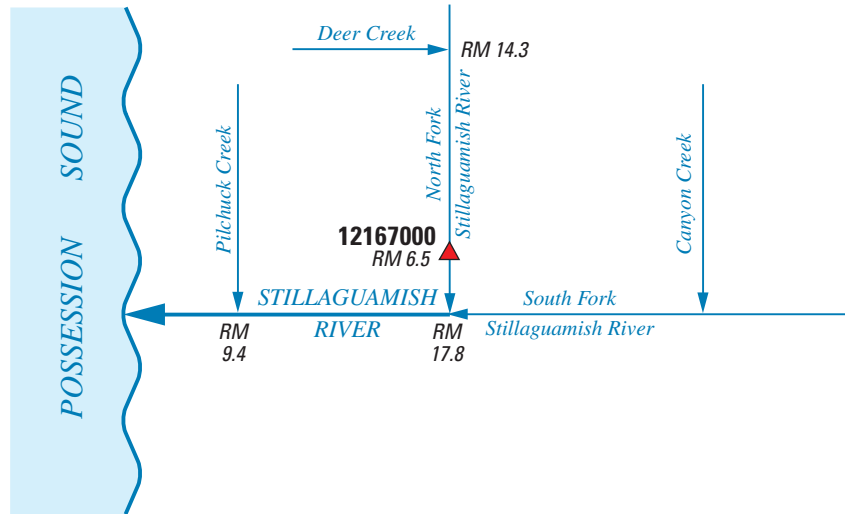




**Figure 38.** Location of surface-water stations in the Stillaguamish River Basin.



**EXPLANATION**

-  Real-time surface-water station
- 12161000** Station number
- RM 17.8* River mile
-  Stream—Arrow shows direction of flow

**Figure 39.** Schematic diagram showing surface-water stations in the Stillaguamish River Basin.

## 12167000 NORTH FORK STILLAGUAMISH RIVER NEAR ARLINGTON, WA

LOCATION.--Lat 48°15'42", long 122°02'47", in SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec.16, T.32 N., R.6 E., Snohomish County, Hydrologic Unit 17110008, on right bank 5.7 mi northeast of Arlington, 7.8 mi downstream from Deer Creek, and at mile 6.5.

DRAINAGE AREA.--262 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 1286: 1938-39. WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 89.34 ft above NGVD of 1929.

REMARKS.--Records fair except those above 5,000 ft<sup>3</sup>/s, which are poor. No regulation. Small diversions for domestic use. National Weather Service radio telemeter and U.S. Geological Survey satellite telemeter at station. Chemical analyses November 1961 to September 1971, October 1973 to September 1974.

AVERAGE DISCHARGE.--77 years (water years 1929-2005), 1,893 ft<sup>3</sup>/s, 98.19 in/yr, 1,372,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,000 ft<sup>3</sup>/s, Oct. 21, 2003, gage height, 14.81 ft, on basis of slope-area measurement at gage height 14.81 ft; maximum gage height, 15.20 ft, Nov. 24, 1990; minimum discharge, 117 ft<sup>3</sup>/s, Sept. 23, 1938.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov 2	1045	14,300	9.58	Dec 11	0500	33,900	13.99
Nov 25	0515	*39,000	*14.50	Jan 18	0145	27,500	13.07

