWEST DAILY MEAN	0.00	Aug 22	0.00	Nov 7	0.00	Oct 12, 1949
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 22	0.00	Nov 7	0.00	Oct 3, 1952
MAXIMUM PEAK FLOW			9,830	Mar 5	62,800	Oct 3, 1986
MAXIMUM PEAK STAGE			25.08	Mar 5	35.21	Oct 3, 1986
INSTANTANEOUS LOW FLOW			0.00	Oct 30	0.00	many years
ANNUAL RUNOFF (AC-FT)	33,330		134,600		167,300	
10 PERCENT EXCEEDS	112		280		381	
50 PERCENT EXCEEDS	1.4		56		30	
90 PERCENT EXCEEDS	0.04		0.12		0.18	



06917240 MARMATON RIVER AT UNIONTOWN, KS

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

DRAINAGE AREA.--84.0 mi^2.

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

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

REMARKS.--Records fair. Flow affected at times, usually in September, by draining of Bourbon County State Lake located about 5.0 mi upstream of gage. Satellite telemeter at station.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 5	0100	3,470	12.95	Jun 12	1600	*3,700	*13.38
Apr 24	1600	3,520	13.03				

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

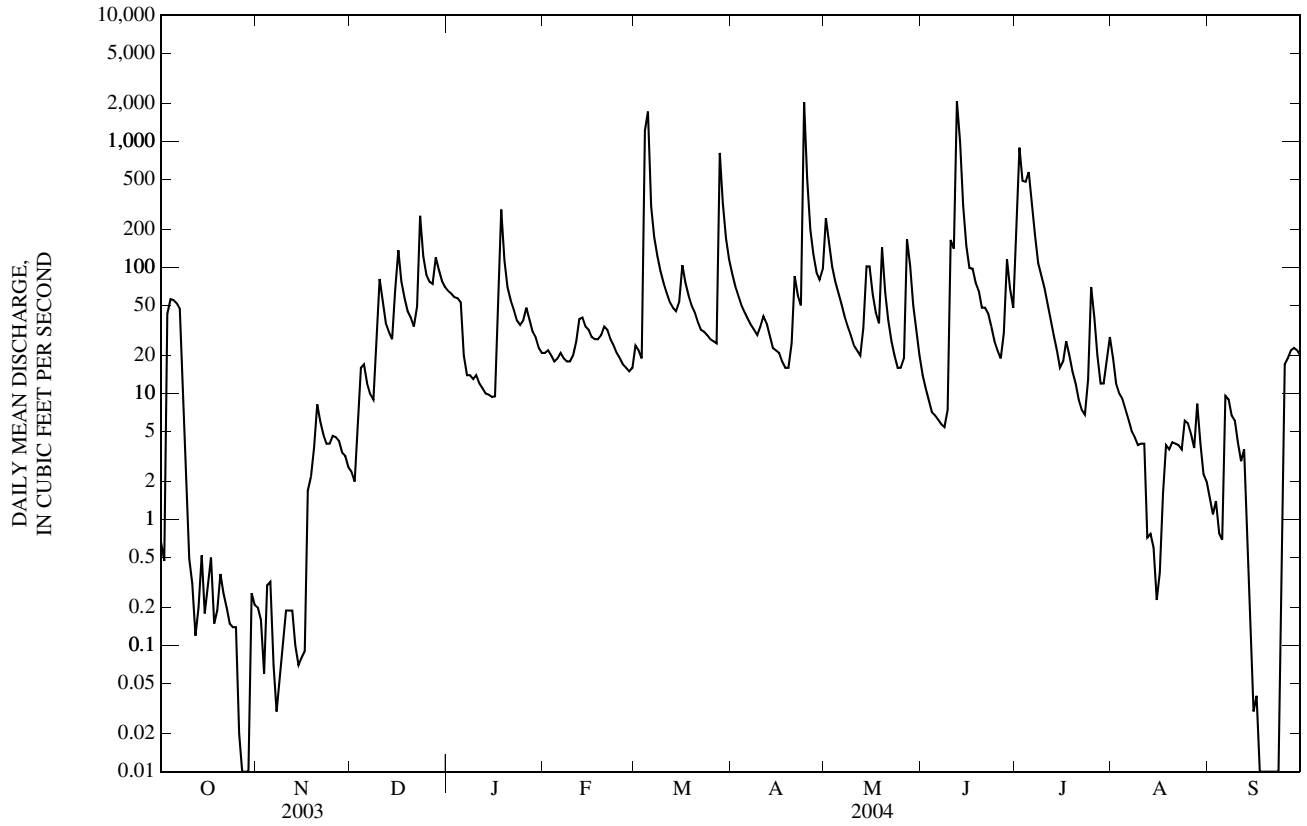
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.66	0.20	2.4	65	21	24	89	246	14	158	19	1.5
2	0.47	0.16	2.0	62	22	22	71	158	11	893	12	1.1
3	43	0.06	6.4	58	20	19	59	102	8.8	487	10	1.4
4	56	0.30	16	57	18	1,220	50	77	7.1	477	9.1	0.78
5	55	0.32	17	53	19	1,720	44	63	6.7	571	7.5	0.69
6	52	0.07	12	20	21	305	39	51	6.2	326	6.2	9.6
7	47	0.03	9.9	14	19	174	35	41	5.7	181	5.0	9.0
8	8.1	0.06	8.9	14	18	123	32	34	5.4	108	4.5	6.7
9	1.8	0.11	22	13	18	94	29	29	7.4	87	3.9	6.1
10	0.49	0.19	81	14	20	75	34	24	165	69	4.0	4.1
11	0.31	0.19	54	12	26	63	41	22	141	52	4.0	2.9
12	0.12	0.19	36	11	39	53	36	20	2,090	39	0.72	3.6
13	0.20	0.10	31	10	40	48	29	33	985	29	0.77	1.2
14	0.52	0.07	27	9.8	34	45	23	102	310	22	0.60	0.32
15	0.18	0.08	66	9.4	32	53	22	102	148	16	0.23	0.03
16	0.30	0.09	137	9.5	28	104	21	61	99	18	0.38	0.04
17	0.50	1.7	77	65	27	76	18	44	98	26	1.6	0.01
18	0.15	2.2	57	288	27	60	16	36	76	20	3.9	0.00
19	0.19	3.7	45	114	29	50	16	144	65	15	3.6	0.00
20	0.37	8.2	40	70	34	44	25	63	48	12	4.1	0.00
21	0.26	6.0	34	55	32	37	85	38	48	9.0	4.0	0.00
22	0.20	4.7	49	46	27	32	60	26	43	7.4	3.9	0.00
23	0.15	4.0	257	38	24	31	50	20	34	6.8	3.6	0.00
24	0.14	4.0	122	35	21	29	2,050	16	26	13	6.1	1.8
25	0.14	4.6	88	38	19	27	508	16	22	70	5.8	17
26	0.02	4.5	77	48	17	26	199	19	19	40	4.8	19
27	0.01	4.2	74	39	16	25	127	167	30	20	3.7	22
28	0.00	3.4	120	31	15	810	91	102	116	12	8.3	23
29	0.00	3.2	96	28	16	323	80	50	68	12	4.0	22
30	0.26	2.6	78	23	---	169	97	31	48	19	2.3	20
31	0.21	---	70	21	---	116	---	20	---	28	2.0	---
MEAN	8.67	1.97	58.5	44.2	24.1	193	136	63.1	158	124	4.83	5.80
MAX	56	8.2	257	288	40	1,720	2,050	246	2,090	893	19	23
MIN	0.00	0.03	2.0	9.4	15	19	16	16	5.4	6.8	0.23	0.00
AC-FT	533	117	3,600	2,720	1,390	11,900	8,080	3,880	9,420	7,620	297	345

