

Water-Data Report 2010

414542097473901 Shell Creek Near Newman Grove, Nebr.

Lower Platte Basin
Lower Platte-Shell Subbasin

LOCATION.--Lat 41°45'41.7", long 97°47'38.7" referenced to North American Datum of 1983, in NE ¼ SE ¼ sec.29, T.2 1., R.4 6., Madison County, NE, Hydrologic Unit 10200201.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Seasonal record from April 1, 2009 through December 1, 2009.

INSTRUMENTATION.--Seasonal deployment of a continuous water-quality monitor. Measured parameters include water temperature and specific conductance. Stream stage was also measured for the purpose of understanding fluctuations in the other parameters, but will not be published.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 and specific conductance record is rated fair. Interruptions in the seasonal record are due to fouling, 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, 31.5°C, June 25, 2009; Minimum, 0.0°C, April 5 and 6, 2009.

SPECIFIC CONDUCTANCE: Maximum, 850 microsiemens/cm, November 28, 2009; Minimum, 111 microsiemens/cm, June 16, 2009.

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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
	October			November			December			January		
1	13.8	11.2	12.8	8.9	6.5	7.8	---	---	---	---	---	---
2	11.2	9.6	10.4	8.9	6.9	8.1	---	---	---	---	---	---
3	10.9	9.0	9.9	7.1	5.9	6.4	---	---	---	---	---	---
4	10.3	7.7	9.0	6.9	5.2	5.8	---	---	---	---	---	---
5	10.2	9.0	9.5	7.2	4.9	5.9	---	---	---	---	---	---
6	10.5	8.7	9.6	8.0	6.0	6.9	---	---	---	---	---	---
7	11.3	7.8	9.3	8.5	6.8	7.5	---	---	---	---	---	---
8	10.1	8.2	9.5	9.1	7.2	8.0	---	---	---	---	---	---
9	10.1	6.8	8.2	8.2	6.8	7.3	---	---	---	---	---	---
10	8.5	5.4	6.8	7.7	5.8	6.7	---	---	---	---	---	---
11	6.2	5.0	5.4	8.0	6.6	7.3	---	---	---	---	---	---
12	6.5	4.8	5.5	10.2	8.0	9.0	---	---	---	---	---	---
13	5.7	4.5	5.1	9.1	8.0	8.6	---	---	---	---	---	---
14	5.0	4.5	4.7	8.1	6.8	7.5	---	---	---	---	---	---
15	6.8	4.9	5.8	6.8	5.8	6.3	---	---	---	---	---	---
16	7.6	6.0	6.6	6.3	4.7	5.7	---	---	---	---	---	---
17	8.9	6.4	7.2	4.8	3.1	4.0	---	---	---	---	---	---
18	10.1	6.2	7.8	3.5	1.6	2.8	---	---	---	---	---	---
19	11.5	7.7	9.3	3.9	2.1	3.2	---	---	---	---	---	---
20	10.8	9.1	9.9	3.5	1.6	2.7	---	---	---	---	---	---
21	10.2	8.5	9.5	4.4	1.5	3.0	---	---	---	---	---	---
22	8.5	6.3	7.4	5.9	4.2	5.0	---	---	---	---	---	---
23	6.8	5.1	5.9	6.4	5.6	6.0	---	---	---	---	---	---
24	6.6	4.9	5.8	5.9	4.2	5.1	---	---	---	---	---	---
25	7.3	5.9	6.4	4.5	2.7	3.8	---	---	---	---	---	---
26	8.2	6.0	6.7	2.7	1.1	2.1	---	---	---	---	---	---
27	8.3	5.9	6.8	3.4	1.1	2.5	---	---	---	---	---	---
28	7.9	6.6	7.3	3.7	1.4	2.8	---	---	---	---	---	---
29	9.1	7.5	8.3	3.4	1.8	2.6	---	---	---	---	---	---
30	8.2	6.9	7.6	2.9	0.5	1.8	---	---	---	---	---	---
31	7.9	5.6	6.8	---	---	---	---	---	---	---	---	---
Month	13.8	4.5	7.8	10.2	0.5	5.4	---	---	---	---	---	---

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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		
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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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**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	788	782	785	807	800	803	---	---	---	---	---	---
2	---	---	---	816	807	812	---	---	---	---	---	---
3	792	786	788	823	816	819	---	---	---	---	---	---
4	794	788	791	827	822	825	---	---	---	---	---	---
5	795	782	792	829	825	827	---	---	---	---	---	---
6	794	781	788	827	825	826	---	---	---	---	---	---
7	798	790	794	826	820	824	---	---	---	---	---	---
8	798	787	792	820	817	819	---	---	---	---	---	---
9	802	794	798	818	816	817	---	---	---	---	---	---
10	805	795	798	821	817	819	---	---	---	---	---	---
11	814	804	808	823	819	821	---	---	---	---	---	---
12	814	805	810	824	822	823	---	---	---	---	---	---
13	811	796	807	825	823	824	---	---	---	---	---	---
14	805	796	802	826	824	824	---	---	---	---	---	---
15	806	798	803	826	823	825	---	---	---	---	---	---
16	809	801	804	829	821	825	---	---	---	---	---	---
17	808	798	804	834	827	830	---	---	---	---	---	---
18	822	807	812	837	829	833	---	---	---	---	---	---
19	827	817	822	---	---	---	---	---	---	---	---	---
20	828	821	824	---	---	---	---	---	---	---	---	---
21	828	809	817	---	---	---	---	---	---	---	---	---
22	813	787	800	839	829	834	---	---	---	---	---	---
23	788	779	783	838	827	832	---	---	---	---	---	---
24	792	785	789	835	828	831	---	---	---	---	---	---
25	800	789	794	839	824	831	---	---	---	---	---	---
26	816	800	808	838	829	834	---	---	---	---	---	---
27	821	815	818	844	833	837	---	---	---	---	---	---
28	825	818	821	850	832	838	---	---	---	---	---	---
29	823	807	816	846	829	835	---	---	---	---	---	---
30	812	803	807	836	828	833	---	---	---	---	---	---
31	812	801	808	---	---	---	---	---	---	---	---	---
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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

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

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