Water-Data Report 2012

13342500 CLEARWATER RIVER AT SPALDING, ID

Clearwater Basin
Clearwater Subbasin

LOCATION.--Lat 46°26′55″, long 116°49′35″ referenced to North American Datum of 1927, in NW ¼ NE ¼ SW ¼ sec.22, T.36 N., R.4 W., Nez Perce County, ID, Hydrologic Unit 17060306, Lapwai quad., Nez Perce Indian Reservation, on left bank 0.4 mi downstream from Lapwai Creek, 0.6 mi west of Spalding Post Office, 0.9 mi upstream from U.S. Highway 95 bridge, and at mile 11.6.

DRAINAGE AREA.--9,283 mi^2, Mean elevation, 4,360 ft.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1910 to October 1913, October 1924 to January 1925, April 1925 to current year. Published as "near Lewiston", 1910-13, 1924-27. Records published for both sites March 1926 to September 1927.

REVISED RECORDS.--WSP 1737: 1927, 1935, 1943. WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, temperature sensor and acoustic velocity meter. Datum of gage is 770.49 ft above NGVD of 1929. Aug. 23, 1910 to Oct. 31, 1913, staff gage at datum about 731.5 ft and Oct. 2, 1924 to Sept. 30, 1926, water-stage recorder at datum 730.23 ft at sites 7 mi downstream. Oct. 1, 1926 to Sept. 21, 1928, staff gage at highway bridge 3,100 ft upstream from present gage at datum 772.49 ft above mean sea level (datum of 1929, supplementary adjustment of 1947). Sept. 22, 1928 to Sept. 30, 1962, water-stage recorder at site 800 ft upstream at same datum. Staff or wire-weight gage at bridge site and datum 3,100 ft upstream used as supplementary gage since 1928. Sept. 1, 1961 to May 17, 1962, staff gage at Northern Pacific Railroad bridge 1.2 mi upstream at different datum used as supplementary gage. Oct. 1, 1962 to Sept. 20, 1967, graphic water-stage recorder at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry and crest stage gage. Diversions above station for irrigation of about 1,630 acres (1966 determination). Regulation of the North Fork Clearwater River at Ahsahka began on Sept. 27, 1971, when diversion tunnel at Dworshak Dam was closed.

EXTREMES FOR PERIOD OF RECORD.--

UNREGULATED PERIOD (1911-71): Maximum discharge prior to regulation by Dworshak Reservoir, 177,000 ft^3/s May 29, 1948, gage height, 23.76 ft; maximum gage height, 27.77 ft, Feb. 5, 1963, from floodmark (ice jam); minimum daily discharge, 500 ft^3/s Jan. 9, 1937, Dec. 1, 1952.

REGULATED PERIOD (1972 to current year): Maximum discharge since regulation began, 131,000 ft^3/s June 16, 1974, gage height, 19.10 ft; minimum, 1,350 ft^3/s Oct. 31, 1971, gage height, 2.47 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 20.8 ft, site and datum in use 1924-26, discharge, 136,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81,300 ft^3/s Apr. 27, gage height, 15.28 ft; minimum daily, 2,600 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 13342500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/13342500.2012.pdf

