

Water-Data Report 2006

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

Milk Basin  
Big Sandy Subbasin

LOCATION.--Lat 48°31'36", long 109°50'27" referenced to North American Datum of 1927, 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 WSP 1309 as "Big Sandy Creek near Assiniboine"), annual maximum, 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. 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 Several unpublished observations of water temperature and specific conductance were made during the year.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  
CALENDAR YEAR JANUARY TO DECEMBER 2006  
DAILY MEAN VALUES**

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				17	6.3	3.2	4.8	0.00	0.00			
2				16	6.5	3.1	4.5	0.00	0.00			
3				15	6.3	3.0	4.3	0.00	0.00			
4				14	5.8	2.7	2.9	0.00	0.00			
5				13	6.0	2.4	3.0	0.00	0.00			
6				13	5.8	1.9	2.4	0.00	0.00			
7				12	5.5	1.6	2.2	0.00	0.00			
8				12	5.1	1.9	1.9	0.00	0.00			
9				12	4.6	1.7	1.4	0.00	0.00			
10				11	4.7	2.8	1.2	0.00	0.00			
11				10	4.5	4.0	1.3	0.00	0.00			
12				10	4.4	5.4	1.0	0.00	0.00			
13				10	4.2	11	1.1	0.00	0.00			
14				9.8	4.9	7.3	0.69	0.00	0.00			
15				9.4	4.3	5.9	0.66	0.00	0.00			
16				9.8	4.3	5.3	0.73	0.00	0.00			
17				10	3.9	4.1	0.64	0.00	0.00			
18				9.6	3.5	3.7	0.54	0.00	0.00			
19				9.3	3.2	3.9	0.49	0.00	0.00			
20				8.3	3.5	3.4	0.38	0.00	0.00			
21				7.1	3.3	2.7	0.34	0.00	0.00			
22				6.6	2.7	4.8	0.31	0.00	0.00			
23				6.1	1.5	5.8	0.25	0.00	0.00			
24				5.7	0.85	5.4	0.20	0.00	0.00			
25				5.6	0.78	5.4	0.18	0.00	0.00			
26				6.0	1.0	5.1	0.13	0.00	0.00			
27				7.5	1.1	5.3	0.09	0.00	0.00			
28				7.2	1.5	5.0	0.07	0.00	0.00			
29				6.6	1.4	4.6	0.05	0.00	0.00			
30				6.4	1.4	5.0	0.01	0.00	0.00			
31				---	2.0	---	0.00	0.00	---			
<b>Total</b>				296.0	114.83	127.4	37.76	0.00	0.00			
<b>Mean</b>				9.87	3.70	4.25	1.22	0.00	0.00			
<b>Max</b>				17	6.5	11	4.8	0.00	0.00			
<b>Min</b>				5.6	0.78	1.6	0.00	0.00	0.00			
<b>Ac-ft</b>				587	228	253	75	0.00	0.00			

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2006, BY WATER YEAR (WY)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Mean</b>	0.48	6.68	61.3	57.2	13.6	26.3	17.5	5.12	3.92	7.96	0.04	0.02
<b>Max</b>	3.39	19.5	343	1,218	108	222	137	85.9	54.4	54.5	0.31	0.14
<b>(WY)</b>	(1947)	(1947)	(1947)	(1952)	(1986)	(1953)	(1993)	(1993)	(1993)	(1987)	(1953)	(1953)
<b>Min</b>	0.00	0.00	0.63	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>(WY)</b>	(1948)	(1948)	(1949)	(2002)	(1949)	(1949)	(1946)	(1946)	(1946)	(1947)	(1947)	(1947)

06139500 BIG SANDY CREEK NEAR HAVRE, MT—Continued

SUMMARY STATISTICS

	2006 Season		Seasons 1946 – 2006*	
<b>Highest daily mean</b>	17	Apr 1	5,100	Apr 3, 1952
<b>Lowest daily mean</b>	0.00	Jul 31	0.00	Feb 1, 1946
<b>Maximum peak flow</b>	<sup>a</sup> 18	Apr 1	5,570	Apr 3, 1952
<b>Maximum peak stage</b>	2.61	Jun 12	<sup>b</sup> 14.70	Apr 3, 1952

\* During the period of operation.

<sup>a</sup> Gage height, 2.59 ft.

<sup>b</sup> From floodmarks.

