12155300 PILCHUCK RIVER NEAR SNOHOMISH, WA

Puget Sound Basin
Snohomish Subbasin

LOCATION.--Lat 47°56′06″, long 122°04′19″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.8, T.28 N., R.6 E., Snohomish County, WA, Hydrologic Unit 17110011, on right bank, 1.8 mi northeast of Snohomish, and at mile 3.6.

DRAINAGE AREA.--127 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1992 to current year.

REVISED RECORDS.--WDR-WA-2009: 1995-98(P),2000-08(P).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 30.00 ft above NGVD of 1929.

REMARKS.--Records fair, except estimated daily discharges and for flows above 4,000 ft^3/s , which are poor. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--19 years (water years 1993-2011), 479 ft^3/s, 51.26 in/yr, 347,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft^3/s, Jan. 8, 2009, gage height, 20.39 ft; minimum discharge, 35 ft^3/s, Sept. 6, 2003.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 24, 1990, reached a stage of 18.75 ft, from high-water mark at former bridge, discharge, 7,100 ft^3/s (from slope-area measurement of peak flow).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 12	2045	*7,200	17.05
Jan 7	2130	3,010	13.94
Jan 14	2000	2,880	13.76
Jan 16	1430	4,550	15.70
Jan 17	1500	4,470	15.60
Jan 21	2245	5,080	16.38
Mar 14	1515	2,830	13.47
Mar 31	0700	5,770	*17.17
Apr 3	0045	3,100	13.82
Apr 5	0330	3,230	14.00

Minimum discharge, 72 ft^3/s, Sept. 11-15.

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 12155300, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/12155300.2011.pdf

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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	164	432	1,250	e391	825	440	3,000	560	377	340	157	83
2	148	606	908	e347	676	453	3,030	531	472	260	146	82
3	140	388	798	e313	580	521	2,530	1,100	753	255	139	81
4	135	300	739	e278	1,120	553	2,080	947	527	232	135	80
5	128	252	676	308	1,220	643	2,950	730	458	209	132	79
6	122	253	634	913	963	607	2,420	771	404	206	129	77
7	116	496	619	2,430	1,530	527	2,020	1,150	394	216	123	76
8	113	643	885	1,810	1,310	473	1,450	1,420	619	230	122	75
9	122	653	1,180	1,180	928	578	1,140	933	520	212	119	75
10	600	478	1,370	842	727	1,740	1,030	682	407	181	116	74
11	399	381	1,130	617	610	1,670	1,370	628	368	171	110	74
12	252	360	4,120	693	601	1,140	1,220	958	331	166	108	73
13	203	338	3,650	1,610	718	1,230	940	645	359	203	107	74
14	180	367	2,250	2,380	724	2,470	865	551	501	282	105	74
15	164	583	1,520	1,700	1,130	2,020	948	844	464	394	102	74
16	152	1,770	1,090	3,540	901	1,910	905	1,490	448	257	99	80
17	140	1,450	806	3,630	793	1,470	917	1,480	346	233	97	81
18	138	1,360	619	2,940	756	1,110	852	944	341	202	96	85
19	133	1,130	539	1,700	625	1,040	807	698	486	183	94	119
20	125	962	478	1,220	539	883	676	576	403	382	93	97
21	120	834	e436	2,730	487	737	607	529	340	373	95	87
22	116	747	e401	3,250	518	947	573	472	319	513	94	81
23	117	686	e373	1,850	526	781	507	432	312	289	113	80
24	153	631	e391	1,460	499	635	469	376	308	241	117	78
25	750	606	554	1,680	443	574	511	359	289	221	99	77
26	654	661	522	1,290	401	536	1,110	512	255	207	93	80
27	461	755	484	1,030	391	520	930	440	256	199	90	123
28	352	721	716	868	448	528	938	489	268	176	87	181
29	276	685	648	1,120	---	564	862	435	271	166	86	127
30	242	751	512	1,860	---	3,090	687	388	392	162	85	104
31	344	---	e442	1,090	---	5,170	---	363	---	154	84	---
Total	7,259	20,279	30,740	47,070	20,989	35,560	38,344	22,433	11,988	7,515	3,372	2,631
Mean	234	676	992	1,518	750	1,147	1,278	724	400	242	109	87.7
Max	750	1,770	4,120	3,630	1,530	5,170	3,030	1,490	753	513	157	181
Min	113	252	373	278	391	440	469	359	255	154	84	73
Ac-ft	14,400	40,220	60,970	93,360	41,630	70,530	76,060	44,500	23,780	14,910	6,690	5,220
Cfsm	1.84	5.32	7.81	12.0	5.90	9.03	10.1	5.70	3.15	1.91	0.86	0.69
In.	2.13	5.94	9.00	13.79	6.15	10.42	11.23	6.57	3.51	2.20	0.99	0.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	309	702	837	926	634	665	577	425	299	158	95.8	116
Max	697	1,176	1,467	1,748	1,110	1,147	1,278	724	586	378	209	265
(WY)	(1996)	(2007)	(2000)	(2009)	(1996)	(2011)	(2011)	(2011)	(2010)	(1997)	(1995)	(2010)
Min	75.3	179	379	434	264	311	228	208	118	69.4	45.5	52.8
(WY)	(2003)	(1994)	(2001)	(2001)	(1993)	(2005)	(2004)	(1994)	(1992)	(2003)	(2003)	(1998)

