

Water-Data Report 2012

13296000 YANKEE FORK SALMON RIVER NEAR CLAYTON, ID

Salmon Basin
Upper Salmon Subbasin

LOCATION.--Lat 44°16'44", long 114°44'02" referenced to North American Datum of 1983, in sec.17, T.11 N., R.15 E., Custer County, ID, Hydrologic Unit 17060201, Sunbeam quad., Challis National Forest, on right bank 0.5 miles upstream from mouth and 17 miles west of Clayton.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1921 to February 1949, October 2011 to September 2012.

GAGE.--Water-stage recorder. Datum of gage is 5,950 ft by barometer. Prior to Dec. 14, 1937, staff gage at site 2,000 ft downstream at different datums. Dec. 14, 1937, to Feb. 1949 at datum 5.00 ft higher.

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 observed, 3,360 ft³/s June 12 1921 (gage height, 6.79 ft, site and datum in use), from rating extended above 2,300 ft³/s; minimum daily, 10 ft³/s, Dec. 5, 6, 1927.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,980 ft³/s, Apr. 26, 27, gage height, 10.96 ft; minimum daily discharge, 38 ft³/s, Mar. 7.

13296000 YANKEE FORK SALMON RIVER NEAR CLAYTON, 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	e68	74	e60	e64	e44	e42	250	787	908	378	116	79
2	e68	55	e56	e60	e44	e40	178	713	1,220	360	114	78
3	e64	67	e54	e58	e42	e42	159	672	1,450	339	113	77
4	e68	78	e58	e54	e42	e42	156	620	1,560	318	111	76
5	101	71	e52	e56	e42	e42	148	598	1,700	297	109	75
6	110	67	e52	e56	e42	e44	141	557	1,210	278	106	74
7	94	70	e54	e55	e43	e38	126	555	959	263	105	74
8	90	55	e58	e55	e44	e44	124	634	864	252	105	73
9	86	e52	e54	e54	e43	e46	141	833	782	242	104	72
10	84	e64	e54	e54	e44	e48	196	1,060	709	234	102	72
11	109	e66	e54	e48	e44	e60	310	1,070	635	221	101	71
12	107	e76	e54	e42	e44	e58	335	1,020	620	210	100	71
13	96	e72	e54	e50	e43	57	287	1,070	644	207	99	70
14	91	71	e56	e54	e42	56	275	1,270	721	210	97	70
15	90	67	e54	e50	e41	58	287	1,620	732	218	96	69
16	97	e42	e54	e46	e40	71	275	1,890	742	198	93	69
17	108	e70	e52	e46	e42	73	271	1,970	779	190	92	69
18	97	e68	e53	e46	e42	65	320	1,650	818	178	90	69
19	92	e60	e54	e48	e41	60	313	1,440	729	169	91	68
20	89	e46	e52	e50	e40	51	372	1,270	626	163	93	68
21	87	e66	e54	e52	e42	63	608	1,290	584	158	91	67
22	84	e70	e48	e50	e44	65	784	1,600	598	152	90	67
23	83	e70	e44	e50	e43	77	1,060	1,450	617	150	87	67
24	81	e68	e48	e46	e42	74	1,460	1,100	603	144	86	70
25	79	67	e50	e48	e44	79	1,390	964	593	141	84	71
26	73	e40	e51	e48	e43	110	2,180	841	553	138	84	71
27	77	e60	e52	e46	e42	101	2,190	730	487	133	85	68
28	71	e70	e54	e44	e42	95	1,220	650	446	129	82	67
29	77	e68	e62	e48	e42	89	924	612	417	126	80	67
30	74	e66	e66	e48	---	93	834	612	399	122	79	65
31	77	---	e68	e44	---	173	---	696	---	119	78	---
Total	2,672	1,936	1,686	1,570	1,233	2,056	17,314	31,844	23,705	6,437	2,963	2,124
Mean	86.2	64.5	54.4	50.6	42.5	66.3	577	1,027	790	208	95.6	70.8
Max	110	78	68	64	44	173	2,190	1,970	1,700	378	116	79
Min	64	40	44	42	40	38	124	555	399	119	78	65
Ac-ft	5,300	3,840	3,340	3,110	2,450	4,080	34,340	63,160	47,020	12,770	5,880	4,210
Cfsm	0.46	0.34	0.29	0.27	0.22	0.35	3.05	5.44	4.18	1.10	0.51	0.37
In.	0.53	0.38	0.33	0.31	0.24	0.40	3.41	6.27	4.67	1.27	0.58	0.42