13342500 CLEARWATER RIVER AT SPALDING, ID—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,110	4,370	3,940	7,160	5,570	11,200	47,800	48,800	25,200	23,100	15,800	10,000
2	3,110	4,930	3,820	5,780	5,410	10,800	43,200	44,700	30,800	23,700	15,800	9,950
3	3,080	4,450	3,600	5,170	5,170	10,400	37,400	41,100	36,600	22,400	15,600	9,940
4	3,080	4,240	3,380	4,880	4,910	10,400	34,900	37,200	36,900	20,300	14,900	9,930
5	3,110	4,030	3,410	4,620	4,630	10,700	36,000	29,300	44,900	17,800	14,400	9,910
6	3,340	3,950	3,160	4,520	4,360	11,500	36,700	25,400	50,100	17,000	14,100	9,790
7	4,150	3,780	2,880	4,420	4,250	11,200	34,700	28,500	44,000	16,400	14,300	9,620
8	4,410	3,590	3,210	4,270	4,310	10,700	33,200	28,700	38,100	16,100	14,700	9,560
9	4,370	3,620	3,510	4,140	4,330	9,490	32,200	29,900	36,800	17,100	15,200	7,780
10	3,850	3,660	3,300	4,050	4,470	7,390	32,100	33,200	39,200	19,900	14,800	7,210
11	3,840	3,430	3,060	4,060	4,820	8,050	33,600	33,900	38,100	20,800	14,800	7,190
12	4,890	3,430	2,950	3,730	5,130	13,200	38,400	27,700	35,000	20,100	14,700	6,400
13	5,500	3,680	3,090	3,100	5,320	15,200	43,100	26,100	35,700	19,700	13,600	6,070
14	4,510	3,870	3,410	2,970	5,120	15,300	41,600	33,200	39,900	19,300	13,100	6,080
15	4,060	3,860	3,390	3,380	5,000	15,500	40,200	38,200	37,500	19,500	13,100	6,100
16	4,030	3,800	3,410	4,070	4,760	26,700	38,900	44,300	34,300	19,600	13,100	4,490
17	4,580	3,540	3,440	3,780	4,590	30,700	38,800	49,700	32,900	19,300	12,900	3,670
18	4,990	3,510	3,430	3,730	4,790	26,400	39,600	46,300	36,200	18,100	11,800	3,610
19	4,530	3,910	3,390	3,750	4,950	25,000	41,100	37,200	37,400	15,500	11,500	3,590
20	4,130	3,800	3,340	4,410	4,790	23,100	41,100	32,800	33,800	16,100	11,500	3,080
21	3,940	3,630	3,260	5,540	5,000	23,000	44,100	34,600	30,400	17,600	11,500	2,730
22	3,870	3,500	3,190	5,830	14,700	24,400	48,400	43,300	30,100	17,300	11,400	2,720
23	3,960	3,540	2,800	5,690	25,500	24,700	52,500	51,500	31,900	17,100	11,300	2,710
24	4,230	3,900	2,600	5,220	17,000	24,100	58,600	42,100	31,900	17,100	11,300	2,710
25	4,670	4,160	2,700	4,870	13,300	24,100	67,300	34,700	31,500	16,900	11,300	2,700
26	4,730	4,350	3,220	4,970	11,000	38,600	67,000	29,900	31,800	16,800	11,300	2,700
27	4,310	4,000	3,590	5,560	9,240	34,700	76,300	26,800	33,500	16,500	10,600	2,700
28	3,980	3,720	3,720	5,280	12,100	31,200	62,600	25,900	26,600	14,900	10,300	2,690
29	3,800	3,830	4,520	4,960	11,700	34,500	51,800	26,000	23,700	14,300	10,300	2,680
30	3,840	3,990	7,710	5,120	---	36,100	46,800	26,500	21,800	15,700	10,200	2,660
31	3,960	---	8,570	5,770	---	44,700	---	26,200	---	15,900	10,200	---
Total	125,960	116,070	113,000	144,800	216,220	643,030	1,340,000	1,083,700	1,036,600	561,900	399,400	170,970
Mean	4,063	3,869	3,645	4,671	7,456	20,740	44,670	34,960	34,550	18,130	12,880	5,699
Max	5,500	4,930	8,570	7,160	25,500	44,700	76,300	51,500	50,100	23,700	15,800	10,000
Min	3,080	3,430	2,600	2,970	4,250	7,390	32,100	25,400	21,800	14,300	10,200	2,660
Ac-ft	249,800	230,200	224,100	287,200	428,900	1,275,000	2,658,000	2,150,000	2,056,000	1,115,000	792,200	339,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1971, BY WATER YEAR (WY) (UNREGULATED)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,416	6,790	8,078	7,715	9,362	13,290	30,670	50,570	37,270	10,180	3,616	3,174
Max	17,160	38,940	33,250	28,480	22,100	32,100	53,370	85,900	73,630	21,800	6,180	7,210
(WY)	(1960)	(1928)	(1934)	(1934)	(1971)	(1934)	(1943)	(1948)	(1964)	(1950)	(1950)	(1968)
Min	1,893	1,783	2,126	1,577	2,068	3,868	14,880	24,830	10,760	3,682	1,935	1,870
(WY)	(1953)	(1937)	(1953)	(1937)	(1937)	(1955)	(1941)	(1941)	(1934)	(1931)	(1931)	(1937)