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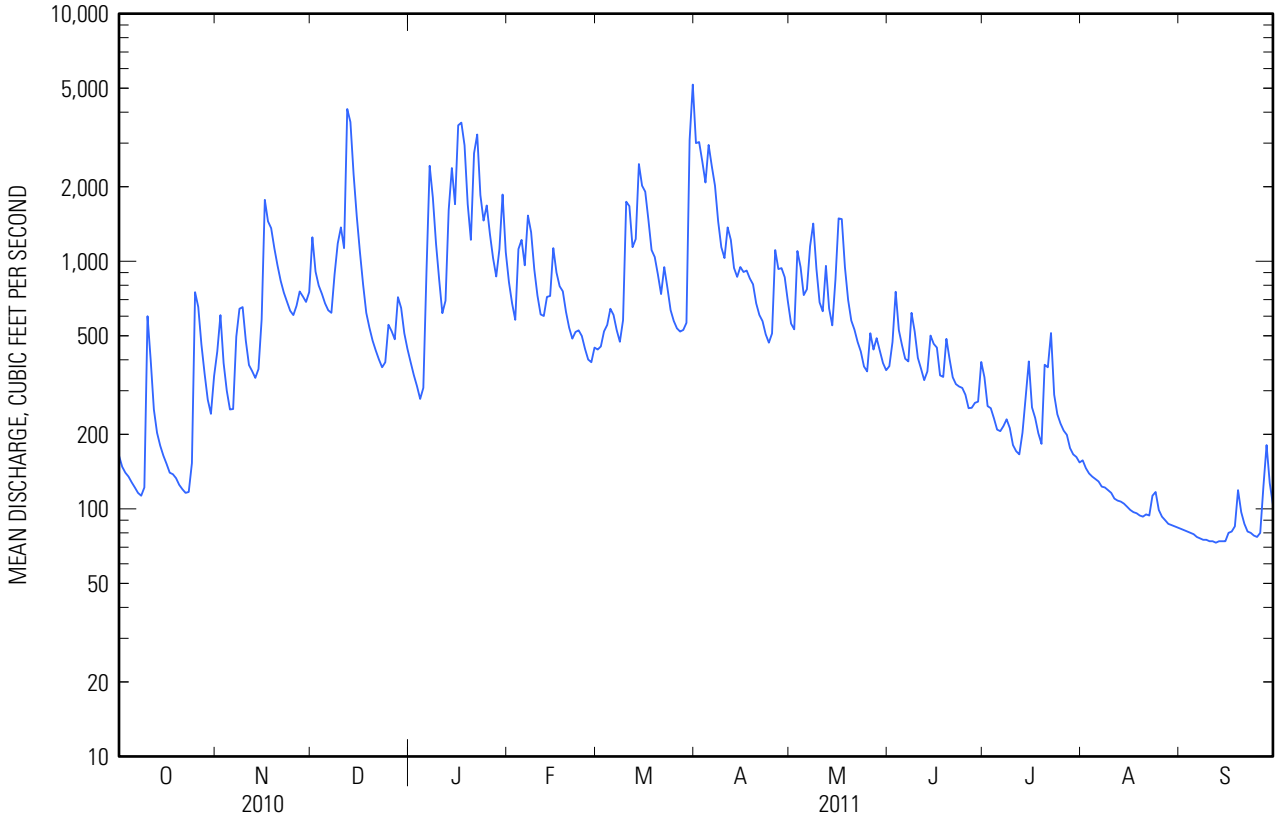
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1992 - 2011	
Annual total	159,335		248,180			
Annual mean	437		680		479	
Highest annual mean					721	1997
Lowest annual mean					314	2001
Highest daily mean	4,120	Dec 12	5,170	Mar 31	12,100	Jan 8, 2009
Lowest daily mean	60	Aug 25	73	Sep 12	36	Sep 4, 2003
Annual seven-day minimum	63	Aug 24	74	Sep 9	37	Aug 31, 2003
Annual runoff (ac-ft)	316,000		492,300		347,100	
Annual runoff (cfsm)	3.44		5.35		3.77	
Annual runoff (inches)	46.67		72.70		51.26	
10 percent exceeds	827		1,470		1,020	
50 percent exceeds	325		487		333	
90 percent exceeds	99		97		71