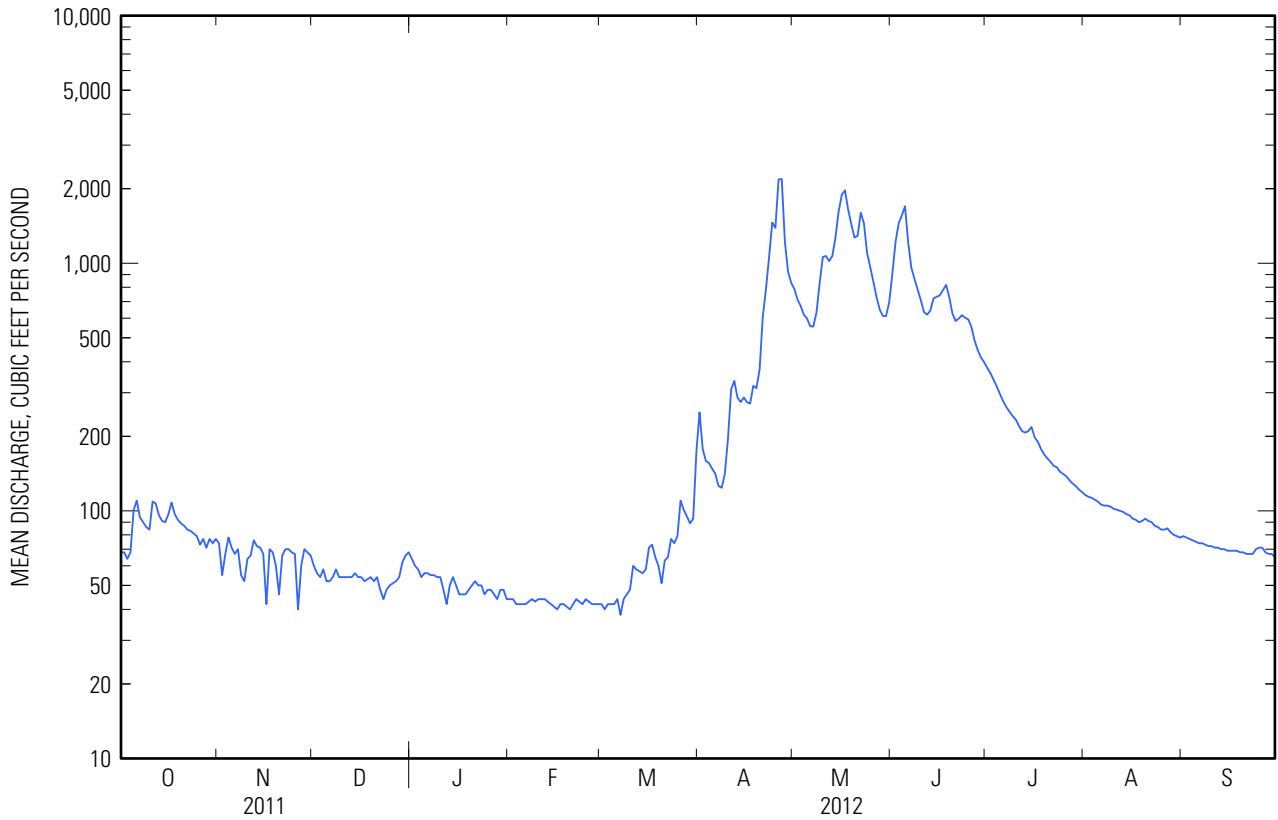
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	66.1	60.2	53.3	46.4	44.0	55.1	220	755	770	216	92.1	69.4
Max	93.6	93.5	102	60.7	55.2	125	577	1,558	1,954	777	190	106
(WY)	(1947)	(1942)	(1942)	(1944)	(1944)	(1934)	(2012)	(1928)	(1921)	(1943)	(1943)	(1943)
Min	30.0	39.8	34.4	27.6	30.0	32.9	59.0	369	168	73.6	45.2	30.8
(WY)	(1925)	(1940)	(1927)	(1924)	(1924)	(1924)	(1945)	(1926)	(1926)	(1926)	(1924)	(1924)

