

Water-Data Report 2013

07183500 NEOSHO RIVER NEAR PARSONS, KS

Neosho Basin
Middle Neosho Subbasin

LOCATION.--Lat 37°20'24", long 95°06'35" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.21, T.31 S., R.21 E., Labette County, KS, Hydrologic Unit 11070205, on right bank at downstream side of bridge on U.S. Highway 160, 0.4 mi upstream from Hickory Creek, 2.7 mi upstream from dam of Kansas Army Ammunition Plant, 8.0 mi east of Parsons, and at mile 204.1.

DRAINAGE AREA.--4,905 mi².

SURFACE-WATER RECORDS

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

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

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

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	88	23	23	26	553	1,150	6,150	1,080	22,900	931	3,040	9,080
2	73	22	29	25	342	814	2,400	780	10,600	910	1,150	8,980
3	53	25	24	26	240	578	1,190	740	2,210	836	2,070	8,870
4	41	29	22	28	179	716	748	1,300	1,180	609	19,200	8,750
5	32	30	21	29	138	1,580	552	1,910	3,320	383	23,400	8,620
6	24	30	21	27	116	1,930	439	1,560	9,720	238	17,400	8,520
7	19	28	22	28	110	1,370	367	1,240	3,550	279	14,400	8,410
8	16	26	24	29	111	840	1,330	983	1,480	347	11,700	8,320
9	15	25	23	29	119	546	3,890	976	1,260	341	13,500	8,100
10	15	27	22	31	138	493	1,270	1,640	2,860	334	15,700	7,860
11	15	38	e19	37	130	750	2,100	1,610	2,450	346	16,600	7,490
12	26	40	17	35	134	739	2,660	1,070	1,500	317	8,220	6,150
13	108	34	20	38	152	655	1,470	826	1,130	219	5,030	5,590
14	1,200	56	30	40	140	479	877	702	971	141	6,500	5,160
15	1,380	64	37	43	122	363	592	584	893	99	10,200	3,170
16	610	51	38	44	106	289	521	512	2,830	77	11,500	2,980
17	318	37	39	40	91	1,080	432	466	3,470	68	10,800	2,970
18	182	28	39	36	82	2,410	7,130	436	4,580	66	10,600	2,170
19	112	28	42	30	86	744	6,030	444	6,690	87	10,500	1,270
20	74	27	45	27	98	386	1,860	4,780	2,030	94	10,500	1,120
21	57	26	40	26	108	279	1,040	13,200	1,060	108	10,400	1,060
22	50	22	35	23	107	236	661	8,170	1,260	106	10,300	1,030
23	50	20	33	20	107	213	4,320	2,290	1,170	97	10,200	1,010
24	44	19	35	21	151	219	11,500	1,230	1,080	88	10,100	1,000
25	34	17	35	21	709	284	4,410	867	1,020	79	9,980	987
26	27	18	33	21	1,980	412	3,120	673	985	93	9,870	987
27	27	18	34	23	1,770	531	6,230	702	966	94	9,740	976
28	29	18	32	38	1,490	716	4,820	778	941	107	9,600	989
29	30	18	29	121	---	887	2,520	753	935	129	9,490	1,020
30	27	18	27	1,150	---	1,630	1,580	8,700	943	16,100	9,350	832
31	26	---	25	1,130	---	5,440	---	20,200	---	17,600	9,220	---
Mean	155	28.7	29.5	105	343	928	2,740	2,619	3,199	1,333	10,650	4,449
Max	1,380	64	45	1,150	1,980	5,440	11,500	20,200	22,900	17,600	23,400	9,080
Min	15	17	17	20	82	213	367	436	893	66	1,150	832
Ac-ft	9,520	1,710	1,810	6,430	19,060	57,040	163,100	161,100	190,400	81,960	655,100	264,700

