



Water-Data Report 2012

**06154100 MILK RIVER NEAR HARLEM, MT**

Milk Basin  
Middle Milk Subbasin

LOCATION.--Lat 48°29'23", long 108°45'32" referenced to North American Datum of 1983, in NE ¼ SE ¼ NE ¼ sec.32, T.32 N., R.23 E., Blaine County, MT, Hydrologic Unit 10050004, Fort Belknap Indian Reservation, on right bank 30 ft downstream from U.S. Highway 2 bridge, 0.6 mi northeast of unincorporated community of Fort Belknap Agency, 3.5 mi southeast of Harlem, and at river mile 332.2.

DRAINAGE AREA.--9,822 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1959 to September 1969, October 1982 to current year (seasonal record beginning 1994 water year). Gage heights only for period Apr. 3-25, 1952, published as "at Fort Belknap" in 1260-B.

REVISED RECORDS.--Water Supply Paper 1729: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,319.48 ft, referenced to the National Geodetic Vertical Datum of 1929. Apr. 3-25, 1952, nonrecording gage on old bridge 200 ft downstream at different elevation. Nov. 1, 1959, to Mar. 12, 1968, nonrecording gage or water-stage recorder at several sites within 0.5 mi of present site at different elevation.

REMARKS.--Records are good except for estimated daily discharges, which are poor. Flow increased during irrigation season by water from St. Mary Canal (station number 05018500). Flow is mainly regulated by Fresno Reservoir (station number 06136500) beginning in 1939. Diversions for irrigation of about 60,000 acres of which about 13,000 acres lie downstream 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 Several unpublished observations of water temperature and specific conductance were made during the year.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 April 1952 reached a stage of about 23.5 ft, present site and elevation.

## Water-Data Report 2012

**06154100 MILK RIVER NEAR HARLEM, MT—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**  
[e, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	167					e180	205	633	1,340	623	474	451
<b>2</b>	168					e180	199	632	1,320	618	458	456
<b>3</b>	168					e185	195	665	1,280	588	461	462
<b>4</b>	157					e185	197	754	1,250	617	480	468
<b>5</b>	148					e190	198	854	1,130	573	507	466
<b>6</b>	148					e190	189	958	1,010	544	511	495
<b>7</b>	156					e185	180	1,020	935	499	511	500
<b>8</b>	163					e185	178	1,110	860	503	517	482
<b>9</b>	164					e195	180	1,030	810	550	506	421
<b>10</b>	170					e200	179	1,030	777	532	508	417
<b>11</b>	170					e220	183	1,040	809	462	497	413
<b>12</b>	164					e230	180	1,070	849	441	498	408
<b>13</b>	181					e250	178	1,060	896	501	513	365
<b>14</b>	184					e240	176	1,030	983	531	522	324
<b>15</b>	182					e230	175	990	982	680	519	274
<b>16</b>	203					e220	167	944	994	783	521	213
<b>17</b>	194					e212	163	872	979	823	537	183
<b>18</b>	185					201	160	735	946	851	526	185
<b>19</b>	187					206	163	752	966	822	465	193
<b>20</b>	189					208	164	721	975	740	461	174
<b>21</b>	186					e210	158	685	930	681	448	164
<b>22</b>	182					e200	117	664	877	696	420	236
<b>23</b>	182					e190	123	643	825	702	395	181
<b>24</b>	181					199	132	668	786	691	382	145
<b>25</b>	180					211	136	716	771	677	382	97
<b>26</b>	180					209	134	714	742	620	408	80
<b>27</b>	181					203	136	824	742	593	400	87
<b>28</b>	182					201	150	1,350	744	568	426	82
<b>29</b>	184					211	401	1,360	695	552	473	78
<b>30</b>	185					217	622	1,280	645	518	458	76
<b>31</b>	187					212	---	1,320	---	502	445	---
<b>Total</b>	5,458					6,355	5,718	28,124	27,848	19,081	14,629	8,576
<b>Mean</b>	176					205	191	907	928	616	472	286
<b>Max</b>	203					250	622	1,360	1,340	851	537	500
<b>Min</b>	148					180	117	632	645	441	382	76
<b>Ac-ft</b>	10,830					12,610	11,340	55,780	55,240	37,850	29,020	17,010

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2012, BY WATER YEAR (WY)\***

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	192	94.4	71.8	69.4	84.5	397	567	712	714	574	407	334
<b>Max</b>	949	289	198	139	200	2,287	3,079	3,506	4,062	2,484	726	1,913
(WY)	(1987)	(1987)	(1987)	(1990)	(1987)	(1996)	(2011)	(1967)	(2011)	(1965)	(1965)	(1986)
<b>Min</b>	37.4	31.2	25.9	19.0	26.5	37.1	54.4	129	232	138	10.3	20.9
(WY)	(1989)	(1964)	(1985)	(1985)	(1985)	(2002)	(1961)	(2001)	(1985)	(2001)	(1988)	(1988)

\*During periods of operation (1960-69, 1983 to current year; seasonal records beginning water year 1994).

**06154100 MILK RIVER NEAR HARLEM, MT—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2011</b>		<b>Water Year 2012</b>		<b>Water Years 1960 – 2012*</b>	
<b>Annual mean</b>					349	
<b>Highest annual mean</b>					857	1965
<b>Lowest annual mean</b>					139	1984
<b>Highest daily mean</b>	6,300	Jun 11	1,360	May 29	12,900	Sep 29, 1986
<b>Lowest daily mean</b>	148	Oct 5	76	Sep 30	0.00	Aug 10, 1988 <sup>a</sup>
<b>Maximum peak flow</b>			1,470	May 28	13,900	Sep 29, 1986
<b>Maximum peak stage</b>			11.19	May 28	25.73	Sep 29, 1986
<b>Annual runoff (ac-ft)</b>					253,200	
<b>10 percent exceeds</b>					682	
<b>50 percent exceeds</b>					180	
<b>90 percent exceeds</b>					39	

\*During periods of operation (1960-69, 1983 to current year; seasonal records beginning water year 1994).

<sup>a</sup>No flow on many days in August and September 1988.