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SUMMARY STATISTICS

	Water Year 2012		Water Years 1921 - 2012	
Annual total	95,540			
Annual mean	261		199	
Highest annual mean			378	1943
Lowest annual mean			102	1926
Highest daily mean	2,190	Apr 27	3,360	Jun 12, 1921
Lowest daily mean	38	Mar 7	10	Dec 5, 1927
Annual seven-day minimum	41	Feb 14	25	Jan 1, 1924
Annual runoff (ac-ft)	189,500		144,400	
Annual runoff (cfsm)	1.38		1.05	
Annual runoff (inches)	18.80		14.33	
10 percent exceeds	785		579	
50 percent exceeds	78		68	
90 percent exceeds	44		40	



13296000 YANKEE FORK SALMON RIVER NEAR CLAYTON, ID—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--October 2011 to September 2012.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 2011 to September 2012.

INSTRUMENTATION.--Temperature recorder since October 2011. Electronic thermistor located in galvanized pipe on right bank at gage.

REMARKS.--Records good except for June 21 to Sept. 30, which are poor. No temperature record Oct. 1-4. Records for period Oct. 5 to June 20 represent water temperature at sensor within 0.2° C. Water temperature data is representational of a point in the river and not necessarily representational of mean temperature of the river cross section at that point.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 17.0°C, July 23; minimum, 0.0°C, on many days.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	3.6	0.8	1.9	0.1	0.0	0.0	0.0	0.0	0.0
2	---	---	---	1.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
3	---	---	---	1.3	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
4	---	---	---	1.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
5	8.6	6.9	7.6	1.1	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.0
6	6.9	4.7	5.7	0.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
7	6.9	5.3	6.0	1.9	0.0	0.6	0.0	0.0	0.0	0.1	0.0	0.0
8	8.3	5.2	6.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
9	7.9	3.3	5.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	6.7	4.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	7.2	5.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	7.6	3.5	5.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
13	8.0	3.4	5.4	0.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
14	9.3	5.7	7.2	0.8	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0
15	9.0	5.2	6.9	1.1	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0
16	7.3	5.3	6.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
17	7.6	4.6	5.8	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
18	6.7	2.5	4.6	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
19	5.0	2.6	3.9	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
20	6.5	2.2	4.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
21	6.8	3.2	4.9	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
22	6.5	2.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	8.2	4.6	6.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
24	6.3	3.6	4.9	0.8	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0
25	4.7	1.2	2.9	0.5	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0
26	3.1	0.0	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
27	3.6	0.1	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
28	2.8	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
29	4.8	1.3	2.7	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
30	4.6	0.4	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
31	5.6	3.2	4.0	---	---	---	0.0	0.0	0.0	0.1	0.0	0.0
Month	---	---	---	3.6	0.0	0.2	0.1	0.0	0.0	0.1	0.0	0.0

