

**14301000 NEHALEM RIVER NEAR FOSS, OR**

Northern Oregon Coastal Basin  
Nehalem Subbasin

LOCATION.--Lat 45°42'15", long 123°45'15" referenced to North American Datum of 1927, in NW ¼ sec.35, T.3 N., R.9 W., Tillamook County, OR, Hydrologic Unit 17100202, on right bank 0.2 mi upstream from Cook Creek, 2.2 mi northeast of Foss and at mile 13.5.

DRAINAGE AREA.--667 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft above NGVD of 1929 (State Highway Department bench mark). Prior to Nov. 11, 1939, nonrecording gage.

REMARKS.--Records good except those for the period Jan. 20 to Feb. 1 and estimated daily discharges, which are fair. No regulation. Several small diversions for irrigation and domestic use upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--68 years (water years 1940-2007), 2,653 ft<sup>3</sup>/s, 54.04 in/yr, 1,922,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,300 ft<sup>3</sup>/s Feb. 8, 1996, gage height, 29.56 ft, on basis of slope-area measurement of peak flow; minimum discharge, 34 ft<sup>3</sup>/s Aug. 29-31, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov 07	0800	*37,300	*19.77
Dec 14	2130	23,400	14.92

Minimum discharge, 72 ft<sup>3</sup>/s, Oct 5, 6.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e72	98	6,150	4,140	1,200	7,370	2,090	1,150	407	279	138	96
2	e72	171	5,300	5,030	1,130	6,580	1,920	1,180	393	268	134	94
3	e72	2,660	4,590	12,400	1,070	7,460	1,750	1,280	380	250	130	92
4	e72	5,840	3,980	13,100	1,040	8,310	1,620	1,260	371	237	128	92
5	e72	6,530	3,520	11,100	999	e8,100	1,500	1,220	373	226	124	91
6	73	28,300	3,130	14,200	953	e7,500	1,390	1,140	373	217	124	91
7	74	35,100	2,830	14,300	928	e6,400	1,370	1,070	367	209	125	90
8	75	23,500	2,580	13,400	917	5,880	1,450	1,010	353	201	129	89
9	78	14,200	2,440	10,800	920	5,440	1,830	951	355	195	128	92
10	79	11,800	2,390	8,850	901	5,120	2,170	899	397	190	127	87
11	79	14,400	5,120	7,150	930	6,850	2,250	852	399	183	125	84
12	79	13,300	7,100	5,710	1,160	8,130	2,200	815	376	176	122	83
13	80	13,800	12,300	4,680	1,150	6,990	2,060	784	353	170	123	83
14	79	12,600	17,100	3,910	1,120	5,700	1,990	752	335	165	120	83
15	91	10,700	21,100	3,310	4,930	4,660	1,860	718	325	160	116	85
16	167	12,000	17,800	2,920	7,510	3,860	1,730	682	324	160	114	86
17	176	9,360	11,700	2,610	5,750	3,250	1,820	650	327	160	112	89
18	149	6,760	7,900	2,370	4,690	2,800	1,990	623	324	170	111	92
19	171	5,650	5,910	2,210	5,000	2,530	2,100	607	313	184	119	96
20	213	5,220	4,750	2,290	10,600	2,750	1,980	611	304	200	123	100
21	188	e8,000	5,040	2,250	11,100	2,670	1,880	666	290	237	130	97
22	150	e11,500	5,380	2,140	8,620	2,370	1,900	653	281	253	134	96
23	132	e15,200	6,370	2,040	6,630	2,150	1,870	611	273	239	135	93
24	123	15,800	8,410	2,040	7,140	2,680	1,760	572	289	229	128	91
25	119	14,200	12,900	1,920	9,920	5,440	1,640	536	307	209	120	89
26	113	11,900	12,100	1,870	10,600	5,050	1,530	514	295	191	115	88
27	108	12,100	12,600	1,770	9,560	4,180	1,440	495	280	179	112	88
28	103	10,300	10,700	1,700	8,440	3,470	1,360	481	273	166	107	95
29	103	7,440	8,350	1,530	---	2,930	1,270	464	291	157	104	96
30	104	6,890	6,440	1,420	---	2,580	1,180	447	296	151	100	119
31	101	---	5,070	1,300	---	2,320	---	427	---	145	98	---
<b>Total</b>	3,367	345,319	241,050	164,460	124,908	151,520	52,900	24,120	10,024	6,156	3,755	2,747
<b>Mean</b>	109	11,510	7,776	5,305	4,461	4,888	1,763	778	334	199	121	91.6
<b>Max</b>	213	35,100	21,100	14,300	11,100	8,310	2,250	1,280	407	279	138	119
<b>Min</b>	72	98	2,390	1,300	901	2,150	1,180	427	273	145	98	83
<b>Ac-ft</b>	6,680	684,900	478,100	326,200	247,800	300,500	104,900	47,840	19,880	12,210	7,450	5,450
<b>Cfsm</b>	0.16	17.3	11.7	7.95	6.69	7.33	2.64	1.17	0.50	0.30	0.18	0.14
<b>In.</b>	0.19	19.26	13.44	9.17	6.97	8.45	2.95	1.35	0.56	0.34	0.21	0.15

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	781	3,788	6,161	6,197	5,661	4,236	2,666	1,258	616	271	148	210
<b>Max</b>	3,698	11,510	11,390	12,450	13,000	8,696	6,389	3,028	1,591	747	314	911
<b>(WY)</b>	(1998)	(2007)	(1956)	(1971)	(1999)	(1956)	(1996)	(1948)	(1968)	(1983)	(1968)	(1997)
<b>Min</b>	69.9	154	599	596	1,066	1,171	1,149	520	250	137	62.5	63.6
<b>(WY)</b>	(1953)	(1994)	(1977)	(1977)	(1977)	(1992)	(1941)	(1989)	(1992)	(1967)	(1967)	(1967)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1940 - 2007	
<b>Annual total</b>	1,283,670		1,130,326			
<b>Annual mean</b>	3,517		3,097		2,653	
<b>Highest annual mean</b>					4,292	1999
<b>Lowest annual mean</b>					1,044	2001
<b>Highest daily mean</b>	35,100	Nov 7	35,100	Nov 7	61,600	Feb 8, 1996
<b>Lowest daily mean</b>	70	Sep 12	72	Oct 1	36	Aug 29, 1967
<b>Annual seven-day minimum</b>	71	Sep 7	72	Oct 1	38	Aug 26, 1967
<b>Annual runoff (ac-ft)</b>	2,546,000		2,242,000		1,922,000	
<b>Annual runoff (cfsm)</b>	5.27		4.64		3.98	
<b>Annual runoff (inches)</b>	71.59		63.04		54.04	
<b>10 percent exceeds</b>	11,800		10,400		7,180	
<b>50 percent exceeds</b>	867		951		1,120	
<b>90 percent exceeds</b>	84		94		123	

