



Water-Data Report 2008

## 07144780 NORTH FORK NINNESCAH RIVER ABOVE CHENEY RESERVOIR, KS

Middle Arkansas Basin  
North Fork Ninnescah Subbasin

LOCATION.--Lat 37°51'45", long 98°00'49" referenced to North American Datum of 1927, in NE ¼ SE ¼ NE ¼ sec.19, T.25 S., R.6 W., Reno County, KS, Hydrologic Unit 11030014, on right bank at upstream side of county highway bridge, 10 mi south of Hutchinson, 18.1 mi upstream from Cheney Dam, and at mile 33.8.

DRAINAGE AREA.--713 mi<sup>2</sup> of which 163 mi<sup>2</sup> probably is noncontributing.

### SURFACE-WATER RECORDS

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

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 23	2000	1,730	10.33
May 9	1330	*3,210	*11.55
May 24	1730	1,530	10.05
Sep 13	0730	1,630	10.35

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

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	24	40	58	116	100	113	97	82	366	177	138	42
2	25	40	59	111	e95	124	95	77	262	137	123	40
3	24	e41	56	116	e105	196	94	72	202	122	117	39
4	24	e42	56	119	117	196	95	70	169	112	112	38
5	24	e43	56	120	123	164	94	68	150	101	98	41
6	24	43	55	122	130	143	91	78	138	94	88	60
7	24	44	57	125	124	132	90	553	128	88	84	74
8	28	46	56	128	126	123	107	548	117	88	81	77
9	36	46	48	132	128	119	125	2,530	120	107	81	71
10	36	46	73	134	125	118	138	1,520	116	101	84	68
11	33	46	169	129	124	116	181	975	110	96	84	67
12	36	46	223	124	122	116	150	578	102	90	80	348
13	41	45	195	120	117	114	135	348	98	90	76	1,160
14	52	44	156	117	116	116	126	228	92	87	77	559
15	50	43	150	115	113	e119	119	176	87	83	79	372
16	44	44	123	114	112	e118	112	140	137	79	76	218
17	59	45	119	109	149	e118	109	116	182	76	71	165
18	62	45	123	110	197	120	108	104	219	74	69	137
19	59	46	118	e105	166	117	105	95	218	74	67	121
20	53	46	117	e95	145	112	104	86	182	73	50	109
21	49	47	120	e90	134	106	101	80	162	71	61	100
22	49	45	116	e85	125	101	96	77	140	69	56	91
23	47	47	109	e85	127	98	657	72	124	68	49	84
24	46	50	124	e85	123	96	391	857	112	66	55	78
25	46	52	123	e85	129	98	156	790	102	64	62	78
26	46	58	127	e90	127	98	121	451	96	76	61	77
27	44	59	126	e95	121	98	109	699	156	150	55	74
28	43	58	126	107	118	98	100	889	173	108	51	68
29	43	55	115	106	115	95	93	915	276	112	47	66
30	42	55	113	102	---	97	87	705	224	166	44	64
31	42	---	119	100	---	99	---	492	---	170	43	---
<b>Mean</b>	40.5	46.9	109	109	126	119	140	467	159	99.0	74.8	153
<b>Max</b>	62	59	223	134	197	196	657	2,530	366	177	138	1,160
<b>Min</b>	24	40	48	85	95	95	87	68	87	64	43	38
<b>Ac-ft</b>	2,490	2,790	6,710	6,730	7,250	7,300	8,300	28,700	9,440	6,090	4,600	9,100

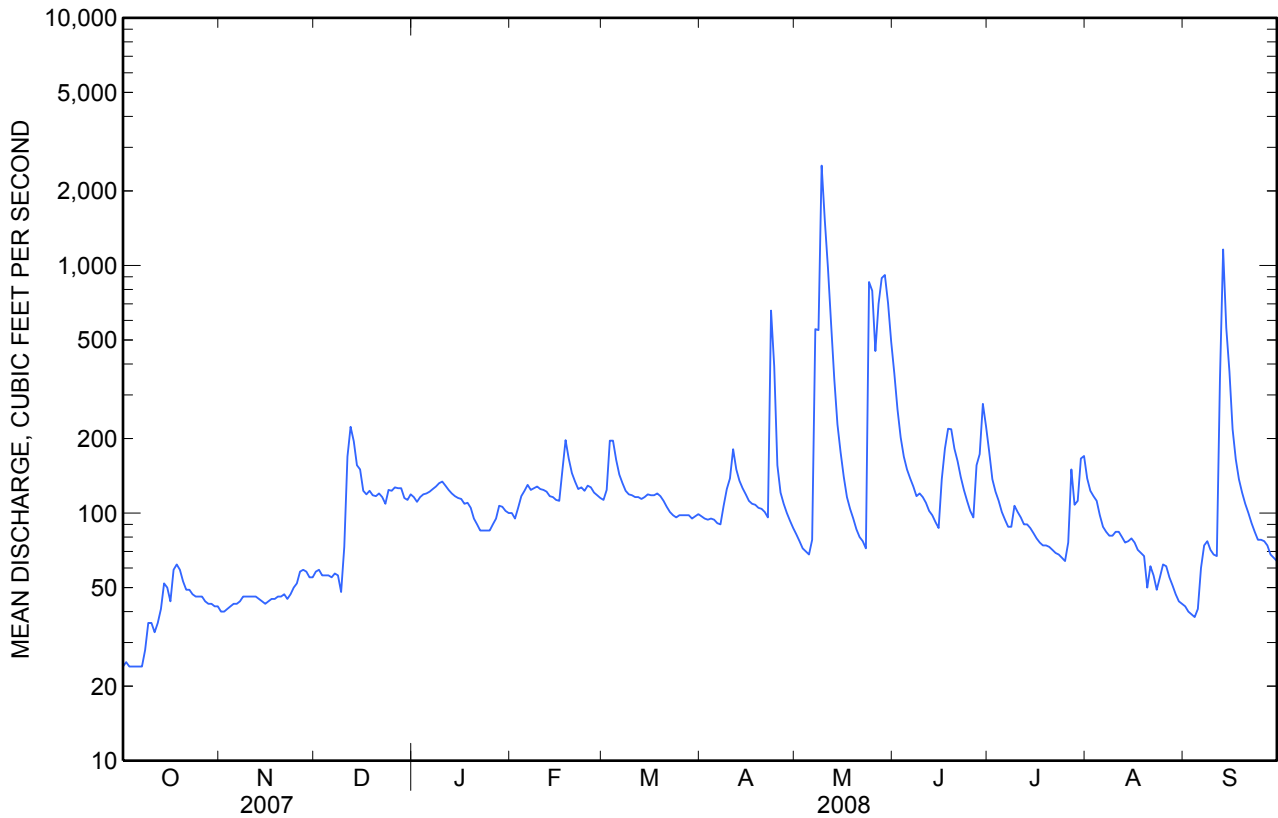
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	155	95.0	96.9	97.7	129	209	208	241	195	133	65.1	92.6
<b>Max</b>	1,632	305	252	202	535	866	1,097	1,805	820	1,392	351	968
<b>(WY)</b>	(1980)	(1982)	(1974)	(1980)	(1993)	(1987)	(1974)	(1995)	(1995)	(1987)	(1977)	(1977)
<b>Min</b>	15.0	36.0	39.5	50.3	54.7	44.7	48.3	32.5	16.5	13.0	8.08	6.80
<b>(WY)</b>	(1992)	(1967)	(1967)	(1977)	(1967)	(1967)	(1972)	(1967)	(1966)	(1968)	(1968)	(1971)

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

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1966 - 2008	
Annual mean	166		137		143	
Highest annual mean					388	1987
Lowest annual mean					54.3	1968
Highest daily mean	4,710	May 24	2,530	May 9	39,700	Oct 30, 1979
Lowest daily mean	21	Sep 7	24	Oct 1	0.00	Jul 14, 1966
Annual seven-day minimum	24	Sep 30	24	Oct 1	0.56	Jul 14, 1966
Maximum peak flow			3,210	May 9	87,000	Oct 30, 1979
Maximum peak stage			11.55	May 9	13.26	May 24, 2007
Instantaneous low flow			22	Oct 1	0.00	Jul 14, 1966
Annual runoff (ac-ft)	120,000		99,490		103,700	
10 percent exceeds	290		182		216	
50 percent exceeds	76		100		77	
90 percent exceeds	31		45		25	



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

**WATER-QUALITY RECORDS**

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1998 to current year.

pH: November 1998 to current year.