13342500 CLEARWATER RIVER AT SPALDING, ID—Continued

SUMMARY STATISTICS

	Water Years 1911 - 1971	
Annual mean	[a]15,430	
Highest annual mean	24,250	
Lowest annual mean	8,556	
Highest daily mean	166,000	May 29
Lowest daily mean	500	Jan 9
Annual seven-day minimum	921	Nov 26
Annual runoff (ac-ft)	11,180,000	
10 percent exceeds	42,400	
50 percent exceeds	7,000	
90 percent exceeds	2,500	

[a] Statistics 1911-1971 are prior to regulation by Dworshak Reservoir.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2012, BY WATER YEAR (WY)

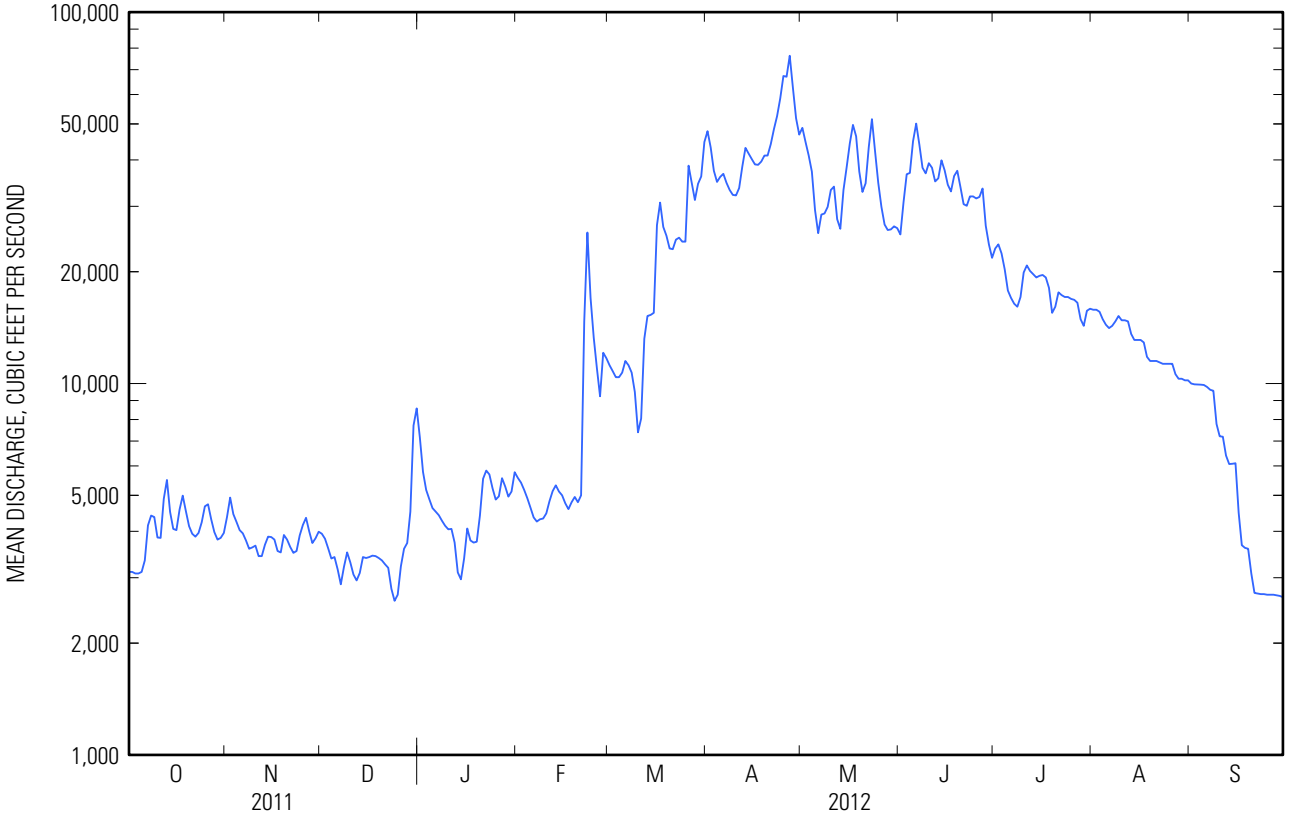
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,060	6,441	8,311	9,683	11,360	16,340	24,000	36,000	32,210	14,830	9,011	6,819
Max	8,260	21,010	27,180	27,320	38,940	35,770	44,670	63,180	73,570	31,140	19,000	11,520
(WY)	(1976)	(1996)	(1976)	(1974)	(1996)	(1986)	(2012)	(1972)	(1974)	(2011)	(1997)	(1986)
Min	1,711	2,209	2,479	3,301	3,350	4,722	7,761	19,200	8,766	4,861	2,914	2,513
(WY)	(1972)	(1972)	(1972)	(1987)	(1973)	(2010)	(1973)	(1977)	(1987)	(1987)	(1994)	(1994)

