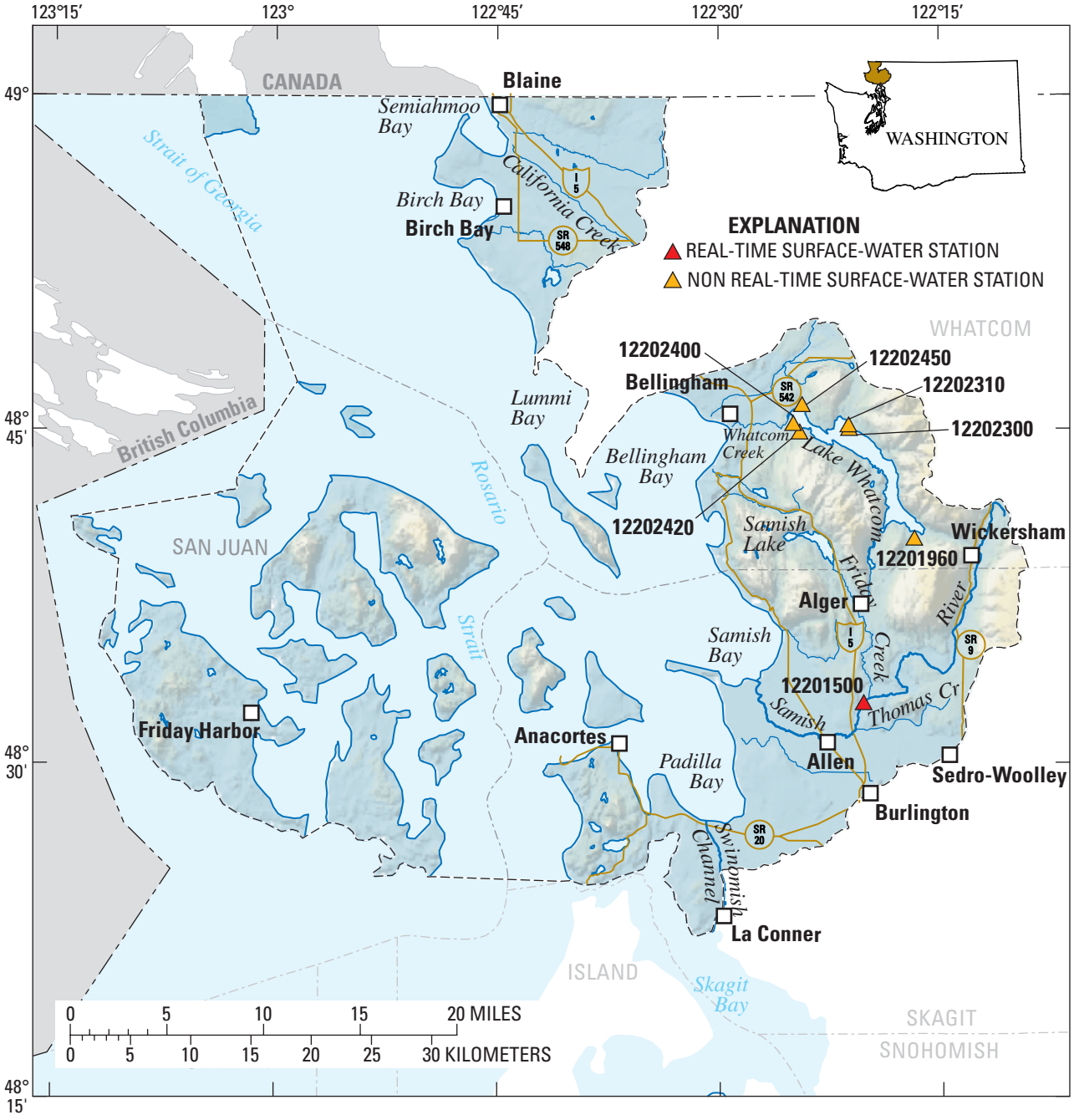

Figure 42. Location of surface-water stations in the Samish River and Whatcom Creek Basins.

