

Water-Data Report 2012

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.

Lower Platte Basin
Salt Subbasin

LOCATION.--Lat 40°46'10", long 96°38'04" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.9, T.9 N., R.7 E., Lancaster County, NE, Hydrologic Unit 10200203.

DRAINAGE AREA.--0.94 mi².

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--Seasonal measurement of water temperature, specific conductance, turbidity, and dissolved oxygen beginning July 22, 2008 and ending on Nov 28th, 2011.

INSTRUMENTATION.--Seasonal deployment of a continuous water-quality monitor. Measured parameters include water temperature, specific conductance, dissolved oxygen, and turbidity. Turbidity measurements conform to ISO 7027 standards and were made using a Yellow Springs International (YSI) 6136 sensor. Dissolved oxygen data were collected using a luminescent sensor. Automatic sampler and stage data collected at site by the University of Nebraska.

REMARKS.--The water temperature and specific conductance records are rated excellent. The dissolved oxygen record is rated fair. The turbidity record is rated good.

Interruptions in the seasonal record are due to error outside acceptable limits or sensor failure.

EXTREMES FOR CURRENT YEAR.--These extremes may have been exceeded during non-measured portions of the year.

WATER TEMPERATURE: Maximum, 20.6°C, Oct 10, 2011; minimum, 1.4°C, Nov 20, 2011.

SPECIFIC CONDUCTANCE: Maximum, 1240 µS/cm, Oct 1, 2011; minimum, 79 µS/cm, Nov 7, 2011

DISSOLVED OXYGEN: Maximum, 14.1 mg/L, Oct 1, 2011; minimum, 0.3 mg/L, Oct 9, 2011.

TURBIDITY: Maximum, 130 FNU, Nov 7, 2011; minimum, 0.4 FNU, on Oct 11, 2011.

