

Water-Data Report 2013

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY

White-Yampa Basin
Muddy Subbasin

LOCATION.--Lat 41°28'42", long 107°36'09" referenced to North American Datum of 1983, in SW ¼ SW ¼ NW ¼ sec.1, T.17 N., R.91 W., Carbon County, WY, Hydrologic Unit 14050004, on left bank 2 mi upstream from Olson Draw, 13 mi northeast of Dad, and 31 mi north of Baggs.

DRAINAGE AREA.--126 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2010 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,835 ft above NGVD of 1929, from topographic map. U.S. Geological Survey data collection platform with satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

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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	2.0	3.4	4.4	e4.2	e5.4	e5.0	23	35	8.9	0.56	0.00	0.00
2	2.0	3.2	4.3	e4.2	e5.4	e5.3	23	24	8.3	0.41	0.00	0.00
3	2.0	3.1	e3.4	e4.1	e5.6	e5.7	22	21	7.5	0.31	0.00	0.00
4	2.2	3.1	e3.1	e4.5	e5.6	e5.6	21	20	6.4	0.55	0.12	0.00
5	2.1	3.2	e3.4	e5.0	e5.8	e5.3	23	23	6.0	0.64	0.47	0.00
6	2.2	3.3	e3.4	e5.4	e5.8	e5.6	24	25	5.9	1.0	0.17	0.00
7	2.3	3.4	e3.1	e5.6	e5.4	e6.2	21	25	5.7	1.8	0.05	0.00
8	2.5	3.4	e2.5	e6.1	e5.8	e7.0	19	29	5.3	1.4	0.03	0.00
9	2.6	3.3	e2.4	e6.4	e5.6	e7.3	e10	28	4.9	1.1	0.01	0.00
10	2.2	3.9	e2.3	e6.6	e5.5	e7.3	7.1	26	4.5	0.95	0.00	0.00
11	2.3	4.2	e2.3	e6.3	e5.5	9.1	9.5	25	4.0	0.65	0.00	0.00
12	2.5	3.0	e2.7	e6.0	e5.0	9.5	20	23	3.8	0.49	0.00	0.00
13	2.6	3.3	e3.0	e5.9	e4.9	11	21	24	3.5	0.47	0.00	0.00
14	2.6	3.6	e3.2	e5.3	e5.1	12	17	25	3.3	0.47	0.00	0.00
15	2.7	4.1	e3.2	e5.5	e5.2	15	16	24	3.1	0.66	0.00	0.00
16	2.7	3.8	e3.3	e5.6	e5.4	15	11	26	2.9	0.74	0.00	10
17	2.9	5.1	e3.4	e5.5	e5.5	e12	8.0	27	2.9	0.60	0.00	4.5
18	3.1	5.4	e3.3	e5.5	e5.2	e10	7.9	20	2.9	0.34	0.00	2.1
19	2.9	5.1	e3.2	e5.7	e5.1	e9.3	9.8	19	2.8	0.15	0.00	1.3
20	2.8	4.8	e3.1	e5.4	e5.4	e9.9	13	19	2.5	0.08	0.00	0.90
21	2.8	4.4	e3.5	e5.6	e5.4	e8.8	14	22	2.2	0.04	0.00	0.76
22	3.0	4.2	e4.0	e5.5	e5.1	e6.8	18	16	1.9	0.01	0.00	0.77
23	2.9	3.6	e4.1	e5.5	e4.9	e6.2	13	14	1.7	0.00	0.00	0.92
24	2.9	3.2	e4.3	e5.6	e4.8	e5.9	12	12	1.5	0.00	0.00	0.82
25	3.2	3.9	e4.0	e5.5	e4.8	e5.6	10	11	1.4	0.00	0.00	0.91
26	3.5	2.8	e4.1	e5.8	e4.7	e6.5	12	9.6	1.3	0.00	0.00	0.80
27	3.4	3.2	e4.2	e6.0	e4.6	e8.0	14	9.1	1.1	0.00	0.00	0.90
28	3.3	3.3	e4.3	e5.4	e4.6	e9.6	18	8.7	1.1	0.00	0.00	1.1
29	3.4	4.0	e3.8	e5.2	---	e13	24	9.3	0.87	0.00	0.00	1.7
30	3.6	4.4	e4.2	e5.1	---	e17	31	14	0.73	0.00	0.00	1.7
31	3.6	---	e4.4	e5.3	---	19	---	12	---	0.00	0.00	---
Total	84.8	112.7	107.9	169.3	147.1	279.5	492.3	625.7	108.90	13.42	0.85	29.18
Mean	2.74	3.76	3.48	5.46	5.25	9.02	16.4	20.2	3.63	0.43	0.03	0.97
Max	3.6	5.4	4.4	6.6	5.8	19	31	35	8.9	1.8	0.47	10
Min	2.0	2.8	2.3	4.1	4.6	5.0	7.1	8.7	0.73	0.00	0.00	0.00
Ac-ft	168	224	214	336	292	554	976	1,240	216	27	1.7	58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.67	7.38	6.19	6.74	7.11	16.4	43.2	68.0	30.5	8.69	3.80	3.34
Max	10.4	11.3	7.67	8.30	9.39	25.0	85.4	170	84.2	24.7	8.89	7.25
(WY)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	2.74	3.76	3.48	5.46	5.25	9.02	16.4	13.8	3.55	0.43	0.03	0.97
(WY)	(2013)	(2013)	(2013)	(2013)	(2013)	(2013)	(2013)	(2012)	(2012)	(2013)	(2013)	(2013)

