

Water-Data Report 2012

**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 mi<sup>2</sup>, 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 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.8	12	10	e7.8	e9.2	e9.6	48	18	7.7	0.84	0.50	0.54
2	6.9	e12	8.1	e8.0	e9.0	e9.4	47	22	7.2	0.78	0.66	0.79
3	7.0	e8.4	e7.4	e8.4	e8.8	e9.4	35	28	7.1	0.85	0.70	0.93
4	7.4	e12	e7.0	e8.6	e8.6	e9.8	31	22	6.9	0.76	0.44	0.78
5	8.1	e14	e6.6	e9.0	e8.6	e10	31	19	6.1	0.88	0.32	0.51
6	9.4	e12	e6.4	e8.8	e8.4	e11	31	17	5.2	0.78	0.25	0.47
7	11	e11	e6.6	e8.4	e8.4	e10	25	16	4.9	0.80	0.22	0.35
8	11	e9.6	e7.0	e8.0	e8.6	e10	23	15	4.7	0.79	0.19	0.31
9	11	e9.6	e7.2	e8.2	e8.8	e11	23	15	4.3	0.89	0.22	0.37
10	11	10	e7.6	e8.4	e9.0	e12	25	14	3.9	0.81	0.26	0.43
11	12	11	e7.8	e8.0	e9.4	e13	26	14	3.8	0.70	0.23	0.52
12	14	10	e8.0	e7.6	e10	e15	28	13	3.9	0.65	0.19	0.58
13	12	11	e8.2	e7.4	e10	e18	29	13	3.9	0.68	0.16	0.71
14	10	10	e8.0	e8.0	e10	e23	30	13	3.7	0.76	0.18	0.74
15	10	12	e7.6	e8.4	e9.8	e30	29	12	3.5	1.1	0.27	0.86
16	10	11	e7.4	e8.0	e9.6	e32	29	12	3.4	1.5	0.24	0.81
17	10	12	e7.8	e7.6	e9.4	e34	24	11	3.2	1.9	0.23	0.86
18	12	12	e8.2	e7.8	e9.4	e34	23	11	2.9	1.8	0.22	0.81
19	12	12	e8.0	e8.2	e9.6	e32	25	11	2.5	1.3	0.19	1.0
20	11	12	e7.6	e8.6	e9.4	e31	25	12	2.3	0.88	0.16	1.2
21	11	12	e7.6	e9.0	e9.6	e31	25	12	2.2	0.70	0.19	1.3
22	10	12	e7.4	e8.8	e10	e32	28	10	2.2	0.53	0.17	1.2
23	10	12	e7.0	e8.6	e9.8	e34	27	11	2.1	0.76	0.25	1.2
24	10	12	e7.0	e8.4	e9.6	42	27	17	1.8	0.70	0.36	1.5
25	10	12	e7.4	e8.2	e9.8	42	27	13	1.6	0.67	0.28	1.5
26	12	10	e7.6	e8.6	e9.6	44	26	11	1.4	1.6	0.25	1.9
27	11	10	e7.8	e8.2	e10	37	28	9.9	1.3	1.4	0.23	2.0
28	9.8	12	e8.0	e8.0	e10	35	24	9.7	1.1	0.90	0.19	2.3
29	12	12	e8.6	e8.4	e9.8	37	20	9.6	0.90	0.66	0.18	2.3
30	12	12	e8.8	e8.8	---	37	18	8.8	0.87	0.60	0.20	2.1
31	12	---	e8.2	e9.0	---	41	---	8.3	---	0.57	0.34	---
<b>Total</b>	322.4	339.6	237.9	257.2	272.2	776.2	837	428.3	106.57	28.54	8.47	30.87
<b>Mean</b>	10.4	11.3	7.67	8.30	9.39	25.0	27.9	13.8	3.55	0.92	0.27	1.03
<b>Max</b>	14	14	10	9.0	10	44	48	28	7.7	1.9	0.70	2.3
<b>Min</b>	6.8	8.4	6.4	7.4	8.4	9.4	18	8.3	0.87	0.53	0.16	0.31
<b>Ac-ft</b>	639	674	472	510	540	1,540	1,660	850	211	57	17	61

