

Water-Data Report 2010

413433097345101 Shell Creek 5 Miles Southwest of Tarnov, Nebr.

Lower Platte Basin
Lower Platte-Shell Subbasin

LOCATION.--Lat 41°34'34", long 97°34'52" referenced to North American Datum of 1983, in NE ¼ SE ¼ sec.31, T.19 N., R.2 W., Platte County, NE, Hydrologic Unit 10200201.

DRAINAGE AREA.--202 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Seasonal record beginning August 20, 2008 through December 1, 2009.

INSTRUMENTATION.--Seasonal deployment of a continuous water-quality monitor. Measured parameters include water temperature, specific conductance, and dissolved oxygen. Stream stage was also measured for the purpose of understanding fluctuations in the other parameters, but will not be published.

REMARKS.--The water-temperature record is rated excellent. The specific-conductance and dissolved oxygen records are rated good. Interruptions in the seasonal record are due to instrument malfunction, ice conditions or measured error outside of allowable limits.

EXTREMES FOR PERIOD OF RECORD.--These extremes may have been exceeded during non-measured portions of the record.

WATER TEMPERATURE: Maximum, 29.0 °C, July 8 and August 8, 2009; Minimum, 0.7 °C, April 6, 2009.

SPECIFIC CONDUCTANCE: Maximum, 983 µS/cm, October 19, 2008; Minimum, 262 µS/cm, October 22, 2008.

DISSOLVED OXYGEN: Maximum, 23.0 mg/L on July 17, 2009; Minimum, 0.1 mg/L, on June 6, 2009.

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	754	748	750	747	741	744	---	---	---	---	---	---
2	749	747	748	745	740	743	---	---	---	---	---	---
3	752	749	750	746	739	743	---	---	---	---	---	---
4	756	749	751	745	738	743	---	---	---	---	---	---
5	757	749	754	739	733	737	---	---	---	---	---	---
6	754	746	749	739	735	737	---	---	---	---	---	---
7	758	741	751	740	732	736	---	---	---	---	---	---
8	756	749	752	737	729	733	---	---	---	---	---	---
9	757	753	755	737	727	732	---	---	---	---	---	---
10	755	745	749	731	722	727	---	---	---	---	---	---
11	753	748	750	734	728	733	---	---	---	---	---	---
12	758	752	755	738	731	735	---	---	---	---	---	---
13	758	751	755	736	730	734	---	---	---	---	---	---
14	762	751	755	731	722	728	---	---	---	---	---	---
15	763	749	756	732	722	728	---	---	---	---	---	---
16	760	751	756	738	729	734	---	---	---	---	---	---
17	756	749	753	742	730	737	---	---	---	---	---	---
18	759	750	753	743	734	739	---	---	---	---	---	---
19	758	751	756	747	740	744	---	---	---	---	---	---
20	---	---	---	748	741	744	---	---	---	---	---	---
21	---	---	---	743	733	740	---	---	---	---	---	---
22	717	665	692	743	692	734	---	---	---	---	---	---
23	709	615	671	744	685	716	---	---	---	---	---	---
24	728	698	712	726	711	720	---	---	---	---	---	---
25	736	719	727	723	693	711	---	---	---	---	---	---
26	744	735	739	740	718	728	---	---	---	---	---	---
27	744	735	739	726	693	709	---	---	---	---	---	---
28	743	736	739	707	682	697	---	---	---	---	---	---
29	739	723	731	705	674	690	---	---	---	---	---	---
30	753	720	733	735	700	713	---	---	---	---	---	---
31	744	714	733	---	---	---	---	---	---	---	---	---
Month	---	---	---	748	674	730	---	---	---	---	---	---

413433097345101 Shell Creek 5 Mi SW of Tarnov, Nebr.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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413433097345101 Shell Creek 5 Mi SW of Tarnov, Nebr.—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