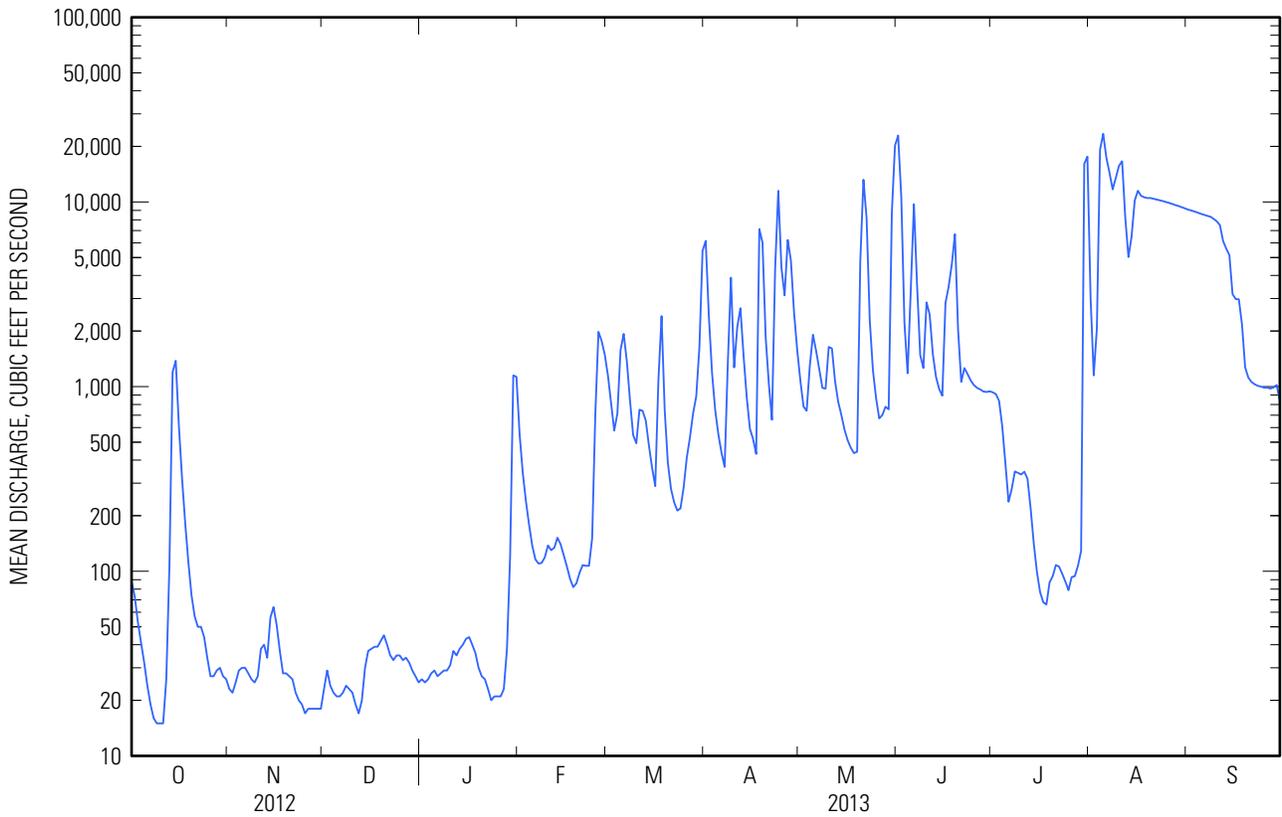
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,161	2,117	1,382	1,276	1,702	3,008	4,247	4,582	5,325	3,763	1,508	2,018
Max	25,520	20,340	12,760	7,762	9,492	18,100	25,520	22,110	20,610	52,780	11,140	15,030
(WY)	(1987)	(1999)	(1993)	(1973)	(1949)	(1973)	(1927)	(1961)	(1995)	(1951)	(1993)	(1951)
Min	0.00	0.00	0.00	0.00	0.00	8.10	18.6	282	106	10.8	0.00	0.90
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1981)	(1967)	(2012)	(1954)	(1936)	(1956)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1922 - 2013	
Annual mean	954		2,226		2,758	
Highest annual mean					8,611	1993
Lowest annual mean					173	1953
Highest daily mean	27,800	Mar 21	23,400	Aug 5	366,000	Jul 14, 1951
Lowest daily mean	15	Jul 6	15	Oct 9	0.00	Aug 26, 1934
Annual seven-day minimum	17	Jul 3	18	Nov 24	0.00	Aug 26, 1934
Maximum peak flow			24,700	Jul 31	410,000	Jul 14, 1951
Maximum peak stage			23.32	Jul 31	40.20	Jul 14, 1951
Instantaneous low flow			15	Oct 9	0.00	at times
Annual runoff (ac-ft)	692,700		1,612,000		1,998,000	
10 percent exceeds	1,630		8,800		8,110	
50 percent exceeds	84		493		605	
90 percent exceeds	22		25		41	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 2013 to September 2013.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 2013 to September 2013.