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SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 2010 - 2013	
Annual total	3,050.75	2,171.65		
Annual mean	8.34	5.95	17.3	
Highest annual mean			36.0	2011
Lowest annual mean			5.95	2013
Highest daily mean	48 Apr 1	35 May 1	294	May 24, 2011
Lowest daily mean	0.16 Aug 13 ^a	0.00 Jul 23 ^b	0.00	Jul 23, 2013 ^c
Annual seven-day minimum	0.20 Aug 16	0.00 Jul 23	0.00	Jul 23, 2013
Maximum peak flow		^d 40 May 1	465	Apr 19, 2011
Maximum peak stage		^e 4.40 Feb 28	7.00	Apr 19, 2011
Annual runoff (ac-ft)	6,050	4,310	12,530	
10 percent exceeds	25	17	34	
50 percent exceeds	3.9	4.0	7.4	
90 percent exceeds	0.53	0.00	0.63	

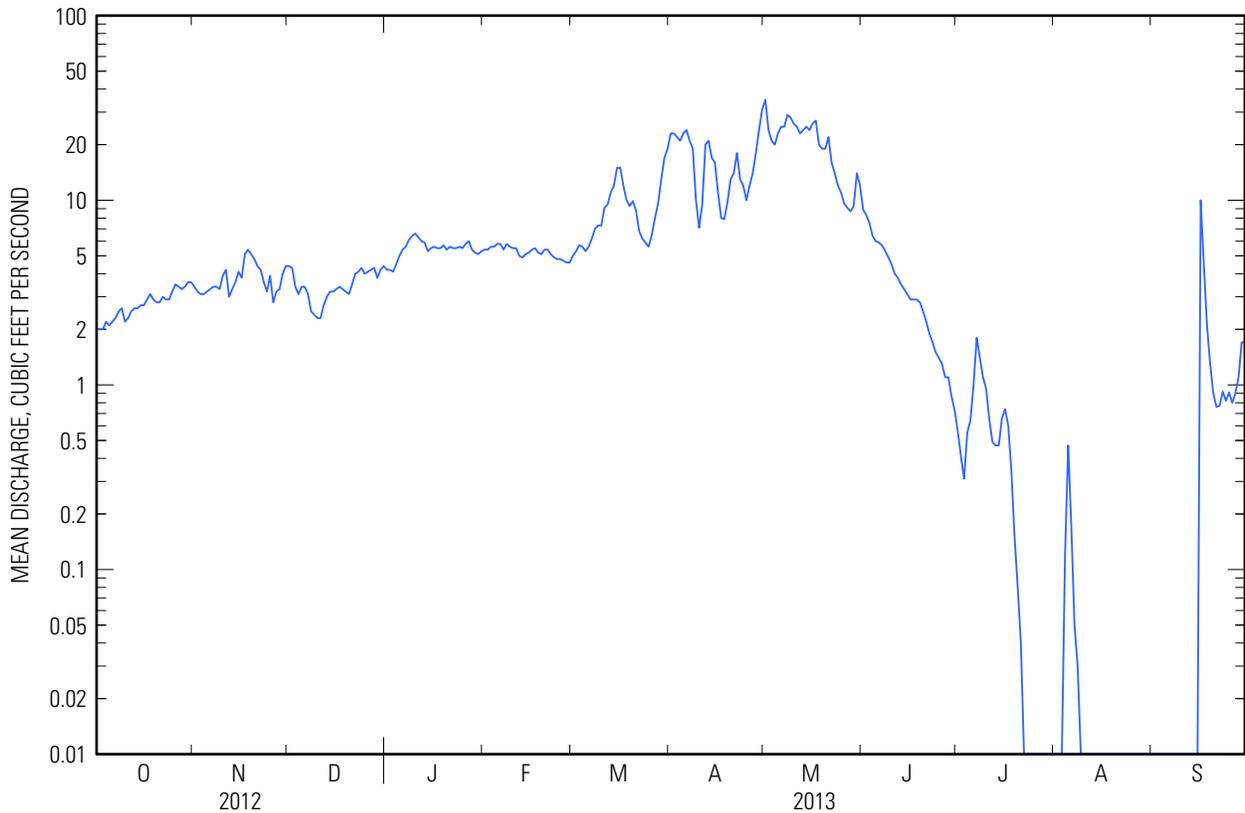
^a Also, August 20.