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

413433097345101 Shell Creek 5 Mi SW of Tarnov, Nebr.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	14.4	11.4	13.4	11.8	8.2	10	---	---	---	---	---	---
2	11.4	9.6	10.2	10.7	8.3	9.7	---	---	---	---	---	---
3	12.1	9.3	10.4	8.5	6.6	7.5	---	---	---	---	---	---
4	12.3	8.0	10.2	9.6	6.1	7.6	---	---	---	---	---	---
5	11.6	10.3	11.1	10.3	6.1	8.0	---	---	---	---	---	---
6	11.8	9.8	11.0	11.0	7.6	9.3	---	---	---	---	---	---
7	13.9	7.9	10.7	11.3	8.2	9.6	---	---	---	---	---	---
8	12.0	9.3	10.6	11.5	8.3	9.9	---	---	---	---	---	---
9	12.2	7.2	9.6	10.1	7.5	9.0	---	---	---	---	---	---
10	9.6	5.9	7.7	10.1	6.9	8.5	---	---	---	---	---	---
11	7.6	6.3	6.9	9.7	7.9	8.7	---	---	---	---	---	---
12	9.0	6.3	7.5	12.4	9.6	10.7	---	---	---	---	---	---
13	8.1	6.7	7.1	10.9	8.9	10	---	---	---	---	---	---
14	7.5	6.7	7.0	9.8	7.8	8.7	---	---	---	---	---	---
15	10.2	7.5	8.6	8.1	6.5	7.3	---	---	---	---	---	---
16	10.5	8.2	9.2	7.8	6.1	7.1	---	---	---	---	---	---
17	11.1	8.2	9.3	7.2	4.3	5.7	---	---	---	---	---	---
18	12.7	7.5	9.9	6.9	3.6	5.3	---	---	---	---	---	---
19	14.2	9.3	11.7	7.8	5.0	6.3	---	---	---	---	---	---
20	12.4	10.9	11.5	7.3	4.0	5.7	---	---	---	---	---	---
21	11.7	9.2	10.6	7.8	4.3	6.0	---	---	---	---	---	---
22	9.2	6.6	7.8	9.4	7.3	8.4	---	---	---	---	---	---
23	8.8	5.2	6.8	8.9	8.1	8.7	---	---	---	---	---	---
24	9.2	6.5	7.8	8.1	6.0	7.2	---	---	---	---	---	---
25	9.9	8.0	8.9	6.5	4.8	5.8	---	---	---	---	---	---
26	10.8	7.2	8.8	5.9	3.3	4.6	---	---	---	---	---	---
27	10.9	6.8	8.7	8.0	4.2	5.9	---	---	---	---	---	---
28	10.2	8.6	9.3	7.8	4.9	6.3	---	---	---	---	---	---
29	11.4	10.1	10.6	6.6	4.5	5.6	---	---	---	---	---	---
30	10.1	8.0	9.0	6.6	3.4	4.9	---	---	---	---	---	---
31	10.3	6.7	8.4	---	---	---	---	---	---	---	---	---
Month	14.4	5.2	9.4	12.4	3.3	7.6	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	10.2	8.0	8.8	11.4	9.6	10.2	---	---	---	---	---	---
2	11.1	9.0	9.9	11.8	9.6	10.5	---	---	---	---	---	---
3	11.2	9.4	10.1	12.2	10.2	11.0	---	---	---	---	---	---
4	11.6	9.0	10.1	12.8	10.7	11.4	---	---	---	---	---	---
5	10.4	8.6	9.3	12.8	10.1	11.2	---	---	---	---	---	---
6	10.3	8.2	9.2	13.0	9.8	10.9	---	---	---	---	---	---
7	10.1	7.0	8.8	13.2	9.8	10.9	---	---	---	---	---	---
8	9.5	6.9	8.0	13.7	9.9	11.0	---	---	---	---	---	---
9	10.3	8.4	9.1	14.4	9.9	11.5	---	---	---	---	---	---
10	12.2	8.6	10.7	15.4	10.4	12.0	---	---	---	---	---	---
11	11.8	10.4	10.9	13.4	10.1	11.3	---	---	---	---	---	---
12	11.7	10.2	10.8	14.5	9.4	10.9	---	---	---	---	---	---
13	11.8	10.2	10.9	11.2	8.5	9.8	---	---	---	---	---	---
14	11.1	9.9	10.6	15.9	9.8	11.8	---	---	---	---	---	---
15	11.5	9.6	10.3	15.4	10.7	12.1	---	---	---	---	---	---
16	11.7	9.9	10.5	14.6	10.7	12.0	---	---	---	---	---	---
17	12.1	9.8	10.6	15.3	11.2	12.3	---	---	---	---	---	---
18	11.8	9.1	10.4	15.5	10.6	12.3	---	---	---	---	---	---
19	11.6	8.7	9.8	14.1	10.2	11.4	---	---	---	---	---	---
20	10.2	8.6	9.3	15.3	10.5	11.9	---	---	---	---	---	---
21	10.2	8.9	9.5	14.4	10.7	12.1	---	---	---	---	---	---
22	10.5	7.1	9.8	13.5	9.6	10.8	---	---	---	---	---	---
23	9.5	7.2	8.5	10.4	9.4	9.8	---	---	---	---	---	---
24	10.2	7.8	9.5	13.5	10.2	11.5	---	---	---	---	---	---
25	10.6	9.5	10	14.2	10.9	11.8	---	---	---	---	---	---
26	11.3	9.8	10.4	13.3	10.6	11.3	---	---	---	---	---	---
27	11.5	9.6	10.5	10.7	8.8	10.0	---	---	---	---	---	---
28	10.7	9.4	10	15.3	7.4	10.8	---	---	---	---	---	---
29	10.0	9.2	9.5	13.9	10.8	11.8	---	---	---	---	---	---
30	9.5	9.0	9.2	14.6	9.9	12.2	---	---	---	---	---	---
31	11.4	9.5	10.2	---	---	---	---	---	---	---	---	---
Month	12.2	6.9	9.8	15.9	7.4	11.3	---	---	---	---	---	---

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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