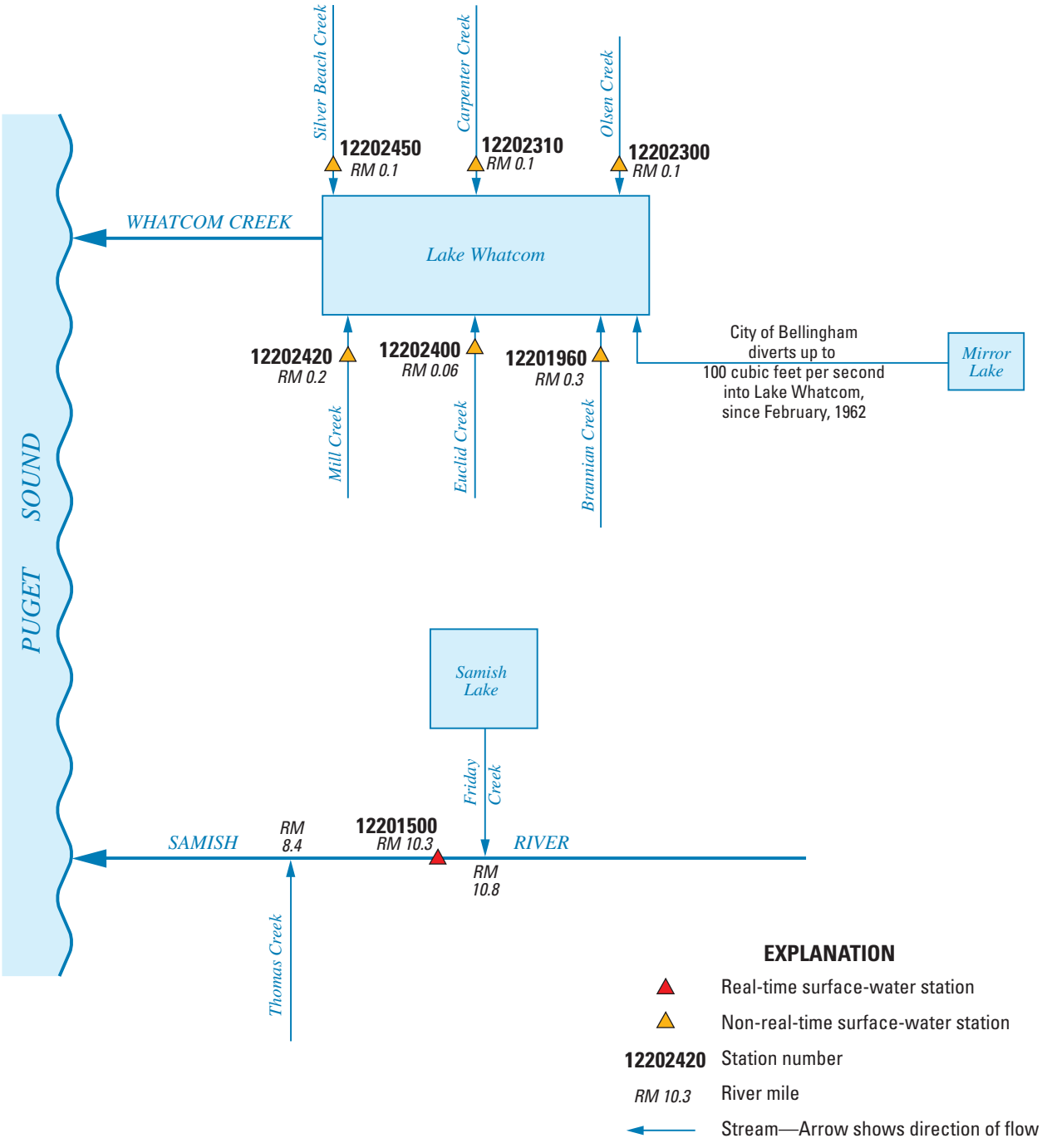

Figure 43. Schematic diagram showing surface-water stations in the Samish River and Whatcom Creek Basins.

12201500 SAMISH RIVER NEAR BURLINGTON, WA

LOCATION.--Lat 48°32'46", long 122°20'13", in SE¼SE¼ sec.6, T.35 N., R.4 E., Skagit County, Hydrologic Unit 17110004, on left bank, 0.5 mi downstream from Friday Creek, 300 ft downstream from bridge on U.S. Highway 99, 5.0 mi north of Burlington, and at mile 10.3.

DRAINAGE AREA.--87.8 mi^2.

PERIOD OF RECORD.--July 1943 to September 1971, annual maximum water years 1972-83, miscellaneous discharge measurements 1972-74, 1976-96, October 1996 to current year.

REVISED RECORDS.--WSP 1216: Drainage area. WSP 1286: 1944(M), 1945.

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above NGVD of 1929, from topographic map. Prior to Dec. 1, 1948, at site 500 ft upstream at datum 0.75 ft higher. Dec. 1, 1948, to Jan. 7, 1949, nonrecording gage 200 ft upstream at datum 3.14 ft higher than present datum.

REMARKS.--Records good. State fish hatchery on Friday Creek diverts about 4 ft^3/s, which is returned upstream from station. Slight regulation and there may be some pumping for irrigation. Chemical analyses 1959-70, 1973-74, 1977 to June 1980. Water temperatures March 1973 to April 1974.

AVERAGE DISCHARGE.--37 years (water years 1944-71, 1997-2005), 245 ft^3/s, 37.88 in/yr, 177,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,830 ft^3/s, Dec. 28, 1949, gage height, 11.89 ft; maximum gage height, 13.00 ft, Nov. 25, 2004; minimum discharge, 11 ft^3/s, July 10, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 2	0830	1,260	7.96	Dec 11	0330	1,280	8.49
Nov 25	0300	*4,820	*13.00	Jan 18	1530	2,610	10.05
Dec 5	0430	1,160	8.31				

Minimum discharge, 25 ft^3/s, Aug. 5, gage height, 4.61 ft.

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	76	218	485	269	250	153	397	143	78	53	44	36
2	75	998	424	239	233	147	393	134	75	54	42	35
3	70	778	387	217	219	139	367	129	71	51	42	35
4	67	519	511	198	285	132	429	123	68	51	41	35
5	64	375	931	183	301	127	342	117	71	49	40	35
6	68	377	637	176	310	122	307	113	73	69	39	34
7	68	471	544	181	306	121	315	107	71	74	39	32
8	87	381	552	172	266	117	401	103	82	73	39	34
9	398	314	527	159	243	123	321	110	85	144	39	34
10	255	272	955	149	225	119	273	102	77	123	38	35
11	204	242	1,110	140	215	114	489	97	74	106	39	34
12	170	211	756	143	244	110	655	93	74	93	37	33
13	145	192	572	139	276	105	542	91	75	84	37	32
14	130	197	591	128	246	101	432	91	73	76	37	33
15	123	268	686	120	224	97	385	93	69	72	36	31
16	399	269	534	178	208	114	696	105	68	71	36	33
17	434	249	436	806	197	134	703	106	76	68	60	33
18	488	425	390	2,180	188	123	513	102	73	65	48	32
19	394	616	359	1,680	180	120	399	110	70	61	41	31
20	303	490	323	1,010	171	140	337	102	66	59	39	31
21	248	374	299	861	163	145	297	105	65	57	37	31
22	255	347	276	834	157	134	271	100	75	55	36	31
23	284	438	250	732	153	124	249	96	70	53	36	31
24	280	2,300	233	583	147	112	228	91	63	52	36	31
25	245	4,310	447	487	143	106	209	87	59	50	36	31
26	221	2,110	522	418	139	144	192	83	59	48	35	30
27	198	1,140	434	368	137	187	180	80	61	47	35	30
28	180	786	355	331	134	391	166	77	59	46	36	30
29	173	621	324	299	---	521	155	78	56	45	38	64
30	182	575	320	280	---	495	160	73	56	44	37	172
31	168	---	307	265	---	362	---	76	---	43	37	---
TOTAL	6,452	20,863	15,477	13,925	5,960	5,179	10,803	3,117	2,092	2,036	1,212	1,149
MEAN	208	695	499	449	213	167	360	101	69.7	65.7	39.1	38.3
MAX	488	4,310	1,110	2,180	310	521	703	143	85	144	60	172
MIN	64	192	233	120	134	97	155	73	56	43	35	30
AC-FT	12,800	41,380	30,700	27,620	11,820	10,270	21,430	6,180	4,150	4,040	2,400	2,280
CFSM	2.37	7.92	5.69	5.12	2.42	1.90	4.10	1.15	0.79	0.75	0.45	0.44
IN.	2.73	8.84	6.56	5.90	2.53	2.19	4.58	1.32	0.89	0.86	0.51	0.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2005, BY WATER YEAR (WY)

MEAN	148	329	454	504	451	350	285	175	107	58.7	39.1	47.3
MAX	497	695	893	992	988	698	477	328	208	156	84.4	134
(WY)	(1957)	(2005)	(2000)	(1971)	(1961)	(1950)	(1959)	(2000)	(2000)	(1999)	(2004)	(1959)
MIN	25.5	30.4	89.2	203	213	167	132	84.3	41.2	23.0	18.9	17.6
(WY)	(1953)	(1953)	(1953)	(1949)	(2005)	(2005)	(2004)	(1958)	(1958)	(1958)	(2003)	(2003)