WATER TEMPERATURE: March 2013 to September 2013.

TURBIDITY (YSI 6136 sensor): March 2013 to September 2013.

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 Instrument (YSI) 6136 sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 564 microsiemens/cm, July 23, 2013; minimum, 107 microsiemens/cm, July 31, 2013.

WATER TEMPERATURE: Maximum, 35.3°C, July 10, 2013; minimum, 4.1°C, Mar. 26, 2013.

TURBIDITY (YSI 6136 sensor): Maximum, 860 FNU, Apr. 9, 2013; minimum, 4.9 FNU, July 18, 2013.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 564 microsiemens/cm, July 23; minimum, 107 microsiemens/cm, July 31.

WATER TEMPERATURE: Maximum, 35.3°C, July 10; minimum, 4.1°C, Mar. 26.

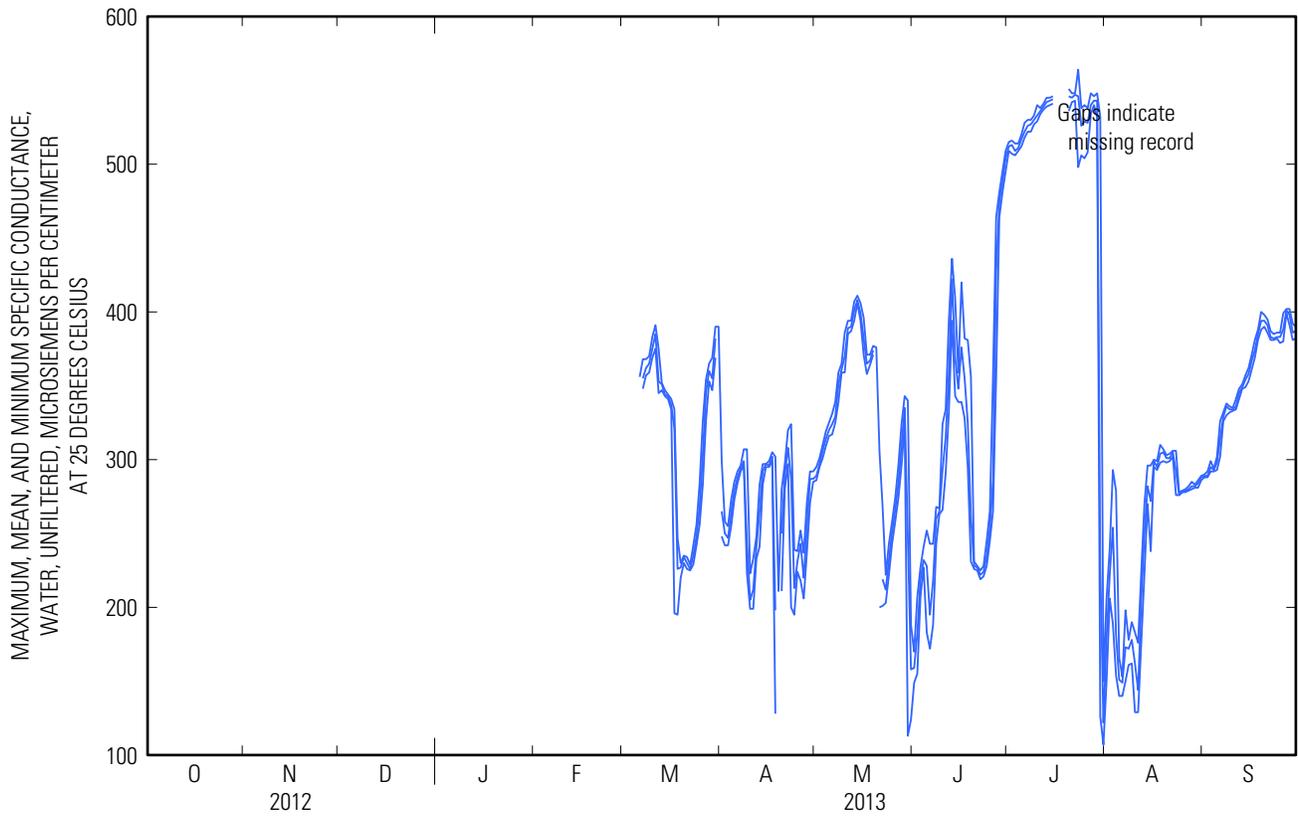
TURBIDITY (YSI 6136 sensor): Maximum, 860 FNU, Apr. 9; minimum, 4.9 FNU, July 18.