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	14.1	7.0	10.8	10.9	7.2	8.9	---	---	---	---	---	---
2	13.9	6.5	10.5	13.0	5.9	9.4	---	---	---	---	---	---
3	13.8	5.4	9.8	9.5	7.9	8.6	---	---	---	---	---	---
4	12.8	5.4	9.0	9.6	6.8	8.2	---	---	---	---	---	---
5	13.0	3.0	8.2	10.2	7.2	8.6	---	---	---	---	---	---
6	10.6	3.7	7.5	8.7	7.0	7.7	---	---	---	---	---	---
7	10.2	4.2	7.6	11.2	2.7	7.5	---	---	---	---	---	---
8	9.2	3.0	6.0	9.9	4.9	7.7	---	---	---	---	---	---
9	5.9	0.3	2.2	9.2	3.2	6.9	---	---	---	---	---	---
10	7.2	2.6	5.8	10.3	2.4	8.2	---	---	---	---	---	---
11	6.5	1.1	3.2	10.4	7.5	9.2	---	---	---	---	---	---
12	7.3	2.1	4.2	9.6	7.3	8.8	---	---	---	---	---	---
13	6.2	1.1	3.3	9.2	4.3	8.0	---	---	---	---	---	---
14	7.1	2.2	4.3	9.4	6.9	8.2	---	---	---	---	---	---
15	8.0	3.6	5.5	9.5	7.7	8.4	---	---	---	---	---	---
16	6.6	3.3	5.3	11.4	7.9	9.6	---	---	---	---	---	---
17	6.6	3.8	5.4	12.4	10.4	11.5	---	---	---	---	---	---
18	9.0	5.3	7.1	12.3	10.2	11.6	---	---	---	---	---	---
19	9.8	6.4	8.0	11.2	7.8	9.2	---	---	---	---	---	---
20	9.8	7.8	8.8	11.8	8.1	10.3	---	---	---	---	---	---
21	10.7	7.5	9.0	12.7	8.8	11.3	---	---	---	---	---	---
22	9.1	6.3	7.7	12.7	10.3	11.4	---	---	---	---	---	---
23	9.7	5.7	7.6	12.2	9.9	11.2	---	---	---	---	---	---
24	10.4	5.2	7.6	11.8	9.9	10.8	---	---	---	---	---	---
25	8.8	4.8	6.9	10.0	7.8	9.1	---	---	---	---	---	---
26	6.6	4.2	5.3	11.2	7.3	9.6	---	---	---	---	---	---
27	9.3	5.6	7.6	12.9	9.4	11.6	---	---	---	---	---	---
28	11.3	8.1	9.4	---	---	---	---	---	---	---	---	---
29	12.0	9.2	10.2	---	---	---	---	---	---	---	---	---
30	10.3	7.5	9.2	---	---	---	---	---	---	---	---	---
31	11.5	7.5	9.4	---	---	---	---	---	---	---	---	---
Month	14.1	0.3	7.2	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
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Month	---	---	---	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	1,240	1,060	1,140	1,080	1,060	1,070	---	---	---	---	---	---
2	1,060	997	1,020	1,080	106	627	---	---	---	---	---	---
3	1,030	992	1,010	669	321	466	---	---	---	---	---	---
4	1,040	1,020	1,030	1,030	669	889	---	---	---	---	---	---
5	1,040	991	1,020	1,130	1,030	1,090	---	---	---	---	---	---
6	1,030	986	1,000	1,150	1,130	1,130	---	---	---	---	---	---
7	1,050	1,020	1,040	1,150	79	851	---	---	---	---	---	---
8	1,060	869	1,030	726	234	445	---	---	---	---	---	---
9	934	292	824	1,070	726	931	---	---	---	---	---	---
10	417	152	306	1,140	1,070	1,120	---	---	---	---	---	---
11	874	417	661	1,160	1,140	1,150	---	---	---	---	---	---
12	964	150	423	1,160	1,150	1,150	---	---	---	---	---	---
13	876	430	676	1,170	1,150	1,160	---	---	---	---	---	---
14	1,060	875	1,010	1,160	1,130	1,150	---	---	---	---	---	---
15	1,070	1,060	1,070	1,160	1,150	1,160	---	---	---	---	---	---
16	1,080	1,060	1,070	1,160	1,150	1,160	---	---	---	---	---	---
17	1,100	1,070	1,080	1,160	1,150	1,160	---	---	---	---	---	---
18	1,120	1,090	1,110	1,170	1,150	1,160	---	---	---	---	---	---
19	1,110	1,080	1,090	1,180	1,160	1,170	---	---	---	---	---	---
20	1,110	1,080	1,090	1,190	1,170	1,180	---	---	---	---	---	---
21	1,100	1,080	1,100	1,200	1,190	1,200	---	---	---	---	---	---
22	1,100	1,080	1,090	1,190	1,160	1,170	---	---	---	---	---	---
23	1,080	1,060	1,070	1,170	1,160	1,170	---	---	---	---	---	---
24	1,080	1,060	1,070	1,170	1,160	1,170	---	---	---	---	---	---
25	1,080	1,060	1,070	1,170	1,150	1,160	---	---	---	---	---	---
26	1,080	1,040	1,060	1,180	1,150	1,160	---	---	---	---	---	---
27	1,080	1,060	1,070	1,190	1,160	1,180	---	---	---	---	---	---
28	1,100	1,070	1,080	---	---	---	---	---	---	---	---	---
29	1,100	1,060	1,080	---	---	---	---	---	---	---	---	---
30	1,070	1,040	1,060	---	---	---	---	---	---	---	---	---
31	1,080	1,030	1,060	---	---	---	---	---	---	---	---	---
Month	1,240	150	984	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
