Water-Data Report 2012

12414500 ST. JOE RIVER AT CALDER, ID

Spokane Basin
St. Joe Subbasin

LOCATION.--Lat 47°16′29″, long 116°11′17″ referenced to North American Datum of 1927, in NW ¼ NW ¼ SE ¼ sec.3, T.45 N., R.2 E., Shoshone County, ID, Hydrologic Unit 17010304, Calder quad., on right bank, 125 ft downstream from road bridge at Calder, and at mile 42.9.

DRAINAGE AREA.--1,025 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1911 to September 1912 (published as "near Calder"), July 1920 to current year.

REVISED RECORDS.--WSP 1182: Drainage area. WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,171.76 ft above NGVD of 1929. Apr. 14, 1911 to Sept. 30, 1912, nonrecording gage at site 2.5 mi downstream at different datum. Nonrecording gage at present site July 13 to Dec. 21, 1920, water-stage recorder at present site thereafter. Datum July 13, 1920 to Sept. 30, 1966, 75 ft lower than present datum, and datum Oct. 1, 1966 to Aug. 14, 1972, 15 ft lower than present datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,000 ft^3/s Dec. 23, 1933, computed on basis of slope between gages downstream; maximum gage height, 18.1 ft, Apr. 18, 1938, from floodmark, present datum; minimum discharge, 87 ft^3/s Nov. 29, 1979; minimum gage height, 3.43 ft, Dec. 5, 1928, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 31	0315	16,300	12.16
Apr 25	0415	*20,700	*13.03
May 1	0730	12,300	11.24
May 17	0415	13,100	11.44
May 22	1515	10,900	10.87
Jun 6	1115	12,100	11.19

Minimum daily discharge, 200 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 12414500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12414500.2012.pdf

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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	424	680	492	1,110	958	878	11,000	11,900	6,240	3,870	950	488
2	421	517	431	e940	870	788	7,430	10,500	7,650	3,560	925	473
3	414	458	e340	830	e770	774	5,530	8,880	8,820	3,380	914	464
4	418	452	e300	e780	e720	786	4,690	8,050	8,130	3,110	888	459
5	475	458	e280	779	e690	881	4,010	7,230	10,600	2,870	862	452
6	567	413	e290	e792	e671	1,000	3,500	6,500	11,500	2,690	840	447
7	621	377	e280	857	e666	927	3,080	6,060	10,400	2,570	832	440
8	669	407	e250	e805	e687	907	2,790	6,200	9,280	2,480	805	434
9	526	427	e250	e760	e715	917	2,710	7,220	8,570	2,370	787	422
10	466	375	e240	e606	e730	1,050	3,080	7,880	9,150	2,260	765	412
11	562	341	e230	e455	747	1,260	4,390	7,170	8,540	e2,150	746	414
12	834	464	e242	e295	768	1,340	7,300	6,620	7,700	e2,020	725	406
13	635	474	e320	e280	779	1,570	7,780	6,580	7,770	1,890	705	403
14	519	477	e330	e350	761	1,760	6,820	7,350	7,590	1,820	688	399
15	556	433	e340	e430	730	1,780	6,250	9,230	7,080	1,900	671	390
16	591	322	e320	e400	e710	5,090	5,710	11,800	6,630	1,750	659	377
17	496	430	e310	e339	683	4,890	5,880	12,400	6,740	1,630	650	368
18	460	505	e310	e330	700	3,580	6,070	10,500	6,910	1,550	635	363
19	442	435	e310	e340	703	2,800	6,130	8,850	6,400	1,470	621	361
20	433	389	e300	e340	e650	2,310	7,590	7,680	5,650	1,420	604	356
21	428	408	e290	e360	e700	2,090	12,900	7,520	5,270	1,390	597	350
22	472	467	e270	e440	2,850	2,020	13,200	10,100	5,280	1,310	595	345
23	700	743	e230	e480	3,110	1,980	16,300	10,300	5,440	1,260	576	342
24	645	903	e200	e450	1,900	1,870	19,700	9,330	5,240	1,210	559	339
25	579	848	e220	e460	1,530	1,940	19,900	7,950	5,010	1,180	550	336
26	489	626	e260	e570	e1,280	3,890	18,900	7,000	5,260	1,140	543	333
27	452	525	e280	e630	1,070	4,400	18,500	6,360	4,780	1,120	e535	330
28	436	617	e500	e600	920	4,030	13,900	5,890	4,250	1,080	e520	325
29	528	581	e1,400	e600	925	4,280	10,300	6,000	3,990	1,030	e512	316
30	506	542	e1,800	e900	---	7,850	9,690	5,950	3,790	1,010	e505	311
31	665	---	1,610	e1,050	---	14,200	---	5,870	---	979	498	---
Total	16,429	15,094	13,225	18,358	28,993	83,838	265,030	250,870	209,660	59,469	21,262	11,655
Mean	530	503	427	592	1,000	2,704	8,834	8,093	6,989	1,918	686	388
Max	834	903	1,800	1,110	3,110	14,200	19,900	12,400	11,500	3,870	950	488
Min	414	322	200	280	650	774	2,710	5,870	3,790	979	498	311
Ac-ft	32,590	29,940	26,230	36,410	57,510	166,300	525,700	497,600	415,900	118,000	42,170	23,120
Cfsm	0.52	0.49	0.42	0.58	0.98	2.64	8.62	7.90	6.82	1.87	0.67	0.38
In.	0.60	0.55	0.48	0.67	1.05	3.04	9.62	9.10	7.61	2.16	0.77	0.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	544	983	1,307	1,209	1,498	2,093	5,235	7,941	4,692	1,404	611	471
Max	1,621	6,025	8,887	5,442	6,933	6,414	10,530	14,990	13,040	4,280	1,006	839
(WY)	(1928)	(1928)	(1934)	(1934)	(1996)	(1934)	(1925)	(1997)	(1974)	(2011)	(2011)	(1968)
Min	273	258	288	204	239	539	1,882	3,285	1,154	554	356	303
(WY)	(1988)	(1930)	(1953)	(1929)	(1929)	(1964)	(2008)	(1941)	(1926)	(1926)	(1940)	(2001)

