

Water-Data Report 2012

**06185110 BIG MUDDY CREEK NR MOUTH NR CULBERTSON MT**

Missouri-Poplar Basin  
Big Muddy Subbasin

LOCATION.--Lat 48°09'52", long 104°37'46" referenced to North American Datum of 1983, in NE ¼ NW ¼ SW ¼ sec.21, T.28 N.,R.55 E., Roosevelt County, MT, Hydrologic Unit 10060006, Fort Peck Indian Reservation on right bank 100 ft upstream from U.S. Highway 2 bridge, and 5.3 mi northwest from Culbertson.

DRAINAGE AREA.--2,684 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--November 1981 to September 1992 and July 2012 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,920.08 ft above National Geodetic Vertical Datum of 1929. November 5, 1981 to September 30, 1992, water-stage recorder at site 130 ft downstream at elevation 23.56 ft lower.

REMARKS.--Records are fair except for estimated daily discharges, which are poor. Flow is subject to extreme regulation by diversions and dams at Medicine Lake National Wildlife Refuge about 40 miles upstream.

## 06185110 Big Muddy Creek nr mouth nr Culbertson MT—Continued

**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										e12	2.5	2.6
2										e11	2.7	1.9
3										e11	2.3	1.7
4										e11	2.3	1.5
5										e11	2.8	1.6
6										e10	2.5	1.4
7										e10	2.2	1.5
8										e9.8	2.2	1.3
9										e7.7	2.6	1.3
10										e7.6	2.8	1.0
11										e9.8	2.4	0.60
12										e8.9	2.4	0.37
13										e8.0	2.7	0.23
14										e7.4	2.5	0.30
15										e6.4	1.2	0.18
16										e6.1	1.5	0.16
17										e5.4	1.7	0.14
18										e6.6	1.5	0.11
19										e5.6	1.6	0.07
20										e6.0	1.6	0.07
21										5.7	1.4	0.07
22										4.8	1.3	0.14
23										5.9	1.7	0.10
24										5.3	2.0	0.08
25										5.3	2.2	0.10
26										6.5	3.0	0.09
27										6.0	4.2	0.08
28										4.5	3.2	0.12
29										3.4	2.4	0.09
30										3.5	2.1	0.06
31										2.9	3.3	---
<b>Total</b>										225.1	70.8	18.96
<b>Mean</b>										7.26	2.28	0.63
<b>Max</b>										12	4.2	2.6
<b>Min</b>										2.9	1.2	0.06
<b>Ac-ft</b>										446	140	38

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2012, BY WATER YEAR (WY)\***

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	7.47	2.51	1.34	0.49	1.50	33.6	96.2	55.4	26.6	19.3	7.36	12.5
<b>Max</b>	38.6	6.64	5.35	1.57	5.38	254	779	422	235	110	58.0	128
<b>(WY)</b>	(1987)	(1990)	(1984)	(1987)	(1983)	(1986)	(1982)	(1982)	(1982)	(1982)	(1987)	(1982)
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.18	0.63	0.46	0.00	0.00	0.00	0.00
<b>(WY)</b>	(1991)	(1991)	(1982)	(1982)	(1985)	(1985)	(1991)	(1990)	(1985)	(1985)	(1984)	(1984)

\*During periods of operation (1981-92 and July 2012 to current year).

06185110 Big Muddy Creek nr mouth nr Culbertson MT—Continued

SUMMARY STATISTICS

	Season 2012	Water Years 1982 – 2012*	
<b>Annual mean</b>		22.3	
<b>Highest annual mean</b>		141	1982
<b>Lowest annual mean</b>		0.88	1992
<b>Highest daily mean</b>	12 Jul 1	1,820	Apr 16, 1982
<b>Lowest daily mean</b>	0.06 Sep 30	0.00	Dec 1, 1981
<b>Annual seven-day minimum</b>		0.00	Dec 1, 1981
<b>Maximum peak flow</b>	<sup>a</sup> Unknown	1,860	Apr 16, 1982
<b>Maximum peak stage</b>	<sup>a</sup> Unknown	10.40	Apr 16, 1982
<b>Annual runoff (ac-ft)</b>		16,130	
<b>10 percent exceeds</b>		35	
<b>50 percent exceeds</b>		1.1	
<b>90 percent exceeds</b>		0.00	

\*During periods of operation (1981-92 and July 2012 to current year).

<sup>a</sup>Occurred during period of no gage-height record.