12201500 SAMISH RIVER NEAR BURLINGTON, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1943 - 2005	
ANNUAL TOTAL	96,649		88,265			
ANNUAL MEAN	264		242		245	
HIGHEST ANNUAL MEAN					340	1997
LOWEST ANNUAL MEAN					123	1944
HIGHEST DAILY MEAN	4,310	Nov 25	4,310	Nov 25	5,020	Dec 28, 1949
LOWEST DAILY MEAN	21	Aug 20	30	Sep 26	15	Sep 5, 2003
ANNUAL SEVEN-DAY MINIMUM	22	Aug 14	31	Sep 22	16	Aug 31, 2003
ANNUAL RUNOFF (AC-FT)	191,700		175,100		177,300	
ANNUAL RUNOFF (CFSM)	3.01		2.75		2.79	
ANNUAL RUNOFF (INCHES)	40.95		37.40		37.88	
10 PERCENT EXCEEDS	524		520		532	
50 PERCENT EXCEEDS	182		134		170	
90 PERCENT EXCEEDS	38		36		31	

12201960 BRANNIAN CREEK AT SOUTH BAY DRIVE, NEAR WICKERSHAM, WA

LOCATION.--Lat 48°40'09", long 122°16'44", in SE¼NW¼ sec.27, T.37 N., R.3 E., Whatcom County, Hydrologic Unit 17110002, on right bank 200 ft downstream from South Bay Drive on the southeast shore of Lake Whatcom, 11 mi southeast of Bellingham and at mile 0.3.

DRAINAGE AREA.--3.36 mi^2.

PERIOD OF RECORD.--October 2001 to current year.

REVISED RECORD.--WDR WA-03-01: 2002.

GAGE.--Water-stage recorder. Elevation of gage is 330 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges and discharges below 1 ft^3/s and above 100 ft^3/s, which are fair.

AVERAGE DISCHARGE.--4 years (water years 2002-05) 9.64 ft^3/s, 38.99 in/yr, 6,980 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 891 ft^3/s, Nov. 25, 2004, gage height, 7.76 ft; minimum discharge, no flow, July 21 to Sept. 30, 2003, Oct. 1-6, 8, 2003, and July 30 to Aug. 20, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 891 ft^3/s, Nov. 25, gage height, 7.76 ft; minimum discharge, unknown.

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	1.5	6.3	13	9.3	13	6.4	18	3.3	1.0	e0.44	e0.28	e0.28
2	1.4	58	11	7.8	12	5.4	15	3.1	0.88	e0.42	e0.24	e0.24
3	1.3	34	9.7	6.8	11	4.8	17	3.0	0.81	e0.38	e0.19	e0.22
4	1.3	20	21	5.9	16	4.5	24	2.7	0.74	e0.35	e0.17	e0.20
5	1.6	15	48	5.2	15	4.3	16	2.5	1.0	e0.36	e0.16	e0.19
6	1.9	17	29	4.9	16	3.9	12	2.3	0.87	e1.0	e0.16	e0.17
7	1.3	19	24	4.7	15	3.9	12	2.1	0.84	e0.68	e0.16	e0.15
8	7.0	15	26	4.2	14	3.7	12	2.0	1.1	e2.3	e0.16	e0.14
9	27	12	24	3.8	13	3.6	9.6	2.2	0.90	e15	e0.15	e0.15
10	11	10	43	3.4	12	3.4	8.7	1.9	0.73	e6.4	e0.15	e0.21
11	6.3	9.2	44	3.1	11	3.1	24	1.7	0.72	e3.5	e0.16	e0.18
12	4.5	8.2	28	3.2	13	2.8	25	1.6	0.84	e2.4	e0.16	e0.16
13	3.6	7.7	21	2.9	13	2.7	20	1.5	0.77	e1.8	e0.14	e0.15
14	3.1	8.5	25	2.5	13	2.6	16	1.6	0.66	e1.4	e0.13	e0.15
15	2.7	12	26	2.3	11	2.3	14	1.8	0.58	e1.3	e0.12	e0.15
16	5.0	12	19	5.1	11	3.4	28	2.0	e0.55	e1.3	e0.13	e0.19
17	7.6	11	15	37	10	3.9	24	2.0	e0.65	e1.0	e1.0	e0.21
18	13	31	12	122	9.4	3.3	17	2.1	e0.60	e0.80	e0.35	e0.19
19	9.8	34	11	78	8.8	3.3	12	2.2	e0.55	e0.70	e0.24	e0.18
20	6.8	21	8.9	54	8.3	5.0	10	1.8	e0.50	e0.60	e0.21	e0.18
21	5.6	16	7.8	43	7.6	5.2	8.5	1.8	e0.55	e0.50	e0.20	e0.17
22	6.0	14	6.9	40	7.2	4.2	7.4	1.8	e0.80	e0.50	e0.19	e0.17
23	6.5	14	5.9	36	6.9	3.8	7.4	1.5	e0.60	e0.44	e0.17	e0.17
24	6.2	272	5.4	28	6.4	3.5	6.5	1.4	e0.50	e0.43	e0.17	e0.16
25	5.3	303	24	23	5.9	3.3	5.8	1.3	e0.52	e0.39	e0.16	e0.17
26	4.2	50	34	20	5.8	6.4	5.2	1.2	e0.47	e0.38	e0.15	e0.17
27	3.4	35	22	18	5.3	6.9	4.7	1.1	e0.56	e0.34	e0.14	e0.18
28	3.0	24	16	16	5.1	19	4.2	0.96	e0.52	e0.30	e0.29	e0.19
29	2.9	19	14	15	---	32	3.9	0.88	e0.47	e0.33	e0.79	e2.8
30	4.2	16	12	14	---	21	3.7	0.87	e0.46	e0.30	e0.35	1.5
31	3.3	---	11	14	---	16	---	1.2	---	e0.25	e0.36	---
TOTAL	168.3	1,123.9	617.6	633.1	295.7	197.6	391.6	57.41	20.74	46.29	7.43	9.37
MEAN	5.43	37.5	19.9	20.4	10.6	6.37	13.1	1.85	0.69	1.49	0.24	0.31
MAX	27	303	48	122	16	32	28	3.3	1.1	15	1.0	2.8
MIN	1.3	6.3	5.4	2.3	5.1	2.3	3.7	0.87	0.46	0.25	0.12	0.14
AC-FT	334	2,230	1,230	1,260	587	392	777	114	41	92	15	19
CFSM	1.62	11.1	5.93	6.08	3.14	1.90	3.88	0.55	0.21	0.44	0.07	0.09
IN.	1.86	12.44	6.84	7.01	3.27	2.19	4.34	0.64	0.23	0.51	0.08	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	6.39	23.3	19.4	19.5	15.1	13.0	12.7	3.00	1.67	0.84	0.39	0.91
MAX	12.2	38.8	36.6	21.8	25.3	16.0	17.8	5.11	3.05	1.49	0.97	3.00
(WY)	(2004)	(2004)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2004)	(2005)	(2004)	(2004)
MIN	0.36	3.42	7.90	16.4	10.1	6.37	4.04	1.61	0.69	0.18	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2004)	(2005)	(2004)	(2004)	(2005)	(2003)	(2003)	(2003)