WATER TEMPERATURE: November 1998 to current year.

DISSOLVED OXYGEN: November 1998 to March 2008 (discontinued).

DISSOLVED OXYGEN (LUMIN): March 2008 to September 2008

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

INSTRUMENTATION.--Multiparameter water-quality monitor.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,760 microsiemens/cm, Jan. 15, 2007; minimum, 117 microsiemens/cm, June 17, 2005.

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

WATER TEMPERATURE: Maximum, 39.8°C, July 20, 2006; minimum, -0.2°C, Jan. 1, 2002.

DISSOLVED OXYGEN: Maximum, 18.4 mg/L, Jan. 27, 2001; minimum, 2.1 mg/L, July 20, 2006.

DISSOLVED OXYGEN (Lumin): Maximum, 15.0 mg/L, June 14, 2008; minimum, 5.6 mg/L, July 23, 24, Aug. 1, 2, 2008.

TURBIDITY (YSI 6026 sensor): Maximum, 1,700 FNU, July 3, 2005; minimum, 0.3 FNU, Oct. 9, 2006.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,460 microsiemens/cm, Jan. 23; minimum, 212 microsiemens/cm, Apr. 23.

pH: Maximum, 9.3 standard units, July 9; minimum, 7.4 standard units, May 9, 10.

WATER TEMPERATURE: Maximum, 37.0°C, July 22; minimum, -0.1°C, on several days.

DISSOLVED OXYGEN: Maximum, 16.8 mg/L, Dec. 29- 31, Jan. 1; minimum, 7.2 mg/L, Oct. 4.

DISSOLVED OXYGEN (Lumin): Maximum, 15.0 mg/L, June 14; minimum, 5.6 mg/L, July 23, 24, Aug. 1, 2.

TURBIDITY (YSI 6026 sensor): Maximum, 980 FNU, Apr. 23; minimum, 4.8 FNU, Jan. 23.

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	1,240	1,190	1,220	1,250	1,170	1,210	---	---	---
2	---	---	---	1,230	1,180	1,210	1,240	1,190	1,220	---	---	---
3	---	---	---	1,230	1,180	1,210	1,260	1,230	1,250	---	1,310	---
4	1,140	1,120	1,130	1,230	1,200	1,220	1,260	1,240	1,250	---	1,330	---
5	1,160	1,140	1,150	1,230	1,210	1,220	1,270	1,250	1,260	1,410	1,340	1,360
6	1,160	1,130	1,140	1,240	1,210	1,220	1,270	1,260	1,260	1,340	1,310	1,320
7	1,160	1,140	1,150	1,230	1,200	1,210	1,260	1,250	1,260	1,310	1,300	1,310
8	1,160	921	1,040	1,220	1,180	1,200	1,260	1,250	1,250	1,320	1,300	1,310
9	1,100	1,010	1,080	1,200	1,180	1,200	---	---	---	1,310	1,290	1,300
10	1,200	1,100	1,160	---	---	---	---	1,060	---	1,340	1,300	1,320
11	1,190	1,040	1,170	---	---	---	1,060	845	892	1,340	1,310	1,330
12	1,190	1,000	1,120	1,220	1,190	1,210	1,140	911	1,020	1,310	1,280	1,300
13	1,140	963	1,070	1,230	1,190	1,220	1,300	1,140	1,250	1,300	1,270	1,280
14	1,190	717	1,080	1,250	1,220	---	1,270	1,190	1,230	1,290	1,260	1,280
15	1,150	971	1,100	1,250	1,240	1,250	1,230	1,200	1,210	1,280	1,260	1,270
16	1,190	1,140	1,150	1,260	1,250	1,250	1,260	1,170	1,220	1,280	1,270	---
17	1,190	950	1,090	1,250	1,240	1,250	1,340	1,210	1,280	---	---	---
18	1,150	956	1,090	1,250	1,240	1,240	1,410	1,270	1,340	---	---	---
19	1,240	1,150	1,200	1,250	1,240	1,240	1,400	1,270	1,350	---	---	---
20	1,230	1,180	1,200	1,250	1,230	1,240	1,400	1,370	1,380	---	1,300	---
21	1,230	1,210	1,220	1,270	1,240	1,260	1,410	1,390	1,400	1,410	1,300	1,380
22	1,220	1,180	1,200	1,280	1,260	1,270	1,430	---	---	1,430	1,320	1,390
23	1,220	1,180	1,200	1,310	1,220	1,280	---	1,280	---	1,460	1,350	1,410
24	1,230	1,190	1,210	1,260	1,220	1,240	1,450	1,350	1,390	1,420	1,310	1,380
25	1,230	1,180	1,220	1,250	1,220	1,240	1,430	1,380	1,400	1,450	---	---
26	1,220	---	---	1,280	1,240	1,260	1,420	1,390	1,400	---	1,200	---
27	1,210	1,170	1,200	1,300	1,260	1,280	1,420	1,400	1,420	---	1,140	---
28	1,210	1,170	---	1,270	1,260	1,270	1,410	1,350	---	1,260	1,170	1,240
29	1,220	1,170	1,200	1,270	1,240	1,250	---	---	---	1,260	1,240	1,250
30	1,220	1,210	1,210	1,260	1,240	1,250	1,390	1,310	---	---	1,230	---
31	1,240	1,200	1,220	---	---	---	1,420	1,350	---	1,300	1,150	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	1,280	1,150	---	1,280	1,260	1,270	1,270	1,250	1,260	1,170	1,050	1,130
2	---	---	---	1,290	1,080	1,230	1,260	---	---	1,160	1,080	1,110
3	1,260	1,200	1,230	1,160	1,020	1,090	---	---	---	1,160	1,090	1,140
4	1,250	1,220	1,230	1,330	1,160	1,280	---	1,190	---	1,130	990	1,080
5	1,300	1,250	1,280	1,360	1,330	1,350	1,230	1,200	1,210	---	---	---
6	---	1,240	---	1,330	1,220	1,300	1,230	1,180	1,220	1,130	---	---
7	1,300	1,260	1,270	1,300	1,280	1,290	1,230	1,210	1,220	1,070	438	686
8	1,280	1,260	1,270	1,320	1,260	1,290	1,220	936	1,040	1,020	495	791
9	1,300	1,270	1,290	1,340	1,280	1,320	1,110	916	1,010	782	352	429
10	1,320	1,300	1,310	1,340	1,320	1,330	1,120	987	1,060	616	481	553
11	1,320	1,270	1,290	1,320	1,300	1,310	1,170	992	1,060	625	598	614
12	1,310	1,280	1,290	1,300	1,270	1,290	1,240	1,160	1,210	706	605	650
13	1,290	1,240	1,270	1,290	1,270	1,280	---	---	---	806	706	752
14	1,290	1,270	1,280	1,280	1,250	1,260	---	---	---	898	806	853
15	1,310	1,270	1,290	1,230	1,220	1,220	---	---	---	961	898	934
16	1,310	1,210	1,280	1,240	1,220	1,230	1,310	1,300	1,300	1,040	959	994
17	1,210	1,010	1,100	1,250	1,210	1,230	1,300	1,280	1,290	1,110	1,040	1,090
18	1,370	1,060	1,210	1,230	1,210	1,220	1,290	1,280	1,280	1,140	1,100	1,120
19	1,410	1,370	1,390	1,230	1,220	1,220	1,320	1,270	1,290	1,140	1,120	1,140
20	1,390	1,350	1,370	1,270	1,220	1,240	1,330	1,260	1,290	1,160	1,120	1,130
21	1,350	1,300	1,330	1,260	1,250	1,260	1,300	1,250	1,280	1,160	1,110	1,130
22	1,320	1,220	1,290	1,270	1,250	1,260	1,270	1,230	1,250	1,170	1,120	1,140
23	1,300	1,260	1,280	1,260	1,230	1,240	1,240	212	830	1,160	1,100	1,130
24	1,260	1,200	1,230	1,250	1,230	1,240	829	277	573	1,100	345	585
25	1,280	1,220	1,250	1,270	1,250	1,260	1,060	829	982	740	403	592
26	1,330	1,280	1,310	1,270	1,250	1,260	1,100	1,040	1,060	795	740	774
27	1,340	1,290	1,310	1,250	1,240	1,240	1,120	1,080	1,100	770	525	662
28	1,300	1,280	1,280	1,270	1,240	1,260	1,120	1,080	1,100	590	519	556
29	1,280	1,270	1,280	1,270	1,260	1,270	1,190	1,090	1,150	594	532	561
30	---	---	---	1,270	1,250	1,270	1,190	1,170	1,180	591	527	550
31	---	---	---	1,260	1,250	1,260	---	---	---	667	591	630
Month	---	---	---	1,360	1,020	1,260	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	778	651	711	898	708	818	---	926	---	1,190	1,120	1,160
2	864	778	825	901	771	849	---	---	---	1,170	1,090	1,120
3	936	864	909	965	833	908	---	---	---	1,170	1,140	1,150
4	981	936	955	988	766	908	---	---	---	1,170	1,150	1,160
5	1,040	939	997	1,050	707	901	1,040	1,020	1,030	1,170	1,070	1,120
6	1,060	924	1,010	1,040	721	906	1,060	1,010	1,040	1,100	930	991
7	1,120	1,060	1,090	---	---	---	1,100	1,030	1,070	1,080	989	1,010
8	1,140	1,080	1,120	---	---	---	1,110	1,050	1,090	1,090	942	998
9	1,110	1,070	1,090	953	729	868	1,110	1,050	1,070	1,110	977	1,040
10	1,120	1,070	1,100	1,060	936	998	1,100	1,020	1,050	1,150	1,100	1,130
11	1,130	1,020	1,080	1,030	978	1,010	1,080	1,040	1,050	1,160	1,090	1,140
12	1,080	956	1,020	1,050	1,000	1,030	1,110	1,070	1,090	1,090	331	640
13	1,000	851	931	1,060	1,040	1,050	1,120	1,090	1,110	550	289	364
14	928	795	871	1,090	1,040	1,060	1,120	1,010	1,060	767	550	674
15	893	772	844	1,080	1,030	1,060	1,050	---	---	924	767	853
16	902	619	776	1,040	962	1,010	1,080	---	---	---	924	---
17	948	730	794	999	940	973	1,100	---	---	1,070	---	---
18	1,020	846	912	1,020	965	988	---	---	---	1,100	1,070	1,080
19	982	930	969	1,030	953	1,000	1,140	1,080	---	1,120	1,100	1,110
20	1,020	954	995	1,060	964	---	1,140	1,140	1,140	1,130	1,120	1,120
21	1,050	937	1,000	1,180	1,060	1,130	1,160	1,140	1,150	1,140	1,130	1,130
22	1,030	936	985	1,200	1,140	1,180	1,170	1,160	1,160	1,140	1,120	1,130
23	1,040	930	986	1,170	1,100	1,150	1,190	1,160	1,180	1,160	1,120	1,140
24	1,080	964	1,030	1,180	1,120	1,150	1,180	914	1,070	1,150	1,100	1,140
25	1,100	938	1,020	1,160	1,130	1,150	1,140	1,080	1,110	---	---	---
26	1,070	847	987	1,150	652	1,060	1,200	1,100	1,150	---	---	---
27	964	715	800	742	567	660	1,240	1,150	1,200	---	---	---
28	834	728	775	1,040	742	920	1,250	1,210	1,230	---	---	---
29	815	625	676	975	889	---	1,240	1,190	1,220	---	---	---
30	863	789	829	---	---	---	1,210	1,060	1,170	1,200	1,180	1,190
31	---	---	---	926	798	885	1,170	1,110	1,140	---	---	---
Month	1,140	619	936	---	---	---	---	---	---	---	---	---