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	0.1	0.0	0.0	0.1	0.0	0.0	1.8	0.1	0.6	7.4	2.5	4.5
2	0.1	0.0	0.0	0.2	0.0	0.0	3.3	0.0	1.0	6.8	2.2	4.2
3	0.1	0.0	0.0	0.2	0.0	0.1	4.2	0.0	1.7	5.5	2.7	3.9
4	0.1	0.0	0.0	0.4	0.0	0.1	4.5	0.7	2.3	7.2	2.9	4.6
5	0.1	0.0	0.0	0.3	0.0	0.1	4.1	0.0	1.6	6.1	2.1	3.9
6	0.1	0.0	0.0	0.3	0.0	0.1	3.6	0.4	1.7	7.8	1.2	4.2
7	0.1	0.0	0.0	0.0	0.0	0.0	3.8	0.0	1.4	8.7	1.6	4.8
8	0.1	0.0	0.0	0.2	0.0	0.0	6.2	0.0	2.7	9.4	2.2	5.5
9	0.1	0.0	0.0	0.2	0.0	0.0	6.0	0.5	3.1	9.6	2.9	5.8
10	0.1	0.0	0.0	0.2	0.0	0.0	6.8	0.8	3.2	8.0	3.7	5.4
11	0.1	0.0	0.0	0.3	0.0	0.0	4.4	0.8	2.3	8.0	2.0	4.6
12	0.2	0.0	0.1	0.2	0.0	0.1	4.8	1.4	2.7	8.6	2.2	5.0
13	0.2	0.0	0.1	0.4	0.0	0.2	5.9	0.5	2.9	9.2	2.4	5.3
14	0.2	0.0	0.0	0.6	0.0	0.2	6.5	0.7	3.1	9.5	2.8	5.7
15	0.1	0.0	0.0	0.7	0.1	0.3	6.2	0.5	3.0	8.6	3.3	5.7
16	0.1	0.0	0.0	0.2	0.0	0.1	4.7	0.8	2.7	9.3	3.4	5.9
17	0.1	0.0	0.0	0.3	0.0	0.1	7.5	2.0	4.2	6.6	3.4	4.8
18	0.1	0.0	0.0	0.7	0.1	0.3	6.2	2.3	3.9	8.0	3.9	5.4
19	0.2	0.0	0.0	0.8	0.0	0.2	6.7	1.8	3.8	8.4	2.6	5.1
20	0.1	0.0	0.0	0.2	0.0	0.0	8.3	2.8	4.7	8.7	3.2	5.5
21	0.1	0.0	0.1	1.4	0.1	0.5	7.8	1.7	4.0	7.9	3.6	5.6
22	0.1	0.0	0.1	1.8	0.1	0.5	7.2	1.8	3.9	6.3	4.6	5.4
23	0.2	0.0	0.0	0.5	0.1	0.2	7.6	2.3	4.1	6.5	3.4	4.6
24	0.1	0.0	0.0	0.6	0.0	0.2	7.3	2.6	4.2	5.5	2.9	4.1
25	0.1	0.0	0.0	1.1	0.0	0.3	6.9	2.4	4.2	5.4	2.9	3.9
26	0.1	0.0	0.0	0.4	0.0	0.1	4.1	2.7	3.3	5.0	3.2	4.0
27	0.1	0.0	0.0	1.2	0.0	0.4	4.7	2.1	3.0	5.0	3.0	4.0
28	0.1	0.0	0.0	1.3	0.2	0.7	6.3	1.3	3.3	7.6	3.2	5.3
29	0.2	0.0	0.0	1.8	0.0	0.7	7.4	1.8	4.2	9.6	3.3	6.3
30	---	---	---	2.2	0.7	1.3	5.1	2.3	3.7	10.3	3.9	6.9
31	---	---	---	1.0	0.1	0.4	---	---	---	9.7	4.3	7.0
Month	0.2	0.0	0.0	2.2	0.0	0.2	8.3	0.0	3.0	10.3	1.2	5.1