12201960 BRANNIAN CREEK AT SOUTH BAY DRIVE, NEAR WICKERSHAM, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	3,729.10		3,569.04			
ANNUAL MEAN	10.2		9.78		9.64	
HIGHEST ANNUAL MEAN					12.1	2002
LOWEST ANNUAL MEAN					6.44	2003
HIGHEST DAILY MEAN	303	Nov 25	303	Nov 25	303	Nov 25, 2004
LOWEST DAILY MEAN	0.00	Jul 30	0.12	Aug 15	0.00	Jul 21, 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 30	0.14	Aug 10	0.00	Jul 21, 2003
ANNUAL RUNOFF (AC-FT)	7,400		7,080		6,980	
ANNUAL RUNOFF (CFSM)	3.03		2.91		2.87	
ANNUAL RUNOFF (INCHES)	41.29		39.51		38.99	
10 PERCENT EXCEEDS	24		23		23	
50 PERCENT EXCEEDS	4.7		3.6		4.2	
90 PERCENT EXCEEDS	0.33		0.19		0.16	

e Estimated

12202300 OLSEN CREEK NEAR BELLINGHAM, WA

LOCATION.--Lat 48°45'05", long 122°21'08", in NW¼SW¼ sec.30, T.38 N., R.4 E., Whatcom County, Hydrologic Unit 17110002, on left bank at downstream side of bridge on North Shore Road, 500 ft upstream from mouth and Lake Whatcom, and 5.8 mi east of Court House in Bellingham.

DRAINAGE AREA.--3.78 mi^2.

PERIOD OF RECORD.--November 1967 to September 1969, annual maximum, water years 1970-74. October 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 311.8 ft above NGVD of 1929, from survey to Lake Whatcom, City of Bellingham Lake elevation. Prior to 1975 gage at elevation 5.49 ft lower.

REMARKS.--Records fair except for periods Nov. 25 to Dec. 15, Jan. 17 to Mar. 21, and Apr. 12 to June 6, and flows above 200 ft^3/s, which are poor. No known regulation. Diversion rights above station for irrigation and domestic use.

AVERAGE DISCHARGE.--5 years (water years 1969, 2002-05) 10.8 ft^3/s, 38.68 in/yr, 7,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,840 ft^3/s, Nov. 19, 2003, gage height, 7.41 ft; maximum gage height, 7.70 ft, Nov. 24, 2004; minimum discharge, 0.13 ft^3/s, Oct. 1, 2003.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 10, 1983, was the highest ever seen by local residents and included flow over the road at gage, elevation 15 ft. Flood documented in USGS letter report by G.T. Higgins, Jan. 16, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 180 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 24	2300	*3,680	*7.70	Jan 18	1415	311	5.95
Dec 11	0015	215	5.77				

Minimum discharge, 0.33 ft^3/s, Aug. 14, 15, gage height, 4.20 ft.

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	1.3	8.3	15	14	6.5	3.7	14	4.0	1.8	1.1	0.71	0.72
2	1.1	60	15	12	6.3	3.1	15	3.9	1.9	0.99	0.64	0.65
3	1.0	28	15	11	6.3	3.1	15	4.0	1.8	0.88	0.55	0.61
4	0.98	17	21	10	12	2.9	14	3.6	1.7	0.80	0.52	0.57
5	0.99	12	33	9.4	15	3.1	15	3.3	2.2	0.85	0.50	0.56
6	1.5	17	25	9.1	14	2.7	12	3.0	1.9	2.4	0.49	0.53
7	1.1	25	24	8.9	12	2.8	11	2.9	1.6	1.7	0.49	0.49
8	15	19	37	8.1	11	2.8	9.6	3.0	2.7	4.8	0.49	0.46
9	26	14	39	7.4	9.2	2.8	7.9	3.5	2.4	30	0.47	0.48
10	15	11	115	7.0	8.5	2.4	6.9	2.9	1.9	12	0.46	0.61
11	12	8.4	98	6.7	7.9	2.3	14	2.7	1.8	6.5	0.51	0.54
12	8.0	6.7	39	6.7	8.8	2.2	14	2.6	2.0	4.3	0.49	0.51
13	5.8	5.9	28	6.0	9.0	2.0	15	2.6	1.8	3.1	0.45	0.49
14	4.5	6.5	23	5.0	8.3	1.8	15	2.8	1.6	2.4	0.43	0.49
15	4.1	11	16	5.5	7.6	1.8	16	3.1	1.5	2.3	0.40	0.48
16	12	9.1	14	9.1	6.8	2.4	54	3.5	1.4	2.2	0.41	0.56
17	15	7.9	15	41	6.6	2.4	48	3.2	1.6	1.8	2.1	0.59
18	19	19	16	144	5.6	2.2	30	3.5	1.5	1.4	0.82	0.56
19	15	26	15	72	5.4	2.8	21	4.4	1.3	1.3	0.64	0.56
20	11	18	13	64	5.4	7.5	16	3.6	1.1	1.1	0.58	0.56
21	11	14	12	44	4.4	7.8	13	3.1	1.2	0.99	0.56	0.54
22	9.8	12	11	24	4.8	5.6	10	2.9	1.9	0.98	0.56	0.54
23	11	15	10	16	4.3	4.6	8.8	2.4	1.5	0.90	0.53	0.53
24	11	676	9.5	15	3.7	3.9	8.1	2.2	1.2	0.90	0.52	0.52
25	9.5	743	14	15	3.5	3.4	7.3	2.1	1.3	0.85	0.49	0.53
26	7.3	67	14	12	3.5	7.7	6.1	1.9	1.1	0.84	0.47	0.53
27	5.5	41	14	11	3.7	7.5	5.5	1.7	1.4	0.78	0.46	0.54
28	4.6	25	15	9.6	3.5	14	4.9	1.6	1.3	0.72	0.73	0.55
29	4.4	20	16	8.1	---	15	4.2	1.4	1.2	0.77	1.6	5.8
30	7.2	16	16	8.1	---	15	4.3	1.5	1.1	0.73	0.83	3.3
31	5.1	---	16	8.2	---	14	---	1.9	---	0.66	0.85	---
TOTAL	256.77	1,958.8	763.5	627.9	203.6	155.3	435.6	88.8	48.7	91.04	19.75	24.40
MEAN	8.28	65.3	24.6	20.3	7.27	5.01	14.5	2.86	1.62	2.94	0.64	0.81
MAX	26	743	115	144	15	15	54	4.4	2.7	30	2.1	5.8
MIN	0.98	5.9	9.5	5.0	3.5	1.8	4.2	1.4	1.1	0.66	0.40	0.46
AC-FT	509	3,890	1,510	1,250	404	308	864	176	97	181	39	48
CFSM	2.19	17.3	6.52	5.36	1.92	1.33	3.84	0.76	0.43	0.78	0.17	0.22
IN.	2.53	19.28	7.51	6.18	2.00	1.53	4.29	0.87	0.48	0.90	0.19	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)