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

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	8.8	8.3	8.5	8.6	8.3	8.4	8.5	8.4	8.5	8.6	8.5	8.5
2	8.9	8.3	8.5	8.6	8.3	8.4	8.6	8.4	8.6	8.6	8.5	8.5
3	8.8	8.3	8.5	8.6	8.3	8.4	8.6	8.5	8.5	8.5	8.5	8.5
4	8.8	8.2	8.5	8.7	8.3	8.4	8.6	8.5	8.6	8.5	8.5	8.5
5	8.9	8.2	8.4	8.7	8.3	8.5	8.7	8.5	8.6	8.6	8.5	8.5
6	8.8	8.2	8.4	8.6	8.4	8.5	8.6	8.5	8.6	8.5	8.4	8.5
7	8.9	8.2	8.5	8.6	8.4	8.5	8.6	8.5	8.5	8.5	8.4	8.5
8	8.9	8.2	8.5	8.6	8.4	8.4	8.6	8.5	8.6	8.4	8.4	8.4
9	8.9	8.2	8.5	8.6	8.3	8.4	8.6	8.5	8.5	8.4	8.3	8.4
10	8.9	8.3	8.6	8.6	8.4	8.5	8.5	8.5	8.5	8.4	8.4	8.4
11	8.9	8.4	8.6	8.7	8.3	8.5	8.5	8.3	8.3	8.4	8.4	8.4
12	8.8	8.4	8.6	8.6	8.3	8.5	8.3	8.3	8.3	8.4	8.4	8.4
13	8.8	8.4	8.6	8.6	8.4	8.5	8.4	8.3	8.3	8.4	8.3	8.4
14	8.8	8.1	8.5	8.6	8.4	8.5	8.4	8.4	8.4	8.4	8.3	8.4
15	8.8	8.4	8.7	8.6	8.4	8.5	8.5	8.4	8.4	8.4	8.3	8.4
16	8.7	8.6	8.6	8.6	8.4	8.4	8.5	8.4	8.4	8.4	8.4	8.4
17	8.6	8.3	8.4	8.6	8.3	8.4	8.5	8.4	8.5	8.4	8.3	8.3
18	8.6	8.3	8.5	8.6	8.3	8.4	8.5	8.3	8.5	8.3	8.3	8.3
19	8.6	8.4	8.5	8.7	8.3	8.5	8.4	8.4	8.4	8.3	8.3	8.3
20	8.6	8.3	8.5	8.7	8.3	8.5	8.5	8.4	8.5	8.3	8.2	8.3
21	8.6	8.3	8.5	8.6	8.4	8.5	8.5	8.5	8.5	8.3	8.2	8.3
22	8.6	8.3	8.5	8.6	8.4	8.5	8.6	8.5	8.6	8.2	8.1	8.1
23	8.6	8.3	8.4	8.5	8.4	8.4	8.6	8.5	8.5	8.1	8.0	8.1
24	8.6	8.3	8.5	8.5	8.4	8.5	8.6	8.5	8.6	8.1	8.1	8.1
25	8.6	8.3	8.5	8.5	8.4	8.4	8.6	8.5	8.6	8.2	8.1	8.1
26	8.6	8.3	8.4	8.6	8.4	8.5	8.6	8.6	8.6	8.2	8.1	8.1
27	8.6	8.3	8.4	8.6	8.4	8.5	8.6	8.6	8.6	8.2	8.1	8.2
28	8.6	8.3	8.4	8.6	8.4	8.5	8.6	8.6	8.6	8.2	8.2	8.2
29	8.6	8.3	8.4	8.5	8.4	8.5	8.6	8.5	8.6	8.3	8.2	8.3
30	8.7	8.3	8.5	8.6	8.5	8.5	8.5	8.5	8.5	8.3	8.2	8.2
31	8.7	8.3	8.5	---	---	---	8.6	8.5	8.5	8.3	8.2	8.2
<b>Max</b>	8.9	8.6	8.7	8.7	8.5	8.5	8.7	8.6	8.6	8.6	8.5	8.5
<b>Min</b>	8.6	8.1	8.4	8.5	8.3	8.4	8.3	8.3	8.3	8.1	8.0	8.1