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1972 - 2012	
Annual total	7,910,960		[b]5,951,650			
Annual mean	21,670		16,260		14,920	
Highest annual mean					25,020	1996
Lowest annual mean					7,852	1973
Highest daily mean	77,400	Jun 8	76,300	Apr 27	124,000	Jun 16, 1974
Lowest daily mean	2,600	Dec 24	2,600	Dec 24	1,390	Oct 31, 1971
Annual seven-day minimum	3,020	Dec 20	2,690	Sep 24	1,470	Oct 8, 1971
Annual runoff (ac-ft)	15,690,000		11,810,000		10,810,000	
10 percent exceeds	50,500		38,500		34,600	
50 percent exceeds	17,700		10,400		10,300	
90 percent exceeds	3,430		3,390		3,380	

[b] Regulated by Dworshak Reservoir.

13342500 CLEARWATER RIVER AT SPALDING, ID—Continued



13342500 CLEARWATER RIVER AT SPALDING, ID—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959-60, 1968 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Water years 1959-70, 1972 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

REMARKS.--Sediment samples collected 1972 - 1995, 2008 - current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 28.0 °C Aug. 13, 1963; minimum, 0.0 °C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 16.5 °C Jul. 8, 19, ; minimum, 1.0 °C Dec. 23, Jan. 12, 13, 18.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 1 of 2
[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; --, no data]

Date	Sample start time	Discharge, instanta-neous, ft³/s (00061)	Sampler type (84164)	Loss on ignition of suspended solids, water, unfiltered, mg/L (00535)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment, sieve diameter, percent smaller than 0.125 mm (70332)	Suspended sediment, sieve diameter, percent smaller than 0.25 mm (70333)	Suspended sediment, sieve diameter, percent smaller than 0.5 mm (70334)	Suspended sediment, sieve diameter, percent smaller than 1 mm (70335)
04-28-2012	**1144**	60,100	US D-96 bag sampler	3	44	57	76	97	100
05-23-2012	**1000**	51,800	US D-96 bag sampler	4	47	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 2 of 2
[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; --, no data]

Date	Sample start time	Suspended sediment concen-tration, mg/L (80154)
04-28-2012	**1144**	34
05-23-2012	**1000**	31