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2012, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	8.64	9.19	7.54	7.38	8.02	20.1	56.7	92.0	43.9	12.8	5.06	4.13
<b>Max</b>	10.4	11.3	7.67	8.30	9.39	25.0	85.4	170	84.2	24.7	8.89	7.25
<b>(WY)</b>	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
<b>Min</b>	6.88	7.07	7.41	6.47	6.61	15.1	27.9	13.8	3.55	0.92	0.27	1.03
<b>(WY)</b>	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

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SUMMARY STATISTICS

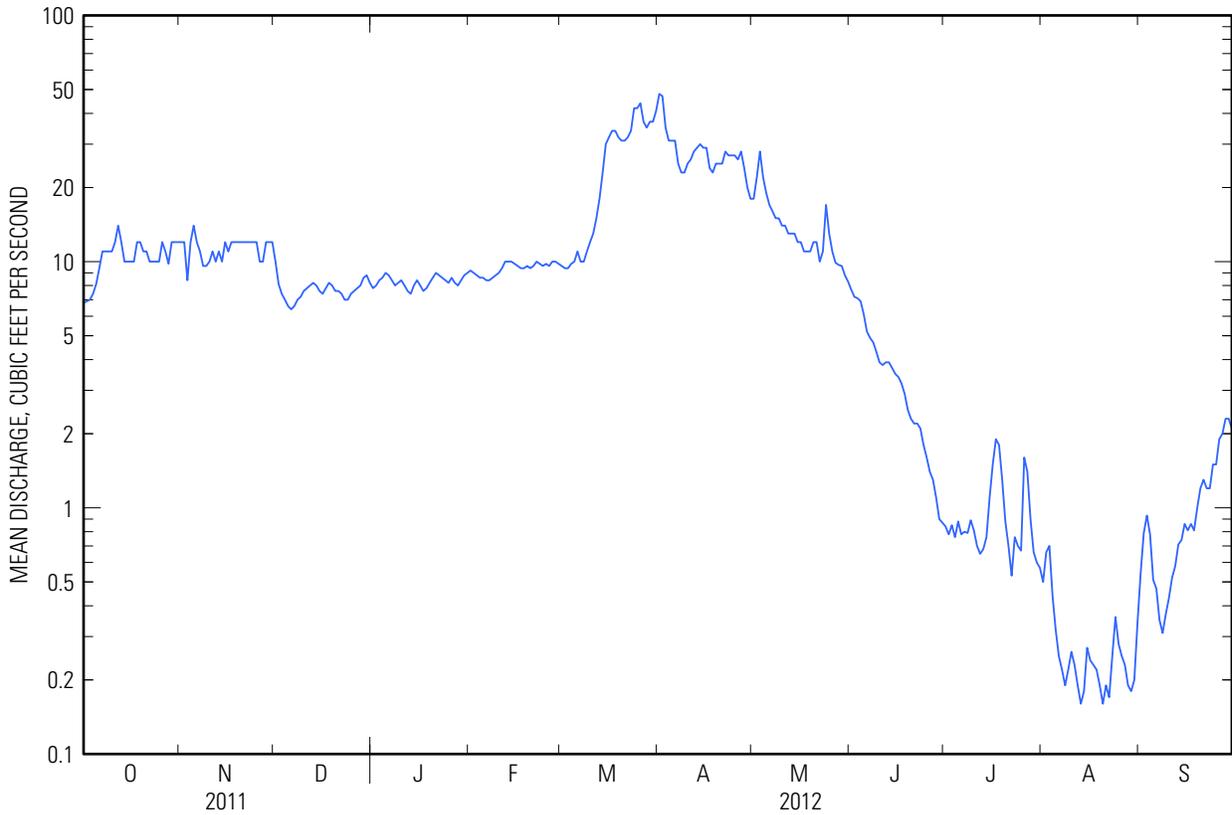
	Calendar Year 2011		Water Year 2012		Water Years 2010 - 2012	
<b>Annual total</b>	13,376.5		3,645.25		23.0	
<b>Annual mean</b>	36.6		9.96		23.0	
<b>Highest annual mean</b>					36.0	2011
<b>Lowest annual mean</b>					9.96	2012
<b>Highest daily mean</b>	294	May 24	48	Apr 1	294	May 24, 2011
<b>Lowest daily mean</b>	5.5	Feb 9	0.16	Aug 13 <sup>a</sup>	0.16	Aug 13, 2012 <sup>b</sup>
<b>Annual seven-day minimum</b>	6.0	Feb 6	0.20	Aug 16	0.20	Aug 16, 2012
<b>Maximum peak flow</b>			<sup>c</sup> 57	Apr 1	465	Apr 19, 2011
<b>Maximum peak stage</b>			<sup>d</sup> 5.20	Mar 12	7.00	Apr 19, 2011
<b>Annual runoff (ac-ft)</b>	26,530		7,230		16,630	
<b>10 percent exceeds</b>	114		25		60	
<b>50 percent exceeds</b>	11		8.6		8.4	
<b>90 percent exceeds</b>	6.4		0.53		0.90	