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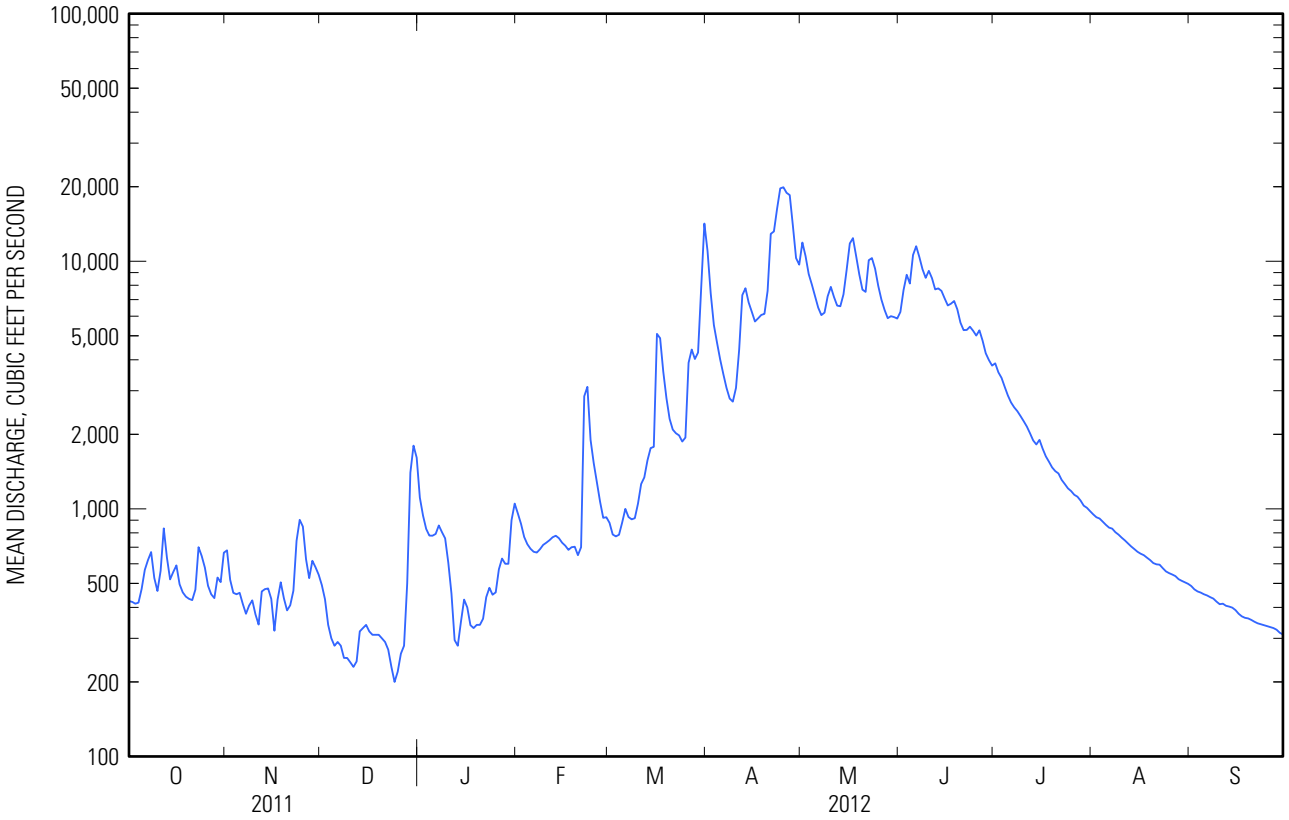
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1911 - 2012	
Annual total	1,235,241		993,883			
Annual mean	3,384		2,716		2,334	
Highest annual mean					3,955	1974
Lowest annual mean					1,059	1944
Highest daily mean	20,800	Jan 17	19,900	Apr 25	40,000	Dec 23, 1933
Lowest daily mean	200	Dec 24	200	Dec 24	100	Nov 27, 1952
Annual seven-day minimum	250	Dec 21	250	Dec 21	154	Nov 23, 1952
Annual runoff (ac-ft)	2,450,000		1,971,000		1,691,000	
Annual runoff (cfsm)	3.30		2.65		2.28	
Annual runoff (inches)	44.83		36.07		30.93	
10 percent exceeds	10,500		7,800		6,410	
50 percent exceeds	1,550		788		998	
90 percent exceeds	423		340		375