^b Many days.

^c Many days, 2013.

^d Gage height, 4.19 ft.

^e Backwater from ice.



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 2010 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 2010 to current year (seasonal).

pH: April to September 2012 (seasonal).

WATER TEMPERATURE: July 2010 to current year (seasonal).

DISSOLVED OXYGEN: April to September 2012 (seasonal).

INSTRUMENTATION.--

INSTRUMENTATION: Water-quality monitor for specific conductance, pH, water temperature, and dissolved oxygen.

REMARKS.--Specific conductance records are excellent except those for April 24 to May 21, June 20 to July 8, and September 17-30, which are good; those for May 22 to June 9 and July 19-21, which are fair; and those for August 5-8, which are poor. pH records are good except those for May 17-31 and July 19-22, which are fair and those for June 1-19 and August 5-9, which are poor. Water temperature records are excellent. Water temperature records represent water temperature at sensor within 0.2°C. Dissolved oxygen records are good except those for April 24-28, which are fair and those for April 29 to May 3, August 5-8, and September 17-30, which are poor. Maximum and minimum recorded values in the EXTREMES paragraphs may have occurred during days of partial record and may not appear in the daily values tables. Quality of water data were collected and are available at <http://waterdata.usgs.gov/usa/nwis/qw>.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,520 microsiemens per centimeter at 25°C (µS/cm), August 4, 2013; minimum recorded, 365 µS/cm, May 24, 2011.

pH: Maximum recorded, 9.4, July 21, 2013; minimum recorded, 7.9, June 6-9, 2013.

WATER TEMPERATURE: Maximum recorded, 26.5°C, July 22, 2012 and June 29, 2013; minimum recorded, -0.2°C, November 2 and 5, 2011.

DISSOLVED OXYGEN: Maximum recorded, 12.0 mg/L, November 12, 2012; minimum recorded, 4.1 mg/L, August 9, 2013.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,520 microsiemens per centimeter at 25°C (µS/cm), August 4; minimum recorded, 383 µS/cm, May 15.

pH: Maximum recorded, 9.4, July 21; minimum recorded, 7.9, June 6-9.

WATER TEMPERATURE: Maximum recorded, 26.5°C, June 29; minimum recorded, 0.0°C November 12 and 13.

DISSOLVED OXYGEN: Maximum recorded, 12.0 mg/L, November 12; minimum recorded, 4.1 mg/L, August 9.

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	817	813	815	790	780	784	---	---	---	---	---	---
2	814	805	811	819	790	809	---	---	---	---	---	---
3	805	794	800	825	816	822	---	---	---	---	---	---
4	809	791	802	824	815	819	---	---	---	---	---	---
5	835	797	807	839	815	828	---	---	---	---	---	---
6	875	835	861	863	837	851	---	---	---	---	---	---
7	884	873	877	852	809	828	---	---	---	---	---	---
8	881	874	879	809	801	806	---	---	---	---	---	---
9	874	862	868	824	806	815	---	---	---	---	---	---
10	867	854	862	825	807	816	---	---	---	---	---	---
11	854	832	844	827	806	813	---	---	---	---	---	---
12	832	820	825	886	827	868	---	---	---	---	---	---
13	824	818	821	---	---	---	---	---	---	---	---	---
14	818	814	815	---	---	---	---	---	---	---	---	---
15	814	807	810	---	---	---	---	---	---	---	---	---
16	818	811	815	---	---	---	---	---	---	---	---	---
17	820	814	816	---	---	---	---	---	---	---	---	---
18	819	804	810	---	---	---	---	---	---	---	---	---
19	812	807	809	---	---	---	---	---	---	---	---	---
20	808	802	805	---	---	---	---	---	---	---	---	---
21	806	801	804	---	---	---	---	---	---	---	---	---
22	807	798	802	---	---	---	---	---	---	---	---	---
23	806	801	803	---	---	---	---	---	---	---	---	---
24	819	804	813	---	---	---	---	---	---	---	---	---
25	809	783	796	---	---	---	---	---	---	---	---	---
26	801	783	792	---	---	---	---	---	---	---	---	---
27	802	782	792	---	---	---	---	---	---	---	---	---
28	797	788	792	---	---	---	---	---	---	---	---	---
29	800	791	795	---	---	---	---	---	---	---	---	---
30	794	786	789	---	---	---	---	---	---	---	---	---
31	796	786	793	---	---	---	---	---	---	---	---	---
Month	884	782	817	---	---	---	---	---	---	---	---	---