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	265	289	159	512	180	289
2	---	---	---	---	---	---	250	297	182	513	222	289
3	---	---	---	---	---	---	247	306	219	509	254	295
4	---	---	---	---	---	---	264	314	232	511	181	293
5	---	---	---	---	---	---	279	320	228	517	151	298
6	---	---	---	---	---	---	288	324	195	522	149	314
7	---	---	---	---	---	355	294	329	218	526	173	329
8	---	---	---	---	---	362	299	351	260	527	172	336
9	---	---	---	---	---	365	244	361	265	530	178	334
10	---	---	---	---	---	375	205	370	293	533	162	334
11	---	---	---	---	---	385	212	389	315	536	144	336
12	---	---	---	---	---	353	241	390	358	539	205	345
13	---	---	---	---	---	351	265	401	422	542	250	349
14	---	---	---	---	---	344	292	408	369	543	282	354
15	---	---	---	---	---	343	297	399	348	544	272	358
16	---	---	---	---	---	337	296	382	376	---	299	367
17	---	---	---	---	---	321	302	365	355	---	295	374
18	---	---	---	---	---	226	198	367	325	---	304	385
19	---	---	---	---	---	227	---	374	261	---	305	394
20	---	---	---	---	---	234	250	---	228	546	301	394
21	---	---	---	---	---	230	290	---	227	545	301	391
22	---	---	---	---	---	226	308	219	222	547	305	383
23	---	---	---	---	---	235	287	212	224	546	292	382
24	---	---	---	---	---	248	213	232	235	526	276	383
25	---	---	---	---	---	268	231	251	254	529	278	383
26	---	---	---	---	---	303	243	266	286	528	279	388
27	---	---	---	---	---	345	220	284	428	540	280	401
28	---	---	---	---	---	360	254	310	474	543	282	398
29	---	---	---	---	---	355	287	335	488	543	282	386
30	---	---	---	---	---	382	287	247	504	227	284	387
31	---	---	---	---	---	---	---	158	---	122	288	---
Total	---	---	---	---	---	---	---	---	8,950	---	7,626	10,649
Mean	---	---	---	---	---	---	---	---	298	---	246	355
Max	---	---	---	---	---	---	---	---	504	---	305	401
Min	---	---	---	---	---	---	---	---	159	---	144	289

