Water-Data Report 2011

12010000 NASELLE RIVER NEAR NASELLE, WA

Washington Coastal Basin
Willapa Bay Subbasin

LOCATION.--Lat 46°22′27″, long 123°44′32″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.1, T.10 N., R.9 W., Pacific County, WA, Hydrologic Unit 17100106, on right bank 0.2 mi upstream from county highway bridge, 2.2 mi upstream from Salmon Creek, 3.4 mi east of Naselle, and at mile 17.4.

DRAINAGE AREA.--54.8 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1929 to current year.

REVISED RECORDS.--WSP 1216: Drainage area. WSP 1316: 1930(M), 1932-40(M), 1945-46(M).

GAGE.--Water-stage recorder. Elevation of gage is 24 ft above NGVD of 1929, by barometer. Prior to Jan. 11, 1957, nonrecording gage and crest-stage gage at site 1,350 ft downstream at present datum. Jan. 11, 1957, to Dec. 31, 1961, nonrecording gage and crest-stage gage at site 1,200 ft downstream at present datum.

REMARKS.--Records good except estimated daily discharges which are fair. No regulation or diversion upstream from station. Chemical analyses October 1965 to September 1970, January to September 1973, November 1975 to June 1980. Water temperatures August 1963 to September 1973. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--82 years (water years 1930-2011), 426 ft^3/s, 105.55 in/yr, 308,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft^3/s Jan. 07, 2009, gage height, 20.62 ft, from high-water mark in well; minimum discharge, 17 ft^3/s Sept. 3, 5, 2003, and Oct. 13, 14, 2006.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 16	1400	*5,660	*13.12
No other peak greater than base discharge.			

Minimum discharge, 21 ft^3/s, Sept. 12, gage height, 3.78 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 12010000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/12010000.2011.pdf

