



Water-Data Report 2012

**06062500 TENMILE CREEK NEAR RIMINI, MT**

Upper Missouri Basin  
Upper Missouri Subbasin

LOCATION.--Lat 46°31'26", long 112°15'24" referenced to North American Datum of 1983, in NE ¼ SW ¼ NE ¼ sec.20, T.9 N., R.5 W., Lewis and Clark County, MT, Hydrologic Unit 10030101, Helena National Forest, on left bank at U.S. Forest Service Moose Creek campground, 500 ft upstream from Moose Creek, 2.5 mi north of Rimini, and at river mile 20.4.

DRAINAGE AREA.--30.9 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1914 to September 1994, May 1997 to current year. Monthly discharge only for some periods are published in Water Supply Paper (WSP) 1309.

REVISED RECORDS.--WSP 1309: 1917, 1921, 1924-25. WSP 1509: 1915; 1916-17, maximum discharge (M); 1920 (M); 1927, minimum discharge (m); 1928-1930; 1947 (m); 1948; 1950 (M). WSP 1559: Drainage area. WSP 1709: 1959. Water Data Report-MT-97-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,850 ft, referenced to the National Geodetic Vertical Datum of 1929. Prior to Dec. 17, 1934, water-stage recorder at site 40 ft downstream at different elevation and different control.

REMARKS.--Records are good except below 1.0 ft<sup>3</sup>/s and for estimated daily discharges, which are poor. Flow is regulated by Chessman and Scott Reservoirs on tributaries upstream from station, which have a combined capacity, 2,340 acre-feet. Some small diversions occur upstream from station. U.S. Geological Survey 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 Several unpublished observations of water temperature and specific conductance were made during the year.

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## 06062500 TENMILE CREEK NEAR RIMINI, 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>	1.7	4.6	e2.5	2.5	2.1	1.6	29	76	85	10	2.3	0.99
<b>2</b>	1.7	e3.0	e3.0	2.7	2.1	1.6	23	67	94	11	2.1	1.00
<b>3</b>	2.3	e3.0	3.1	2.7	1.8	1.5	20	63	95	8.8	2.5	0.99
<b>4</b>	2.4	e3.5	e2.5	2.6	e1.8	1.4	20	61	83	7.4	2.5	0.94
<b>5</b>	4.7	e3.5	e2.0	2.7	1.8	1.7	21	59	83	6.7	2.4	0.94
<b>6</b>	4.2	e3.0	e2.3	2.5	1.8	1.6	20	51	94	6.2	2.5	0.95
<b>7</b>	7.3	e3.0	3.2	2.0	1.7	1.5	18	49	76	6.4	2.6	0.98
<b>8</b>	7.0	e3.5	2.9	e2.0	1.6	1.4	17	51	70	7.8	2.2	0.94
<b>9</b>	5.8	e3.0	2.8	e2.0	1.6	1.6	17	59	69	6.5	2.5	0.92
<b>10</b>	7.3	e2.5	2.7	e2.0	1.6	2.0	18	61	63	5.1	2.5	0.87
<b>11</b>	6.9	e3.0	2.5	1.9	1.6	2.2	23	55	60	4.3	2.8	0.95
<b>12</b>	4.7	e3.0	e2.0	e2.0	1.7	2.4	36	52	55	4.3	2.2	0.96
<b>13</b>	3.9	e3.5	e1.5	e2.0	1.6	2.4	36	52	65	4.0	2.0	1.0
<b>14</b>	3.7	e3.5	e2.5	e2.0	1.6	2.4	37	60	56	4.6	1.8	1.00
<b>15</b>	4.4	e3.5	3.1	e1.9	1.6	2.8	36	67	49	6.4	2.0	0.95
<b>16</b>	5.5	e3.5	2.9	e1.5	1.7	5.2	35	75	42	6.1	2.3	0.93
<b>17</b>	5.1	e4.0	3.0	e1.4	1.6	5.7	38	74	40	12	2.0	0.95
<b>18</b>	4.1	e4.0	2.9	e1.6	1.7	6.0	37	65	38	6.2	1.7	0.93
<b>19</b>	4.1	e3.0	2.9	e2.0	1.7	4.1	36	57	35	5.0	1.7	0.91
<b>20</b>	4.0	e3.5	2.8	e2.0	1.6	3.7	40	50	30	4.3	1.5	0.90
<b>21</b>	4.1	4.1	2.8	e2.5	1.6	3.7	54	47	26	4.0	1.4	0.88
<b>22</b>	4.2	3.9	2.7	e2.5	e1.9	4.1	68	58	24	3.5	1.5	0.92
<b>23</b>	4.2	3.7	2.8	e2.0	e1.9	5.6	90	50	22	3.4	1.3	0.95
<b>24</b>	4.7	3.8	2.8	e2.0	e1.8	3.7	125	44	20	3.3	1.2	0.94
<b>25</b>	4.7	3.6	2.7	e2.5	e1.7	3.5	142	40	18	3.1	1.2	0.91
<b>26</b>	3.8	3.9	2.7	e2.0	1.7	6.1	175	39	16	3.0	1.2	0.93
<b>27</b>	4.0	4.3	2.7	e2.0	1.5	9.4	157	43	15	3.7	1.1	0.93
<b>28</b>	3.9	4.4	2.9	e2.5	1.5	9.4	118	57	14	3.5	1.1	0.96
<b>29</b>	4.6	4.1	e3.0	e2.5	1.8	9.2	97	68	12	2.8	0.99	0.92
<b>30</b>	4.5	3.9	e3.0	e2.5	---	11	84	67	11	2.5	1.0	0.91
<b>31</b>	4.9	---	e2.5	e2.3	---	19	---	64	---	2.4	1.0	---
<b>Total</b>	138.4	106.8	83.7	67.3	49.7	137.5	1,667	1,781	1,460	168.3	57.09	28.25
<b>Mean</b>	4.46	3.56	2.70	2.17	1.71	4.44	55.6	57.5	48.7	5.43	1.84	0.94
<b>Max</b>	7.3	4.6	3.2	2.7	2.1	19	175	76	95	12	2.8	1.0
<b>Min</b>	1.7	2.5	1.5	1.4	1.5	1.4	17	39	11	2.4	0.99	0.87
<b>Ac-ft</b>	275	212	166	133	99	273	3,310	3,530	2,900	334	113	56