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

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	8.2	8.1	8.2	8.3	8.2	8.3	8.5	8.4	8.4	8.4	8.1	8.2
2	8.2	8.2	8.2	8.3	8.2	8.2	8.4	8.3	8.4	8.6	8.2	8.3
3	8.2	8.2	8.2	8.2	8.2	8.2	8.5	8.3	8.3	8.5	8.3	8.4
4	8.3	8.2	8.3	8.2	8.2	8.2	8.5	8.3	8.4	8.3	8.2	8.2
5	8.3	8.3	8.3	8.3	8.2	8.3	8.4	8.3	8.4	8.3	8.1	8.2
6	8.3	8.2	8.2	8.3	8.3	8.3	8.4	8.3	8.3	8.3	8.0	8.2
7	8.3	8.2	8.3	8.3	8.3	8.3	8.5	8.3	8.4	8.2	7.5	7.6
8	8.3	8.2	8.3	8.3	8.3	8.3	8.4	8.3	8.3	7.7	7.6	7.7
9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.3	7.6	7.4	7.4
10	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.2	8.2	7.6	7.4	7.5
11	8.4	8.3	8.3	8.3	8.2	8.3	8.3	8.2	8.2	7.7	7.6	7.6
12	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.2	8.3	7.8	7.7	7.7
13	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.3	7.8	7.7	7.8
14	8.4	8.3	8.3	8.4	8.3	8.3	8.4	8.3	8.4	7.9	7.8	7.9
15	8.4	8.3	8.3	8.5	8.4	8.5	8.4	8.2	8.3	8.0	7.9	7.9
16	8.3	8.3	8.3	8.5	8.4	8.5	8.3	8.2	8.3	8.0	8.0	8.0
17	8.3	8.2	8.2	8.5	8.4	8.4	8.5	8.2	8.3	8.1	7.9	8.0
18	8.2	8.2	8.2	8.4	8.4	8.4	8.4	8.3	8.4	8.3	8.0	8.1
19	8.3	8.2	8.2	8.4	8.3	8.4	8.4	8.3	8.3	8.3	8.1	8.1
20	8.3	8.3	8.3	8.4	8.0	8.4	8.3	8.2	8.2	8.7	8.0	8.3
21	8.3	8.3	8.3	8.5	8.3	8.4	8.3	8.2	8.3	8.6	8.3	8.4
22	8.3	8.2	8.3	8.5	8.4	8.5	8.4	8.3	8.3	8.5	8.1	8.3
23	8.3	8.3	8.3	8.5	8.4	8.5	8.3	7.5	8.2	8.6	8.1	8.3
24	8.3	8.3	8.3	8.5	8.3	8.4	7.7	7.5	7.6	8.2	7.6	7.8
25	8.3	8.3	8.3	8.5	8.4	8.4	8.1	7.7	8.0	7.8	7.7	7.8
26	8.3	8.3	8.3	8.5	8.4	8.4	8.2	8.1	8.1	8.2	7.8	8.0
27	8.3	8.3	8.3	8.6	8.3	8.4	8.3	8.2	8.2	8.1	7.9	8.0
28	8.4	8.3	8.3	8.5	8.4	8.5	8.3	8.2	8.2	7.9	7.9	7.9
29	8.4	8.3	8.3	8.5	8.4	8.5	8.3	8.2	8.3	7.9	7.8	7.9
30	---	---	---	8.5	8.3	8.4	8.3	8.1	8.2	7.9	7.9	7.9
31	---	---	---	8.5	8.1	8.4	---	---	---	8.0	7.9	8.0
<b>Max</b>	8.4	8.3	8.4	8.6	8.4	8.5	8.5	8.4	8.4	8.7	8.3	8.4
<b>Min</b>	8.2	8.1	8.2	8.2	8.0	8.2	7.7	7.5	7.6	7.6	7.4	7.4

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

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	8.1	8.0	8.1	9.0	8.4	8.7	8.9	8.2	8.5	8.7	8.2	8.4
2	8.4	8.1	8.2	9.0	8.6	8.9	9.0	8.4	8.7	8.8	8.2	8.5
3	8.6	8.2	8.4	9.1	8.6	8.8	8.8	8.4	8.6	8.8	8.4	8.5
4	8.8	8.3	8.6	9.1	8.4	8.7	8.8	8.3	8.7	8.8	8.3	8.5
5	8.9	8.4	8.7	9.0	8.4	8.6	8.9	8.5	8.7	8.6	8.2	8.4
6	8.9	8.4	8.6	8.9	8.2	8.6	9.0	8.5	8.8	8.5	8.2	8.3
7	8.8	8.4	8.7	8.9	8.1	8.6	9.0	8.5	8.7	8.6	8.2	8.3
8	8.9	8.4	8.6	9.2	8.0	8.5	8.9	8.5	8.7	8.4	8.2	8.3
9	8.9	8.5	8.7	9.3	8.1	8.8	8.8	8.5	8.7	8.6	8.3	8.4
10	8.8	8.5	8.7	9.1	8.3	8.7	8.6	8.4	8.5	8.7	8.4	8.5
11	8.8	8.5	8.7	8.9	8.3	8.7	8.7	8.3	8.6	8.6	8.4	8.5
12	8.9	8.5	8.7	9.1	8.2	8.8	8.8	8.4	8.6	8.5	7.8	8.0
13	9.1	8.3	8.8	8.8	8.5	8.7	8.8	8.4	8.6	7.8	7.7	7.8
14	9.2	8.2	8.9	8.8	8.5	8.7	9.0	8.5	8.8	8.0	7.8	8.0
15	9.1	8.2	8.8	8.8	8.4	8.6	9.0	8.4	8.7	8.2	8.0	8.1
16	8.8	8.1	8.6	9.0	8.3	8.7	8.9	8.5	8.7	8.3	8.1	8.1
17	8.8	8.1	8.5	9.0	8.2	8.7	8.8	8.4	8.7	8.5	8.2	8.3
18	8.7	8.2	8.5	9.1	8.2	8.7	8.8	8.4	8.6	8.6	8.3	8.4
19	9.0	8.3	8.7	9.0	8.2	8.6	8.8	8.4	8.6	8.7	8.3	8.5
20	9.1	8.4	8.7	8.8	8.3	8.5	8.8	8.4	8.6	8.8	8.3	8.5
21	9.1	8.3	8.7	8.8	8.2	8.5	8.8	8.3	8.6	8.8	8.3	8.6
22	9.1	8.2	8.8	8.8	8.2	8.4	8.8	8.4	8.6	8.8	8.4	8.6
23	9.1	8.2	8.7	8.9	8.1	8.5	8.8	8.3	8.6	8.6	8.4	8.5
24	8.9	8.2	8.5	9.0	8.0	8.5	8.8	8.3	8.5	8.6	8.3	8.5
25	8.9	8.4	8.7	8.9	8.1	8.5	9.0	8.4	8.7	8.7	8.3	8.5
26	8.9	8.3	8.6	8.8	8.0	8.3	9.0	8.4	8.7	8.7	8.4	8.5
27	8.7	8.2	8.4	8.5	8.0	8.1	8.9	8.4	8.7	8.7	8.4	8.5
28	8.6	8.2	8.3	8.8	8.2	8.3	8.9	8.5	8.7	8.7	8.4	8.5
29	8.4	8.2	8.3	8.6	8.3	8.3	8.9	8.4	8.6	8.7	8.4	8.5
30	8.7	8.3	8.5	---	---	---	8.8	8.2	8.6	8.6	8.4	8.5
31	---	---	---	8.4	8.0	8.2	8.8	8.3	8.5	---	---	---
Max	9.2	8.5	8.9	---	---	---	9.0	8.5	8.8	8.8	8.4	8.6
Min	8.1	8.0	8.1	---	---	---	8.6	8.2	8.5	7.8	7.7	7.8