MEAN	10.9	28.0	22.4	17.7	15.9	11.5	11.5	3.75	2.41	1.46	1.27	2.71
MAX	31.0	65.3	43.2	20.3	33.5	15.6	17.3	5.37	5.34	2.94	2.95	5.37
(WY)	(2004)	(2005)	(2002)	(2005)	(2002)	(1969)	(1969)	(1969)	(1968)	(2005)	(1968)	(1968)
MIN	0.50	3.12	6.52	14.9	7.27	5.01	2.77	2.34	1.13	0.52	0.22	0.35
(WY)	(2003)	(2003)	(2003)	(1969)	(2005)	(2005)	(2004)	(2004)	(2003)	(2004)	(2003)	(2003)

12202300 OLSEN CREEK NEAR BELLINGHAM, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005	
ANNUAL TOTAL	4,741.63		4,674.16			
ANNUAL MEAN	13.0		12.8		10.8	
HIGHEST ANNUAL MEAN					13.3	2004
LOWEST ANNUAL MEAN					5.20	2003
HIGHEST DAILY MEAN	743	Nov 25	743	Nov 25	951	Nov 19, 2003
LOWEST DAILY MEAN	0.25	Aug 16	0.40	Aug 15	0.15	Sep 5, 2003
ANNUAL SEVEN-DAY MINIMUM	0.26	Aug 14	0.45	Aug 10	0.17	Aug 31, 2003
ANNUAL RUNOFF (AC-FT)	9,410		9,270		7,800	
ANNUAL RUNOFF (CFSM)	3.43		3.39		2.85	
ANNUAL RUNOFF (INCHES)	46.66		46.00		38.68	
10 PERCENT EXCEEDS	20		18		20	
50 PERCENT EXCEEDS	5.1		4.3		4.5	
90 PERCENT EXCEEDS	0.56		0.56		0.45	

12202310 CARPENTER CREEK NEAR BELLINGHAM, WA

LOCATION.--Lat 48°45'15", long 122°21'10", in SW¼NW¼ sec.30, T.38 N., R.4 E., Whatcom County, Hydrologic Unit 17110002, on left bank 60 ft upstream from North Shore Drive, 8.2 mi east of Bellingham, and 0.1 mi upstream from Lake Whatcom.

DRAINAGE AREA.--1.17 mi^2.

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except Oct. 9 to May 5 and estimated daily discharges, which are poor. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--3 years (water years 2003-05), 2.39 ft^3/s, 27.75 in/yr, 1,730 acre-ft/yr. The figure for acre-ft/yr, published in the 2004 report was in error; the correct figure is 1,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 87 ft^3/s, Nov. 25, 2004, maximum gage height, 9.82 ft, Nov. 19, 2003, backwater from culvert; minimum daily discharge, no flow on many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 87 ft^3/s, Nov. 25, maximum gage height, 9.35 ft, backwater from culvert; minimum discharge, no flow many days.

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	0.08	2.7	2.7	e2.3	1.3	0.85	3.8	0.57	0.19	0.03	0.03	0.01
2	0.07	9.0	3.3	e2.0	1.3	0.69	2.3	0.54	0.14	0.03	0.03	0.01
3	0.07	4.7	4.1	e1.7	e1.4	0.51	2.7	0.62	0.13	0.03	0.02	0.01
4	0.07	2.2	10	e1.5	e11	0.55	6.2	0.57	0.10	0.03	0.02	0.00
5	0.07	2.3	12	e1.3	e3.0	0.75	2.7	0.56	0.20	0.04	0.01	0.01
6	0.12	3.9	3.9	e1.3	e7.0	0.59	2.8	0.39	0.18	0.13	0.01	0.01
7	0.09	5.4	12	e1.3	e4.5	0.67	2.8	0.35	0.13	0.08	0.01	0.00
8	1.8	4.5	31	e1.1	e2.6	0.53	1.9	0.33	0.27	0.12	0.01	0.01
9	5.8	3.1	27	e1.0	e2.1	0.78	1.7	0.47	0.23	3.6	0.01	0.01
10	4.0	2.4	62	e0.95	e1.9	0.64	1.6	0.38	0.14	0.83	0.02	0.02
11	3.3	1.6	33	e0.95	e1.7	0.54	12	0.33	0.12	0.47	0.02	0.01
12	2.5	1.4	3.4	e1.0	e1.8	0.46	19	0.34	0.16	0.27	0.03	0.01
13	2.1	1.5	10	e0.90	e1.6	0.33	14	0.31	0.12	0.19	0.03	0.01
14	1.8	1.8	15	e0.80	e1.5	0.30	11	0.33	0.10	0.14	0.03	0.02
15	1.7	4.1	7.3	e0.80	e1.4	0.36	4.9	0.44	0.07	0.14	0.02	0.02
16	2.2	3.2	3.1	e2.6	e1.3	0.51	18	0.54	0.06	0.14	0.03	0.03
17	3.1	2.2	3.0	35	e1.2	0.54	22	0.44	0.09	0.11	0.13	0.03
18	4.1	4.8	3.3	61	e1.1	0.44	11	0.50	0.08	0.07	0.05	0.02
19	3.5	4.5	2.9	43	e1.0	0.66	3.1	0.60	0.07	0.05	0.03	0.02
20	2.3	2.2	1.5	39	e0.85	3.1	2.7	0.54	0.04	0.03	0.03	0.03
21	2.9	2.0	1.7	28	e0.75	3.5	5.5	0.43	0.05	0.02	0.02	0.03
22	2.6	2.5	1.1	22	e0.70	2.0	3.8	0.33	0.10	0.02	0.02	0.04
23	2.9	2.8	0.68	12	e0.65	1.9	2.3	0.29	0.08	0.03	0.02	0.03
24	3.0	40	1.0	5.1	e0.60	1.3	1.7	0.24	0.04	0.04	0.02	0.03
25	2.7	87	13	2.9	e0.58	1.3	1.3	0.20	0.05	0.04	0.01	0.04
26	2.1	27	22	2.4	e0.56	6.6	1.1	0.17	0.06	0.03	0.01	0.05
27	1.5	17	4.9	2.3	e0.54	3.9	0.78	0.14	0.09	0.03	0.01	0.05
28	1.3	6.4	2.0	1.3	0.51	6.9	0.79	0.12	0.08	0.03	0.04	0.06
29	1.6	2.1	2.8	1.4	---	7.8	0.57	0.11	0.05	0.02	0.05	0.18
30	2.9	3.1	3.1	1.4	---	4.3	0.62	0.11	0.04	0.02	0.03	0.11
31	1.9	---	e2.6	1.6	---	3.4	---	0.17	---	0.02	0.02	---
TOTAL	64.17	257.4	305.38	279.90	54.44	56.70	164.66	11.46	3.26	6.83	0.82	0.91
MEAN	2.07	8.58	9.85	9.03	1.94	1.83	5.49	0.37	0.11	0.22	0.03	0.03
MAX	5.8	87	62	61	11	7.8	22	0.62	0.27	3.6	0.13	0.18
MIN	0.07	1.4	0.68	0.80	0.51	0.30	0.57	0.11	0.04	0.02	0.01	0.00
AC-FT	127	511	606	555	108	112	327	23	6.5	14	1.6	1.8
CFSM	1.77	7.33	8.42	7.72	1.66	1.56	4.69	0.32	0.09	0.19	0.02	0.03
IN.	2.04	8.18	9.71	8.90	1.73	1.80	5.24	0.36	0.10	0.22	0.03	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	1.87	5.35	5.08	6.58	3.19	2.63	2.96	0.58	0.17	0.08	0.05	0.11
MAX	3.51	8.58	9.85	9.03	4.32	3.10	5.49	1.06	0.24	0.22	0.16	0.39
(WY)	(2004)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)	(2003)	(2004)	(2005)	(2004)	(2004)
MIN	0.01	0.30	1.67	5.03	1.94	1.83	0.56	0.31	0.11	0.03	0.01	0.01
(WY)	(2003)	(2003)	(2003)	(2003)	(2005)	(2005)	(2004)	(2004)	(2005)	(2003)	(2003)	(2002)