<sup>a</sup> Also, August 20.

<sup>b</sup> Also, August 20, 2012.

<sup>c</sup> Gage height, 4.44 ft.

<sup>d</sup> Backwater from ice.



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

**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 November 7-10 and April 26 to May 15, which are good; those for November 11-13, which are fair; and those for June 28, and July 5, 9, which are poor. pH records are excellent except those for April 18-25, June 8-12, and August 9 to September 30, which are good; those for April 26 to May 4, which are fair; and those for May 5-15, which are poor. Water temperature records are excellent except those for July 10-28, which are good, those for July 29 to August 8, which are fair; and those for April 17, June 28, and July 5, 9, which are poor. Water temperature records represent water temperature at sensor within 0.2°C. Dissolved oxygen records are good except those for April 28-30, May 23-29, June 24-28, and July 10-19, which are fair; and those for May 1-2, June 6-12, and July 20 to August 1, 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, 1,240 microsiemens per centimeter at 25°C ( $\mu\text{S}/\text{cm}$ ), May 26, 2012; minimum recorded, 365  $\mu\text{S}/\text{cm}$ , May 24, 2011.

pH: Maximum recorded, 8.7, many days, 2012; minimum recorded, 8.0, April 27 and June 7, 2012.

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

DISSOLVED OXYGEN: Maximum recorded, 11.3 mg/L, August 14, 2012; minimum recorded, 4.5 mg/L, July 28 and August 1, 2012.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,240  $\mu\text{S}/\text{cm}$ , May 26; minimum recorded, 558  $\mu\text{S}/\text{cm}$ , April 28.

pH: Maximum recorded, 8.7, many days; minimum recorded, 8.0, April 27 and June 7.

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

DISSOLVED OXYGEN: Maximum recorded, 11.3 mg/L, August 14; minimum recorded, 4.5 mg/L, July 28 and August 1.

## 09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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	943	925	933	1,030	965	988	---	---	---	---	---	---
2	947	929	936	1,020	995	1,010	---	---	---	---	---	---
3	941	920	930	1,020	1,000	1,010	---	---	---	---	---	---
4	940	924	932	1,040	975	1,000	---	---	---	---	---	---
5	946	923	934	1,160	984	1,050	---	---	---	---	---	---
6	943	924	932	1,200	1,020	1,140	---	---	---	---	---	---
7	976	926	947	1,100	999	1,050	---	---	---	---	---	---
8	975	937	953	1,220	1,060	1,140	---	---	---	---	---	---
9	1,060	968	1,000	1,220	1,200	1,220	---	---	---	---	---	---
10	1,110	1,060	1,100	1,230	1,070	1,160	---	---	---	---	---	---
11	1,080	1,020	1,040	1,180	1,090	1,140	---	---	---	---	---	---
12	1,050	1,010	1,030	1,200	1,070	1,130	---	---	---	---	---	---
13	1,010	961	979	1,110	1,040	1,070	---	---	---	---	---	---
14	1,120	964	1,040	---	---	---	---	---	---	---	---	---
15	1,160	1,100	1,140	---	---	---	---	---	---	---	---	---
16	1,100	1,010	1,050	---	---	---	---	---	---	---	---	---
17	1,010	982	992	---	---	---	---	---	---	---	---	---
18	993	971	982	---	---	---	---	---	---	---	---	---
19	971	959	964	---	---	---	---	---	---	---	---	---
20	1,010	961	974	---	---	---	---	---	---	---	---	---
21	1,040	1,010	1,020	---	---	---	---	---	---	---	---	---
22	1,030	984	1,000	---	---	---	---	---	---	---	---	---
23	991	982	986	---	---	---	---	---	---	---	---	---
24	995	985	990	---	---	---	---	---	---	---	---	---
25	988	978	983	---	---	---	---	---	---	---	---	---
26	1,000	979	987	---	---	---	---	---	---	---	---	---
27	1,000	969	982	---	---	---	---	---	---	---	---	---
28	1,020	978	993	---	---	---	---	---	---	---	---	---
29	1,100	1,020	1,050	---	---	---	---	---	---	---	---	---
30	1,120	1,040	1,090	---	---	---	---	---	---	---	---	---
31	1,050	983	1,020	---	---	---	---	---	---	---	---	---
Month	1,160	920	996	---	---	---	---	---	---	---	---	---

