

Water-Data Report 2006

06149500 BATTLE CREEK AT INTERNATIONAL BOUNDARY

Upper Missouri Basin
Battle Subbasin

(International gaging station)

LOCATION.--Lat 49°00'07", long 109°25'18" referenced to North American Datum of 1927, in SE ¼ sec.4, T.0 1., R.26 W., Hydrologic Unit is unknown, Lat 49°00'07", long 109°25'18" referenced to North American Datum of 1927, in SE¼ sec.4, T.1, R.26 W., third meridian, Hydrologic Unit 10050008, on left bank 600 ft north of international boundary, in Saskatchewan, 8 mi upstream from Woodpile Coulee, 30 mi north of Chinook, MT, and at mile 69.8.

DRAINAGE AREA.--997 mi², (2,582 km²) of which 378 mi² (979 km²) probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1917 to current season (seasonal records only most seasons). Monthly discharge only for March 1918 and March 1928, published in Water Supply Paper (WSP) 1309.

REVISED RECORDS. -- WSP 1389: 1935, maximum discharge (M); 1936; 1937-38 (M). WSP 1729: 1924, 1926, 1932 (monthly discharge only). Water Data Report 1983: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,729.8 ft, referenced to the International Boundary Commission Survey Datum.

COOPERATION.--This is one of a number of stations which are maintained jointly by Canada and the United States.

REMARKS.--Records are good except those for estimated daily discharges, which are poor. Natural flow of stream is affected by storage reservoirs, diversions for irrigation of about 9,500 acres, and return flow from irrigated areas. Water may be diverted into or from Frenchman River basin through Cypress Lake. Water Survey of Canada satellite telemeter is located at the station. Several unpublished observations of water temperature and specific conductance were made during the year.

06149500 BATTLE CREEK AT INTERNATIONAL BOUNDARY—Continued

DISCHARGE, CUBIC FEET PER SECOND
CALENDAR YEAR JANUARY TO DECEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1			e8.1	14	12	37	14	0.07	0.00	12		
2			e9.9	16	17	36	13	0.04	0.00	10		
3			e12	13	18	37	12	0.04	0.00	9.0		
4			e13	23	16	37	11	0.04	0.00	8.1		
5			e12	26	10	30	9.5	0.00	0.00	7.7		
6			e11	19	9.3	21	8.3	0.00	0.00	7.6		
7			e9.9	26	7.9	16	7.1	0.00	0.00	7.5		
8			e10	37	7.5	16	5.8	0.00	0.00	6.8		
9			e11	21	9.9	16	5.2	0.00	0.00	6.5		
10			e12	29	7.0	16	4.8	0.00	0.00	6.6		
11			e9.9	24	5.7	16	4.6	0.00	0.00	6.7		
12			e7.1	12	5.6	15	4.3	0.00	0.00	6.5		
13			e5.3	8.4	4.7	14	4.2	0.00	0.00	7.0		
14			e4.6	15	7.9	13	3.4	0.00	0.00	7.2		
15			e4.9	16	4.9	15	5.3	0.00	0.00	7.8		
16			5.2	14	2.8	16	6.2	0.00	0.00	8.1		
17			5.8	11	1.9	18	5.2	0.00	0.00	8.4		
18			5.6	8.8	1.3	21	4.3	0.00	0.00	8.7		
19			4.9	6.4	0.99	18	4.3	0.00	0.00	9.5		
20			4.8	4.6	1.1	17	3.9	0.00	0.00	11		
21			4.7	4.4	1.2	16	3.2	0.00	0.00	11		
22			4.9	4.1	0.81	19	2.0	0.00	0.00	11		
23			5.1	18	0.67	23	1.5	0.00	0.00	11		
24			6.7	20	0.46	21	1.0	0.00	0.00	11		
25			8.3	16	0.57	19	0.74	0.00	0.00	11		
26			9.1	18	1.1	17	0.53	0.00	0.00	11		
27			9.1	17	1.1	19	0.42	0.00	0.00	11		
28			9.5	15	5.1	20	0.39	0.00	6.0	13		
29			11	14	16	17	0.49	0.00	8.4	13		
30			12	13	18	15	0.32	0.00	11	12		
31			11	---	27	---	0.14	0.00	---	7.8		
Total			258.4	483.7	223.50	611	147.13	0.19	25.40	285.5		
Mean			8.34	16.1	7.21	20.4	4.75	0.01	0.85	9.21		
Max			13	37	27	37	14	0.07	11	13		
Min			4.6	4.1	0.46	13	0.14	0.00	0.00	6.5		
Ac-ft			513	959	443	1,210	292	0.4	50	566		

STATISTICS OF MONTHLY MEAN DATA FOR SEASONS 1917 - 2006

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean			49.4	123	56.2	32.5	16.5	6.95	7.98	8.06		
Max			353	1,526	538	261	250	50.7	332	57.7		
(WY)			(1997)	(1952)	(1927)	(1927)	(1955)	(1975)	(1986)	(1987)		
Min			0.00	4.34	0.77	0.00	0.00	0.00	0.00	0.00		
(WY)			(1936)	(1981)	(1937)	(1937)	(1919)	(1919)	(1919)	(1920)		

06149500 BATTLE CREEK AT INTERNATIONAL BOUNDARY—Continued

SUMMARY STATISTICS

	For 2006 Season		Seasons 1917 - 2006	
Highest daily mean	37	Apr 8	5,590	Apr 15, 1952
Lowest daily mean	0.00	Many days	0.00	Mar 1, 1918
Maximum peak flow	65	Apr 8	^a 9,780	Sep 25, 1986
Maximum peak stage	4.37	Apr 8	11.57	Sep 25, 1986

^a From rating curve extended above 4,400 ft³/s on basis of slope-area measurement of peak flow.