13296000 YANKEE FORK SALMON RIVER NEAR CLAYTON, ID—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	11.4	4.3	7.4	14.5	8.2	11.3	15.7	10.6	13.5	12.8	9.6	11.1
2	9.8	4.9	6.9	15.3	8.1	11.7	15.3	10.3	13.1	11.8	7.6	10
3	9.8	4.7	6.7	15.0	8.9	12.0	14.4	10.1	12.5	11.4	6.6	9.1
4	9.3	4.8	6.8	14.5	7.5	11.1	15.3	9.6	12.4	10.4	6.7	8.8
5	6.9	4.2	5.0	14.4	9.7	12.0	15.7	10.3	13.1	11.0	6.9	9.2
6	7.7	3.2	4.9	15.4	9.0	12.2	16.0	12.1	14.0	10.3	7.1	8.7
7	8.9	2.5	5.4	15.9	9.7	12.8	14.8	10.2	12.7	11.7	6.5	9.1
8	8.4	4.7	6.4	15.9	10.5	13.4	14.1	10.4	11.7	11.9	6.9	9.5
9	5.7	3.4	4.5	15.6	10.7	13.3	15.4	9.8	12.3	11.5	7.2	9.4
10	6.6	3.7	4.9	15.7	10.6	13.1	14.8	11.0	12.4	12.0	7.9	10.1
11	9.2	3.1	6.0	15.8	10.8	13.2	14.0	9.4	11.8	11.0	6.7	9.1
12	9.1	4.7	7.0	16.4	10.8	13.7	12.9	8.7	10.8	10.2	5.3	8.0
13	11.1	5.3	8.0	15.7	11.9	12.8	11.4	8.0	9.9	10.6	5.3	8.0
14	10.9	4.1	7.3	14.5	11.0	12.4	12.2	7.3	10	10.8	5.7	8.3
15	11.5	4.5	7.6	14.9	11.2	12.9	12.3	8.1	10.2	11.1	5.9	8.5
16	11.0	4.4	7.7	14.0	10.8	12.2	13.1	8.9	10.9	9.7	6.6	8.4
17	12.2	5.2	8.3	15.5	10.3	12.8	13.5	9.1	11.3	10.0	5.6	7.8
18	10.5	5.0	7.7	16.2	10.4	13.4	13.2	9.3	11.3	10.3	5.5	8.0
19	8.3	3.8	6.0	15.4	10.8	13.3	12.6	9.4	11.0	10.3	6.2	8.4
20	11.0	3.5	6.9	15.9	11.4	13.7	14.4	10.3	12.0	10.2	5.9	8.1
21	12.3	4.6	8.3	16.4	10.9	13.8	13.4	10.1	11.7	9.7	5.7	7.8
22	12.2	6.5	9.2	16.5	11.3	14.0	13.2	9.5	11.6	10.4	5.6	8.0
23	12.5	5.7	9.1	17.0	12.2	14.7	14.1	8.7	11.3	10.0	8.0	8.8
24	12.7	6.4	9.5	15.9	11.3	13.9	12.1	8.2	10.5	9.5	8.0	8.7
25	13.2	7.2	10.1	14.9	10.3	12.8	12.3	7.2	9.9	10.7	8.1	9.2
26	11.4	6.9	9.3	15.8	10.5	13.2	13.0	8.6	10.8	10.5	7.0	8.9
27	11.9	5.0	8.4	15.2	11.7	13.4	14.0	9.5	11.7	10.5	6.2	8.4
28	12.7	6.5	9.6	14.9	10.5	12.9	14.4	8.9	11.8	9.7	6.0	8.0
29	13.3	6.7	10.1	16.4	10.5	13.4	13.0	8.7	11.0	10.9	7.1	8.9
30	14.3	6.9	10.7	16.4	11.0	13.8	12.1	7.6	9.9	10.3	6.2	8.3
31	---	---	---	16.3	10.7	13.7	11.9	8.0	10.1	---	---	---
Month	14.3	2.5	7.5	17.0	7.5	13.0	16.0	7.2	11.5	12.8	5.3	8.8