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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		
1	---	---	---	---	---	---	---	---	---	735	706	717
2	---	---	---	---	---	---	---	---	---	732	709	721
3	---	---	---	---	---	---	---	---	---	760	682	714
4	---	---	---	---	---	---	---	---	---	788	733	767
5	---	---	---	---	---	---	---	---	---	733	673	716
6	---	---	---	---	---	---	---	---	---	683	654	668
7	---	---	---	---	---	---	---	---	---	693	655	673
8	---	---	---	---	---	---	---	---	---	715	679	693
9	---	---	---	---	---	---	---	---	---	737	713	721
10	---	---	---	---	---	---	---	---	---	738	725	729
11	---	---	---	---	---	---	---	---	---	744	735	741
12	---	---	---	---	---	---	---	---	---	753	740	748
13	---	---	---	---	---	---	---	---	---	753	740	748
14	---	---	---	---	---	---	---	---	---	765	744	755
15	---	---	---	---	---	---	---	---	---	778	755	767
16	---	---	---	---	---	---	---	---	---	784	763	774
17	---	---	---	---	---	---	---	---	---	784	764	773
18	---	---	---	---	---	---	972	835	910	794	768	782
19	---	---	---	---	---	---	876	829	849	791	765	780
20	---	---	---	---	---	---	832	811	818	798	766	782
21	---	---	---	---	---	---	811	749	793	783	757	773
22	---	---	---	---	---	---	760	660	714	819	757	784
23	---	---	---	---	---	---	678	580	619	837	804	828
24	---	---	---	---	---	---	626	589	611	992	786	837
25	---	---	---	---	---	---	651	584	615	1,010	804	852
26	---	---	---	---	---	---	642	600	618	1,240	1,010	1,130
27	---	---	---	---	---	---	648	591	620	1,010	885	932
28	---	---	---	---	---	---	604	558	579	891	851	880
29	---	---	---	---	---	---	678	589	653	879	842	868
30	---	---	---	---	---	---	718	669	693	846	822	837
31	---	---	---	---	---	---	---	---	---	846	810	828
Month	---	---	---	---	---	---	---	---	---	1,240	654	784