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

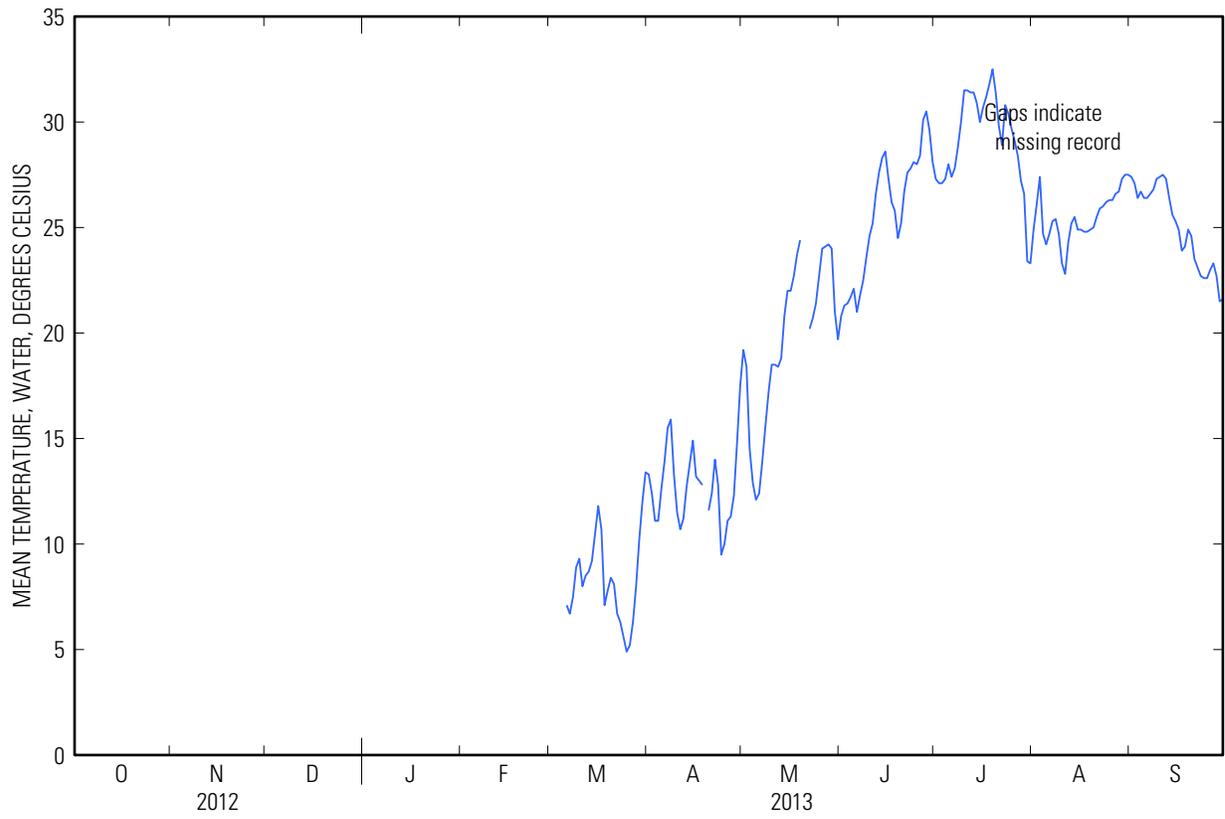
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	13.6	13.1	13.3	21.0	17.9	19.2
2	---	---	---	---	---	---	13.1	11.7	12.4	21.0	15.5	18.4
3	---	---	---	---	---	---	11.7	10.8	11.1	15.6	13.9	14.5
4	---	---	---	---	---	---	12.0	10.3	11.1	13.9	12.2	12.9
5	---	---	---	---	---	---	13.5	11.7	12.6	13.1	11.5	12.1
6	---	---	---	7.1	---	7.1	15.0	12.8	13.9	13.2	11.9	12.4
7	---	---	---	7.9	5.6	6.7	16.9	14.6	15.5	16.0	12.6	13.9
8	---	---	---	8.2	7.0	7.5	16.6	15.5	15.9	16.4	15.0	15.6
9	---	---	---	9.5	8.2	8.9	15.8	12.0	13.3	18.5	16.4	17.2
10	---	---	---	9.7	8.5	9.3	12.7	10.7	11.5	19.1	17.9	18.5
11	---	---	---	8.5	7.2	8.0	11.5	9.9	10.7	19.8	17.5	18.5
12	---	---	---	8.8	8.0	8.5	12.3	10.4	11.2	19.4	17.5	18.4
13	---	---	---	9.0	8.2	8.7	14.1	11.6	12.7	20.0	17.9	18.8
14	---	---	---	10.0	8.6	9.2	15.1	12.8	13.8	21.8	19.8	20.8
15	---	---	---	12.2	9.3	10.5	15.4	14.0	14.9	22.8	21.4	22.0