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

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
<b>1</b>	26.3	13.0	19.0	14.6	5.6	9.8	12.4	2.5	7.2	1.5	-0.1	0.3
<b>2</b>	28.4	18.7	22.1	14.4	6.5	10.2	11.8	3.1	7.1	0.8	-0.1	0.1
<b>3</b>	26.2	13.5	18.9	14.4	5.5	9.8	6.8	0.2	3.5	0.9	-0.1	0.2
<b>4</b>	28.7	17.6	22.1	16.9	6.5	11.4	10.4	2.4	6.1	2.6	0.0	1.0
<b>5</b>	28.2	18.9	22.6	14.4	8.1	10.7	7.5	3.0	5.5	4.8	-0.1	2.5
<b>6</b>	28.0	20.3	23.3	12.6	4.6	8.1	3.4	1.6	2.4	7.5	3.4	5.4
<b>7</b>	29.1	20.8	24.4	12.1	3.9	7.7	2.9	1.9	2.4	8.9	4.2	6.1
<b>8</b>	26.2	15.8	20.3	14.6	4.9	9.3	2.3	0.0	1.2	7.6	4.1	5.7
<b>9</b>	26.6	13.6	19.6	15.5	6.3	10.5	0.1	0.0	0.0	6.4	2.0	4.1
<b>10</b>	24.7	14.4	19.1	15.9	8.2	11.9	0.3	0.0	0.1	6.0	2.6	4.0
<b>11</b>	23.3	13.1	17.7	20.1	12.4	15.8	0.6	0.0	0.2	6.5	0.8	3.7
<b>12</b>	18.6	13.9	16.4	16.1	10.0	13.6	1.4	0.5	1.0	6.8	2.0	4.3
<b>13</b>	24.4	14.9	19.0	14.8	6.7	10.6	3.1	0.0	1.4	6.0	0.4	3.2
<b>14</b>	20.6	16.9	18.6	11.6	5.6	---	1.5	0.0	0.5	6.2	0.7	3.4
<b>15</b>	18.0	13.8	15.6	10.9	2.7	6.4	0.6	0.0	0.1	6.6	0.5	3.5
<b>16</b>	20.9	10.5	15.2	12.0	3.3	7.3	1.4	0.0	0.3	4.3	0.0	1.9
<b>17</b>	18.7	15.4	16.7	13.8	4.6	9.1	2.5	0.0	0.9	0.6	-0.1	0.1
<b>18</b>	16.1	12.3	14.6	15.3	7.1	11.0	3.9	0.0	1.6	0.3	-0.1	0.0
<b>19</b>	18.9	9.6	14.1	17.3	9.2	13.0	4.4	0.0	2.1	0.0	-0.1	0.0
<b>20</b>	20.9	11.6	15.8	---	9.3	---	5.5	0.6	3.0	0.1	0.0	0.0
<b>21</b>	17.5	11.9	15.1	9.3	2.7	5.6	6.7	1.8	4.2	0.0	0.0	0.0
<b>22</b>	14.3	9.9	11.4	6.8	0.0	2.9	4.7	0.0	1.4	0.2	0.0	0.0
<b>23</b>	17.3	6.6	11.6	2.6	0.0	1.2	0.6	-0.1	0.1	0.3	0.0	0.1
<b>24</b>	17.9	10.2	13.4	7.0	1.0	3.4	3.4	0.0	1.3	0.3	0.0	0.1
<b>25</b>	17.0	7.6	11.9	6.7	0.0	3.1	5.2	0.1	2.6	0.4	0.0	0.1
<b>26</b>	16.8	6.5	11.3	8.2	1.0	4.3	2.9	0.8	1.9	0.5	-0.1	0.1
<b>27</b>	15.9	7.8	11.4	8.4	0.8	4.5	1.3	0.0	0.9	2.1	-0.1	0.7
<b>28</b>	16.1	7.1	11.3	7.2	2.7	5.3	1.7	-0.1	0.4	9.1	2.1	6.0
<b>29</b>	18.2	8.9	13.1	6.2	0.0	2.9	1.7	-0.1	0.5	7.3	1.2	3.8
<b>30</b>	18.7	10.6	14.2	3.6	0.8	2.3	2.4	0.0	0.7	5.2	0.0	2.3
<b>31</b>	15.7	10.3	12.6	---	---	---	3.6	-0.1	1.3	3.4	0.0	0.5
<b>Month</b>	29.1	6.5	16.5	---	0.0	---	12.4	-0.1	2.0	9.1	-0.1	2.0

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

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
<b>1</b>	0.3	-0.1	0.1	15.3	6.4	10.9	16.8	6.6	11.4	25.0	15.7	20.0
<b>2</b>	1.7	0.0	0.5	12.8	6.8	10.6	17.9	7.2	12.1	18.8	11.6	15.6
<b>3</b>	6.8	0.0	3.3	8.3	4.1	6.0	14.8	11.3	12.9	20.5	7.6	13.7
<b>4</b>	10.1	2.8	6.1	9.4	2.4	5.8	18.5	8.3	12.9	22.7	10.3	16.3
<b>5</b>	6.0	0.0	2.9	8.9	4.3	6.1	18.5	9.2	13.7	22.9	13.4	17.9
<b>6</b>	2.9	0.0	0.8	10.6	2.6	6.4	20.1	9.8	14.3	24.8	16.4	19.7
<b>7</b>	7.3	0.5	3.4	7.9	2.4	5.1	15.2	8.9	10.9	20.4	15.8	17.0
<b>8</b>	8.0	2.1	4.7	8.4	0.0	3.8	11.0	5.7	8.4	21.6	15.3	18.1
<b>9</b>	9.0	1.8	5.3	12.6	3.2	7.5	10.0	6.7	8.6	20.4	15.8	17.9
<b>10</b>	5.5	0.8	3.3	13.7	4.8	9.1	12.8	8.9	10.4	20.4	17.9	19.2
<b>11</b>	6.1	-0.1	2.7	15.8	5.6	10.5	11.0	6.8	8.8	17.9	14.0	16.2
<b>12</b>	5.8	1.2	3.5	15.7	7.9	11.8	13.5	6.6	9.8	20.1	14.9	17.4
<b>13</b>	8.9	0.7	4.6	14.4	8.8	11.4	15.4	5.9	10.4	20.4	16.2	18.4
<b>14</b>	7.4	2.2	4.7	12.9	8.4	---	18.1	6.5	11.8	20.4	15.8	18.2
<b>15</b>	4.5	-0.1	1.9	14.1	7.2	10.3	19.1	8.4	13.7	23.3	16.3	19.5
<b>16</b>	3.9	2.0	2.9	9.9	6.1	7.4	22.8	10.8	16.5	24.2	16.5	20.3
<b>17</b>	7.4	2.7	4.7	8.1	6.2	7.1	18.6	10.0	14.1	25.9	17.1	21.4
<b>18</b>	6.6	1.8	4.2	12.8	6.3	9.0	18.5	7.6	12.6	27.0	17.9	22.4
<b>19</b>	9.0	1.4	5.1	16.2	5.7	10.5	21.8	9.4	15.5	26.7	18.6	23.0
<b>20</b>	6.8	1.7	3.9	16.9	7.6	12.1	22.6	13.0	17.5	26.1	19.1	22.7
<b>21</b>	2.0	-0.1	0.4	17.3	8.3	12.7	26.1	15.6	20.0	25.1	17.4	21.2
<b>22</b>	7.0	0.0	2.8	13.5	9.6	11.3	24.7	13.7	19.3	27.0	19.0	22.5
<b>23</b>	3.8	1.2	1.7	15.0	4.6	9.6	19.5	11.8	15.9	26.2	20.4	23.5
<b>24</b>	8.5	1.4	4.4	15.9	6.0	10.6	20.2	13.8	16.4	23.5	19.3	20.8
<b>25</b>	9.5	4.5	6.6	18.4	8.1	12.8	20.2	15.0	17.8	26.7	20.8	23.4
<b>26</b>	8.0	0.8	4.4	14.6	8.8	11.8	19.0	12.6	15.1	25.8	22.4	24.0
<b>27</b>	10.4	1.3	5.8	13.4	9.5	11.8	19.0	10.3	14.5	23.0	20.9	21.9
<b>28</b>	9.9	4.2	6.7	12.6	6.9	9.2	20.7	10.4	15.3	21.8	19.7	20.3
<b>29</b>	13.2	4.6	8.6	10.8	7.1	8.9	21.3	10.8	16.1	24.9	19.8	22.0
<b>30</b>	---	---	---	12.6	10.0	11.0	22.8	13.0	17.7	28.2	22.9	25.3
<b>31</b>	---	---	---	16.6	11.1	12.9	---	---	---	28.1	23.3	25.7
<b>Month</b>	13.2	-0.1	3.8	18.4	0.0	---	26.1	5.7	13.8	28.2	7.6	20.2

