Water-Data Report 2013

12354000 ST. REGIS RIVER NEAR ST. REGIS, MT

Pend Oreille Basin
Middle Clark Fork Subbasin

LOCATION.--Lat 47°17'48", long 115°07'21" referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.26, T.18 N., R.28 W., Mineral County, MT, Hydrologic Unit 17010204, on left bank 50 ft downstream from road bridge, 500 ft upstream from Little Joe Creek, 1.2 mi west of St. Regis, and at river mile 1.7.

DRAINAGE AREA.--303 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1910 to September 1917 (no winter records), annual maximum, water year 1948, published in Water Supply Paper (WSP) 1080, September 1958 to September 1975, February 2002 to current year. Monthly discharge only for some periods, published in WSP 1316 and 1736.

REVISED RECORDS.--Water Supply Paper (WSP) 1246: water year 1912; WSP 1316: drainage area, 1911.

GAGE.--Water-stage recorder. Elevation of gage is 2,645.00 ft, referenced to the National Geodetic Vertical Datum of 1929. September 1910 to September 1917, non-recording gage at site 2 mi upstream at different elevation.

REMARKS.--Records are good except for estimated daily discharges, which are poor. Minor diversions for irrigation for hay meadows occur above 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 Several unpublished observations of water temperature and specific conductance were made during the year.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 on or about Dec. 20, 1933, reached a stage of about 14.5 ft, from information by local residents (discharge unknown). Flood of May 19, 1954, reached a discharge of about 11,000 ft^3/s, gage height, 9.4 ft, from rating curve extended above 5,100 ft^3/s.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 12354000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/12354000.2013.pdf

12354000 ST. REGIS RIVER NEAR ST. REGIS, MT—Continued

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	85	136	310	184	180	164	678	1,390	1,030	375	127	89
2	84	124	424	180	180	190	866	1,270	1,000	356	181	89
3	85	111	476	134	175	229	1,100	1,220	994	337	197	88
4	91	121	455	135	175	232	1,280	1,220	1,030	322	159	89
5	92	121	695	189	178	216	1,480	1,290	1,000	309	146	91
6	92	109	726	188	186	234	1,850	1,490	1,010	297	138	100
7	93	118	626	180	184	231	1,930	1,820	1,030	285	131	92
8	92	121	545	181	183	224	1,780	2,190	1,010	276	126	88
9	90	115	455	196	180	222	1,500	2,510	937	270	122	86
10	88	105	427	e215	176	220	1,340	2,740	871	257	127	85
11	87	97	403	202	173	222	1,300	2,780	803	245	123	82
12	87	93	386	158	171	231	1,190	2,880	753	236	120	80
13	87	92	356	162	176	275	1,200	2,910	697	228	121	78
14	92	93	329	179	179	319	1,100	2,750	649	221	125	76
15	101	94	317	178	173	382	1,030	2,270	605	214	116	74
16	160	88	306	164	175	562	951	1,930	569	207	111	73
17	151	e85	305	158	190	716	881	1,740	545	202	108	76
18	119	e80	288	155	184	685	827	1,670	532	195	106	103
19	112	e100	266	157	180	619	797	1,560	596	188	103	105
20	147	e195	258	156	179	591	850	1,460	682	182	100	94
21	153	448	253	155	165	623	927	1,440	653	178	98	88
22	e130	334	247	149	182	563	916	1,600	567	171	96	85
23	126	250	241	159	180	523	882	1,430	521	156	98	92
24	120	252	238	177	166	495	855	1,290	500	148	98	111
25	115	249	228	e175	171	470	867	1,190	524	150	94	121
26	114	208	222	e190	169	463	939	1,110	499	144	105	124
27	109	183	217	192	161	456	1,120	1,100	461	140	109	108
28	102	169	212	183	161	447	1,390	1,110	433	136	99	106
29	183	168	204	178	---	452	1,620	1,110	414	133	97	212
30	234	214	187	173	---	477	1,570	1,120	396	130	95	264
31	165	---	190	172	---	543	---	1,090	---	127	93	---
Total	3,586	4,673	10,792	5,354	4,932	12,276	35,016	52,680	21,311	6,815	3,669	3,049
Mean	116	156	348	173	176	396	1,167	1,699	710	220	118	102
Max	234	448	726	215	190	716	1,930	2,910	1,030	375	197	264
Min	84	80	187	134	161	164	678	1,090	396	127	93	73
Ac-ft	7,110	9,270	21,410	10,620	9,780	24,350	69,450	104,500	42,270	13,520	7,280	6,050
Cfsm	0.38	0.51	1.15	0.57	0.58	1.31	3.85	5.61	2.34	0.73	0.39	0.34
In.	0.44	0.57	1.32	0.66	0.61	1.51	4.30	6.47	2.62	0.84	0.45	0.37