13342500 CLEARWATER RIVER AT SPALDING, 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
		October			November			December			January	
1	15.5	14.0	14.5	8.5	7.5	8.0	5.0	4.5	5.0	3.5	2.5	3.0
2	15.0	13.0	14.0	7.5	6.5	7.0	5.0	4.0	4.5	3.5	2.5	3.0
3	15.5	13.5	14.0	7.0	6.0	6.5	4.0	3.0	3.5	3.5	2.5	3.0
4	14.0	13.0	13.5	7.5	6.0	7.0	4.0	3.5	3.5	3.5	2.5	3.0
5	13.5	12.5	13.0	6.5	5.5	6.0	3.5	2.5	3.0	4.0	3.0	3.5
6	12.5	11.5	12.0	6.0	5.0	5.5	3.5	2.5	3.0	3.0	2.5	3.0
7	12.5	11.5	12.0	6.0	5.0	5.5	4.0	2.5	3.0	3.5	2.5	3.0
8	13.0	11.0	12.0	6.5	5.5	6.0	3.5	2.5	3.0	4.0	3.0	3.5
9	12.5	11.0	12.0	6.5	5.5	6.0	3.0	2.0	2.5	4.0	2.5	3.5
10	12.0	11.0	11.5	6.0	5.0	5.5	3.0	2.0	2.5	4.0	3.0	3.5
11	12.5	11.0	11.5	6.0	4.5	5.5	2.5	1.5	2.5	3.0	2.0	2.5
12	12.0	11.5	11.5	6.5	5.0	6.0	3.0	2.5	3.0	2.5	1.0	2.0
13	12.0	11.0	11.5	6.0	5.5	6.0	3.5	3.0	3.0	2.0	1.0	1.5
14	12.5	11.5	11.5	6.0	5.5	5.5	3.5	3.0	3.0	3.0	2.0	2.5
15	12.0	11.5	11.5	5.5	4.5	5.0	3.5	3.0	3.0	3.5	2.0	2.5
16	12.0	11.0	11.5	4.5	4.0	4.0	4.0	3.0	3.5	2.5	1.5	2.0
17	11.5	10.0	11.0	5.5	4.0	4.5	4.0	3.0	3.5	2.5	1.5	2.0
18	11.0	10.0	10.5	6.0	5.0	5.5	3.5	2.5	3.0	2.5	1.0	1.5
19	11.0	10.0	10.5	5.5	4.5	5.0	4.5	3.0	3.5	2.5	1.5	2.0
20	11.0	10.0	10.5	5.0	4.5	4.5	3.5	2.5	3.0	3.0	1.5	2.5
21	11.5	10.5	11.0	5.5	4.5	5.0	3.5	2.5	3.0	3.0	2.0	2.5
22	11.5	10.5	11.0	6.0	5.0	5.5	3.0	1.5	2.5	2.5	1.5	2.0
23	12.0	11.0	11.5	6.5	5.5	6.0	2.0	1.0	1.5	3.0	2.0	2.5
24	11.0	10.0	11.0	7.0	6.0	6.5	3.0	1.5	2.0	3.0	1.5	2.0
25	10.5	9.5	10.0	6.5	5.0	6.0	3.5	2.0	2.5	4.5	2.5	3.5
26	9.5	8.5	9.0	5.5	4.5	5.0	3.5	3.0	3.0	4.0	3.5	4.0
27	10.0	9.0	9.5	5.0	4.0	4.5	4.0	3.0	3.5	3.5	2.5	3.0
28	9.0	8.0	8.5	5.5	4.5	5.0	4.5	3.5	4.0	2.5	1.5	2.5
29	10.0	8.5	9.0	5.5	4.5	5.0	4.5	4.0	4.0	3.5	2.5	3.0
30	9.0	7.5	8.5	6.0	4.5	5.5	4.0	3.0	3.5	4.5	3.0	4.0
31	9.5	8.5	9.0	---	---	---	3.0	2.0	2.5	4.5	3.0	3.5
Month	15.5	7.5	11.2	8.5	4.0	5.6	5.0	1.0	3.1	4.5	1.0	2.8