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

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
<b>1</b>	29.1	23.3	26.2	31.6	22.9	27.2	35.8	25.5	---	32.1	21.9	26.2
<b>2</b>	30.4	23.9	27.0	29.5	22.6	25.9	35.6	26.6	30.9	26.7	19.0	23.3
<b>3</b>	31.8	24.2	27.8	28.9	21.1	24.7	34.5	25.2	29.7	20.5	16.2	18.2
<b>4</b>	32.0	24.1	27.8	32.0	20.3	25.9	34.4	24.4	29.2	27.6	15.7	20.6
<b>5</b>	27.4	22.1	24.8	33.9	22.8	28.2	36.3	24.8	30.0	19.9	15.7	17.2
<b>6</b>	28.9	18.8	23.7	33.0	23.3	28.0	33.4	25.1	28.5	17.1	15.3	16.1
<b>7</b>	30.6	23.1	26.7	32.6	23.1	27.4	26.8	24.1	25.3	22.8	15.8	19.0
<b>8</b>	29.6	23.0	25.7	28.4	24.0	25.8	29.7	22.1	25.6	20.1	15.9	18.3
<b>9</b>	29.7	20.8	24.8	28.1	22.0	25.3	25.4	22.6	23.9	24.0	14.8	19.0
<b>10</b>	27.6	21.3	24.5	31.1	22.6	26.2	25.8	21.9	23.5	24.4	18.5	21.0
<b>11</b>	30.3	22.4	26.0	31.4	23.6	27.2	26.0	22.3	24.1	22.6	20.6	21.7
<b>12</b>	32.1	21.4	26.2	26.0	21.8	23.9	32.9	21.0	26.6	21.5	20.1	20.7
<b>13</b>	31.7	23.0	27.3	32.6	18.5	25.2	34.6	22.0	27.6	22.9	20.4	21.4
<b>14</b>	30.8	21.6	26.3	31.4	20.3	25.9	29.0	21.9	25.1	21.9	18.8	20.4
<b>15</b>	30.5	23.4	26.2	33.4	22.2	27.2	30.2	21.2	25.2	22.6	16.9	19.7
<b>16</b>	26.3	20.8	22.8	33.4	22.7	27.5	29.5	20.8	24.7	23.9	16.7	20.2
<b>17</b>	28.8	20.0	23.9	33.9	23.4	28.1	27.5	20.9	24.0	24.4	16.9	20.7
<b>18</b>	29.8	21.0	25.5	30.2	23.5	26.6	27.4	21.5	24.2	23.2	17.4	20.4
<b>19</b>	26.8	23.4	25.4	30.2	23.9	26.8	27.8	21.3	23.9	25.0	17.2	21.0
<b>20</b>	30.5	21.5	25.9	34.5	22.7	28.2	28.0	21.2	24.3	26.0	17.4	21.5
<b>21</b>	31.9	22.7	27.1	34.8	23.3	28.7	30.7	22.0	25.7	26.2	18.7	22.2
<b>22</b>	33.1	23.3	28.2	37.0	23.8	29.5	33.7	21.8	27.2	26.4	18.9	22.4
<b>23</b>	30.8	23.4	27.0	35.3	24.5	29.5	34.8	24.1	28.5	27.1	18.7	22.6
<b>24</b>	29.1	23.3	25.6	34.6	24.2	28.8	26.5	21.3	24.0	28.3	20.0	23.7
<b>25</b>	32.7	22.5	27.4	34.8	24.0	28.1	31.0	20.3	24.8	27.9	19.9	23.5
<b>26</b>	33.5	23.6	28.2	33.6	23.4	26.3	30.9	19.8	25.0	27.5	19.1	23.1
<b>27</b>	30.2	21.1	25.8	32.1	22.5	26.8	32.5	22.3	26.8	28.1	18.8	23.2
<b>28</b>	28.1	22.5	25.4	31.2	24.7	27.8	34.7	22.9	28.0	27.6	18.9	23.1
<b>29</b>	27.5	21.3	24.4	27.1	23.5	25.1	32.3	21.7	26.4	24.9	18.7	21.3
<b>30</b>	31.1	21.8	26.3	30.2	23.6	26.6	32.3	22.4	27.0	24.2	13.9	18.9
<b>31</b>	---	---	---	33.7	24.2	28.6	31.8	22.1	26.3	---	---	---
<b>Month</b>	33.5	18.8	26.0	37.0	18.5	27.0	36.3	19.8	---	32.1	13.9	21.0

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	11.4	7.7	9.7	12.9	9.9	11.3	14.0	10.0	12.3	16.8	15.9	---
2	10.3	7.7	8.7	12.8	9.8	11.2	13.6	10.1	12.4	---	---	---
3	---	7.6	---	13.1	9.8	11.4	15.7	12.8	14.1	---	---	---
4	10.5	7.2	8.7	12.7	8.9	10.8	14.4	11.3	13.0	---	---	---
5	10.2	7.5	8.7	12.1	9.3	10.7	13.8	11.6	13.0	---	---	---
6	10.6	7.5	8.7	13.1	10.5	11.7	14.9	13.6	14.3	---	---	---
7	10.6	7.5	8.8	13.2	10.2	11.6	14.7	13.9	14.2	---	12.3	---
8	12.0	8.1	9.9	12.5	9.4	11.0	15.5	14.1	14.8	14.0	12.6	13.4
9	12.7	8.1	10.3	12.0	9.2	10.6	15.7	15.1	15.4	15.1	13.3	14.1
10	12.8	8.4	10.4	11.4	8.7	10.1	15.7	15.2	15.4	14.9	13.6	14.3
11	13.2	9.0	10.9	10.3	7.6	9.0	15.4	14.2	14.9	15.9	13.3	14.6
12	12.9	9.3	10.7	10.5	8.0	9.3	14.4	14.1	14.2	15.4	13.6	14.4
13	12.4	8.5	10.4	11.9	8.9	10.4	14.8	13.7	14.2	16.3	13.8	15.0
14	12.1	8.7	9.8	---	9.2	---	14.8	14.0	14.6	16.3	13.7	15.0
15	---	---	---	13.5	11.0	12.2	15.0	14.6	14.8	16.3	13.4	14.8
16	---	7.8	---	13.3	10.4	11.9	15.0	14.1	14.6	16.6	13.9	15.3
17	9.1	7.6	8.2	13.2	10.0	11.6	14.9	13.5	14.3	16.7	16.0	16.4
18	9.5	7.8	8.7	12.9	9.7	11.1	14.5	13.0	13.8	16.7	16.1	16.4
19	---	8.5	---	12.4	9.2	10.7	14.6	13.1	13.9	16.7	16.2	16.5
20	10.7	8.2	9.5	11.8	9.4	---	14.6	13.0	13.8	16.5	15.7	16.1
21	10.6	8.4	9.5	13.8	10.6	12.6	14.2	12.6	13.5	16.2	16.0	16.1
22	11.6	9.9	10.6	15.4	13.0	14.1	15.8	13.0	14.8	16.2	15.5	15.8
23	12.2	9.2	10.8	15.4	13.9	14.7	16.3	15.3	15.8	15.7	15.3	15.5
24	11.6	9.4	10.3	14.9	12.8	13.9	16.5	14.9	15.8	16.2	15.5	15.8
25	12.0	9.5	10.7	15.4	12.7	14.0	16.1	14.1	15.1	15.7	14.9	---
26	12.4	9.5	10.9	15.0	12.3	13.5	15.8	14.6	15.4	15.9	14.8	15.3
27	12.4	9.8	10.9	15.2	12.3	13.6	16.3	15.8	16.1	15.6	14.2	15.1
28	12.7	9.5	11.1	13.8	12.6	13.1	16.7	16.1	16.4	14.2	---	---
29	12.3	8.9	10.6	15.8	13.3	14.4	16.8	15.8	16.4	---	---	---
30	11.6	8.7	10	15.6	13.7	14.5	16.8	15.9	16.3	---	---	---
31	11.8	9.0	10.3	---	---	---	16.8	15.4	16.1	---	---	---
Month	---	---	---	---	7.6	---	16.8	10.0	14.6	---	---	---