16	---	---	---	12.5	11.1	11.8	14.1	12.6	13.2	22.3	21.8	22.0
17	---	---	---	12.3	6.1	10.7	14.4	12.2	13.0	24.6	21.5	22.7
18	---	---	---	8.2	6.0	7.1	14.5	11.3	12.8	24.8	22.8	23.7
19	---	---	---	8.2	7.2	7.8	11.7	---	---	25.4	23.7	24.4
20	---	---	---	8.9	7.9	8.4	12.5	10.8	11.6	24.5	---	---
21	---	---	---	8.9	7.6	8.1	13.8	11.5	12.4	20.9	---	---
22	---	---	---	7.6	6.4	6.7	14.4	13.5	14.0	20.8	19.7	20.2
23	---	---	---	6.6	6.0	6.3	14.4	10.2	12.8	21.6	20.0	20.7
24	---	---	---	6.1	5.3	5.6	10.5	9.1	9.5	23.0	20.2	21.4
25	---	---	---	5.4	4.4	4.9	11.2	9.0	10	23.5	21.8	22.7
26	---	---	---	6.1	4.1	5.2	11.2	11.0	11.1	24.6	23.5	24.0
27	---	---	---	7.0	5.7	6.3	11.5	10.9	11.3	24.6	23.8	24.1
28	---	---	---	9.3	6.8	8.0	13.8	11.3	12.3	24.5	23.7	24.2
29	---	---	---	11.8	9.3	10.2	16.6	13.5	14.8	24.4	23.5	24.0
30	---	---	---	13.4	10.8	12.0	19.4	16.0	17.5	23.6	18.9	21.0
31	---	---	---	14.3	12.8	13.4	---	---	---	20.5	19.1	19.7
Month	---	---	---	---	---	---	19.4	---	---	25.4	---	---