12202310 CARPENTER CREEK NEAR BELLINGHAM, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	1,076.28		1,205.93			
ANNUAL MEAN	2.94		3.30		2.39	
HIGHEST ANNUAL MEAN					3.30	2005
LOWEST ANNUAL MEAN					1.43	2003
HIGHEST DAILY MEAN	87	Nov 25	87	Nov 25	87	Nov 25, 2004
LOWEST DAILY MEAN	0.00	Aug 11	0.00	Sep 4	0.00	Aug 23, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 11	0.01	Sep 1	0.00	Aug 23, 2002
ANNUAL RUNOFF (AC-FT)	2,130		2,390		1,730	
ANNUAL RUNOFF (CFSM)	2.51		2.82		2.04	
ANNUAL RUNOFF (INCHES)	34.22		38.34		27.75	
10 PERCENT EXCEEDS	6.0		6.5		5.3	
50 PERCENT EXCEEDS	1.0		0.69		0.58	
90 PERCENT EXCEEDS	0.03		0.02		0.01	

e Estimated

12202400 EUCLID CREEK AT EUCLID AVENUE, AT BELLINGHAM, WA

LOCATION.--Lat 48°44'56", long 122°24'29", in SW¼SW¼ sec.27, T.38 N., R.3 E., Whatcom County, Hydrologic Unit 17110002, on left bank 50 ft upstream from Euclid Avenue, 3.2 mi east of the City of Bellingham, and 320 ft upstream from mouth at Lake Whatcom.

DRAINAGE AREA.--0.54 mi^2.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair, except estimated discharges and those above 30 ft^3/s, which are poor. Natural flow may be affected by upstream urbanization.

AVERAGE DISCHARGE.--4 years (water year 2002-05) 0.51 ft^3/s, 12.75 in/yr, 367 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, 50 ft^3/s, Nov. 2, 2004; gage height, 4.90 ft, but may have been higher during period of estimated record Nov. 22 to Dec. 15, 2004; minimum discharge, no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 50 ft^3/s, Nov. 2, gage height, 4.90 ft, but may have been higher during period of estimated record Nov. 22 to Dec. 15; minimum discharge, no flow, on many days.

