

Water-Data Report 2007

## 06134000 NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY

Upper Missouri Basin

Upper Milk Subbasin

LOCATION.--Lat 49°01'19", long 112°58'16" referenced to North American Datum of 1927, Hydrologic Unit is unknown, in SW¼NE¼ sec.11, T.1, R.23 W., fourth meridian, in Alberta, Hydrologic Unit 10050001, on right bank 0.4 mi upstream from highway bridge, 1.6 mi north of international boundary, 2.8 mi east of Whiskey Gap, Alberta, 11 mi southeast of Kimball, Alberta, and at river mile 49.9.

DRAINAGE AREA.--91.8 mi<sup>2</sup>, area at site used Apr. 12, 1930, to Aug. 15, 1962, 97.4 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1909 to October 1912 (seasonal records only), January 1913 to October 1922, March 1923 to current season (seasonal records only). Records for November and December 1912, published in Water Supply Paper (WSP) 1309, have been found to be unreliable and should not be used. Published as "near Kimball, Alberta" 1913-16. Prior to February 1962, published as North Fork Milk River near international boundary.

REVISED RECORDS.-- Water Supply Paper 1309: 1909-13, 1915, maximum discharge (M); 1920 (M); 1937 (M). WSP 1559: 1948 (M). WSP 1729: 1944 (M). W 1983: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Elevation of gage is 4,112.16 ft, referenced to the Canadian Geodetic Vertical Datum 1928. Prior to May 1913, nonrecording gage located at site 2 mi downstream at different elevation. May 1, 1913, to Apr. 11, 1930, water-stage recorder located 700 ft downstream at different elevation. Apr. 12, 1930, to Aug. 15, 1962, water-stage recorder located 1,500 ft downstream at different elevation.

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. Since 1917, flow increased during irrigation season by water from St. Mary Canal (station number 05018500). Several small diversions for irrigation occur upstream from station. Water Survey of Canada satellite telemeter is located at the station.

## 06134000 NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY—Continued

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

[e, estimated]

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1			e17	629	456	491	452	607	207	11		
2			e16	632	456	480	452	607	134	9.6		
3			e17	629	487	487	445	604	93	10		
4			e29	625	487	494	505	604	60	10		
5			e106	625	463	501	618	604	41	11		
6			e283	622	463	509	639	607	22	11		
7			e353	622	463	512	643	607	18	11		
8			e136	622	459	498	646	604	19	11		
9			e74	632	456	530	646	600	18	11		
10			e58	622	456	586	639	604	12	11		
11			e424	625	487	586	639	597	11	10		
12			e431	629	544	583	636	597	10	10		
13			410	636	593	576	632	593	10	10		
14			452	607	604	576	632	593	10	10		
15			519	565	614	565	632	590	9.9	10		
16			547	558	622	561	629	586	9.5	10		
17			569	523	618	565	629	586	9.7	10		
18			593	501	618	558	629	583	10	10		
19			600	512	618	551	632	583	14	11		
20			607	484	618	544	625	579	15	11		
21			611	459	622	509	625	565	13	11		
22			632	466	629	480	622	561	11	11		
23			629	459	618	427	618	526	14	11		
24			632	459	622	367	614	505	19	11		
25			625	452	622	371	614	498	14	11		
26			622	452	607	357	611	491	12	11		
27			629	452	604	353	614	494	11	11		
28			629	452	618	353	611	470	12	11		
29			629	452	622	399	611	399	12	11		
30			632	452	607	452	607	353	12	e11		
31			629	---	551	---	607	311	---	e11		
<b>Total</b>			13,140	16,455	17,304	14,821	18,754	17,108	863.1	329.6		
<b>Mean</b>			424	548	558	494	605	552	28.8	10.6		
<b>Max</b>			632	636	629	586	646	607	207	11		
<b>Min</b>			16	452	456	353	445	311	9.5	9.6		
<b>Ac-ft</b>			26,060	32,640	34,320	29,400	37,200	33,930	1,710	654		

**STATISTICS OF MONTHLY MEAN DATA FOR SEASONS 1917 - 2007**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Mean</b>	20.6	17.5	72.0	208	430	524	558	530	304	57.2	46.9	20.0
<b>Max</b>	45.8	34.9	424	633	732	745	727	721	702	524	176	34.5
<b>(WY)</b>	(1918)	(1917)	(2007)	(1991)	(2001)	(1976)	(1936)	(1969)	(2002)	(1951)	(1940)	(1917)
<b>Min</b>	9.46	6.25	9.67	23.6	38.6	43.5	84.3	16.0	5.57	6.06	12.2	10.9
<b>(WY)</b>	(1921)	(1922)	(2002)	(1940)	(1918)	(1952)	(2002)	(1982)	(1988)	(1942)	(1922)	(1921)

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SUMMARY STATISTICS

	2007 Season		Seasons 1917 - 2007	
Highest daily mean	646	Jul 8	2,170	Jun 7, 1995
Lowest daily mean	9.5	Sep 16	0.00	Mar 1, 1940
Maximum peak flow	<sup>a</sup> 653	Jul 9	<sup>c</sup> 3,670	Jun 6, 1995
Maximum peak stage	<sup>b</sup> 4.84	Mar 7	<sup>b</sup> 6.89	Jun 6, 1995

<sup>a</sup> Gage height, 3.11 ft.

<sup>b</sup> Backwater from ice.

<sup>c</sup> From rating curve extended above 1,500 ft<sup>3</sup>/s.

