12414900 ST. MARIES RIVER NEAR SANTA, ID

Spokane Basin
St. Joe Subbasin

LOCATION.--Lat 47°10′35″, long 116°29′30″ referenced to North American Datum of 1927, in NW ¼ SE ¼ NW ¼ sec.8, T.44 N., R.1 W., Benewah County, ID, Hydrologic Unit 17010304, Santa quad., on right bank, 450 ft upstream from bridge on State Highway 3, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6.

DRAINAGE AREA.--273 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR ID-74-1: 1968-70 (M). WDR ID-82-2: 1981. WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,574.56 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry and crest-stage gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft^3/s Feb. 9, 1996, on basis of indirect discharge measurement, gage height, 13.75 ft; minimum discharge, 15 ft^3/s Nov. 11, 1978, gage height, 3.32 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 16	0900	3,390	8.40
Mar 26	1945	4,650	9.15
Mar 30	2200	*6,350	*10.00
Apr 13	0600	1,890	7.25
Apr 27	0900	2,560	7.82
Jun 10	1230	2,000	7.35

Minimum daily discharge, 35 ft^3/s, Dec. 24

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 12414900, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12414900.2012.pdf

12414900 ST. MARIES RIVER NEAR SANTA, ID—Continued

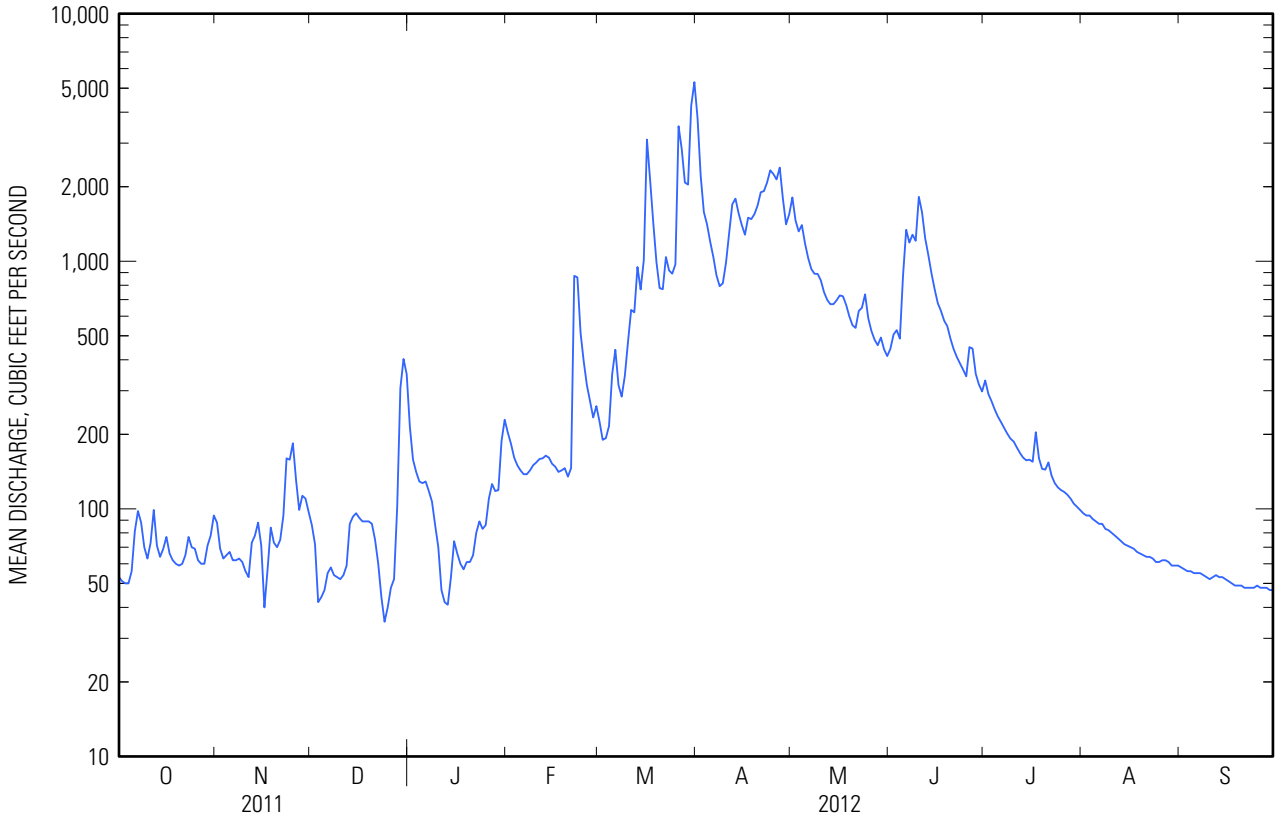
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	53	88	86	e215	e203	225	3,790	1,810	443	330	96	58
2	51	69	e72	e158	e183	190	2,210	1,460	506	291	94	57
3	50	63	e42	e141	e161	193	1,580	1,320	527	272	94	56
4	50	65	e44	e129	e150	216	1,410	1,400	487	252	91	56
5	56	67	e47	e127	e143	350	1,200	1,180	875	236	89	55
6	81	62	e55	e129	e138	439	1,040	1,030	1,340	224	87	55
7	98	62	e58	e118	e138	316	876	930	1,190	212	87	55
8	88	63	e54	e107	e143	284	793	890	1,280	201	83	54
9	70	61	e53	e86	e150	344	815	889	1,210	192	82	53
10	63	e56	e52	e70	e154	472	986	837	1,820	187	80	52
11	73	e53	e54	e47	e159	636	1,300	751	1,580	177	78	53
12	99	e73	e59	e42	e160	622	1,700	699	1,240	168	76	54
13	71	78	e87	e41	e164	948	1,790	671	1,060	161	74	53
14	64	88	e93	e53	e161	769	1,560	671	894	157	72	53
15	69	e71	e96	e74	e152	1,010	1,400	696	771	158	71	52
16	77	e40	e92	e66	e148	3,100	1,280	728	677	155	70	51
17	66	e57	e89	e60	e141	2,130	1,500	722	630	204	69	50