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

MEAN	3.16	0.84	20.6	15.7	12.9	78.2	74.7	116	121	52.0	3.19	5.39
MAX	8.67	1.97	58.5	44.2	24.1	193	136	260	158	124	7.56	10.3
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2004)	(2004)	(2001)	(2003)
MIN	0.00	0.00	0.00	0.00	0.11	12.9	35.0	23.3	73.3	0.10	0.13	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(2003)	(2001)	(2003)	(2003)	(2002)	(2002)

06917240 MARMATON RIVER AT UNIONTOWN, KS—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL MEAN	28.0		68.7		43.5	
HIGHEST ANNUAL MEAN					68.7	2004
LOWEST ANNUAL MEAN					22.1	2003
HIGHEST DAILY MEAN	1,300	Jun 6	2,090	Jun 12	2,090	Jun 12, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 28	0.00	Sep 30, 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Sep 17	0.00	Aug 7, 2002
MAXIMUM PEAK FLOW			3,700	Jun 12	3,700	Jun 12, 2004
MAXIMUM PEAK STAGE			13.38	Jun 12	13.38	Jun 12, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 12	0.00	Jul 20, 2001
ANNUAL RUNOFF (AC-FT)	20,280		49,900		31,500	
10 PERCENT EXCEEDS	68		115		80	
50 PERCENT EXCEEDS	2.0		22		4.0	
90 PERCENT EXCEEDS	0.00		0.21		0.00	



06917380 MARMATON RIVER NEAR MARMATON, KS

LOCATION.--Lat 37°49'03", long 94°47'30", in SW ¼ NE ¼ NW ¼ sec.4, T.26 S., R.24 E., Bourbon County, Hydrologic Unit 10290104, on left bank 150 ft downstream from Cedar Creek, 2.0 mi southeast of Marmaton, and at mile 55.7.

DRAINAGE AREA.--292 mi^2.