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	11.6	9.3	10.4	---	---	---	---	---	---
2	---	---	---	10.8	9.4	10.1	---	---	---	---	---	---
3	---	---	---	12.1	10.8	11.5	---	---	---	---	---	---
4	---	---	---	12.4	10.7	11.6	---	---	---	---	---	---
5	---	---	---	12.1	10.8	11.5	---	---	---	---	---	---
6	---	---	---	12.6	10.6	11.6	---	---	---	---	---	---
7	---	---	---	12.6	10.8	11.9	---	---	---	---	---	---
8	---	10.9	---	13.6	11.0	12.5	---	---	---	---	---	---
9	12.5	10.6	11.6	12.5	10.0	11.4	---	---	---	---	---	---
10	13.0	11.0	12.2	12.2	10.0	11.0	---	---	---	---	---	---
11	13.2	11.3	12.4	11.9	9.2	10.7	---	---	---	---	---	---
12	12.9	11.4	12.1	11.3	9.2	10.2	---	---	---	---	---	---
13	13.1	10.7	11.9	11.3	9.2	10.2	---	---	---	---	---	---
14	12.3	11.0	11.7	---	---	---	---	---	---	---	---	---
15	13.6	12.2	12.9	---	---	---	---	---	---	---	---	---
16	12.8	11.9	12.4	---	---	---	---	---	---	---	---	---
17	12.2	11.2	11.7	---	---	---	---	---	---	---	---	---
18	12.5	11.4	11.9	---	---	---	---	---	---	---	---	---
19	12.7	10.7	11.8	---	---	---	---	---	---	---	---	---
20	12.8	10.8	12.0	---	---	---	---	---	---	---	---	---
21	13.4	12.3	13.2	---	---	---	---	---	---	---	---	---
22	13.4	11.3	12.6	---	---	---	---	---	---	---	---	---
23	13.0	11.6	12.6	---	---	---	---	---	---	---	---	---
24	12.9	10.7	12.1	---	---	---	---	---	---	---	---	---
25	11.6	10.7	11.1	---	---	---	---	---	---	---	---	---
26	13.2	11.1	12.1	---	---	---	---	---	---	---	---	---
27	13.0	10.3	11.7	---	---	---	---	---	---	---	---	---
28	12.0	10.4	11.1	---	---	---	---	---	---	---	---	---
29	11.9	9.8	10.9	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	11.9	9.5	10.7	10.1	7.5	8.9
2	---	---	---	---	---	---	11.9	8.9	10.6	10.3	7.6	9.3
3	---	---	---	---	---	---	11.0	8.9	10	11.3	8.4	10.1
4	---	---	---	---	---	---	11.7	8.9	10.5	11.0	8.0	9.7
5	---	---	---	---	---	---	11.3	8.8	10.0	10.9	7.7	9.3
6	---	---	---	---	---	---	11.1	8.6	10	10.9	7.3	9.0
7	---	---	---	---	---	---	11.5	8.6	10.4	8.0	6.9	7.3
8	---	---	---	---	---	---	11.8	10.0	11.0	7.8	6.9	7.4
9	---	---	---	---	---	---	11.3	10.0	10.6	7.2	6.1	6.5
10	---	---	---	---	---	---	10.4	9.4	10	6.8	6.1	6.4
11	---	---	---	---	---	---	10.8	9.4	10.2	8.0	6.8	7.6
12	---	---	---	---	---	---	11.0	9.5	10.3	8.2	7.5	7.8
13	---	---	---	---	---	---	11.3	9.2	10.3	8.1	7.5	7.8
14	---	---	---	11.1	9.8	---	11.2	8.6	10.0	8.4	7.7	8.0
15	---	---	---	11.8	9.9	10.7	---	8.7	---	8.6	7.5	8.1
16	---	---	---	12.2	10.1	11.4	10.8	7.7	9.6	8.7	7.4	8.1
17	---	---	---	11.8	10.9	11.4	10.9	7.7	9.4	8.6	7.0	8.0
18	---	---	---	12.0	10.0	11.1	11.5	8.8	10.3	9.7	7.0	8.3
19	---	---	---	12.0	9.4	10.8	11.0	8.0	9.7	11.0	6.9	8.8
20	---	---	---	11.5	9.2	10.3	10.3	7.9	9.1	12.1	6.9	9.1
21	---	---	---	11.3	9.2	10.3	10.0	7.4	8.8	12.1	7.3	9.6
22	---	---	---	11.5	9.2	10.5	10.2	7.6	9.0	11.9	7.0	9.2
23	---	---	---	12.5	9.9	11.2	9.9	7.3	8.2	12.1	6.9	9.3
24	---	---	---	12.0	9.5	10.7	7.9	7.3	7.6	7.5	6.0	6.4
25	---	---	---	11.4	9.0	10.3	9.0	7.3	8.2	6.9	6.1	6.5
26	---	---	---	11.4	9.1	10.4	9.6	8.1	9.0	8.1	6.2	7.0
27	---	---	---	11.1	9.3	10.1	10.2	8.6	9.4	7.2	6.6	6.9
28	---	---	---	12.2	10.1	11.1	10.3	8.3	9.3	7.2	6.7	7.0
29	---	---	---	12.1	10.1	11.1	10.3	8.0	9.2	7.0	6.4	6.9
30	---	---	---	11.3	9.7	10.5	10.0	7.8	8.9	6.8	6.3	6.6
31	---	---	---	11.1	9.5	10.1	---	---	---	7.0	6.3	6.7
Month	---	---	---	---	---	---	---	7.3	---	12.1	6.0	8.0



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

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	7.3	6.4	6.8	10.6	6.4	8.2	10.8	5.6	---	11.0	6.5	8.5
2	8.4	6.4	7.2	11.2	6.4	8.4	11.7	5.6	8.2	10.2	6.6	8.3
3	9.8	6.3	7.7	12.2	6.8	9.3	11.8	5.8	8.4	10.3	7.8	9.0
4	11.6	6.2	8.3	13.0	6.4	9.7	10.2	5.9	7.9	10.6	7.1	9.0
5	11.1	6.2	7.9	12.7	6.0	9.2	9.8	5.9	7.8	10.5	7.3	8.9
6	11.2	6.6	8.8	12.6	6.0	9.1	10.7	6.0	8.0	9.8	8.3	8.9
7	10.3	6.5	8.2	11.9	6.0	8.7	10.0	6.5	8.0	10.2	7.5	8.8
8	11.3	6.5	8.1	11.9	6.1	8.6	9.6	6.8	8.1	9.0	7.6	8.4
9	10.5	6.6	8.4	11.8	6.4	8.9	9.1	6.8	7.8	9.7	7.5	8.8
10	9.9	6.6	8.2	12.1	6.4	9.0	9.0	7.0	7.9	9.8	7.4	8.4
11	9.5	6.5	8.0	10.6	6.4	8.5	9.1	7.0	7.9	9.4	7.5	8.2
12	11.0	6.3	8.5	10.0	6.4	8.2	9.1	6.5	8.0	7.9	6.2	7.2
13	14.3	6.2	9.6	10.2	6.5	8.4	9.6	6.4	8.1	6.5	5.9	6.2
14	15.0	6.1	10.1	9.3	6.5	8.1	10.4	6.5	8.3	7.6	6.4	7.2
15	14.8	6.2	9.7	10.5	6.3	8.4	10.0	6.8	8.3	8.6	7.3	8.0
16	10.5	6.1	8.1	11.5	6.0	8.6	9.7	6.8	8.2	9.0	7.4	8.2
17	10.6	6.6	8.2	10.8	6.0	8.3	9.4	6.9	8.0	9.5	7.5	8.4
18	10.4	6.4	8.1	11.2	6.0	8.4	9.0	7.0	7.9	9.9	7.5	8.6
19	11.0	6.3	8.6	10.9	6.2	8.3	9.0	7.0	7.6	10.5	7.4	8.8
20	13.2	6.6	9.5	10.6	5.9	8.4	9.8	7.0	8.1	11.0	7.3	8.9
21	14.2	6.3	9.6	10.3	5.9	8.1	9.8	6.7	8.2	10.7	7.3	8.8
22	14.1	6.0	9.5	10.4	5.7	7.8	9.8	6.3	8.1	10.1	7.3	8.6
23	14.3	6.0	9.5	10.6	5.6	8.0	10.8	6.3	8.2	9.4	7.2	8.3
24	13.6	6.4	9.1	11.0	5.6	7.9	10.2	6.4	7.9	9.1	7.1	8.1
25	13.4	6.3	9.6	10.4	6.0	7.8	10.5	6.5	8.4	9.3	7.2	---
26	14.1	6.2	9.7	10.6	6.0	7.7	10.3	6.5	8.3	9.6	7.2	8.3
27	10.0	6.1	8.0	8.2	5.7	6.9	9.8	6.3	8.0	9.7	7.1	8.3
28	8.8	6.0	7.3	10.2	5.7	7.5	10.4	6.3	8.1	9.3	7.2	8.2
29	8.0	6.4	7.3	8.7	---	---	11.0	6.4	8.4	9.4	7.3	8.4
30	8.9	6.4	7.6	---	---	---	11.5	6.3	8.6	9.9	7.7	8.8
31	---	---	---	8.2	5.9	7.0	11.3	6.4	8.6	---	---	---
Month	15.0	6.0	8.5	---	---	---	11.8	5.6	---	11.0	5.9	---