## 09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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	869	825	844	---	---	---	966	948	955	1,090	1,070	1,080
2	865	831	847	---	---	---	967	959	964	1,080	1,010	1,040
3	851	816	831	---	---	---	963	925	941	1,010	963	992
4	842	818	827	---	---	---	925	905	913	963	937	949
5	826	807	814	976	945	962	908	900	904	937	920	927
6	826	805	814	---	---	---	904	896	900	940	925	931
7	826	800	811	---	---	---	904	894	898	940	930	936
8	826	800	810	---	---	---	904	886	893	939	926	933
9	840	807	824	975	952	---	891	885	888	937	927	933
10	861	811	833	965	961	963	903	886	892	945	932	940
11	852	810	827	962	955	959	923	903	915	948	939	944
12	845	816	828	960	948	955	959	923	943	951	943	947
13	864	817	838	954	950	952	983	959	973	946	921	936
14	862	824	842	950	941	945	998	983	989	921	898	908
15	864	832	845	953	927	938	1,010	998	1,000	898	890	893
16	863	831	839	1,020	922	950	1,020	1,010	1,020	893	887	890
17	839	824	833	945	909	922	1,030	1,020	1,020	893	886	889
18	839	824	833	920	896	905	1,030	1,020	1,020	891	885	887
19	841	831	836	908	897	902	1,040	1,020	1,030	891	885	887
20	842	832	837	910	874	904	1,050	1,040	1,040	903	890	896
21	843	836	839	902	891	897	1,070	1,050	1,050	906	893	901
22	852	843	850	893	885	890	1,080	1,060	1,070	893	878	886
23	872	849	861	886	877	883	1,090	1,070	1,080	879	861	872
24	875	866	869	882	867	876	1,090	1,080	1,080	861	848	853
25	883	870	876	871	856	866	1,080	1,060	1,060	849	841	845
26	895	877	884	931	852	889	1,060	1,030	1,050	861	846	852
27	904	893	900	930	879	907	1,040	1,030	1,030	854	847	851
28	921	890	902	884	870	876	1,030	1,020	1,020	847	832	839
29	---	---	---	887	882	885	1,030	1,020	1,020	832	826	829
30	---	---	---	918	887	900	1,030	1,020	1,020	826	816	821
31	---	---	---	948	918	929	1,070	1,020	1,040	---	---	---
Month	---	---	---	---	---	---	1,090	885	988	1,090	816	910

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pH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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

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

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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

## 09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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	14.6	10.1	12.5	3.7	0.9	2.9	---	---	---	---	---	---
2	14.4	10.6	12.7	1.4	-0.2	0.5	---	---	---	---	---	---
3	14.8	10.5	12.8	0.6	-0.1	0.1	---	---	---	---	---	---
4	14.8	11.8	13.4	0.8	-0.1	0.3	---	---	---	---	---	---
5	13.3	10.6	11.7	0.9	-0.2	0.3	---	---	---	---	---	---
6	10.6	7.1	9.3	0.2	-0.1	0.0	---	---	---	---	---	---
7	7.1	4.8	5.6	0.2	-0.1	0.0	---	---	---	---	---	---
8	6.2	4.5	5.2	0.2	-0.1	0.0	---	---	---	---	---	---
9	6.4	4.4	5.4	0.3	-0.1	0.0	---	---	---	---	---	---
10	8.1	4.8	6.4	0.4	-0.1	0.0	---	---	---	---	---	---
11	7.7	6.5	7.0	0.4	-0.1	0.0	---	---	---	---	---	---
12	8.4	5.3	6.8	0.0	-0.1	-0.1	---	---	---	---	---	---
13	7.9	5.2	6.7	0.0	-0.1	-0.1	---	---	---	---	---	---
14	9.5	5.8	7.6	---	---	---	---	---	---	---	---	---
15	9.9	6.4	8.2	---	---	---	---	---	---	---	---	---
16	9.9	7.5	8.7	---	---	---	---	---	---	---	---	---
17	9.3	7.8	8.5	---	---	---	---	---	---	---	---	---
18	8.3	5.3	6.9	---	---	---	---	---	---	---	---	---
19	7.5	4.3	6.0	---	---	---	---	---	---	---	---	---
20	7.5	4.3	5.9	---	---	---	---	---	---	---	---	---
21	7.4	4.1	5.8	---	---	---	---	---	---	---	---	---
22	8.0	5.1	6.5	---	---	---	---	---	---	---	---	---
23	7.8	4.6	6.2	---	---	---	---	---	---	---	---	---
24	7.5	4.3	6.0	---	---	---	---	---	---	---	---	---
25	6.6	4.7	5.7	---	---	---	---	---	---	---	---	---
26	4.7	2.1	3.5	---	---	---	---	---	---	---	---	---
27	2.4	0.0	1.3	---	---	---	---	---	---	---	---	---
28	1.8	-0.1	0.8	---	---	---	---	---	---	---	---	---
29	2.7	0.2	1.3	---	---	---	---	---	---	---	---	---
30	3.9	0.8	2.3	---	---	---	---	---	---	---	---	---
31	4.2	1.4	2.9	---	---	---	---	---	---	---	---	---
<b>Month</b>	14.8	-0.1	6.8	---	---	---	---	---	---	---	---	---