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	---	---	---	---	---	---	---	---	---	604	466	521
2	---	---	---	---	---	---	---	---	---	568	451	507
3	---	---	---	---	---	---	---	---	---	598	546	571
4	---	---	---	---	---	---	---	---	---	614	572	591
5	---	---	---	---	---	---	---	---	---	599	577	589
6	---	---	---	---	---	---	---	---	---	606	536	573
7	---	---	---	---	---	---	---	---	---	546	505	527
8	---	---	---	---	---	---	---	---	---	523	488	510
9	---	---	---	---	---	---	---	---	---	512	445	478
10	---	---	---	---	---	---	---	---	---	471	427	454
11	---	---	---	---	---	---	---	---	---	475	422	451
12	---	---	---	---	---	---	---	---	---	459	422	442
13	---	---	---	---	---	---	---	---	---	459	427	443
14	---	---	---	---	---	---	---	---	---	458	414	436
15	---	---	---	---	---	---	---	---	---	455	383	418
16	---	---	---	---	---	---	---	---	---	451	399	429
17	---	---	---	---	---	---	---	---	---	580	427	485
18	---	---	---	---	---	---	---	---	---	579	463	518
19	---	---	---	---	---	---	---	---	---	529	467	499
20	---	---	---	---	---	---	---	---	---	561	478	498
21	---	---	---	---	---	---	---	---	---	608	561	589
22	---	---	---	---	---	---	---	---	---	725	577	662
23	---	---	---	---	---	---	---	---	---	722	645	665
24	---	---	---	---	---	---	1,380	1,280	1,330	645	612	622
25	---	---	---	---	---	---	1,280	1,200	1,230	623	588	600
26	---	---	---	---	---	---	1,230	1,100	1,160	596	549	574
27	---	---	---	---	---	---	1,120	1,040	1,090	569	551	562
28	---	---	---	---	---	---	1,100	946	1,040	577	555	567
29	---	---	---	---	---	---	987	789	866	572	557	567
30	---	---	---	---	---	---	806	604	724	662	557	586
31	---	---	---	---	---	---	---	---	---	605	559	575
Month	---	---	---	---	---	---	---	---	---	725	383	533

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 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	696	567	635	730	719	725	---	---	---	---	---	---
2	694	664	676	734	722	729	---	---	---	---	---	---
3	672	641	652	734	712	726	---	---	---	---	---	---
4	641	633	635	744	724	732	---	---	---	---	---	---
5	635	624	629	750	736	741	1,340	1,030	1,130	---	---	---
6	635	633	634	772	750	761	1,360	1,280	1,320	---	---	---
7	650	634	643	776	758	768	1,280	1,260	1,270	---	---	---
8	664	644	652	791	773	785	1,290	1,270	1,280	---	---	---
9	670	654	661	818	791	808	---	---	---	---	---	---
10	---	---	---	814	792	803	---	---	---	---	---	---
11	---	---	---	793	775	784	---	---	---	---	---	---
12	---	---	---	778	764	772	---	---	---	---	---	---
13	---	---	---	768	757	764	---	---	---	---	---	---
14	---	---	---	768	760	764	---	---	---	---	---	---
15	---	---	---	774	768	770	---	---	---	---	---	---
16	---	---	---	782	774	778	---	---	---	---	---	---
17	---	---	---	798	782	790	---	---	---	762	674	697
18	---	---	---	829	798	812	---	---	---	797	673	715
19	---	---	---	846	829	837	---	---	---	880	797	857
20	707	691	698	848	837	842	---	---	---	873	821	850
21	702	695	698	876	844	856	---	---	---	821	780	797
22	705	698	701	---	---	---	---	---	---	782	766	774
23	709	702	706	---	---	---	---	---	---	778	757	772
24	717	704	712	---	---	---	---	---	---	779	767	775
25	724	712	717	---	---	---	---	---	---	770	755	765
26	723	715	719	---	---	---	---	---	---	764	752	758
27	726	720	722	---	---	---	---	---	---	763	710	748
28	732	723	727	---	---	---	---	---	---	781	686	753
29	736	719	729	---	---	---	---	---	---	827	781	804
30	730	718	725	---	---	---	---	---	---	898	827	862
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

