

Water-Data Report 2012

06151500 BATTLE CREEK NEAR CHINOOK, MT

Milk Basin
Battle Subbasin

LOCATION.--Lat 48°38'58", long 109°13'54" referenced to North American Datum of 1983, in NW ¼ SW ¼ NE ¼ sec.3, T.33 N., R.19 E., Blaine County, MT, Hydrologic Unit 10050008, on left bank, 4 mi north of Chinook, and at river mile 14.

DRAINAGE AREA.--1,623 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1905 to September 1921, June 1984 to current year (seasonal records only). Monthly discharge only for some periods was published in Water Supply Paper 1309. Site was published as "North Fork Milk River near Chinook" prior to 1913.

REVISED RECORDS.--Water Data Report 2006: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,410 ft, referenced to the National Geodetic Vertical Datum of 1929. Apr. 22, 1905 to Apr. 8, 1918, chain gage located 100 ft downstream, and Apr. 9, 1918 to Sept. 30, 1921, chain gage located on bridge 600 ft downstream at same elevation but different from present elevation.

REMARKS.--Records are good. Diversions for irrigation of about 11,000 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 Several unpublished observations of water temperature and specific conductance were made during the year.

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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	33						18	7.1	71	26	2.3	5.3
2	33						20	6.4	65	20	1.3	4.0
3	34						e28	5.6	74	21	1.1	3.2
4	34						36	21	63	18	2.9	3.6
5	35						33	41	60	17	5.1	6.3
6	36						29	41	53	14	2.5	7.5
7	39						23	45	39	12	1.1	7.9
8	40						19	44	29	19	4.3	7.9
9	40						19	42	28	20	5.0	7.6
10	40						17	35	27	14	3.7	7.5
11	40						19	43	28	11	6.7	3.2
12	39						20	57	30	9.0	5.5	3.1
13	41						26	36	26	15	7.2	1.6
14	48						21	33	32	10	5.9	0.45
15	47						17	32	41	13	7.0	1.5
16	45						14	29	42	15	8.0	4.6
17	44						12	24	70	5.5	7.0	4.8
18	44						11	19	64	16	3.1	4.9
19	44						13	20	58	15	1.5	4.9
20	43						14	19	51	18	2.3	4.6
21	43						13	24	37	18	2.6	4.2
22	44						13	48	27	17	4.0	4.8
23	44						11	53	22	17	6.4	5.1
24	44						10	63	17	14	15	5.6
25	43						8.0	62	22	15	10	6.1
26	43						6.1	51	26	15	8.7	6.8
27	43						6.3	57	21	12	7.5	7.0
28	43						9.2	68	37	11	7.6	7.3
29	43						8.3	68	21	13	9.1	7.7
30	44						7.4	63	20	12	8.0	7.5
31	44						---	68	---	4.6	7.0	---
Total	1,277						501.3	1,225.1	1,201	457.1	169.4	156.55
Mean	41.2						16.7	39.5	40.0	14.7	5.46	5.22
Max	48						36	68	74	26	15	7.9
Min	33						6.1	5.6	17	4.6	1.1	0.45
Ac-ft	2,530						994	2,430	2,380	907	336	311

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	49.5						79.2	39.4	37.7	16.4	5.45	37.8
Max	159						929	413	384	130	43.8	910
(WY)	(1987)						(2011)	(2011)	(2011)	(2011)	(2011)	(1986)
Min	0.01						0.03	0.00	0.09	0.02	0.00	0.00
(WY)	(1985)						(2002)	(2002)	(1984)	(1984)	(2001)	(1984)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1984 - 2012	
Highest daily mean	2,770	Apr 12	74	Jun 3	12,000	Sep 26, 1986
Lowest daily mean	25	Sep 6	0.45	Sep 14	0.00	Jul 12, 1984 ^b
Maximum peak flow			76	May 31	19,400	Sep 26, 1986
Maximum peak stage			2.22	May 31	22.91	Sep 26, 1986
Instantaneous low flow			^a 0.32	Sep 14	0.00	Jul 12, 1984 ^b

^aGage height, 1.14 ft.

^bNo flow at times most seasons.