13342500 CLEARWATER RIVER AT SPALDING, 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
		February			March			April			May	
1	4.0	3.5	3.5	5.0	4.0	4.5	6.5	5.5	6.0	7.5	6.5	7.0
2	4.5	3.0	3.5	5.0	3.5	4.0	6.5	5.5	6.0	7.5	6.5	7.0
3	4.0	2.5	3.5	5.0	4.0	4.5	6.5	5.0	6.0	7.0	6.5	7.0
4	4.0	2.5	3.0	6.5	4.0	5.5	6.0	5.5	5.5	7.5	6.5	7.0
5	3.5	2.0	3.0	6.0	4.5	5.0	6.0	4.5	5.5	8.5	7.0	7.5
6	3.5	1.5	2.5	5.5	4.0	4.5	6.0	4.5	5.0	9.0	7.0	8.0
7	4.0	2.0	3.0	5.5	3.0	4.0	6.5	4.5	5.5	9.0	7.5	8.5
8	3.5	2.0	2.5	6.0	3.0	4.5	7.0	4.5	6.0	10.0	8.0	9.0
9	4.0	2.5	3.5	7.0	4.0	5.5	7.5	5.5	6.5	10.0	9.0	9.5
10	5.0	3.5	4.0	7.5	4.5	6.0	7.5	6.0	6.5	10.0	9.0	9.5
11	4.5	4.0	4.5	6.5	5.0	5.5	8.0	6.0	7.0	9.0	8.0	8.5
12	5.5	4.0	4.5	5.0	4.0	5.0	8.0	6.5	7.0	9.0	7.5	8.0
13	4.5	4.0	4.0	5.5	5.0	5.0	7.5	6.5	7.0	10.0	8.5	9.0
14	5.0	4.0	4.5	6.0	4.5	5.0	7.5	6.0	6.5	10.0	9.0	9.5
15	5.0	4.0	4.5	6.0	5.0	5.5	7.0	6.5	6.5	10.5	9.0	10.0
16	4.5	3.0	4.0	6.0	5.0	5.5	6.5	6.0	6.0	10.0	9.0	9.5
17	5.5	4.0	5.0	5.5	5.0	5.0	7.0	5.5	6.0	10.0	8.5	9.0
18	6.0	4.5	5.0	5.5	4.5	5.0	7.5	6.5	7.0	9.0	7.5	8.5
19	5.5	4.5	5.0	6.0	4.5	5.0	7.5	6.5	7.0	10.0	8.0	9.0
20	5.0	4.0	4.5	5.0	4.5	4.5	7.5	7.0	7.0	9.5	8.5	9.0
21	5.5	4.5	5.0	5.0	4.5	5.0	8.5	7.0	7.5	9.5	8.5	9.0
22	6.0	3.5	4.5	5.5	4.0	5.0	8.5	7.0	8.0	9.5	8.5	9.0
23	4.0	3.0	3.5	5.5	4.5	5.0	8.5	7.0	8.0	9.0	7.5	8.0
24	4.5	3.0	3.5	6.5	4.5	5.5	8.5	7.5	8.0	9.0	7.5	8.0
25	4.5	4.0	4.0	7.5	5.0	6.0	8.0	6.5	7.5	9.5	8.5	9.0
26	4.5	3.5	4.0	7.0	5.5	6.0	7.5	6.5	7.0	9.0	8.0	8.5
27	4.5	3.0	3.5	7.0	5.0	6.0	7.0	6.0	6.5	9.0	8.0	8.5
28	5.0	3.0	4.0	7.0	6.0	6.5	6.5	5.5	6.0	9.5	8.0	9.0
29	5.0	4.0	4.5	7.0	5.5	6.0	7.5	5.5	6.5	10.0	9.0	9.5
30	---	---	---	7.0	6.0	6.5	8.0	7.0	7.5	10.5	9.5	10.0
31	---	---	---	7.5	5.5	6.5	---	---	---	10.5	9.5	10.0
Month	6.0	1.5	3.9	7.5	3.0	5.3	8.5	4.5	6.6	10.5	6.5	8.7