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pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	8.3	8.2	8.4	8.3	---	---	---	---	---	---	---	---
2	8.3	8.2	8.4	8.3	---	---	---	---	---	---	---	---
3	8.3	8.3	8.4	8.3	---	---	---	---	---	---	---	---
4	8.4	8.3	8.4	8.3	---	---	---	---	---	---	---	---
5	8.3	8.2	8.4	8.3	---	---	---	---	---	---	---	---
6	8.3	8.2	8.4	8.3	---	---	---	---	---	---	---	---
7	8.3	8.3	8.4	8.3	---	---	---	---	---	---	---	---
8	8.3	8.3	8.4	8.3	---	---	---	---	---	---	---	---
9	8.4	8.3	8.4	8.3	---	---	---	---	---	---	---	---
10	8.4	8.3	8.4	8.4	---	---	---	---	---	---	---	---
11	8.4	8.3	8.4	8.3	---	---	---	---	---	---	---	---
12	8.4	8.3	8.4	8.3	---	---	---	---	---	---	---	---
13	8.4	8.3	---	---	---	---	---	---	---	---	---	---
14	8.4	8.3	---	---	---	---	---	---	---	---	---	---
15	8.4	8.3	---	---	---	---	---	---	---	---	---	---
16	8.4	8.3	---	---	---	---	---	---	---	---	---	---
17	8.4	8.3	---	---	---	---	---	---	---	---	---	---
18	8.4	8.3	---	---	---	---	---	---	---	---	---	---
19	8.4	8.3	---	---	---	---	---	---	---	---	---	---
20	8.4	8.3	---	---	---	---	---	---	---	---	---	---
21	8.4	8.3	---	---	---	---	---	---	---	---	---	---
22	8.4	8.3	---	---	---	---	---	---	---	---	---	---
23	8.4	8.3	---	---	---	---	---	---	---	---	---	---
24	8.4	8.3	---	---	---	---	---	---	---	---	---	---
25	8.4	8.3	---	---	---	---	---	---	---	---	---	---
26	8.4	8.3	---	---	---	---	---	---	---	---	---	---
27	8.4	8.3	---	---	---	---	---	---	---	---	---	---
28	8.4	8.3	---	---	---	---	---	---	---	---	---	---
29	8.4	8.3	---	---	---	---	---	---	---	---	---	---
30	8.4	8.3	---	---	---	---	---	---	---	---	---	---
31	8.4	8.3	---	---	---	---	---	---	---	---	---	---
Month	8.4	8.2	---	---	---	---	---	---	---	---	---	---

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pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	---	---	8.6	8.5	8.1	8.0	8.8	8.3	---	---	---	---
2	---	---	8.6	8.4	8.1	8.0	8.8	8.3	---	---	---	---
3	---	---	8.6	8.3	8.1	8.0	8.9	8.4	---	---	---	---
4	---	---	8.6	8.5	8.1	8.0	8.8	8.3	---	---	---	---
5	---	---	8.6	8.5	8.1	8.0	8.8	8.3	9.1	8.5	---	---
6	---	---	8.6	8.4	8.1	7.9	8.9	8.4	8.7	8.3	---	---
7	---	---	8.5	8.4	8.1	7.9	8.9	8.4	8.7	8.4	---	---
8	---	---	8.5	8.4	8.0	7.9	8.9	8.3	8.6	8.2	---	---
9	---	---	8.4	8.3	8.0	7.9	8.8	8.5	---	8.2	---	---
10	---	---	8.4	8.3	8.0	8.0	8.9	8.6	---	---	---	---
11	---	---	8.4	8.3	8.1	8.0	9.0	8.6	---	---	---	---
12	---	---	8.3	8.2	8.2	8.1	9.0	8.6	---	---	---	---
13	---	---	8.4	8.3	8.1	8.1	9.0	8.6	---	---	---	---
14	---	---	8.3	8.2	8.2	8.1	9.0	8.6	---	---	---	---
15	---	---	8.3	8.2	8.2	8.1	9.0	8.7	---	---	---	---
16	---	---	8.3	8.2	8.3	8.2	9.1	8.6	---	---	---	---
17	---	---	8.2	8.1	8.3	8.2	9.1	8.7	---	---	8.2	8.2
18	---	---	8.2	8.1	8.4	8.2	9.2	8.7	---	---	8.2	8.1
19	---	---	8.2	8.1	8.6	8.3	9.1	8.7	---	---	8.1	8.0
20	---	---	8.1	8.0	8.6	8.4	9.2	8.7	---	---	8.1	8.0
21	---	---	8.1	8.0	8.6	8.4	9.4	8.8	---	---	8.2	8.1
22	---	---	8.0	8.0	8.6	8.4	---	8.9	---	---	8.2	8.1
23	---	---	8.0	8.0	8.6	8.4	---	---	---	---	8.3	8.2
24	8.7	8.4	8.0	8.0	8.6	8.4	---	---	---	---	8.3	8.2
25	8.8	8.4	8.1	8.0	8.6	8.4	---	---	---	---	8.2	8.2
26	8.8	8.3	8.1	8.0	8.6	8.4	---	---	---	---	8.2	8.2
27	8.8	8.6	8.1	8.0	8.6	8.4	---	---	---	---	8.2	8.2
28	8.8	8.7	8.1	8.0	8.6	8.3	---	---	---	---	8.3	8.2
29	8.7	8.6	8.2	8.1	8.7	8.3	---	---	---	---	8.3	8.2
30	8.6	8.5	8.2	8.1	8.7	8.3	---	---	---	---	8.3	8.2
31	---	---	8.2	8.1	---	---	---	---	---	---	---	---
Month	---	---	8.6	8.0	8.7	7.9	---	---	---	---	---	---