## 09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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	---	---	---	---	---	---	---	---	---	10.3	8.1	8.9
2	---	---	---	---	---	---	---	---	---	9.9	7.9	8.8
3	---	---	---	---	---	---	---	---	---	12.7	6.9	9.8
4	---	---	---	---	---	---	---	---	---	15.1	9.4	12.2
5	---	---	---	---	---	---	---	---	---	15.7	10.6	12.9
6	---	---	---	---	---	---	---	---	---	14.1	8.9	11.5
7	---	---	---	---	---	---	---	---	---	14.0	8.0	10.9
8	---	---	---	---	---	---	---	---	---	15.7	8.3	11.7
9	---	---	---	---	---	---	---	---	---	16.5	9.6	12.9
10	---	---	---	---	---	---	---	---	---	16.4	10.5	13.3
11	---	---	---	---	---	---	---	---	---	16.6	10.8	13.4
12	---	---	---	---	---	---	---	---	---	14.9	9.9	12.3
13	---	---	---	---	---	---	---	---	---	16.7	9.6	12.7
14	---	---	---	---	---	---	---	---	---	18.3	10.0	13.8
15	---	---	---	---	---	---	---	---	---	19.3	11.3	15.1
16	---	---	---	---	---	---	---	---	---	17.6	12.3	14.9
17	---	---	---	---	---	---	7.6	---	---	18.2	11.9	14.9
18	---	---	---	---	---	---	7.1	5.1	6.2	17.1	13.5	15.2
19	---	---	---	---	---	---	8.1	5.1	6.4	15.8	11.7	13.7
20	---	---	---	---	---	---	10.2	5.0	7.4	18.2	10.3	14.0
21	---	---	---	---	---	---	12.9	6.7	9.7	20.1	12.1	15.8
22	---	---	---	---	---	---	13.8	8.4	11.2	18.6	13.4	15.8
23	---	---	---	---	---	---	15.7	9.6	12.6	15.5	12.4	13.9
24	---	---	---	---	---	---	14.5	11.4	13.2	15.0	10.1	12.4
25	---	---	---	---	---	---	14.2	11.0	12.6	15.5	9.9	12.4
26	---	---	---	---	---	---	13.9	11.2	12.7	15.5	10.4	12.7
27	---	---	---	---	---	---	12.3	8.0	10.6	11.9	8.9	10.1
28	---	---	---	---	---	---	8.9	5.0	7.0	14.4	6.6	10.2
29	---	---	---	---	---	---	9.3	4.9	7.1	16.2	8.9	12.4
30	---	---	---	---	---	---	10.7	5.3	8.1	17.8	11.0	14.2
31	---	---	---	---	---	---	---	---	---	19.8	11.9	15.7
<b>Month</b>	---	---	---	---	---	---	---	---	---	20.1	6.6	12.9

