

Water-Data Report 2007

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 mi².

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 Several unpublished observations of water temperature and specific conductance were made during the year.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 ft³/s.

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**DISCHARGE, CUBIC FEET PER SECOND
CALENDAR YEAR JANUARY TO DECEMBER 2007
DAILY MEAN VALUES**

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				11	87	38	103	2.5	0.89			
2				11	82	60	111	2.7	0.80			
3				14	80	63	121	3.0	0.73			
4				14	75	63	136	2.8	0.61			
5				16	69	65	145	2.7	0.65			
6				14	62	71	141	2.9	0.65			
7				13	56	77	131	2.9	0.87			
8				13	42	74	115	2.7	1.0			
9				14	28	81	100	2.9	1.2			
10				17	20	84	76	2.9	1.1			
11				17	7.2	86	65	2.3	0.89			
12				17	4.3	83	56	1.9	4.9			
13				17	2.8	78	50	1.6	7.6			
14				16	2.4	67	41	1.5	7.2			
15				14	2.9	58	31	1.4	7.1			
16				13	4.8	46	25	1.2	8.3			
17				12	5.3	28	22	1.2	9.3			
18				12	4.7	10	14	1.2	9.0			
19				15	3.3	5.5	12	1.2	9.4			
20				16	1.4	4.1	11	1.5	9.8			
21				28	1.6	3.6	8.5	1.7	9.3			
22				85	1.7	2.9	6.3	1.7	6.9			
23				72	2.2	2.9	5.8	1.4	6.4			
24				52	1.6	10	5.0	1.4	5.9			
25				38	4.6	33	3.1	1.4	3.9			
26				29	5.3	37	3.7	1.1	2.9			
27				25	6.1	46	3.1	1.1	2.3			
28				36	7.7	57	3.2	1.0	1.6			
29				73	15	83	2.4	0.92	1.6			
30				83	23	107	2.7	0.90	1.5			
31				---	30	---	2.2	0.88	---			
Total				807	738.9	1,524.0	1,552.0	56.50	124.29			
Mean				26.9	23.8	50.8	50.1	1.82	4.14			
Max				85	87	107	145	3.0	9.8			
Min				11	1.4	2.9	2.2	0.88	0.61			
Ac-ft				1,600	1,470	3,020	3,080	112	247			

STATISTICS OF MONTHLY MEAN DATA FOR SEASONS 1946 - 2007*

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.48	6.68	61.3	56.2	14.0	27.1	18.5	5.02	3.92	7.96	0.04	0.02
Max	3.39	19.5	343	1,218	108	222	137	85.9	54.4	54.5	0.31	0.14
(WY)	(1947)	(1947)	(1947)	(1952)	(1986)	(1953)	(1993)	(1993)	(1993)	(1987)	(1953)	(1953)
Min	0.00	0.00	0.63	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1948)	(1948)	(1949)	(2002)	(1949)	(1949)	(1946)	(1946)	(1946)	(1947)	(1947)	(1947)

* During periods of operation.

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SUMMARY STATISTICS

	2007 Season		Seasons 1946 – 2007*	
Highest daily mean	145	Jul 5	5,100	Apr 3, 1952
Lowest daily mean	0.61	Sep 4	0.00	Feb 1, 1946
Maximum peak flow	161	Jul 6	5,570	Apr 3, 1952
Maximum peak stage	4.27	Jul 6	^a 14.70	Apr 3, 1952

* During periods of operation.

^a From floodmarks.