18	62	e84	e89	e57	e143	1,430	1,480	667	576	160	67	49
19	60	e73	e89	e61	e146	993	1,550	600	547	145	66	49
20	59	e70	e87	e61	e135	779	1,680	552	487	144	65	49
21	60	e75	e75	e65	e146	771	1,900	538	442	154	64	48
22	65	94	e60	e80	e873	1,040	1,920	630	411	136	64	48
23	77	160	e44	e89	e861	918	2,080	649	387	127	63	48
24	70	158	e35	e83	e514	891	2,330	735	365	122	61	48
25	69	184	e40	e86	e394	972	2,250	589	343	119	61	49
26	62	131	e48	e110	e316	3,510	2,140	523	450	117	62	48
27	60	99	e52	e126	e272	2,840	2,390	482	444	114	62	48
28	60	113	e102	e118	e234	2,080	1,790	458	351	110	61	48
29	71	110	e307	e119	260	2,040	1,410	492	318	105	59	47
30	78	97	e403	e188	---	4,250	1,550	441	298	102	59	47
31	94	---	e350	e229	---	5,290	---	414	---	99	59	---
Total	2,126	2,564	2,914	3,135	6,942	40,048	49,700	24,454	21,949	5,331	2,266	1,543
Mean	68.6	85.5	94.0	101	239	1,292	1,657	789	732	172	73.1	51.4
Max	99	184	403	229	873	5,290	3,790	1,810	1,820	330	96	58
Min	50	40	35	41	135	190	793	414	298	99	59	47
Ac-ft	4,220	5,090	5,780	6,220	13,770	79,440	98,580	48,500	43,540	10,570	4,490	3,060
Cfsm	0.25	0.31	0.34	0.37	0.88	4.73	6.07	2.89	2.68	0.63	0.27	0.19
In.	0.29	0.35	0.40	0.43	0.95	5.46	6.77	3.33	2.99	0.73	0.31	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	72.6	139	218	356	488	704	900	772	384	127	68.2	61.0
Max	134	422	732	1,637	1,936	2,166	1,976	1,823	1,012	262	103	91.6
(WY)	(2005)	(1996)	(1996)	(1974)	(1996)	(1972)	(1997)	(2011)	(1974)	(2011)	(1975)	(2004)
Min	36.3	45.7	54.8	47.6	73.3	153	282	186	84.3	54.4	30.6	32.4
(WY)	(1988)	(1988)	(1979)	(1979)	(2001)	(1977)	(1992)	(1992)	(1992)	(1994)	(1994)	(1994)

12414900 ST. MARIES RIVER NEAR SANTA, ID—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1966 - 2012	
Annual total	220,515		162,972			
Annual mean	604		445		356	
Highest annual mean					711	1974
Lowest annual mean					134	1977
Highest daily mean	4,740	Jan 17	5,290	Mar 31	10,800	Feb 9, 1996
Lowest daily mean	35	Dec 24	35	Dec 24	25	Nov 29, 1979
Annual seven-day minimum	50	Dec 3	48	Sep 24	26	Aug 27, 1994
Annual runoff (ac-ft)	437,400		323,300		258,200	
Annual runoff (cfsm)	2.21		1.63		1.31	
Annual runoff (inches)	30.05		22.21		17.74	
10 percent exceeds	1,640		1,360		932	
50 percent exceeds	270		136		156	
90 percent exceeds	57		53		53