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

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

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow affected at times, usually in September, by draining of Bourbon County State Lake located about 14.5 mi upstream of gage. Satellite telemeter at station.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 16	0000	3,010	12.70	Apr 24	1615	9,860	26.29
Dec 23	0600	5,340	18.02	Jun 13	0200	4,020	15.15
Mar 5	0245	*11,800	*29.43	Jul 2	1500	6,340	20.03
Mar 28	1400	6,030	19.41				

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	19	0.65	9.5	170	66	48	254	1,110	43	1,330	47	3.6
2	13	0.69	8.5	158	72	60	203	573	32	3,950	33	2.9
3	9.2	0.69	33	147	e72	55	170	308	25	2,300	23	2.2
4	22	0.68	156	140	e61	4,200	145	221	21	1,080	19	1.7
5	73	0.68	86	134	e68	8,780	128	179	18	1,810	15	1.2
6	70	0.64	60	107	68	1,550	116	151	16	1,580	12	2.4
7	73	0.53	45	63	65	681	102	127	14	714	10	2.1
8	63	0.47	35	53	61	449	90	102	12	348	8.8	1.5
9	33	0.45	217	54	53	304	79	83	14	370	7.6	1.1
10	16	0.47	1,160	52	58	225	87	68	18	389	6.9	0.85
11	9.9	0.58	446	49	80	185	131	58	278	199	6.3	0.73
12	6.5	0.61	248	49	137	157	116	53	1,420	139	5.4	0.71
13	4.6	0.62	186	47	126	144	87	277	2,620	104	4.8	0.65
14	4.0	0.56	173	44	107	136	67	948	828	75	4.3	0.67
15	e3.0	0.54	746	40	97	142	56	377	322	56	4.3	0.80
16	e2.5	0.54	1,300	42	91	257	50	222	193	55	4.2	1.0
17	e2.0	e28	416	735	91	210	45	155	150	61	3.9	1.0
18	e1.6	e546	241	1,410	100	165	41	145	302	64	3.7	0.89
19	e1.2	164	174	574	114	140	37	300	166	48	3.4	0.73
20	e1.0	72	140	329	123	129	44	189	110	37	3.5	0.65
21	e0.85	36	122	222	109	116	307	120	86	29	3.0	0.54
22	e0.75	27	262	184	84	95	196	80	102	23	2.7	0.48
23	0.70	27	3,050	151	71	83	173	58	72	19	2.5	0.41
24	0.74	23	650	133	63	76	6,480	46	50	18	2.4	0.38
25	0.63	22	365	172	55	70	3,370	40	37	52	2.2	0.35
26	0.56	18	250	236	53	67	708	43	28	110	2.0	0.30
27	0.50	15	218	162	46	65	406	854	64	56	2.1	0.29
28	0.57	14	990	e115	41	3,280	271	377	567	37	6.5	1.7
29	0.60	12	435	e100	41	1,370	218	159	233	30	8.1	10
30	0.66	11	263	e82	---	560	285	97	140	33	5.1	10
31	0.64	---	199	e68	---	349	---	62	---	40	3.6	---
MEAN	14.0	34.1	409	194	78.4	779	482	245	266	489	8.59	1.73
MAX	73	546	3,050	1,410	137	8,780	6,480	1,110	2,620	3,950	47	10
MIN	0.50	0.45	8.5	40	41	48	37	40	12	18	2.0	0.29
AC-FT	862	2,030	25,160	11,940	4,510	47,900	28,690	15,040	15,830	30,060	528	103

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

MEAN	251	337	223	172	289	480	461	386	392	183	75.9	170
MAX	3,884	1,523	997	980	1,627	2,603	3,139	2,002	1,652	2,071	793	1,895
(WY)	(1987)	(1975)	(1993)	(1973)	(1985)	(1973)	(1994)	(1990)	(1977)	(1992)	(1985)	(1998)
MIN	0.03	0.03	0.08	0.05	0.10	0.10	0.06	14.3	1.03	0.11	0.06	0.03
(WY)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1980)	(1980)	(1980)	(1980)	(2002)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1972 - 2004	
ANNUAL MEAN	109		252		284	
HIGHEST ANNUAL MEAN					644	1987
LOWEST ANNUAL MEAN					63.0	1996
HIGHEST DAILY MEAN	3,640	May 17	8,780	Mar 5	67,900	Oct 3, 1986
LOWEST DAILY MEAN	0.00	Aug 22	0.29	Sep 27	0.00	Aug 25, 1978
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 22	0.39	Sep 21	0.00	Oct 13, 1978
MAXIMUM PEAK FLOW			11,800	Mar 5	106,000	Oct 3, 1986
MAXIMUM PEAK STAGE			29.43	Mar 5	42.87	Oct 3, 1986
INSTANTANEOUS LOW FLOW			0.22	Sep 27	0.00	Aug 1, 1978
ANNUAL RUNOFF (AC-FT)	78,700		182,700		206,100	
10 PERCENT EXCEEDS	232		447		444	
50 PERCENT EXCEEDS	14		62		39	
90 PERCENT EXCEEDS	0.11		0.73		0.42	

e Estimated