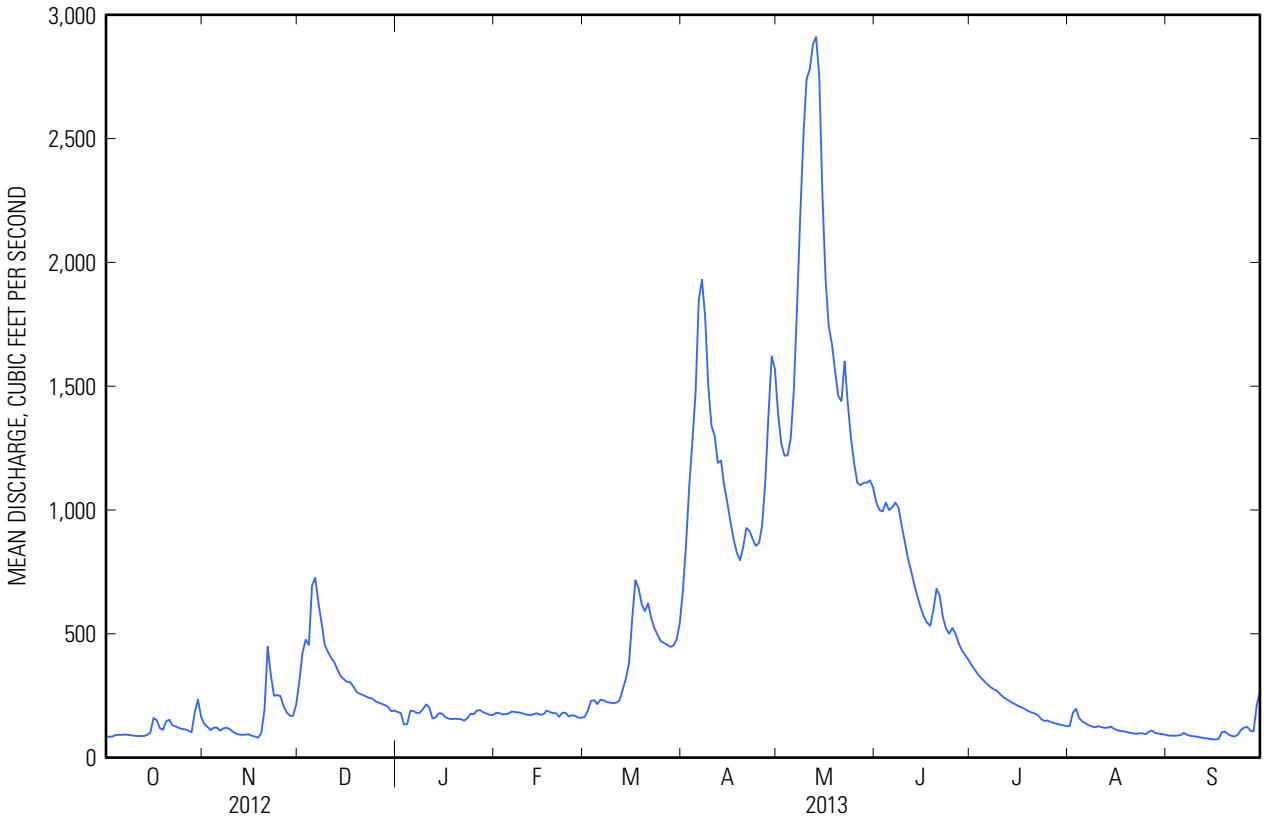
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2013, BY WATER YEAR (WY)*

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	131	209	200	253	263	410	1,189	2,044	1,415	387	156	122
Max	350	590	555	1,363	759	1,366	2,057	4,700	3,367	1,150	313	204
(WY)	(1960)	(1915)	(1959)	(1974)	(1971)	(1972)	(1916)	(1917)	(1974)	(1916)	(1916)	(1914)
Min	85.1	101	77.8	85.3	84.5	94.2	349	671	388	155	83.1	74.3
(WY)	(2004)	(1962)	(2010)	(2010)	(2010)	(1964)	(1975)	(1915)	(1915)	(1973)	(1973)	(2005)

*During periods of operation [September 1910 to September 1917 (no winter records), September 1958 to September 1975, February 2002 to current year].

12354000 ST. REGIS RIVER NEAR ST. REGIS, MT—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1910 – 2013*	
Annual total	218,273		164,153			
Annual mean	596		450		537	
Highest annual mean					938	1974
Lowest annual mean					256	1973
Highest daily mean	4,640	Apr 25	2,910	May 13	8,500	Jan 16, 1974
Lowest daily mean	60	Jan 12	73	Sep 16	45	Dec 11, 1961
Annual seven-day minimum	86	Jan 12	77	Sep 11	59	Dec 5, 1972
Maximum peak flow			3,060	May 13	[a]9,640	Jan 16, 1974
Maximum peak stage			6.05	May 13	7.54	Apr 14, 2002
Instantaneous low flow					[b]41	Dec 30, 2001
Annual runoff (ac-ft)	432,900		325,600		388,800	
Annual runoff (cfsm)	1.97		1.48		1.77	
Annual runoff (inches)	26.80		20.15		24.07	
10 percent exceeds	1,710		1,190		1,500	
50 percent exceeds	201		192		204	
90 percent exceeds	92		93		94	

*During periods of operation [September 1910 to September 1917 (no winter records), September 1958 to September 1975, February 2002 to current year].
[a]Gage height, 7.38 ft.
[b]Result of freezeup.