

14314500 CLEARWATER RIVER ABOVE TRAP CREEK, NEAR TOKETEE FALLS, OR

Southern Oregon Coastal Basin
North Umpqua Subbasin

LOCATION.--Lat 43°14'40", long 122°17'10" referenced to North American Datum of 1927, in SE ¼ sec.1, T.27 S., R.4 E., Douglas County, OR, Hydrologic Unit 17100301, Umpqua National Forest, on right bank, 900 ft downstream from Clearwater No. 1 diversion dam, 0.4 mi upstream from Trap Creek, 8.7 mi east of town of Toketee Falls and at mile 7.8.

DRAINAGE AREA.--41.60 mi², see REMARKS.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1927 to December 1945, March 1946 to current year. Monthly discharge only December 1927 to March 1928, published in WSP 1318. Prior to October 1952, published as "above Trap Creek." Records for combined flows (river and power canal) available for June 1953 to September 1983 under station 14314501.

REVISED RECORDS.--WSP 1124: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,862.84 ft above NGVD of 1929 (levels by PacifiCorp). Prior to Dec. 1, 1953, at two sites about 0.4 mi downstream at different datums.

REMARKS.--No estimated daily discharges. Records fair. Clearwater No. 1 Power Canal (station 14314400) completed in June 1953, diverts 900 ft upstream from station for power generation with return flow 2.5 mi downstream. Records given herein are for river only.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--24 years (water years 1928-45, 1947-52), 155 ft³/s, 50.60 in/yr, 112,300 acre-ft/yr. 84 years (water years 1928-45, 1947-2012), 62.5 ft³/s, 45,250 acre-ft/yr (river only).

EXTREMES FOR PERIOD OF RECORD.--River only, maximum discharge, 848 ft³/s Dec. 23, 1964, gage height, 7.19 ft; maximum gage height, 7.87 ft Dec. 23, 1964, backwater from log jam; minimum discharge, 0.08 ft³/s Sept. 21, 1977, result of beavers plugging release gate at diversion dam.

EXTREMES FOR CURRENT YEAR.--River only, maximum discharge, 162 ft³/s Apr. 26, gage height, 4.44 ft; minimum discharge, 43 ft³/s July 8, 14, 24, Sept. 12, 14, 16-18.

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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	46	48	48	49	48	48	84	100	68	50	45	46
2	47	47	48	49	48	47	74	92	69	46	45	45
3	47	47	48	49	48	47	70	98	68	45	45	45
4	47	47	48	49	48	47	69	100	72	45	45	45
5	47	47	48	49	48	48	68	88	69	45	45	45
6	47	47	48	48	48	48	68	84	66	45	45	44
7	47	47	48	48	49	47	68	80	66	45	45	44
8	47	47	48	48	50	47	68	82	66	44	45	44
9	47	47	48	48	50	47	69	86	66	45	45	44
10	47	47	48	48	50	47	69	87	66	45	45	44
11	47	47	48	48	50	47	69	79	66	45	45	44
12	47	47	48	48	50	47	68	77	66	45	45	44
13	47	47	48	48	51	47	68	78	66	45	45	45
14	47	47	48	48	51	47	68	86	66	45	45	44
15	47	47	47	48	51	54	68	91	66	44	45	44
16	48	47	47	48	51	66	69	95	67	45	45	44
17	48	47	47	48	47	57	71	90	66	46	45	44
18	48	47	47	48	48	52	72	85	66	46	45	44
19	48	47	47	64	49	50	74	68	67	46	45	45
20	48	48	47	60	49	50	79	67	69	46	45	45
21	48	48	47	60	49	60	85	69	69	45	45	45
22	48	48	47	50	50	81	98	73	69	45	45	45
23	48	48	47	47	50	67	125	71	69	45	45	45
24	48	48	47	47	50	63	143	69	66	45	45	45
25	48	48	47	48	48	55	143	68	66	45	45	45
26	48	48	47	50	48	54	154	68	67	45	45	44
27	48	48	47	49	48	54	126	68	66	44	45	44
28	48	48	48	48	48	54	105	68	66	44	45	45
29	48	48	49	48	48	53	96	67	66	44	45	45
30	48	48	68	48	---	105	101	67	66	45	46	45
31	48	---	48	48	---	109	---	68	---	45	47	---
Total	1,472	1,422	1,496	1,536	1,423	1,745	2,589	2,469	2,011	1,400	1,398	1,337
Mean	47.5	47.4	48.3	49.5	49.1	56.3	86.3	79.6	67.0	45.2	45.1	44.6
Max	48	48	68	64	51	109	154	100	72	50	47	46
Min	46	47	47	47	47	47	68	67	66	44	45	44
Ac-ft	2,920	2,820	2,970	3,050	2,820	3,460	5,140	4,900	3,990	2,780	2,770	2,650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	53.3	54.5	58.1	57.2	58.6	59.1	74.0	102	83.9	58.6	52.4	48.2
Max	190	211	257	213	250	211	260	313	280	221	192	181
(WY)	(1952)	(1951)	(1951)	(1951)	(1951)	(1951)	(1951)	(1952)	(1952)	(1952)	(1952)	(1952)
Min	3.12	1.50	1.70	0.35	0.34	0.42	2.33	2.98	5.18	3.41	2.15	2.76
(WY)	(1958)	(1955)	(1955)	(1954)	(1955)	(1955)	(1955)	(1968)	(1973)	(1969)	(1954)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1928 - 2012	
Annual total	22,338		20,298			
Annual mean	61.2		55.5		62.5	
Highest annual mean					221	1951
Lowest annual mean					5.85	1987
Highest daily mean	203	Apr 17	154	Apr 26	779	Dec 23, 1964
Lowest daily mean	44	Jul 16	44	Jul 8	0.10	Jan 9, 1954
Annual seven-day minimum	46	Jul 15	44	Sep 6	0.14	Jan 8, 1954
Annual runoff (ac-ft)	44,310		40,260		45,250	
10 percent exceeds	84		72		163	
50 percent exceeds	48		48		16	
90 percent exceeds	46		45		5.0	