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	e0.05	1.3	e0.60	0.64	e0.30	e1.9	1.4	0.04	0.04	0.01	0.01	0.01
2	e0.04	22	e0.50	0.52	e0.25	e1.5	1.1	0.03	0.01	0.00	0.00	0.01
3	e0.03	2.0	e0.45	0.47	e0.23	e1.1	1.6	0.03	0.01	0.00	0.00	0.00
4	e0.03	0.92	e1.0	0.43	e0.90	e1.0	1.5	0.03	0.01	0.00	0.00	0.00
5	e0.04	0.59	e2.2	0.47	e0.75	e0.90	0.99	0.03	0.02	0.01	0.00	0.00
6	0.04	1.6	e1.4	0.54	e0.90	e0.85	0.81	0.03	0.01	0.03	0.00	0.00
7	0.04	1.4	e1.1	0.56	e0.90	e0.85	0.82	0.03	0.01	0.01	0.00	0.00
8	5.1	0.83	e1.2	0.36	e0.85	e0.80	0.68	0.03	0.02	0.02	0.00	0.00
9	3.1	0.58	e1.1	0.33	e0.80	e0.75	0.52	0.04	0.01	0.13	0.00	0.00
10	0.72	0.45	e2.0	0.40	e0.75	e0.70	0.58	0.03	0.01	0.03	0.00	0.01
11	0.38	0.37	e2.0	0.36	e0.70	e0.65	3.0	0.02	0.01	0.03	0.00	0.00
12	0.30	0.32	e1.3	0.42	e1.3	e0.55	3.7	0.02	0.01	0.03	0.00	0.00
13	0.23	0.30	e1.0	0.39	e1.6	e0.50	1.4	0.02	0.01	0.02	0.00	0.00
14	0.18	0.49	e1.2	0.40	e1.5	e0.50	0.70	0.03	0.01	0.02	0.00	0.00
15	0.17	1.4	e1.2	0.34	e1.4	e0.40	0.56	0.03	0.01	0.03	0.00	0.00
16	0.21	0.62	0.76	0.68	e1.4	e0.70	1.9	0.03	0.01	0.03	0.00	0.01
17	0.48	0.53	0.80	6.6	e1.4	e0.90	1.5	0.03	0.01	0.02	0.12	0.00
18	0.74	2.7	0.59	9.4	e1.3	e0.60	0.83	0.03	0.01	0.02	0.01	0.00
19	0.52	2.6	0.46	5.5	e1.2	e0.60	0.57	0.03	0.01	0.01	0.01	0.00
20	0.37	1.1	0.42	5.7	e1.2	e1.4	0.35	0.02	0.00	0.01	0.01	0.00
21	0.33	0.76	0.36	2.9	e1.1	e1.5	0.22	0.02	0.02	0.01	0.01	0.00
22	0.34	e0.66	0.32	2.0	e1.1	0.70	0.18	0.02	0.01	0.01	0.00	0.00
23	0.35	e0.69	0.29	1.2	e1.1	0.48	0.14	0.02	0.01	0.01	0.00	0.00
24	0.33	e24	0.27	e0.80	e1.0	0.36	0.11	0.02	0.00	0.01	0.00	0.00
25	0.28	e40	2.2	e0.60	e0.95	0.29	0.09	0.02	0.03	0.00	0.00	0.00
26	0.22	e2.4	2.7	e0.50	e0.90	0.99	0.07	0.02	0.01	0.00	0.00	0.00
27	0.18	e1.6	1.6	e0.40	e0.85	0.76	0.06	0.01	0.02	0.00	0.00	0.00
28	0.17	e1.2	1.1	e0.37	e0.80	1.1	0.05	0.01	0.01	0.00	0.04	0.00
29	0.18	e0.90	0.96	e0.35	---	1.3	0.04	0.01	0.01	0.00	0.02	0.12
30	0.23	e0.76	0.80	e0.33	---	0.91	0.04	0.01	0.01	0.00	0.01	0.03
31	0.16	---	0.80	e0.31	---	0.78	---	0.02	---	0.00	0.01	---
TOTAL	15.54	115.07	32.68	44.27	27.43	26.32	25.51	0.76	0.37	0.50	0.25	0.19
MEAN	0.50	3.84	1.05	1.43	0.98	0.85	0.85	0.02	0.01	0.02	0.01	0.01
MAX	5.1	40	2.7	9.4	1.6	1.9	3.7	0.04	0.04	0.13	0.12	0.12
MIN	0.03	0.30	0.27	0.31	0.23	0.29	0.04	0.01	0.00	0.00	0.00	0.00
AC-FT	31	228	65	88	54	52	51	1.5	0.7	1.0	0.5	0.4
CFSM	0.93	7.10	1.95	2.64	1.81	1.57	1.57	0.05	0.02	0.03	0.01	0.01
IN.	1.07	7.93	2.25	3.05	1.89	1.81	1.76	0.05	0.03	0.03	0.02	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	0.37	1.46	1.08	1.04	0.81	0.68	0.51	0.07	0.03	0.01	0.01	0.04
MAX	0.77	3.84	2.26	1.43	1.31	0.85	0.85	0.14	0.05	0.02	0.05	0.14
(WY)	(2004)	(2005)	(2002)	(2005)	(2002)	(2005)	(2005)	(2002)	(2002)	(2005)	(2004)	(2004)
MIN	0.02	0.17	0.37	0.70	0.37	0.51	0.10	0.02	0.01	0.00	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2004)	(2004)	(2003)	(2004)	(2005)	(2003)	(2004)	(2002)	(2002)

12202400 EUCLID CREEK AT EUCLID AVENUE, AT BELLINGHAM, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	226.03		288.89			
ANNUAL MEAN	0.62		0.79		0.51	
HIGHEST ANNUAL MEAN					0.79	2005
LOWEST ANNUAL MEAN					0.26	2003
HIGHEST DAILY MEAN	40	Nov 25	40	Nov 25	40	Nov 25, 2004
LOWEST DAILY MEAN	0.00	Jul 1	0.00	Jun 20	0.00	Jul 1, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 11	0.00	Jul 25	0.00	Jul 1, 2002
MAXIMUM PEAK FLOW					61	Dec 14, 2001
MAXIMUM PEAK STAGE					4.86	Dec 14, 2001
ANNUAL RUNOFF (AC-FT)	448		573		367	
ANNUAL RUNOFF (CFSM)	1.14		1.47		0.938	
ANNUAL RUNOFF (INCHES)	15.57		19.90		12.75	
10 PERCENT EXCEEDS	1.1		1.4		1.2	
50 PERCENT EXCEEDS	0.16		0.27		0.14	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

12202420 MILL CREEK NEAR BELLINGHAM, WA

LOCATION.--Lat 48°45'19", long 122°24'55", in SE¼NW¼ sec.27, T.38 N., R.4 E., Whatcom County, Hydrologic Unit 17110002, on left bank 30 ft upstream from Lakeview Avenue, 50 ft downstream from small dam and pond, 3.0 mi from City of Bellingham and 0.2 mi upstream from mouth at Lake Whatcom.

DRAINAGE AREA.--0.79 mi^2.

PERIOD OF RECORD.--June 2002 to current year. Water year 2003 published as "at Bellingham."

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except those from Oct. 1 to Mar. 20, which are poor. Regulation and diversion at the upstream dam and pond during summer months. Basin affected by urbanization.

AVERAGE DISCHARGE.--3 years (water years 2003-2005), 0.89 ft/s, 15.28 in/yr, 644 acre-feet/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27 ft^3/s, Nov. 25, 2004, gage height, 3.28 ft; minimum discharge, no flow, many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft^3/s, Nov. 25, gage height, 3.28 ft; minimum discharge, no flow on many days in July, Aug. and Sept.