13342500 CLEARWATER RIVER AT SPALDING, 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	11.5	10.0	10.5	13.5	12.5	13.0	13.0	10.5	11.5	13.0	10.5	11.5
2	11.5	10.5	11.0	14.5	12.0	13.0	12.5	10.5	11.5	12.5	10.0	11.5
3	10.5	9.0	9.5	14.0	12.5	13.0	13.0	10.5	11.5	12.5	10.0	11.5
4	10.0	9.0	9.5	15.0	12.0	13.5	13.0	10.0	11.5	13.0	10.0	11.5
5	10.0	9.5	10.0	15.0	12.5	13.5	13.0	10.5	12.0	13.0	10.0	11.5
6	9.5	8.5	9.0	15.5	12.5	14.0	13.0	10.5	12.0	13.0	10.5	11.5
7	8.5	8.0	8.5	16.0	13.0	14.5	13.5	11.0	12.0	13.0	10.5	11.5
8	9.0	8.5	8.5	16.5	13.5	15.0	12.5	10.5	11.5	13.0	10.5	12.0
9	9.0	8.5	9.0	15.5	14.0	15.0	12.5	9.5	11.0	14.0	11.5	12.5
10	9.0	8.0	8.5	15.0	13.0	14.0	12.5	10.0	11.0	13.5	11.0	12.5
11	9.5	8.0	9.0	15.0	12.5	13.5	12.5	10.0	11.0	13.0	10.5	11.5
12	10.5	9.0	10.0	15.0	12.5	13.5	12.5	10.0	11.0	13.0	10.0	11.5
13	11.5	10.5	11.0	14.5	12.5	13.5	13.0	10.0	11.5	12.5	10.5	11.5
14	11.5	10.5	11.0	14.0	12.5	13.0	13.0	10.5	11.5	12.5	10.5	11.5
15	11.5	10.0	10.5	14.0	12.0	13.0	12.5	10.5	11.5	13.0	11.0	12.0
16	11.5	10.5	11.0	14.5	12.0	13.0	13.0	10.5	11.5	13.5	11.0	12.5
17	12.0	11.0	11.5	14.5	12.0	13.0	13.0	10.0	11.5	14.5	11.5	13.0
18	12.0	11.0	11.5	15.5	12.5	14.0	13.0	10.5	11.5	14.5	11.5	13.0
19	11.0	9.5	10.0	16.5	14.0	15.0	13.5	11.0	12.0	14.0	12.0	13.0
20	10.5	9.0	9.5	15.5	13.5	14.5	13.5	11.0	12.0	14.5	11.5	13.0
21	12.0	10.0	10.5	14.5	12.0	13.5	13.5	11.0	12.0	14.5	12.0	13.0
22	12.5	11.0	12.0	14.5	12.0	13.0	13.5	11.0	12.0	14.0	12.0	13.0
23	13.0	12.0	12.5	14.0	12.0	13.0	13.0	10.5	11.5	14.0	12.5	13.0
24	13.5	12.5	13.0	13.5	11.0	12.5	12.5	10.0	11.5	14.5	12.0	13.5
25	13.5	12.5	13.0	14.0	11.0	12.5	12.5	10.0	11.0	15.0	12.5	13.5
26	13.0	11.0	12.5	13.0	11.0	12.0	12.0	10.0	11.0	15.0	12.5	13.5
27	11.5	10.5	11.0	13.5	10.5	12.0	13.0	10.0	11.5	14.5	12.0	13.5
28	12.5	11.0	11.5	14.0	11.0	12.5	13.0	10.5	11.5	14.5	12.5	13.5
29	14.0	11.5	12.5	14.0	11.0	12.5	13.0	10.5	12.0	15.0	12.5	14.0
30	14.5	12.0	13.0	13.5	11.5	12.5	13.0	10.0	11.5	15.5	13.0	14.0
31	---	---	---	13.0	10.5	12.0	13.0	10.5	11.5	---	---	---
Month	14.5	8.0	10.7	16.5	10.5	13.3	13.5	9.5	11.5	15.5	10.0	12.5

	Max	Min	Mean
Year	16.5	1.0	7.9