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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
	October			November			December			January		
1	14.5	10.5	12.6	5.8	3.6	4.8	---	---	---	---	---	---
2	13.8	10.2	12.2	6.3	4.1	5.1	---	---	---	---	---	---
3	12.8	9.6	11.2	4.7	2.3	3.7	---	---	---	---	---	---
4	10.8	6.9	9.0	3.9	1.8	2.8	---	---	---	---	---	---
5	9.5	6.9	8.2	3.5	1.5	2.6	---	---	---	---	---	---
6	8.5	5.4	7.0	4.3	1.5	2.9	---	---	---	---	---	---
7	7.1	4.2	5.8	4.4	1.7	3.1	---	---	---	---	---	---
8	7.0	3.8	5.5	4.0	1.6	2.9	---	---	---	---	---	---
9	7.6	4.5	6.2	4.6	2.6	3.7	---	---	---	---	---	---
10	8.0	4.6	6.6	4.1	1.3	2.7	---	---	---	---	---	---
11	10.2	6.9	8.5	1.3	0.1	0.5	---	---	---	---	---	---
12	9.5	7.5	8.6	0.9	0.0	0.3	---	---	---	---	---	---
13	9.0	7.1	8.0	---	0.0	---	---	---	---	---	---	---
14	9.0	6.3	7.7	---	---	---	---	---	---	---	---	---
15	9.1	6.3	7.7	---	---	---	---	---	---	---	---	---
16	8.1	6.6	7.3	---	---	---	---	---	---	---	---	---
17	6.8	4.1	5.3	---	---	---	---	---	---	---	---	---
18	5.6	2.4	4.0	---	---	---	---	---	---	---	---	---
19	5.9	2.9	4.5	---	---	---	---	---	---	---	---	---
20	7.3	4.5	5.7	---	---	---	---	---	---	---	---	---
21	7.7	4.6	6.2	---	---	---	---	---	---	---	---	---
22	9.0	6.7	7.7	---	---	---	---	---	---	---	---	---
23	8.3	6.9	7.7	---	---	---	---	---	---	---	---	---
24	6.9	4.2	5.5	---	---	---	---	---	---	---	---	---
25	4.2	2.8	3.5	---	---	---	---	---	---	---	---	---
26	3.4	1.6	2.5	---	---	---	---	---	---	---	---	---
27	2.7	1.3	2.0	---	---	---	---	---	---	---	---	---
28	3.3	1.9	2.5	---	---	---	---	---	---	---	---	---
29	5.6	3.2	4.2	---	---	---	---	---	---	---	---	---
30	6.1	3.7	4.9	---	---	---	---	---	---	---	---	---
31	6.0	3.5	4.8	---	---	---	---	---	---	---	---	---
Month	14.5	1.3	6.6	---	---	---	---	---	---	---	---	---

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	7.1	4.8	5.8
2	---	---	---	---	---	---	---	---	---	9.0	2.5	5.6
3	---	---	---	---	---	---	---	---	---	10.8	4.3	7.6
4	---	---	---	---	---	---	---	---	---	10.9	7.0	9.0
5	---	---	---	---	---	---	---	---	---	11.3	7.0	9.2
6	---	---	---	---	---	---	---	---	---	12.1	7.8	10.0
7	---	---	---	---	---	---	---	---	---	12.9	8.8	10.7
8	---	---	---	---	---	---	---	---	---	12.4	8.8	10.7
9	---	---	---	---	---	---	---	---	---	12.8	8.6	10.6
10	---	---	---	---	---	---	---	---	---	13.9	8.9	11.2
11	---	---	---	---	---	---	---	---	---	15.0	9.8	12.3
12	---	---	---	---	---	---	---	---	---	15.3	9.9	12.7
13	---	---	---	---	---	---	---	---	---	16.9	11.5	14.2
14	---	---	---	---	---	---	---	---	---	17.6	12.4	15.1
15	---	---	---	---	---	---	---	---	---	17.0	13.1	14.9
16	---	---	---	---	---	---	---	---	---	16.6	12.5	14.6
17	---	---	---	---	---	---	---	---	---	16.3	12.7	14.3
18	---	---	---	---	---	---	---	---	---	13.9	11.5	12.8
19	---	---	---	---	---	---	---	---	---	12.6	10.1	11.3
20	---	---	---	---	---	---	---	---	---	12.5	9.6	10.8
21	---	---	---	---	---	---	---	---	---	14.7	8.9	11.4
22	---	---	---	---	---	---	---	---	---	16.8	10.2	13.4
23	---	---	---	---	---	---	6.1	---	---	18.1	12.1	14.9
24	---	---	---	---	---	---	9.1	2.0	5.1	18.5	11.6	14.9
25	---	---	---	---	---	---	10.8	3.5	6.8	18.7	12.4	15.3
26	---	---	---	---	---	---	12.9	5.2	8.7	18.2	12.0	15.0
27	---	---	---	---	---	---	13.8	6.5	10.1	17.9	11.9	14.8
28	---	---	---	---	---	---	12.8	8.2	10.5	16.5	12.1	14.1
29	---	---	---	---	---	---	12.4	8.3	10.3	14.1	11.9	12.9
30	---	---	---	---	---	---	10.4	6.9	8.5	14.4	9.6	11.8
31	---	---	---	---	---	---	---	---	---	14.6	8.5	11.4
Month	---	---	---	---	---	---	---	---	---	18.7	2.5	12.0