07183500 NEOSHO RIVER NEAR PARSONS, KS—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	21.4	20.4	20.8	28.0	26.5	27.3	26.3	23.9	24.9	27.7	27.3	27.4
2	21.5	21.0	21.3	27.8	26.2	27.1	27.2	25.4	26.1	27.5	26.6	27.1
3	22.6	20.4	21.4	27.7	26.4	27.1	28.7	25.2	27.4	26.9	26.0	26.4
4	22.7	21.0	21.7	28.3	26.6	27.3	26.3	24.2	24.7	27.2	26.2	26.7
5	22.9	21.1	22.1	29.8	26.7	28.0	24.6	24.0	24.2	26.9	25.9	26.4
6	22.1	20.3	21.0	27.9	26.9	27.4	25.0	24.4	24.7	26.9	25.9	26.4
7	22.9	20.9	21.8	29.0	26.9	27.8	25.8	24.9	25.3	27.1	26.0	26.6
8	23.6	21.6	22.5	31.4	26.9	28.8	25.8	25.2	25.4	27.2	26.3	26.8
9	25.3	22.4	23.6	32.5	28.3	30.0	25.4	24.0	24.7	27.7	26.9	27.3
10	25.7	23.4	24.6	35.3	29.3	31.5	24.0	22.5	23.3	27.8	27.0	27.4
11	26.3	24.3	25.2	33.4	30.4	31.5	23.6	22.2	22.8	28.0	27.0	27.5
12	28.2	25.2	26.6	33.6	29.6	31.4	25.0	23.6	24.3	27.7	27.0	27.3
13	28.8	26.5	27.6	33.2	29.9	31.4	25.8	24.8	25.2	27.0	25.9	26.4
14	29.3	27.2	28.3	31.7	30.3	30.9	26.1	25.0	25.5	26.1	25.1	25.6
15	29.4	27.9	28.6	31.1	29.1	30.0	25.6	24.5	24.9	25.7	24.8	25.3
16	28.0	26.4	27.3	32.8	29.2	30.7	25.3	24.6	24.9	25.5	24.5	24.9
17	27.1	26.0	26.2	32.6	30.1	31.2	25.2	24.4	24.8	24.5	23.7	23.9
18	26.8	25.1	25.8	33.4	30.5	31.8	25.3	24.4	24.8	25.1	23.4	24.1
19	25.8	24.0	24.5	34.8	30.8	32.5	25.3	24.5	24.9	25.8	24.1	24.9
20	26.5	24.2	25.2	33.0	30.3	31.4	25.6	24.5	25.0	25.8	24.1	24.6
21	28.2	25.6	26.7	30.8	29.4	29.8	26.0	25.0	25.5	24.3	22.8	23.5
22	28.5	26.5	27.6	29.5	28.4	28.9	26.3	25.5	25.9	24.0	22.5	23.1
23	28.9	26.8	27.8	34.9	27.9	30.8	26.5	25.5	26.0	23.6	22.1	22.7
24	28.8	27.2	28.1	31.8	29.0	30.4	26.7	25.8	26.2	23.2	22.1	22.6
25	28.7	27.3	28.0	31.3	28.6	29.7	26.7	25.9	26.3	23.4	21.9	22.6
26	30.0	27.3	28.4	29.8	28.5	29.1	26.9	25.8	26.3	23.7	22.3	23.0
27	31.4	29.2	30.1	29.4	27.6	28.4	27.0	26.1	26.6	23.8	22.6	23.3
28	31.4	29.8	30.5	28.0	26.6	27.2	27.4	26.2	26.7	23.8	21.9	22.7
29	30.9	29.1	29.6	27.6	26.0	26.6	27.7	26.9	27.3	22.1	20.9	21.5
30	29.4	27.4	28.1	26.2	22.4	23.4	28.0	27.1	27.5	22.1	20.9	21.6
31	---	---	---	24.1	22.7	23.3	27.8	27.0	27.5	---	---	---
Month	31.4	20.3	25.7	35.3	22.4	29.1	28.7	22.2	25.5	28.0	20.9	25.0