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06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
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06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	5.2	0.8	2.9	4.4	1.1	2.9	---	---	---	---	---	---
2	5.9	1.1	2.9	50	2.7	13	---	---	---	---	---	---
3	7.5	1.5	3.5	16	7.0	11	---	---	---	---	---	---
4	10	1.1	3.9	12	2.7	6.3	---	---	---	---	---	---
5	6.6	0.7	2.5	11	1.3	3.6	---	---	---	---	---	---
6	5.9	1.3	2.8	21	1.5	6.0	---	---	---	---	---	---
7	4.4	1.3	2.4	130	0.9	12	---	---	---	---	---	---
8	6.4	1.7	3.1	24	4.6	9.8	---	---	---	---	---	---
9	22	2.0	4.6	11	2.2	5.7	---	---	---	---	---	---
10	18	1.6	4.0	9.0	1.2	4.3	---	---	---	---	---	---
11	2.8	0.4	1.2	11	0.7	3.6	---	---	---	---	---	---
12	84	1.3	5.9	18	0.8	5.3	---	---	---	---	---	---
13	4.4	0.7	1.9	9.8	0.7	4.7	---	---	---	---	---	---
14	3.5	0.7	1.6	14	0.9	5.1	---	---	---	---	---	---
15	4.0	0.6	1.9	34	1.0	7.7	---	---	---	---	---	---
16	5.9	1.5	3.0	8.1	1.0	3.2	---	---	---	---	---	---
17	6.4	0.9	2.8	18	1.0	5.8	---	---	---	---	---	---
18	8.1	1.1	3.0	2.3	0.9	1.3	---	---	---	---	---	---
19	10	1.2	3.6	8.8	1.0	2.1	---	---	---	---	---	---
20	4.9	1.2	2.2	2.4	0.7	1.2	---	---	---	---	---	---
21	4.9	1.1	2.6	1.0	0.7	0.8	---	---	---	---	---	---
22	9.4	2.1	4.2	1.5	0.7	0.9	---	---	---	---	---	---
23	7.3	1.6	3.5	6.2	1.1	2.0	---	---	---	---	---	---
24	9.9	1.7	4.4	5.1	0.9	2.1	---	---	---	---	---	---
25	9.7	2.0	4.6	3.8	0.8	1.3	---	---	---	---	---	---
26	11	1.5	3.8	---	---	---	---	---	---	---	---	---
27	8.3	1.5	3.4	---	---	---	---	---	---	---	---	---
28	5.8	0.9	3.0	---	---	---	---	---	---	---	---	---
29	5.9	2.1	3.4	---	---	---	---	---	---	---	---	---
30	9.7	1.5	3.6	---	---	---	---	---	---	---	---	---
31	6.0	1.4	2.9	---	---	---	---	---	---	---	---	---
Month	84	0.4	3.2	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
 WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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14	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	16.3	12.6	14.3	13.4	9.1	10.9	---	---	---	---	---	---
2	16.9	13.3	14.9	11.6	3.6	7.9	---	---	---	---	---	---
3	17.9	14.3	15.9	7.8	4.3	6.0	---	---	---	---	---	---
4	19.2	15.7	17.2	8.0	4.4	6.3	---	---	---	---	---	---
5	19.4	16.5	17.8	9.7	6.3	7.9	---	---	---	---	---	---
6	18.1	15.7	17.0	10.6	7.6	8.9	---	---	---	---	---	---
7	19.3	16.0	17.6	9.4	5.8	7.4	---	---	---	---	---	---
8	19.7	17.5	18.7	8.4	7.3	8.0	---	---	---	---	---	---
9	20.1	17.4	18.8	7.8	5.4	6.7	---	---	---	---	---	---
10	20.6	17.0	18.7	6.2	3.4	5.1	---	---	---	---	---	---
11	19.3	15.6	17.7	7.8	3.8	5.9	---	---	---	---	---	---
12	18.1	15.9	16.9	8.1	5.9	7.0	---	---	---	---	---	---
13	16.7	13.4	15.1	8.1	6.7	7.6	---	---	---	---	---	---
14	15.0	13.2	14.1	9.5	7.1	8.2	---	---	---	---	---	---
15	14.7	10.5	12.6	8.7	6.6	7.7	---	---	---	---	---	---
16	14.6	12.4	13.4	6.8	4.2	5.1	---	---	---	---	---	---
17	12.7	10.9	11.5	4.8	2.8	3.8	---	---	---	---	---	---
18	11.7	9.4	10.5	6.4	2.6	4.5	---	---	---	---	---	---
19	10.4	7.4	8.8	6.2	3.5	5.3	---	---	---	---	---	---
20	10.2	6.3	8.1	3.7	1.4	2.7	---	---	---	---	---	---
21	11.8	6.9	9.0	2.7	1.5	2.2	---	---	---	---	---	---
22	11.6	9.6	10.5	4.4	2.5	3.4	---	---	---	---	---	---
23	14.2	9.0	11.4	5.9	2.7	4.2	---	---	---	---	---	---
24	14.0	10.3	12.1	8.8	4.6	6.5	---	---	---	---	---	---
25	16.1	12.9	14.2	9.9	7.9	8.9	---	---	---	---	---	---
26	13.8	10.2	11.6	9.5	5.2	7.7	---	---	---	---	---	---
27	10.9	7.8	9.5	5.2	2.2	3.5	---	---	---	---	---	---
28	10.2	7.1	8.6	---	---	---	---	---	---	---	---	---
29	9.8	6.4	8.1	---	---	---	---	---	---	---	---	---
30	11.1	8.3	9.5	---	---	---	---	---	---	---	---	---
31	10.6	6.7	8.7	---	---	---	---	---	---	---	---	---
Month	20.6	6.3	13.3	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

06803197 Antelope Creek Tributary, Pioneers and 63rd Street, at Lincoln, Nebr.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---