Minimum discharge, 149 ft<sup>3</sup>/s, Sept. 28, 29.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	876	1,680	1,650	1,530	1,570	1,630	4,020	1,370	1,270	725	322	235
2	831	8,830	1,500	1,420	1,350	1,420	3,240	1,330	1,210	750	320	216
3	793	4,160	1,410	1,330	1,260	1,250	2,670	1,310	1,050	752	300	209
4	761	2,720	2,220	1,250	1,640	1,120	3,010	1,230	970	680	285	205
5	729	2,200	2,780	1,180	2,120	1,060	2,450	1,200	954	647	277	231
6	839	1,990	1,960	1,160	1,660	1,030	2,060	1,190	1,090	1,390	270	209
7	887	2,090	1,750	1,180	1,480	1,100	2,490	1,130	1,040	1,110	265	192
8	965	1,850	3,040	1,130	1,360	1,140	2,930	1,060	1,430	1,540	259	183
9	3,510	1,660	3,270	1,070	1,280	1,130	2,080	1,050	1,320	2,030	253	207
10	2,650	1,510	15,600	1,030	1,210	1,110	1,750	1,210	1,120	1,150	250	314
11	1,710	1,380	17,600	980	1,160	1,020	2,160	1,170	1,140	929	251	304
12	1,390	1,280	5,010	1,040	1,240	985	1,980	1,090	1,820	839	248	239
13	1,220	1,210	3,520	999	1,610	918	1,690	1,020	1,640	782	244	214
14	1,110	1,200	7,100	931	1,450	865	1,710	1,020	1,370	702	235	200
15	1,040	1,680	6,290	872	1,290	826	1,680	1,220	1,220	644	228	191
16	2,410	1,840	3,700	1,450	1,190	938	6,890	1,910	1,090	716	222	195
17	2,810	1,910	2,930	9,580	1,140	1,310	4,390	1,500	1,100	710	294	198
18	3,370	2,870	2,590	19,300	1,110	1,280	2,800	1,300	1,090	610	296	196
19	2,420	3,560	2,700	10,500	1,070	1,160	2,290	2,130	1,030	556	244	186
20	1,840	2,250	2,410	4,920	1,020	3,050	2,150	2,100	926	516	226	179
21	1,660	1,860	2,120	4,040	981	2,890	2,190	2,570	878	483	223	172
22	1,970	1,880	1,920	3,670	953	1,810	2,310	1,940	1,020	478	220	167
23	1,990	2,370	1,750	4,970	941	1,480	2,300	1,630	1,060	488	211	162
24	2,030	12,800	1,630	3,090	958	1,300	2,230	1,410	896	438	205	159
25	1,840	19,400	2,560	2,460	972	1,180	2,100	1,260	826	407	197	156
26	1,580	4,770	3,250	2,110	968	2,820	2,020	1,160	788	386	190	154
27	1,400	3,210	2,220	1,920	979	4,170	1,920	1,100	816	371	186	152
28	1,280	2,470	1,890	1,720	1,000	4,030	1,770	1,060	878	357	185	151
29	1,220	2,060	1,790	1,550	---	3,320	1,610	1,030	822	345	260	812
30	1,690	1,860	1,780	1,420	---	3,410	1,470	990	766	332	333	2,450
31	1,670	---	1,660	1,560	---	2,550	---	1,010	---	324	264	---
TOTAL	50,491	100,550	111,600	91,362	34,962	53,302	74,360	41,700	32,630	22,187	7,763	8,838
MEAN	1,629	3,352	3,600	2,947	1,249	1,719	2,479	1,345	1,088	716	250	295
MAX	3,510	19,400	17,600	19,300	2,120	4,170	6,890	2,570	1,820	2,030	333	2,450
MIN	729	1,200	1,410	872	941	826	1,470	990	766	324	185	151
AC-FT	100,100	199,400	221,400	181,200	69,350	105,700	147,500	82,710	64,720	44,010	15,400	17,530
CFSM	6.22	12.8	13.7	11.2	4.77	6.56	9.46	5.13	4.15	2.73	0.96	1.12
IN.	7.17	14.28	15.85	12.97	4.96	7.57	10.56	5.92	4.63	3.15	1.10	1.25

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	1,535	2,772	3,047	2,809	2,431	2,141	2,210	2,150	1,649	864	462	681
MAX	3,880	8,008	6,177	5,852	5,632	5,814	4,040	4,371	3,348	2,165	1,049	2,418
(WY)	(2004)	(1991)	(1980)	(1953)	(1982)	(1972)	(1959)	(1997)	(1974)	(1972)	(1964)	(1959)
MIN	171	223	871	484	467	898	812	1,091	510	290	166	140
(WY)	(1988)	(1937)	(1986)	(1937)	(1929)	(1992)	(1941)	(1992)	(1992)	(1940)	(1938)	(1938)

## 12167000 NORTH FORK STILLAGUAMISH RIVER NEAR ARLINGTON, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	743,261		629,745			
ANNUAL MEAN	2,031		1,725		1,893	
HIGHEST ANNUAL MEAN					2,883	
LOWEST ANNUAL MEAN					1,123	
HIGHEST DAILY MEAN	19,400	Nov 25	19,400	Nov 25	34,200	Nov 24, 1990
LOWEST DAILY MEAN	211	Aug 20	151	Sep 28	123	Sep 23, 1938
ANNUAL SEVEN-DAY MINIMUM	224	Aug 15	157	Sep 22	128	Sep 17, 1938
ANNUAL RUNOFF (AC-FT)	1,474,000		1,249,000		1,372,000	
ANNUAL RUNOFF (CFSM)	7.75		6.59		7.23	
ANNUAL RUNOFF (INCHES)	105.53		89.41		98.19	
10 PERCENT EXCEEDS	3,510		3,020		3,710	
50 PERCENT EXCEEDS	1,640		1,220		1,370	
90 PERCENT EXCEEDS	469		235		340	