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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	17.1	10.3	13.1	25.8	18.3	21.8	---	---	---	---	---	---
2	19.0	11.2	14.7	26.0	17.9	21.5	---	---	---	---	---	---
3	18.7	13.2	15.7	22.4	16.5	19.4	---	---	---	---	---	---
4	18.8	11.5	15.0	25.5	16.7	21.0	---	---	---	---	---	---
5	20.2	11.6	15.7	23.9	18.9	21.3	20.5	16.3	18.6	---	---	---
6	20.8	13.0	16.9	24.3	18.6	21.7	22.5	15.6	18.6	---	---	---
7	20.7	14.3	17.5	25.3	19.2	22.1	21.9	14.5	18.3	---	---	---
8	21.4	14.4	17.7	22.8	18.6	20.9	20.9	15.0	17.7	---	---	---
9	21.9	14.0	18.0	22.1	17.4	20.2	20.6	15.0	---	---	---	---
10	20.0	15.3	18.1	24.8	17.9	21.3	---	---	---	---	---	---
11	18.6	14.9	17.0	23.5	19.4	21.5	---	---	---	---	---	---
12	19.6	13.2	16.6	24.2	18.9	21.2	---	---	---	---	---	---
13	18.8	14.7	17.0	23.4	18.9	20.7	---	---	---	---	---	---
14	20.3	13.8	17.1	25.2	18.3	21.7	---	---	---	---	---	---
15	20.4	14.2	17.4	24.5	19.4	21.9	---	---	---	---	---	---
16	19.1	15.3	17.2	24.7	19.1	21.7	---	---	---	17.4	---	---
17	21.9	14.5	18.0	26.3	18.9	22.2	---	---	---	17.1	14.3	15.7
18	19.9	17.2	18.7	26.3	20.2	23.0	---	---	---	17.8	13.8	15.6
19	19.7	14.9	17.3	26.4	20.2	23.0	---	---	---	15.9	11.3	13.7
20	20.3	14.0	16.9	25.5	18.5	21.7	---	---	---	14.7	9.9	12.5
21	20.4	14.6	17.3	24.6	16.4	20.3	---	---	---	15.1	10.4	12.7
22	20.8	15.1	17.7	---	14.5	---	---	---	---	13.4	11.5	12.4
23	20.8	13.4	17.1	---	---	---	---	---	---	13.8	9.8	11.7
24	20.6	14.7	17.7	---	---	---	---	---	---	13.6	9.6	11.6
25	20.0	14.8	17.6	---	---	---	---	---	---	13.3	10.0	11.5
26	21.9	15.4	18.9	---	---	---	---	---	---	13.6	9.2	11.5
27	24.5	16.9	20.9	---	---	---	---	---	---	12.1	8.3	10.2
28	25.9	18.8	22.4	---	---	---	---	---	---	9.6	5.8	7.8
29	26.5	20.3	23.1	---	---	---	---	---	---	10.4	6.2	8.3
30	25.6	19.5	22.2	---	---	---	---	---	---	11.9	6.7	9.3
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	26.5	10.3	17.7	---	---	---	---	---	---	---	---	---