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

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	22	12	17	13	8.0	9.2	39	16	24	36	13	24
2	23	18	19	11	7.6	9.0	36	19	27	30	9.8	18
3	20	12	16	12	7.8	8.8	25	18	21	32	12	20
4	19	14	15	15	8.2	11	26	18	21	40	8.6	23
5	20	14	17	15	9.2	12	29	16	20	31	19	24
6	18	14	16	12	8.2	9.3	21	15	17	29	20	24
7	21	---	---	18	9.1	12	26	15	18	33	20	25
8	30	16	21	17	9.3	12	24	9.5	19	31	17	22
9	32	20	28	18	11	14	31	9.7	17	35	18	24
10	38	19	26	23	12	16	64	13	23	31	21	26
11	29	14	18	27	14	20	310	37	180	32	15	22
12	41	11	22	---	---	---	300	190	240	36	14	19
13	39	23	30	---	---	---	190	100	140	32	13	18
14	790	20	120	---	---	---	100	60	83	22	12	15
15	100	21	52	14	9.1	11	97	44	63	19	11	14
16	28	18	22	15	9.3	12	73	31	49	19	10	14
17	150	24	62	22	10	14	60	32	46	23	8.7	14
18	140	36	68	28	12	16	57	27	48	17	6.2	11
19	44	28	35	28	11	16	53	39	45	22	7.1	10
20	40	30	33	---	10	---	45	33	38	26	5.7	12
21	35	20	27	16	8.2	11	52	34	39	16	5.4	8.2
22	22	15	18	15	10	12	43	20	34	16	5.2	8.4
23	23	15	18	22	11	16	53	18	32	22	4.8	9.9
24	23	16	18	20	14	16	53	21	38	16	7.4	10
25	18	15	16	26	14	18	55	33	42	24	7.5	---
26	18	14	16	30	19	23	44	29	33	36	11	20
27	16	12	14	33	19	25	34	25	29	58	10	32
28	15	11	12	35	16	21	58	18	36	43	16	25
29	15	11	13	36	16	21	36	14	25	40	18	26
30	18	11	13	28	14	18	33	18	26	33	12	22
31	13	8.3	11	---	---	---	50	18	29	42	16	24
Month	790	---	---	---	---	---	310	9.5	48	58	4.8	---

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

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	48	9.4	20	32	14	20	28	12	18	26	17	21
2	63	10	33	44	15	24	31	11	18	24	17	20
3	49	24	34	110	40	76	25	14	18	19	10	14
4	35	22	27	88	45	62	20	13	16	20	10	15
5	31	20	25	45	27	36	27	14	17	---	---	---
6	48	16	30	28	22	25	20	13	16	31	15	20
7	34	17	25	23	16	20	21	9.9	14	380	30	220
8	27	17	23	20	12	18	49	11	27	270	110	140
9	25	20	22	20	16	18	58	40	48	410	140	240
10	20	14	16	20	15	17	72	38	54	140	98	110
11	19	13	16	21	14	16	120	67	96	110	98	100
12	17	12	14	19	14	16	83	41	60	110	89	99
13	16	12	14	20	12	15	55	33	43	99	88	94
14	15	11	13	19	12	14	49	28	39	92	70	81
15	18	7.0	13	16	12	14	59	26	34	73	57	66
16	16	12	13	15	12	13	42	26	29	59	40	51
17	110	16	49	20	12	14	33	22	28	47	35	39
18	110	64	86	16	13	14	37	18	25	40	32	37
19	72	29	42	16	12	14	35	21	26	46	30	36
20	32	19	24	28	13	17	44	21	29	49	34	42
21	43	16	26	22	13	---	42	19	26	52	36	43
22	26	9.2	17	19	11	14	30	16	21	54	37	44
23	34	20	25	14	9.2	11	980	18	320	54	36	44
24	38	17	21	18	9.8	12	480	56	170	350	41	---
25	36	16	19	25	9.7	14	56	41	52	120	73	93
26	23	14	18	22	12	15	50	31	37	77	66	70
27	29	12	18	20	11	15	40	25	30	110	68	91
28	28	13	---	21	10	14	40	22	27	95	64	78
29	17	12	14	28	9.2	13	62	17	28	77	65	70
30	---	---	---	19	10	14	35	19	24	71	61	65
31	---	---	---	27	13	20	---	---	---	73	64	69
Month	110	7.0	---	110	9.2	---	980	9.9	46	---	---	---

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

**TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	120	84	97	130	100	110	28	16	22
2	---	---	---	85	65	73	130	93	110	29	12	---
3	60	51	56	86	57	68	120	86	100	---	---	---
4	71	57	61	83	63	74	110	83	92	14	6.3	9.7
5	110	57	67	84	56	68	83	58	68	15	6.3	9.9
6	100	50	60	88	51	65	67	48	54	35	13	21
7	71	51	64	82	56	---	49	31	38	91	35	56
8	68	56	61	120	53	---	38	27	31	110	39	75
9	58	50	54	280	57	95	33	24	27	52	35	44
10	59	48	51	75	51	59	42	26	33	50	33	41
11	54	43	50	62	45	54	44	31	36	43	27	35
12	64	42	50	47	30	39	42	26	32	600	40	220
13	72	46	57	40	28	34	37	24	30	730	120	310
14	73	50	62	39	26	32	47	29	34	120	83	98
15	77	49	60	46	26	33	53	27	37	83	53	69
16	200	46	88	47	28	36	43	20	27	53	38	46
17	130	74	97	53	28	40	28	14	19	44	30	35
18	250	73	110	52	29	37	26	13	18	32	25	28
19	100	82	95	50	26	35	28	12	19	26	22	24
20	110	75	86	48	26	35	21	14	17	23	20	21
21	120	82	99	46	25	35	23	16	19	21	18	19
22	120	86	100	57	26	36	26	16	21	20	15	18
23	110	81	95	56	27	39	27	15	21	19	13	16
24	92	68	77	49	24	38	54	17	28	15	13	14
25	95	63	73	36	24	28	44	26	31	18	14	16
26	92	65	74	190	20	51	45	31	37	22	15	18
27	240	63	160	220	120	170	50	25	34	24	15	18
28	240	110	140	170	100	140	37	23	30	17	13	15
29	250	110	170	170	---	---	38	22	29	17	12	14
30	120	100	110	---	---	---	36	18	27	16	11	13
31	---	---	---	220	130	170	32	16	23	---	---	---
Month	---	---	---	---	---	---	130	12	40	---	---	---