



Water-Data Report 2008

14301500 WILSON RIVER NEAR TILLAMOOK, OR

Northern Oregon Coastal Basin
Wilson-Trask-Nestucca Subbasin

LOCATION.--Lat 45°28'34", long 123°43'26" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.13, T.1 S., R.9 W., Tillamook County, OR, Hydrologic Unit 17100203, on right bank, 1.3 mi downstream from Ming Creek, 6.0 mi east of Tillamook and at mile 9.3.

DRAINAGE AREA.--161 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1914 to September 1915, August to November 1916, July 1931 to current year. Prior to January 1915, monthly discharge only, published in WSP 1318.

REVISED RECORDS.--WSP 1398: 1953. WSP 1738: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 42.12 ft above NGVD of 1929. Dec. 18, 1914 to Nov. 4, 1916, nonrecording gage at site 0.65 mi downstream, at different datum. July 30, 1931 to Sept. 30, 1938, nonrecording gage at site 0.08 mi upstream, at datum 0.93 ft higher. Oct. 1, 1938 to Oct. 17, 1968, water-stage recorder 0.1 mi upstream at same datum. Oct. 18, 1968 to Sept. 6, 1973, at site 2.19 mi upstream, at datum 29.76 ft higher. Sept. 7, 1973 to Sept. 30, 2003, at site 2.2 mi upstream, at datum 29.76 ft higher.

REMARKS.--No estimated daily discharges. Records fair. No regulation. Small diversions for domestic use upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--77 years (water years 1932-2008), 1,177 ft³/s, 99.36 in/yr, 852,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft³/s Nov. 6, 2006, gage height, 22.89 ft; minimum discharge, 32 ft³/s Sept. 5, 1973, but may have been less for short period following a landslide Jan. 31, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1916 reached a stage of 20.8 ft, from floodmark, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 3	1130	*33,100	*20.37
No other peak greater than base discharge			

Minimum discharge, 67 ft³/s, Sept. 30, gage height, 3.02 ft.

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**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	225	256	1,120	1,680	2,020	1,760	1,110	1,230	322	216	133	101
2	234	239	4,100	1,810	1,930	1,470	1,050	1,090	311	210	124	99
3	439	228	26,800	2,390	1,670	1,240	1,010	1,020	399	205	113	96
4	444	219	13,300	3,130	1,380	1,120	1,100	960	394	201	107	93
5	356	210	6,560	3,990	1,420	977	1,180	963	382	211	106	91
6	252	201	4,330	3,200	1,790	871	1,650	1,000	904	205	102	89
7	300	194	3,020	2,410	4,590	805	2,220	901	1,240	189	99	88
8	513	189	2,280	2,520	4,680	889	2,230	794	928	179	98	85
9	371	200	1,830	3,030	5,220	861	1,950	711	749	172	101	83
10	355	409	1,530	5,230	4,630	884	1,770	663	931	163	104	81
11	328	340	1,280	9,500	3,910	1,350	1,610	673	931	161	101	81
12	280	1,120	1,080	6,930	3,110	1,240	1,690	651	821	156	100	79
13	243	1,760	945	5,210	2,660	1,790	1,960	612	702	149	97	76
14	216	1,030	862	3,780	2,180	3,410	1,750	658	609	145	96	75
15	200	999	961	3,060	1,800	3,260	1,430	797	542	140	92	75
16	203	3,730	972	2,400	1,550	2,570	1,210	1,010	487	136	90	73
17	254	3,310	1,100	1,930	1,390	2,160	1,060	1,040	446	137	86	70
18	900	2,920	1,550	1,590	1,290	2,650	984	882	414	132	92	70
19	2,080	2,380	3,720	1,380	1,220	2,550	949	732	385	129	101	71
20	2,360	2,040	5,350	1,220	1,170	2,150	857	718	361	128	281	73
21	2,310	1,650	3,310	1,010	1,120	1,860	819	685	341	126	318	77
22	1,430	1,330	2,640	883	1,090	1,620	857	630	325	121	213	78
23	971	1,090	3,400	814	1,090	1,920	1,450	558	308	120	158	76
24	716	918	4,780	758	1,040	2,430	1,970	504	291	119	139	74
25	561	785	3,460	688	990	1,970	1,690	499	279	117	144	92
26	467	730	2,680	714	970	1,820	1,480	466	267	116	126	88
27	405	792	2,200	767	964	1,580	1,460	436	259	116	135	82
28	358	723	2,370	679	1,010	1,530	1,570	408	249	115	127	79
29	325	1,100	2,650	794	1,200	1,390	1,690	382	235	115	118	75
30	297	1,230	2,460	847	---	1,290	1,460	356	225	125	109	71
31	273	---	2,000	1,800	---	1,180	---	336	---	118	104	---
Total	18,666	32,322	114,640	76,144	59,084	52,597	43,216	22,365	15,037	4,672	3,914	2,441
Mean	602	1,077	3,698	2,456	2,037	1,697	1,441	721	501	151	126	81.4
Max	2,360	3,730	26,800	9,500	5,220	3,410	2,230	1,230	1,240	216	318	101
Min	200	189	862	679	964	805	819	336	225	115	86	70
Ac-ft	37,020	64,110	227,400	151,000	117,200	104,300	85,720	44,360	29,830	9,270	7,760	4,840
Cfsm	3.74	6.69	23.0	15.3	12.7	10.5	8.95	4.48	3.11	0.94	0.78	0.51
In.	4.31	7.47	26.49	17.59	13.65	12.15	9.99	5.17	3.47	1.08	0.90	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	546	1,896	2,695	2,535	2,191	1,773	1,170	612	340	165	105	154
Max	2,249	5,469	7,988	5,776	5,166	3,637	2,622	1,391	876	514	241	780
(WY)	(1998)	(2007)	(1934)	(1953)	(1999)	(1956)	(1991)	(1933)	(1933)	(1983)	(2004)	(1959)
Min	43.5	87.2	378	344	501	406	426	202	131	76.5	44.3	40.1
(WY)	(1988)	(1937)	(1977)	(1977)	(2005)	(1992)	(1939)	(1939)	(1992)	(1992)	(1967)	(1967)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1932 - 2008	
Annual total	399,879		445,098			
Annual mean	1,096		1,216		1,177	
Highest annual mean					1,811	1996
Lowest annual mean					495	2001
Highest daily mean	26,800	Dec 3	26,800	Dec 3	28,000	Feb 8, 1996
Lowest daily mean	66	Sep 7	70	Sep 17	34	Sep 1, 1967
Annual seven-day minimum	68	Sep 7	72	Sep 14	35	Aug 30, 1967
Annual runoff (ac-ft)	793,200		882,900		852,900	
Annual runoff (cfsm)	6.80		7.55		7.31	
Annual runoff (inches)	92.39		102.84		99.36	
10 percent exceeds	2,760		2,650		2,920	
50 percent exceeds	472		801		565	
90 percent exceeds	74		99		86	