## 09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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		
<b>1</b>	20.4	13.7	16.9	---	---	---	25.0	19.9	22.3	21.8	17.4	19.5
<b>2</b>	19.2	13.9	16.7	---	---	---	23.9	19.8	21.9	21.8	16.7	19.2
<b>3</b>	20.6	13.8	17.0	---	---	---	22.5	18.1	20.3	21.0	16.4	18.7
<b>4</b>	19.7	14.2	17.1	---	---	---	23.2	16.6	20.0	19.8	15.6	17.8
<b>5</b>	20.9	14.8	17.6	23.7	17.1	20.4	23.8	17.4	20.9	18.9	14.1	16.6
<b>6</b>	19.8	12.0	16.0	---	---	---	21.8	19.3	20.5	18.1	13.1	15.6
<b>7</b>	20.9	13.7	17.2	---	---	---	23.8	17.2	20.5	18.1	13.2	15.6
<b>8</b>	20.2	13.6	17.2	---	---	---	24.6	17.5	21.0	19.2	12.2	15.7
<b>9</b>	19.3	13.7	16.7	24.9	16.7	22.2	23.3	18.4	20.8	17.8	12.2	15.3
<b>10</b>	16.6	11.0	14.1	23.1	19.2	21.5	23.9	17.8	20.9	17.4	12.9	15.3
<b>11</b>	18.4	10.4	14.5	24.5	18.0	21.1	22.8	18.9	20.8	16.3	13.6	15.2
<b>12</b>	17.4	12.6	15.5	23.9	18.2	21.2	24.1	16.5	20.1	18.5	13.3	15.6
<b>13</b>	20.1	13.3	16.7	23.6	19.0	21.7	20.2	17.6	18.7	18.0	12.3	15.2
<b>14</b>	21.1	14.4	18.0	22.4	19.7	21.1	20.7	15.7	18.1	18.3	12.3	15.2
<b>15</b>	20.6	15.6	18.4	21.3	18.4	19.9	20.9	15.6	18.3	16.8	11.9	14.5
<b>16</b>	21.8	14.9	18.5	23.0	17.7	20.3	22.0	15.4	18.6	16.8	11.4	14.2
<b>17</b>	20.4	15.6	18.2	23.5	18.2	20.8	22.0	16.1	19.1	16.6	11.6	14.0
<b>18</b>	20.5	15.0	17.6	23.8	18.0	20.9	22.8	15.9	19.2	16.2	11.0	13.7
<b>19</b>	21.0	15.2	17.9	25.2	18.7	22.0	22.6	15.4	19.1	15.8	10.8	13.4
<b>20</b>	20.1	14.7	17.2	25.5	20.2	23.0	19.4	16.8	18.2	15.7	10.6	13.3
<b>21</b>	21.2	14.8	17.9	26.3	21.0	23.7	21.8	15.3	18.6	16.1	10.9	13.5
<b>22</b>	20.6	16.5	18.3	26.5	21.4	23.9	19.6	16.3	18.0	15.9	11.5	13.7
<b>23</b>	21.0	15.6	18.0	26.1	21.4	23.7	22.2	15.5	18.8	14.9	11.2	13.3
<b>24</b>	22.1	15.6	18.7	24.2	20.9	22.6	22.1	16.9	19.5	15.5	12.3	14.0
<b>25</b>	24.2	17.7	20.8	24.6	19.6	22.0	21.0	15.3	18.4	15.8	12.6	14.0
<b>26</b>	22.9	18.3	20.3	24.9	18.9	21.9	20.4	15.8	18.2	14.4	13.2	13.7
<b>27</b>	22.1	16.3	19.1	23.3	19.4	21.5	21.7	16.4	19.2	14.9	11.7	13.3
<b>28</b>	22.4	15.4	18.8	24.6	18.5	21.6	22.7	17.1	20.0	15.1	10.9	13.2
<b>29</b>	---	---	---	23.2	20.2	21.6	22.6	17.2	20.0	14.0	10.8	12.7
<b>30</b>	---	---	---	24.1	18.3	20.8	22.7	17.1	19.6	13.9	10.4	12.4
<b>31</b>	---	---	---	24.4	19.4	21.9	22.2	16.7	19.5	---	---	---
<b>Month</b>	---	---	---	---	---	---	25.0	15.3	19.6	21.8	10.4	14.9

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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	---	---	---	---	---	---	---	---	---	8.8	8.2	8.5
2	---	---	---	---	---	---	---	---	---	8.5	7.9	8.2
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	8.1	7.1	7.6
17	---	---	---	---	---	---	---	---	---	8.3	7.2	7.6
18	---	---	---	---	---	---	9.8	9.2	9.5	8.0	7.1	7.5
19	---	---	---	---	---	---	9.8	9.2	9.5	8.4	7.3	7.8
20	---	---	---	---	---	---	9.7	8.7	9.3	8.7	7.3	8.0
21	---	---	---	---	---	---	9.3	8.1	8.8	8.4	6.9	7.7
22	---	---	---	---	---	---	8.9	7.9	8.4	8.1	6.8	7.4
23	---	---	---	---	---	---	8.6	7.6	8.1	8.2	6.5	7.6
24	---	---	---	---	---	---	8.2	7.6	7.8	8.3	7.2	7.8
25	---	---	---	---	---	---	8.3	7.6	8.0	8.6	7.4	8.0
26	---	---	---	---	---	---	8.2	7.7	7.9	8.5	7.3	7.8
27	---	---	---	---	---	---	8.6	7.8	8.3	8.5	7.3	7.9
28	---	---	---	---	---	---	9.7	8.6	9.2	9.0	7.5	8.3
29	---	---	---	---	---	---	9.7	8.8	9.2	8.5	7.3	7.9
30	---	---	---	---	---	---	9.5	8.3	8.9	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