07183500 NEOSHO RIVER NEAR PARSONS, KS—Continued



07183500 NEOSHO RIVER NEAR PARSONS, KS—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

07183500 NEOSHO RIVER NEAR PARSONS, KS—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	440	300	340	65	40	52
2	---	---	---	---	---	---	300	240	260	40	34	37
3	---	---	---	---	---	---	240	160	200	35	32	34
4	---	---	---	---	---	---	160	120	140	44	33	37
5	---	---	---	---	---	---	120	96	110	44	40	43
6	---	---	---	---	---	---	99	83	91	40	36	37
7	---	---	---	59	43	51	88	76	81	37	31	34
8	---	---	---	48	42	45	330	72	120	31	27	29
9	---	---	---	46	38	42	860	330	540	37	27	31
10	---	---	---	40	37	39	560	380	450	38	32	35
11	---	---	---	44	35	38	400	290	350	37	32	35
12	---	---	---	60	42	54	290	190	240	33	27	31
13	---	---	---	50	41	47	190	120	150	29	22	26
14	---	---	---	46	41	43	120	90	100	26	20	22
15	---	---	---	44	39	42	95	81	89	25	18	21
16	---	---	---	43	40	42	110	76	89	25	18	21
17	---	---	---	510	42	94	76	58	65	25	15	19
18	---	---	---	510	210	320	760	62	410	23	16	19
19	---	---	---	220	150	170	370	150	---	25	16	19
20	---	---	---	160	130	140	150	80	110	---	20	---
21	---	---	---	140	130	140	83	61	69	440	---	---
22	---	---	---	140	130	140	62	47	55	360	240	290
23	---	---	---	130	110	120	450	44	170	240	140	190
24	---	---	---	120	90	100	460	190	310	140	85	110
25	---	---	---	93	60	76	190	130	160	88	62	76
26	---	---	---	61	37	48	160	120	130	64	49	55
27	---	---	---	38	32	34	140	110	130	55	43	47
28	---	---	---	38	34	36	110	85	96	47	40	43
29	---	---	---	42	38	40	86	73	79	46	38	43
30	---	---	---	95	39	54	76	56	65	580	43	260
31	---	---	---	530	92	340	---	---	---	370	240	290
Month	---	---	---	---	---	---	860	44	---	---	---	---

07183500 NEOSHO RIVER NEAR PARSONS, KS—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	270	200	240	---	---	---	130	52	90	41	36	39
2	210	150	180	---	---	---	56	32	42	41	35	38
3	220	76	120	---	23	---	380	25	63	41	35	38
4	78	57	66	26	18	---	330	210	260	41	36	38
5	210	53	120	---	---	---	210	100	150	42	36	39
6	300	150	230	---	---	---	170	95	130	40	35	38
7	150	75	110	---	---	---	150	110	130	40	34	37
8	75	41	52	21	14	17	150	110	120	40	34	37
9	50	40	44	24	12	17	150	110	130	40	33	37
10	92	42	69	23	11	16	280	110	180	39	34	37
11	86	59	74	23	12	17	220	110	160	40	33	37
12	63	42	52	21	10	16	110	86	98	42	35	38
13	45	36	40	20	9.4	13	95	81	85	45	40	42
14	53	35	43	13	9.3	11	110	83	91	44	38	41
15	53	40	45	15	9.1	11	290	110	190	42	37	39
16	190	34	94	11	6.9	8.4	220	100	150	40	36	38
17	210	130	160	8.3	5.8	6.9	110	86	94	41	34	37
18	420	110	180	7.1	4.9	5.9	86	72	79	41	34	37
19	440	250	330	6.8	5.1	5.7	73	67	70	---	---	---
20	250	120	170	8.8	5.9	7.3	68	58	63	---	---	---
21	130	100	110	14	8.2	11	60	54	57	30	26	28
22	110	92	100	18	9.8	12	55	49	52	30	25	27
23	96	74	87	16	9.7	13	52	46	49	30	25	27
24	80	66	73	14	8.4	9.5	48	43	46	29	25	27
25	77	64	71	10	7.7	9.0	44	40	42	29	24	27
26	74	50	68	12	8.3	9.6	46	39	41	28	21	25
27	52	26	36	16	11	13	48	39	42	26	20	23
28	37	26	31	21	12	15	---	---	---	28	20	24
29	32	25	29	21	12	15	---	---	---	31	24	28
30	31	24	28	590	17	350	44	40	42	28	24	26
31	---	---	---	260	130	170	43	38	40	---	---	---
Month	440	24	100	---	---	---	---	---	---	---	---	---

07183500 NEOSHO RIVER NEAR PARSONS, KS—Continued