12010000 NASELLE RIVER NEAR NASELLE, WA—Continued

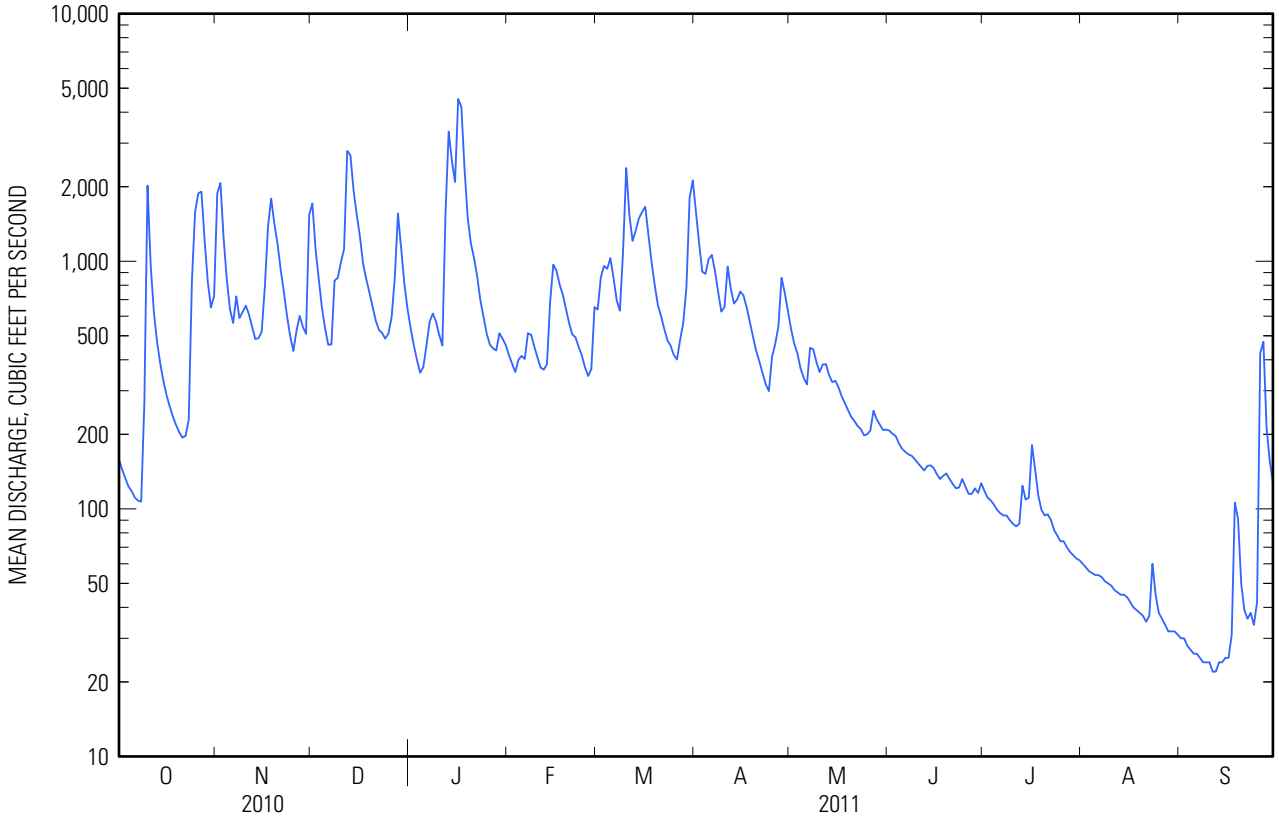
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	158	1,880	1,710	536	418	638	1,580	533	207	118	60	30
2	144	2,070	1,120	458	386	862	1,180	465	201	111	58	30
3	133	1,240	852	399	357	958	907	425	197	108	56	28
4	123	845	651	355	400	932	889	369	184	104	55	27
5	118	640	537	374	415	1,030	1,020	338	175	99	54	26
6	111	563	460	458	403	856	1,060	318	170	96	54	26
7	108	721	461	571	512	696	913	447	166	94	53	25
8	107	590	835	615	505	631	752	441	164	94	51	24
9	268	624	857	571	453	1,090	626	392	159	90	50	24
10	2,020	662	990	505	409	2,380	653	357	153	87	49	24
11	963	610	1,120	457	372	1,540	951	383	148	85	47	22
12	623	543	2,790	1,570	365	1,210	774	384	143	87	46	22
13	474	485	2,680	3,340	384	1,330	675	347	149	124	45	24
14	387	489	1,930	2,550	685	1,490	701	325	150	109	45	24
15	329	518	1,540	2,090	969	1,580	755	329	146	111	44	25
16	288	785	1,260	4,520	916	1,660	727	309	138	181	42	25
17	259	1,380	976	e4,200	805	1,280	651	284	132	144	40	31
18	236	1,790	847	e2,360	733	992	568	267	136	113	39	106
19	218	1,420	747	e1,500	641	800	496	250	139	99	38	91
20	204	1,180	655	e1,180	562	664	434	235	132	94	37	50
21	194	926	575	e1,030	506	600	394	226	126	95	35	39
22	197	753	528	e865	493	533	354	216	121	90	37	36
23	229	601	513	e695	451	480	319	210	122	82	60	38
24	831	498	487	e595	416	456	299	198	132	78	45	34
25	1,580	434	511	e510	373	419	411	200	123	74	38	42
26	1,880	525	595	e460	344	401	463	207	115	74	36	426
27	1,910	601	859	e445	367	481	545	249	115	70	34	473
28	1,220	543	1,560	436	653	564	857	230	121	67	32	213
29	829	509	1,130	512	---	787	748	219	116	65	32	156
30	651	1,540	817	487	---	1,800	630	208	127	63	32	128
31	724	---	644	459	---	2,120	---	209	---	62	31	---
Total	17,516	25,965	31,237	35,103	14,293	31,260	21,332	9,570	4,407	2,968	1,375	2,269
Mean	565	866	1,008	1,132	510	1,008	711	309	147	95.7	44.4	75.6
Max	2,020	2,070	2,790	4,520	969	2,380	1,580	533	207	181	60	473
Min	107	434	460	355	344	401	299	198	115	62	31	22
Ac-ft	34,740	51,500	61,960	69,630	28,350	62,000	42,310	18,980	8,740	5,890	2,730	4,500
Cfsm	10.3	15.8	18.4	20.7	9.32	18.4	13.0	5.63	2.68	1.75	0.81	1.38
In.	11.89	17.63	21.20	23.83	9.70	21.22	14.48	6.50	2.99	2.01	0.93	1.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	274	732	916	876	763	612	397	208	139	75.8	52.1	82.2
Max	862	1,558	2,530	1,969	1,587	1,424	858	448	400	250	196	455
(WY)	(1998)	(2007)	(1934)	(1953)	(1961)	(1997)	(1937)	(1948)	(2000)	(1983)	(2001)	(1978)
Min	20.9	37.3	245	215	157	153	120	82.0	54.9	33.8	22.3	26.4
(WY)	(1988)	(1937)	(1977)	(1985)	(2009)	(1992)	(1939)	(1956)	(1982)	(1970)	(1970)	(1999)

12010000 NASELLE RIVER NEAR NASELLE, WA—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1930 - 2011	
Annual total	169,757		197,295			
Annual mean	465		541		426	
Highest annual mean					611	1974
Lowest annual mean					226	1977
Highest daily mean	2,790	Dec 12	4,520	Jan 16	10,700	Jan 7, 2009
Lowest daily mean	29	Aug 29	22	Sep 11	18	Aug 31, 1970
Annual seven-day minimum	31	Aug 24	23	Sep 8	19	Aug 31, 2003
Annual runoff (ac-ft)	336,700		391,300		308,400	
Annual runoff (cfsm)	8.49		9.86		7.77	
Annual runoff (inches)	115.24		133.93		105.55	
10 percent exceeds	1,020		1,230		1,040	
50 percent exceeds	296		403		216	
90 percent exceeds	49		43		39