## 09258050 MUDDY CREEK ABOVE OLSON DRAW, NEAR DAD, WY—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		
1	---	---	---	---	---	---	9.1	4.5	7.1	8.6	5.8	7.1
2	---	---	---	---	---	---	---	---	---	8.9	5.7	7.2
3	---	---	---	---	---	---	---	---	---	8.8	5.9	7.3
4	---	---	---	---	---	---	---	---	---	8.7	5.6	7.2
5	---	---	---	---	---	---	---	---	---	9.1	6.0	7.4
6	8.8	6.6	7.4	---	---	---	---	---	---	9.6	5.9	7.5
7	8.9	6.6	7.6	---	---	---	---	---	---	9.8	5.6	7.6
8	7.9	6.4	7.0	---	---	---	---	---	---	9.8	5.8	7.7
9	7.9	6.3	7.0	---	---	---	10.4	6.6	8.5	9.4	6.1	7.9
10	8.7	6.5	7.5	8.3	5.9	7.2	10.8	6.6	8.4	9.7	5.9	7.7
11	9.1	6.6	7.8	9.2	5.9	7.4	10.8	5.9	8.3	10.0	5.4	7.7
12	9.0	6.7	7.8	9.2	6.1	7.7	10.9	6.6	8.6	10.2	6.4	8.2
13	9.0	6.9	7.8	9.1	6.5	7.9	9.9	6.8	8.5	10.3	6.8	8.2
14	9.0	6.4	7.5	9.1	6.5	7.7	11.3	6.9	8.9	10.5	7.2	8.4
15	8.7	6.1	7.3	8.8	6.3	7.5	11.0	7.1	9.0	9.9	7.2	8.3
16	9.3	6.5	7.7	9.2	6.2	7.6	10.4	6.6	8.6	10.1	6.8	8.2
17	8.6	6.1	7.3	9.3	6.3	7.7	10.2	6.8	8.6	10.5	6.8	8.4
18	8.5	6.2	7.3	9.5	6.4	8.0	9.9	6.5	8.3	10.4	6.9	8.5
19	8.8	6.1	7.4	9.6	6.6	8.0	10.1	6.4	8.2	10.5	7.0	8.6
20	9.1	6.2	7.6	9.5	6.4	7.9	8.7	5.5	7.3	10.3	7.1	8.6
21	9.0	6.5	7.7	9.6	5.8	7.7	10.1	6.2	7.8	10.0	7.3	8.4
22	8.3	6.1	7.2	9.9	5.8	7.8	9.4	6.0	7.7	10.5	7.2	8.6
23	8.3	6.0	7.2	9.3	5.6	7.6	10.1	7.0	8.4	9.7	7.2	8.3
24	8.6	6.0	7.2	9.0	5.5	7.4	10.0	6.3	8.1	9.1	7.3	8.0
25	8.2	5.8	6.9	9.5	5.5	7.6	10.1	5.8	7.8	8.9	7.2	7.8
26	7.7	5.6	6.7	8.9	5.0	7.1	10.0	6.0	8.0	7.9	7.0	7.4
27	7.9	5.7	6.8	9.0	4.8	7.2	10.0	6.2	8.1	8.7	6.9	7.8
28	7.9	6.1	7.0	9.4	4.5	7.3	10.0	6.1	7.9	9.1	7.1	8.0
29	---	---	---	8.9	5.4	7.1	9.7	5.9	7.7	8.7	7.1	7.9
30	---	---	---	9.4	4.9	7.3	9.3	5.6	7.3	8.9	7.1	8.0
31	---	---	---	8.9	5.2	7.1	9.3	5.4	7.3	---	---	---
Month	---	---	---	---	---	---	---	---	---	10.5	5.4	7.9