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 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>	3.04	2.36	1.72	1.42	1.29	2.53	18.4	83.1	74.0	12.3	2.66	2.28
<b>Max</b>	23.1	13.6	9.64	6.97	5.05	17.5	66.7	300	346	66.4	22.5	22.4
(WY)	(1966)	(1986)	(1918)	(1918)	(1921)	(1986)	(1926)	(1917)	(1975)	(1969)	(1993)	(1993)
<b>Min</b>	0.19	0.22	0.17	0.14	0.06	0.07	1.50	6.14	3.01	0.34	0.13	0.23
(WY)	(1974)	(1941)	(1941)	(1941)	(2002)	(2002)	(1975)	(2000)	(2000)	(1985)	(2000)	(1935)

\*During periods of operation (1915-1994, May 1997 to current year).

**06062500 TENMILE CREEK NEAR RIMINI, MT—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2011</b>	<b>Water Year 2012</b>		<b>Water Years 1915 – 2012*</b>	
<b>Annual total</b>	14,662.5		5,745.04		
<b>Annual mean</b>	40.2		15.7		17.1
<b>Highest annual mean</b>				53.1	1917
<b>Lowest annual mean</b>				1.74	2000
<b>Highest daily mean</b>	570	Jun 7	175	Apr 26	1,880 May 22, 1981
<b>Lowest daily mean</b>	1.5	Sep 25	0.87	Sep 10	0.00 Aug 31, 1931
<b>Annual seven-day minimum</b>	1.6	Sep 22	0.92	Sep 19	0.00 Aug 31, 1931
<b>Maximum peak flow</b>			199	Apr 26	3,290 May 22, 1981
<b>Maximum peak stage</b>			3.15	Apr 26	6.20 May 22, 1981
<b>Annual runoff (ac-ft)</b>	29,080		11,400		12,370
<b>10 percent exceeds</b>	164		58		51
<b>50 percent exceeds</b>	3.9		3.1		2.0
<b>90 percent exceeds</b>	2.5		1.2		0.40

\*During periods of operation (1915-1994, May 1997 to current year).

