

Water-Data Report 2013

06308400 PUMPKIN CREEK NEAR MILES CITY, MT

Tongue Basin
Lower Tongue Subbasin

LOCATION.--Lat 46°13'42", long 105°41'26" referenced to North American Datum of 1983, in SW ¼ NE ¼ SW ¼ sec.35, T.6 S., R.48 E., Custer County, MT, Hydrologic Unit 10090102, on right bank 12 ft upstream from bridge on U.S.Highway 312, 7.5 mi upstream from mouth, and 16 mi southeast of Miles City.

DRAINAGE AREA.--697 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1972 to November 1985, May 2004 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,474.86 ft, referenced to the National Geodetic Vertical Datum of 1929. May 2004 to April 2013, recording gage at same site but different datum.

REMARKS.--Records are fair except for estimated daily discharges, which are poor. Diversion for irrigation of about 3,600 acres occurs above station. U.S. Geological Survey satellite telemeter is located at the station.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	e0.60	e0.00	e0.00	e1.5	2.0	4.0	695	1.8	11	0.00
2	0.00	0.00	e0.60	e0.00	e0.20	e1.5	1.9	3.3	263	1.5	7.3	0.00
3	0.00	0.00	e0.50	e0.00	e0.20	e1.5	1.7	2.9	168	1.3	5.0	0.00
4	0.00	0.00	e0.50	e0.00	e0.40	e1.5	1.4	2.7	153	1.2	31	0.00
5	0.00	0.00	e0.40	e0.00	e0.60	e1.0	1.2	2.2	92	1.1	38	0.00
6	0.00	0.00	e0.40	e0.00	e0.80	e1.0	e1.0	2.0	51	1.0	6.2	0.00
7	0.00	0.00	e0.30	e0.00	e1.0	e1.5	0.90	1.8	32	0.85	25	0.00
8	0.00	0.00	e0.30	e0.00	e1.0	e1.5	0.99	1.7	40	1.7	17	0.00
9	0.00	0.00	e0.20	e0.00	e0.80	e1.5	0.95	1.4	30	2.0	4.6	11
10	0.00	0.00	e0.20	e0.00	e0.60	e1.5	0.90	1.3	21	2.2	1.9	21
11	0.00	0.04	e0.20	e0.00	e0.40	e1.5	0.94	1.1	17	3.9	1.00	5.0
12	0.00	0.21	e0.20	e0.00	e0.60	e1.5	1.7	1.1	24	3.0	0.57	2.1
13	0.00	0.07	e0.20	e0.00	e0.80	e2.0	4.2	0.93	26	3.0	1.1	0.98
14	0.00	e0.00	e0.20	e0.00	e0.60	e2.0	6.7	0.85	27	1.8	4.1	6.3
15	0.00	e0.00	e0.20	e0.00	e0.80	e2.0	7.2	0.69	22	0.89	1.2	4.6
16	0.00	e0.50	e0.20	e0.00	e1.4	e1.5	14	0.75	16	0.51	0.60	3.2
17	0.00	e1.0	e0.20	e0.00	e1.4	e1.5	11	0.62	13	0.37	0.46	2.3
18	0.00	e1.5	e0.20	e0.00	e1.0	e1.5	5.3	0.71	11	0.26	0.33	1.7
19	0.00	e2.0	e0.20	e0.00	e0.60	e1.5	7.3	0.90	8.9	0.20	0.21	13
20	0.00	e2.5	e0.10	e0.00	e0.60	e1.5	7.6	21	7.4	0.16	0.15	12
21	0.00	e2.5	e0.10	e0.00	e0.80	e1.5	9.4	58	6.4	0.12	0.09	3.0
22	0.00	e2.0	e0.10	e0.00	e0.80	e1.5	8.0	32	5.8	0.09	0.07	1.8
23	0.00	e1.5	e0.00	e0.00	e1.0	e1.0	5.4	14	42	2.9	0.05	1.2
24	0.00	e1.2	e0.00	e0.00	e1.0	e1.0	3.2	7.0	35	15	0.06	0.66
25	0.00	e1.0	e0.00	e0.00	e1.0	e1.0	2.1	3.5	11	11	0.06	0.39
26	0.00	e0.90	e0.00	e0.00	e1.0	e1.0	1.5	120	5.3	11	0.06	0.29
27	0.00	e0.80	e0.00	e0.00	e1.0	e1.5	1.6	81	3.7	8.4	0.04	0.21
28	0.00	e0.70	e0.00	e0.00	e1.0	e1.5	2.5	110	2.9	2.6	0.03	0.18
29	0.00	e0.70	e0.00	e0.00	---	e2.0	4.4	74	2.4	1.6	0.01	0.17
30	e0.00	e0.70	e0.00	e0.00	---	e2.0	4.3	461	2.0	1.2	0.00	0.12
31	e0.00	---	e0.00	e0.00	---	e2.0	---	1,510	---	1.1	0.00	---
Total	0.00	19.82	6.10	0.00	21.40	46.5	121.28	2,522.45	1,833.8	83.75	157.19	91.20
Mean	0.00	0.66	0.20	0.00	0.76	1.50	4.04	81.4	61.1	2.70	5.07	3.04
Max	0.00	2.5	0.60	0.00	1.4	2.0	14	1,510	695	15	38	21
Min	0.00	0.00	0.00	0.00	0.00	1.0	0.90	0.62	2.0	0.09	0.00	0.00
Ac-ft	0.00	39	12	0.00	42	92	241	5,000	3,640	166	312	181

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2013, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.39	0.52	0.34	3.00	23.8	50.1	18.5	79.7	27.1	4.00	1.74	4.32
Max	23.0	4.15	2.87	29.4	134	299	85.2	851	112	22.4	16.2	59.8
(WY)	(2006)	(2012)	(2012)	(1983)	(1983)	(1978)	(2006)	(2011)	(2011)	(2011)	(1985)	(1973)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1977)	(1977)	(1975)	(1977)	(1978)	(2005)	(1981)	(1980)	(1977)	(1977)	(1974)	(1974)

*During periods of operation (1972-1985, May 2004 to current year).

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1973 – 2013*	
Annual total	951.94		4,903.49			
Annual mean	2.60		13.4		18.4	
Highest annual mean					115	2011
Lowest annual mean					0.22	1980
Highest daily mean	25	Feb 24	1,510	May 31	4,660	May 21, 2011
Lowest daily mean	0.00 Jun 25		^a 0.00 Oct 1		0.00	Dec 10, 1972 ^b
Annual seven-day minimum	0.00 Jun 25		0.00 Oct 1		0.00	Dec 10, 1972
Maximum peak flow			2,150	May 31	7,900	May 20, 2011
Maximum peak stage			10.49	May 31	14.41	May 20, 2011
Annual runoff (ac-ft)	1,890		9,730		13,300	
10 percent exceeds	7.8		13		21	
50 percent exceeds	0.38		0.95		0.19	
90 percent exceeds	0.00		0.00		0.00	

*During periods of operation (1972-1985, May 2004 to current year).

^aMany days.

^bNo flow at times most years.

