

14211315 TRYON CREEK NEAR LAKE OSWEGO, OR

Willamette Basin
Lower Willamette Subbasin

LOCATION.--Lat 45°25'53", long 122°40'17" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.42, T.2 S., R.1 E., Clackamas County, OR, Hydrologic Unit 17090012, on left bank, 0.8 mi north of Lake Oswego and at mile 1.0.

DRAINAGE AREA.--6.28 mi², includes that of Nettle Creek.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 95 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. No known regulation or diversion upstream from station. Records include flow of Nettle Creek.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--10 years (water years 2002-11), 8.72 ft³/s, 18.86 in/yr, 6,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,210 ft³/s Dec. 9, 2010, gage height, 5.33 ft; minimum discharge, 0.09 ft³/s Sept. 4, 5, 12, 2002, but may have been less during periods of temporary diversion upstream from station for channel improvement for fish habitat and passage September 2008.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 9	0245	382	4.17
Dec 9	1830	*1,210	*5.33
Dec 11	1445	357	4.21
Dec 28	1500	291	4.06
Jan 16	0530	439	4.37
Feb 28	0915	450	4.39
Mar 10	0530	591	4.62

Minimum discharge, 0.59 ft³/s, Oct. 1, 2, gage height, 2.07 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.0	18	17	e10	6.2	117	13	6.0	17	2.1	1.6	0.84
2	0.86	6.4	10	e10	5.8	33	20	6.1	6.7	2.1	1.5	0.85
3	0.86	3.3	8.1	e9.8	5.4	23	12	4.9	5.3	2.2	1.4	0.86
4	0.82	2.6	7.0	9.3	5.4	26	26	4.3	4.5	2.0	1.5	0.88
5	0.80	2.3	6.2	12	5.5	23	18	4.8	4.9	2.0	1.5	0.94
6	0.80	7.0	6.0	9.8	5.7	16	20	7.4	4.8	2.1	1.5	0.89
7	0.79	17	7.8	11	7.6	14	16	5.6	3.8	1.9	1.4	0.85
8	0.90	5.1	14	9.2	5.9	14	12	7.7	3.5	1.8	1.3	0.84
9	6.3	12	195	8.7	5.1	25	10	5.3	3.4	e1.8	1.3	0.84
10	25	8.2	62	7.8	5.0	105	13	5.0	3.2	e1.8	1.3	0.86
11	2.7	4.1	120	7.4	4.9	22	15	10	3.1	e1.8	1.3	0.82
12	1.6	3.4	49	20	11	23	9.9	6.2	3.1	e3.5	1.3	0.80
13	1.6	4.1	35	42	8.9	43	10	5.3	4.3	e2.0	1.2	0.82
14	1.7	6.3	66	17	14	31	38	5.0	3.1	e1.8	1.2	0.86
15	1.6	3.4	e30	40	40	48	81	21	3.0	e1.8	1.2	0.84
16	1.3	3.1	e20	106	29	39	32	9.7	2.8	e3.0	1.1	0.82
17	1.1	36	e15	25	19	38	17	7.2	2.7	e20	1.1	1.1
18	1.1	44	e18	38	21	26	14	6.6	4.2	e3.0	1.1	1.5
19	1.0	e17	e16	24	15	19	12	5.4	3.0	2.8	1.1	1.2
20	1.0	18	e25	17	11	15	11	5.2	2.7	2.5	1.0	0.89
21	1.0	e14	e14	41	10	13	9.7	4.9	2.5	2.3	1.0	0.88
22	1.1	e13	e12	20	11	12	8.1	5.1	2.6	2.2	1.0	0.87
23	6.2	e10	e10	15	9.4	16	7.2	5.0	2.6	2.1	1.2	0.96
24	40	e9.0	e10	13	9.8	15	8.4	4.6	2.6	2.0	1.1	0.92
25	9.6	e9.0	e10	11	8.1	12	28	8.5	2.5	1.9	1.0	2.1
26	5.0	e9.5	e20	10	7.3	21	10	7.1	2.4	2.0	1.00	1.3
27	2.8	11	49	9.4	7.8	15	8.0	14	2.1	1.8	0.98	3.2
28	3.8	6.5	153	8.6	154	12	8.9	6.4	2.9	1.7	0.93	1.1
29	5.0	e5.0	e25	8.0	---	24	7.2	5.1	2.4	1.7	0.97	1.0
30	2.8	16	e14	7.3	---	25	6.2	4.8	2.1	1.7	0.95	0.96
31	12	---	e11	6.6	---	15	---	4.3	---	1.6	0.85	---
Total	142.13	324.3	1,055.1	583.9	448.8	880	501.6	208.5	113.8	83.0	36.88	31.59
Mean	4.58	10.8	34.0	18.8	16.0	28.4	16.7	6.73	3.79	2.68	1.19	1.05
Max	40	44	195	106	154	117	81	21	17	20	1.6	3.2
Min	0.79	2.3	6.0	6.6	4.9	12	6.2	4.3	2.1	1.6	0.85	0.80
Ac-ft	282	643	2,090	1,160	890	1,750	995	414	226	165	73	63
Cfsm	0.73	1.72	5.42	3.00	2.55	4.52	2.66	1.07	0.60	0.43	0.19	0.17
In.	0.84	1.92	6.25	3.46	2.66	5.21	2.97	1.24	0.67	0.49	0.22	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.86	9.41	20.7	22.1	12.9	13.9	9.44	5.48	3.86	1.32	1.17	1.45
Max	4.58	19.7	34.0	52.7	18.0	28.4	16.7	9.65	16.6	2.68	3.23	3.16
(WY)	(2011)	(2007)	(2011)	(2006)	(2006)	(2011)	(2011)	(2005)	(2010)	(2011)	(2004)	(2010)
Min	0.81	3.11	7.65	5.18	3.32	5.99	3.40	1.77	1.30	0.82	0.48	0.49
(WY)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2003)	(2002)	(2006)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2002 - 2011	
Annual total	4,064.43		4,409.60			
Annual mean	11.1		12.1		8.72	
Highest annual mean					12.5	2006
Lowest annual mean					4.95	2005
Highest daily mean	195	Dec 9	195	Dec 9	245	Dec 3, 2007
Lowest daily mean	0.79	Oct 7	0.79	Oct 7	0.11	Sep 14, 2002
Annual seven-day minimum	0.83	Oct 2	0.83	Sep 10	0.16	Aug 30, 2002
Annual runoff (ac-ft)	8,060		8,750		6,320	
Annual runoff (cfsm)	1.77		1.92		1.39	
Annual runoff (inches)	24.08		26.12		18.86	
10 percent exceeds	24		25		21	
50 percent exceeds	6.2		6.1		3.8	
90 percent exceeds	1.1		1.0		0.76	