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
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	9.2	7.5	8.3	10.0	9.4	9.7	---	---	---	---	---	---
2	8.9	7.4	8.2	9.9	9.3	9.6	---	---	---	---	---	---
3	8.9	7.4	8.2	10.2	9.4	9.8	---	---	---	---	---	---
4	9.8	8.0	8.6	10.4	9.9	10.1	---	---	---	---	---	---
5	9.1	7.8	8.4	10.6	10.0	10.3	---	---	---	---	---	---
6	9.7	8.1	9.0	10.6	10.2	10.4	---	---	---	---	---	---
7	10.1	8.9	9.5	10.3	9.9	10.1	---	---	---	---	---	---
8	10.1	9.1	9.6	10.3	9.9	10.1	---	---	---	---	---	---
9	10.1	9.0	9.5	10.0	9.7	9.9	---	---	---	---	---	---
10	9.8	9.2	9.4	10.3	9.4	9.8	---	---	---	---	---	---
11	9.4	8.9	9.1	11.2	10.2	10.8	---	---	---	---	---	---
12	9.1	8.4	8.7	12.0	11.0	11.4	---	---	---	---	---	---
13	9.2	8.4	8.8	---	---	---	---	---	---	---	---	---
14	9.5	8.6	9.0	---	---	---	---	---	---	---	---	---
15	9.5	8.7	9.1	---	---	---	---	---	---	---	---	---
16	9.2	8.5	8.9	---	---	---	---	---	---	---	---	---
17	9.9	8.8	9.3	---	---	---	---	---	---	---	---	---
18	10.2	9.3	9.8	---	---	---	---	---	---	---	---	---
19	10.2	9.5	9.9	---	---	---	---	---	---	---	---	---
20	10.0	8.6	9.5	---	---	---	---	---	---	---	---	---
21	9.5	8.8	9.1	---	---	---	---	---	---	---	---	---
22	9.2	8.3	8.7	---	---	---	---	---	---	---	---	---
23	9.2	7.8	8.6	---	---	---	---	---	---	---	---	---
24	9.6	8.4	9.0	---	---	---	---	---	---	---	---	---
25	10.2	9.2	9.6	---	---	---	---	---	---	---	---	---
26	10.7	10.0	10.3	---	---	---	---	---	---	---	---	---
27	10.8	9.8	10.3	---	---	---	---	---	---	---	---	---
28	10.7	9.9	10.3	---	---	---	---	---	---	---	---	---
29	10.4	9.6	10	---	---	---	---	---	---	---	---	---
30	9.8	9.3	9.6	---	---	---	---	---	---	---	---	---
31	10.0	9.2	9.6	---	---	---	---	---	---	---	---	---
Month	10.8	7.4	9.2	---	---	---	---	---	---	---	---	---

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
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	---	---	---	---	---	---	---	---	---	9.3	8.2	8.8
2	---	---	---	---	---	---	---	---	---	9.0	---	---
3	---	---	---	---	---	---	---	---	---	8.7	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	8.5	7.3	7.9
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	10.8	9.3	10.0	---	---	---
25	---	---	---	---	---	---	9.3	8.6	8.9	---	---	---
26	---	---	---	---	---	---	8.6	7.9	8.2	---	---	---
27	---	---	---	---	---	---	9.0	7.4	8.1	---	---	---
28	---	---	---	---	---	---	8.9	7.4	8.2	---	---	---
29	---	---	---	---	---	---	8.8	7.0	8.1	---	---	---
30	---	---	---	---	---	---	8.7	6.2	8.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
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	---	---	---	11.1	5.8	8.2	---	---	---	---	---	---
2	---	---	---	11.4	5.6	8.3	---	---	---	---	---	---
3	---	---	---	10.9	5.8	8.0	---	---	---	---	---	---
4	---	---	---	11.5	5.3	8.3	---	---	---	---	---	---
5	---	---	---	10.9	5.8	8.3	8.3	4.5	6.8	---	---	---
6	---	---	---	10.7	6.3	8.5	8.4	4.3	6.7	---	---	---
7	---	---	---	10.9	5.2	7.9	9.4	4.2	6.5	---	---	---
8	---	---	---	10.3	5.0	7.7	10.0	4.3	6.8	---	---	---
9	---	---	---	10.6	5.5	8.2	---	---	---	---	---	---
10	---	---	---	11.3	6.1	8.7	---	---	---	---	---	---
11	---	---	---	10.5	6.4	8.5	---	---	---	---	---	---
12	---	---	---	10.0	6.0	7.9	---	---	---	---	---	---
13	---	---	---	9.9	6.0	7.8	---	---	---	---	---	---
14	---	---	---	11.0	6.2	8.5	---	---	---	---	---	---
15	---	---	---	10.3	6.3	8.2	---	---	---	---	---	---
16	---	---	---	10.4	5.9	8.1	---	---	---	---	---	---
17	---	---	---	10.6	5.7	8.0	---	---	---	7.5	6.8	7.1
18	---	---	---	10.6	5.5	8.1	---	---	---	7.1	5.8	6.7
19	9.4	---	---	9.2	5.0	7.5	---	---	---	7.4	5.8	6.5
20	10.2	6.4	8.1	9.2	5.0	7.1	---	---	---	7.5	6.0	6.7
21	9.9	6.4	8.1	11.6	5.1	8.1	---	---	---	8.1	---	---
22	9.5	6.5	7.9	---	5.1	---	---	---	---	7.7	---	---
23	10.3	6.6	8.2	---	---	---	---	---	---	8.5	7.4	7.9
24	10.0	6.6	8.2	---	---	---	---	---	---	8.6	7.6	8.1
25	9.8	6.4	8.1	---	---	---	---	---	---	8.3	7.0	7.7
26	10.4	6.4	8.4	---	---	---	---	---	---	8.0	6.2	7.4
27	11.2	6.2	8.5	---	---	---	---	---	---	8.1	6.8	7.5
28	11.2	6.0	8.5	---	---	---	---	---	---	9.0	7.6	8.4
29	11.1	5.9	8.2	---	---	---	---	---	---	9.4	7.9	8.7
30	11.0	5.8	8.1	---	---	---	---	---	---	9.1	7.7	8.4
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---