

Water-Data Report 2012

06133500 NORTH FORK MILK RIVER ABOVE ST. MARY CANAL, NEAR BROWNING, MT

Milk Basin
Milk Headwaters Subbasin

LOCATION.--Lat 48°58'15", long 113°03'21" referenced to North American Datum of 1983, in NE ¼ NE ¼ SW ¼ sec.16, T.37 N., R.11 W., Glacier County, MT, Hydrologic Unit 10050001, Blackfeet Indian Reservation, on left bank 2.3 mi upstream from outlet of canal, 2.3 mi south of international boundary, 29 mi north of Browning, and at river mile 58.3.

DRAINAGE AREA.--59 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1911 to July 1912 (published as "near Browning"), June to July 1918 (staff-gage readings only), May 1919 to current season (seasonal records only). Monthly discharge only for some periods are published in Water Supply Paper 1309.

REVISED RECORDS.--Water Data Report (WDR) 1983: drainage area. WDR 1997: drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,240 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to June 20, 1921, nonrecording gages at several sites within 1 mi of present site at different elevations. June 20, 1921 to Mar. 19, 1997 water-stage recorder at site 0.5 mile downstream from current site at elevation 15 ft lower.

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

REMARKS.--Records are good except for estimated daily discharges, which are poor. Many small diversions for irrigation 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 Several unpublished observations of water temperature and specific conductance were made during the year.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	31					e20	58	29	e25	20	22	19
2	32					e20	38	27	e30	20	27	18
3	31					e25	34	27	e25	18	37	18
4	32					e25	34	27	e25	17	30	18
5	34					e25	33	27	e30	17	26	19
6	86					e20	31	40	e55	17	22	24
7	61					e20	30	39	30	17	19	25
8	47					e25	29	31	26	16	19	21
9	37					e30	29	28	24	16	19	20
10	34					e35	29	28	34	16	20	20
11	34					e40	30	28	34	15	20	19
12	33					e35	31	26	26	15	22	19
13	32					37	31	26	23	16	24	19
14	32					31	30	e25	23	17	23	19
15	33					33	31	e25	22	20	24	18
16	32					45	31	e25	21	18	26	18
17	32					33	32	e20	21	18	24	18
18	32					30	31	e25	20	19	23	17
19	33					29	30	e30	20	20	22	17
20	32					29	30	e25	21	21	21	17
21	33					30	30	e20	21	23	22	17
22	32					33	31	e30	20	20	23	17
23	33					36	30	e25	20	19	21	17
24	32					30	31	e30	21	19	21	17
25	32					29	31	e35	23	18	22	16
26	32					29	30	e30	23	18	21	15
27	e25					31	47	e35	26	18	20	17
28	e25					62	33	e35	21	19	19	16
29	32					106	31	e30	20	18	18	16
30	32					112	30	e25	19	19	19	16
31	33					97	---	e20	---	19	19	---
Total	1,091					1,182	976	873	749	563	695	547
Mean	35.2					38.1	32.5	28.2	25.0	18.2	22.4	18.2
Max	86					112	58	40	55	23	37	25
Min	25					20	29	20	19	15	18	15
Ac-ft	2,160					2,340	1,940	1,730	1,490	1,120	1,380	1,080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2012, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	18.0	20.1				23.6	36.2	34.0	31.0	20.1	16.9	18.4
Max	55.0	33.0				72.1	167	164	147	101	65.5	86.8
(WY)	(1996)	(1912)				(1997)	(1948)	(1967)	(1995)	(1995)	(1951)	(1911)
Min	4.95	7.27				8.14	9.47	7.14	6.95	4.12	3.30	3.90
(WY)	(1941)	(1940)				(2001)	(2002)	(1941)	(1988)	(1985)	(1940)	(1940)

*During periods of operation (May 1911 to July 1912 and May 1919 to current season).

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SUMMARY STATISTICS

	Calendar Year 2011	Water Year 2012	Water Years 1911 – 2012*
Highest daily mean	257 Jun 7	112 Mar 30	1,320 Apr 22, 1953
Lowest daily mean	25 Many days	15 Jul 11	1.7 Sep 17, 1940
Maximum peak flow		^a 211 Mar 29	^c 3,090 May 8, 1967
Maximum peak stage		^b 4.53 Mar 5	^d 10.50 Mar 19, 1997

*During periods of operation (May 1911 to July 1912 and May 1919 to current season).

^aGage height, 4.30 ft.

^bBackwater from ice.

^cAbout. Gage height, 7.95 ft, from rating curve extended above 130 ft³/s, on basis of slope-area measurements of peak flow at gage heights 7.55 ft and 7.95 ft, at previous site and datum.

^dBackwater from ice, gage height, 9.07 ft, from floodmarks at previous site, which was destroyed.

