

Water-Data Report 2012

**06139500 BIG SANDY CREEK NEAR HAVRE, MT**

Milk Basin  
Big Sandy Subbasin

LOCATION.--Lat 48°31'36", long 109°50'30" referenced to North American Datum of 1983, in SW ¼ SW ¼ SW ¼ sec.18, T.32 N., R.15 E., Hill County, MT, Hydrologic Unit 10050005, on right bank, 6 mi upstream from mouth, 7.7 mi west southwest of Havre post office, and 22 mi downstream from Sage Creek.

DRAINAGE AREA.--1,805 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 1946 to November 1953 (monthly discharge only for February 1946, published in Water Supply Paper 1309 as "Big Sandy Creek near Assiniboine"), annual maximums only for water years 1955-67 (published as "Big Sandy Creek near Assiniboine"), and May 1984 to current year (seasonal records only).

REVISED RECORDS.--Water Supply Paper 1729: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 2,510 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--Records are fair except for September, which are poor. Diversions for irrigation of about 1,000 acres occur upstream from station. Bureau of Reclamation satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1978, reached a stage of 15.15 ft, from floodmarks, discharge, about 6,000 ft<sup>3</sup>/s.

## 06139500 BIG SANDY CREEK NEAR HAVRE, MT—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.3						12	19	115	96	6.6	5.6
2	2.0						11	35	116	87	5.6	4.0
3	5.4						8.8	49	113	83	8.0	3.2
4	4.8						5.0	52	116	79	8.3	3.4
5	11						4.4	54	115	58	7.3	4.0
6	20						4.1	73	108	47	6.9	3.1
7	14						16	87	103	45	5.8	2.5
8	22						32	72	101	44	4.9	2.2
9	29						24	76	97	47	7.8	2.0
10	30						20	82	93	49	14	1.9
11	28						17	94	84	48	14	1.6
12	26						16	126	84	47	14	1.6
13	24						15	148	83	46	15	1.6
14	16						13	151	81	45	14	1.4
15	17						16	152	83	45	14	1.6
16	25						21	146	88	44	14	2.1
17	36						21	132	94	43	15	1.7
18	26						21	99	99	41	14	1.5
19	34						21	87	97	39	14	1.6
20	32						21	81	99	37	13	0.99
21	28						20	78	103	36	13	0.00
22	25						19	83	107	35	13	0.00
23	19						19	86	111	32	13	0.00
24	16						18	89	111	27	13	0.00
25	14						17	87	111	24	13	0.00
26	10						15	88	113	21	14	0.00
27	8.3						16	98	111	18	14	0.00
28	8.6						20	101	108	15	14	0.00
29	7.2						21	106	106	12	14	0.07
30	5.6						21	106	105	9.9	12	3.9
31	4.4						---	112	---	8.1	7.7	---
<b>Total</b>	550.6						505.3	2,849	3,055	1,308.0	356.9	51.56
<b>Mean</b>	17.8						16.8	91.9	102	42.2	11.5	1.72
<b>Max</b>	36						32	152	116	96	15	5.6
<b>Min</b>	2.0						4.1	19	81	8.1	4.9	0.00
<b>Ac-ft</b>	1,090						1,000	5,650	6,060	2,590	708	102

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2012, BY WATER YEAR (WY)\***

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	8.16	0.04	0.02	0.48	6.68	61.3	56.7	26.5	57.4	26.4	6.84	4.84
<b>Max</b>	54.5	0.31	0.14	3.39	19.5	343	1,218	283	538	189	85.9	54.4
<b>(WY)</b>	(1987)	(1953)	(1953)	(1947)	(1947)	(1947)	(1952)	(2010)	(2011)	(2010)	(1993)	(1993)
<b>Min</b>	0.00	0.00	0.00	0.00	0.00	0.63	0.16	0.00	0.00	0.00	0.00	0.00
<b>(WY)</b>	(1947)	(1947)	(1947)	(1948)	(1948)	(1949)	(2002)	(1949)	(1949)	(1946)	(1946)	(1946)

\*During periods of operation, February 1946 to November 1953, May 1984 to current year (seasonal records only).

06139500 BIG SANDY CREEK NEAR HAVRE, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1946 – 2012*	
<b>Annual mean</b>					25.3	
<b>Highest annual mean</b>					110	1952
<b>Lowest annual mean</b>					0.09	1949
<b>Highest daily mean</b>	1,150	Jun 8	152	May 15	5,100	Apr 3, 1952
<b>Lowest daily mean</b>	1.3	Sep 28	0.00	Sep 21	0.00	Feb 1, 1946
<b>Maximum peak flow</b>					155	May 14
<b>Maximum peak stage</b>					4.01	May 14
<b>Annual runoff (ac-ft)</b>					18,320	
<b>10 percent exceeds</b>					12	
<b>50 percent exceeds</b>					0.00	
<b>90 percent exceeds</b>					0.00	

\*During periods of operation, February 1946 to November 1953, May 1984 to current year (seasonal records only).

<sup>a</sup>From floodmarks.