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	0.10	1.4	1.4	1.3	0.90	0.73	3.0	0.20	0.07	0.04	0.00	0.00
2	0.11	6.0	1.2	1.1	0.84	0.52	2.4	0.20	0.05	0.04	0.00	0.00
3	0.11	2.9	1.1	1.00	0.94	0.45	3.3	0.21	0.02	0.04	0.00	0.00
4	0.10	2.1	2.5	0.87	3.4	0.62	2.7	0.18	0.02	0.03	0.00	0.00
5	0.11	1.6	5.0	0.76	2.2	0.64	2.2	0.19	0.13	0.03	0.00	0.00
6	0.16	2.8	3.2	0.78	2.9	0.46	1.9	0.16	0.08	0.30	0.00	0.00
7	0.13	2.6	3.0	0.83	2.5	0.48	2.0	0.12	0.10	0.14	0.00	0.00
8	2.9	1.9	3.2	0.71	2.1	0.41	1.6	0.11	0.21	0.17	0.00	0.00
9	2.0	1.5	3.6	0.62	1.8	0.48	1.3	0.20	0.11	0.48	0.00	0.00
10	0.88	1.2	9.1	0.59	1.7	0.41	1.4	0.12	0.11	0.10	0.00	0.00
11	0.66	1.1	7.9	0.52	1.6	0.40	5.9	0.10	0.07	0.06	0.00	0.00
12	0.55	0.96	4.1	0.49	1.7	0.38	6.9	0.09	0.19	0.02	0.00	0.00
13	0.50	0.90	2.9	0.37	1.6	0.36	3.4	0.08	0.10	0.01	0.00	0.00
14	0.44	1.2	3.3	0.30	1.5	0.34	2.1	0.11	0.05	0.01	0.00	0.00
15	0.44	1.9	2.5	0.23	1.3	0.36	1.8	0.11	0.05	0.01	0.00	0.00
16	0.60	1.7	2.0	1.2	1.2	0.95	4.4	0.18	0.04	0.01	0.00	0.00
17	1.1	1.4	1.8	7.8	1.1	0.63	3.3	0.14	0.04	0.01	0.04	0.00
18	1.4	3.6	1.7	11	1.1	0.56	2.2	0.18	0.08	0.00	0.00	0.00
19	0.98	3.2	1.4	9.2	0.98	0.75	1.6	0.14	0.06	0.00	0.00	0.00
20	0.74	2.2	1.1	9.4	0.83	2.4	1.2	0.10	0.03	0.00	0.00	0.00
21	0.75	1.7	1.00	6.0	0.74	2.8	0.97	0.09	0.05	0.00	0.00	0.00
22	0.74	1.5	0.85	4.8	0.64	1.7	0.81	0.09	0.15	0.00	0.00	0.00
23	0.85	1.7	0.75	3.4	0.60	1.3	0.67	0.08	0.07	0.00	0.00	0.00
24	0.75	13	0.75	2.7	0.56	1.0	0.56	0.06	0.03	0.00	0.00	0.00
25	0.63	14	3.6	2.1	0.54	0.86	0.47	0.04	0.22	0.00	0.00	0.00
26	0.56	5.7	3.6	1.8	0.52	2.8	0.40	0.03	0.06	0.00	0.00	0.00
27	0.50	3.5	2.7	1.5	0.52	2.0	0.33	0.03	0.13	0.00	0.00	0.00
28	0.40	2.4	2.2	1.3	0.52	2.4	0.27	0.02	0.09	0.00	0.00	0.00
29	0.48	2.0	2.0	1.1	---	2.8	0.28	0.01	0.06	0.00	0.00	0.00
30	0.78	1.8	1.8	1.1	---	2.2	0.25	0.01	0.05	0.00	0.00	0.01
31	0.47	---	1.6	1.1	---	2.1	---	0.03	---	0.00	0.00	---
TOTAL	20.92	89.46	82.85	75.97	36.83	34.29	59.61	3.41	2.52	1.50	0.04	0.01
MEAN	0.67	2.98	2.67	2.45	1.32	1.11	1.99	0.11	0.08	0.05	0.00	0.00
MAX	2.9	14	9.1	11	3.4	2.8	6.9	0.21	0.22	0.48	0.04	0.01
MIN	0.10	0.90	0.75	0.23	0.52	0.34	0.25	0.01	0.02	0.00	0.00	0.00
AC-FT	41	177	164	151	73	68	118	6.8	5.0	3.0	0.08	0.02
CFSM	0.85	3.77	3.38	3.10	1.67	1.40	2.52	0.14	0.11	0.06	0.00	0.00
IN.	0.99	4.21	3.90	3.58	1.73	1.61	2.81	0.16	0.12	0.07	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	0.83	1.72	1.60	2.32	1.30	1.14	1.16	0.21	0.12	0.03	0.08	0.11
MAX	1.81	2.98	2.67	2.45	1.41	1.17	1.99	0.30	0.20	0.07	0.29	0.41
(WY)	(2004)	(2005)	(2005)	(2005)	(2003)	(2003)	(2005)	(2003)	(2004)	(2003)	(2004)	(2004)
MIN	0.00	0.19	0.95	2.17	1.19	1.11	0.20	0.11	0.07	0.00	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2003)	(2004)	(2005)	(2004)	(2005)	(2003)	(2004)	(2002)	(2002)

12202420 MILL CREEK NEAR BELLINGHAM, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	375.03		407.41			
ANNUAL MEAN	1.02		1.12		0.89	
HIGHEST ANNUAL MEAN					1.12	2005
LOWEST ANNUAL MEAN					0.63	2003
HIGHEST DAILY MEAN	14	Nov 25	14	Nov 25	14	Nov 25, 2004
LOWEST DAILY MEAN	0.00	Jun 29	0.00	Jul 18	0.00	Jul 13, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 29	0.00	Jul 18	0.00	Jul 13, 2002
ANNUAL RUNOFF (AC-FT)	744		808		644	
ANNUAL RUNOFF (CFSM)	1.30		1.41		1.12	
ANNUAL RUNOFF (INCHES)	17.66		19.18		15.28	
10 PERCENT EXCEEDS	2.7		2.9		2.4	
50 PERCENT EXCEEDS	0.46		0.48		0.33	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

12202450 SILVER BEACH CREEK AT MAYNARD PLACE, AT BELLINGHAM, WA

LOCATION.--Lat 48°46'10", long 122°24'19", in SW¼NE¼ sec.22, T.38 N., R.3 E., Whatcom County, Hydrologic Unit 17110002, on left bank at Maynard Place subdivision, 3.5 mi east of Post Office in Bellingham, and 0.1 m upstream from mouth at Lake Whatcom.

DRAINAGE AREA.--1.20 mi^2.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Probably some diversion upstream for domestic use, and other effects from urbanization.

AVERAGE DISCHARGE.--4 years (water year 2002-05) 1.48 ft^3/s, 16.76 in/yr, 1,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71 ft^3/s, Nov. 24, 2004, gage height, 6.58 ft; minimum discharge, no flow, many days June and July 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft^3/s, Nov. 24, gage height, 6.58 ft; minimum discharge, 0.01 ft^3/s, on July, 23, 24, 27, 29, 31, and Aug. 3-9, 11-16, minimum gage height, 4.17 ft, Oct. 1-5, 7-8.

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	0.19	4.2	1.7	1.2	0.85	0.55	4.0	0.32	0.15	0.06	0.05	0.05
2	0.18	15	1.5	0.96	0.77	0.42	2.1	0.30	0.12	0.06	0.03	0.04
3	0.17	4.2	1.4	0.83	0.79	0.40	2.4	0.31	0.09	0.05	0.02	0.04
4	0.16	2.4	3.7	0.70	11	0.53	2.0	0.31	0.08	0.04	0.02	0.05
5	0.28	1.8	10	0.59	2.7	0.53	1.5	0.26	0.23	0.09	0.02	0.04
6	0.29	6.7	3.2	0.67	6.3	0.41	1.3	0.21	0.12	0.27	0.02	0.04
7	0.18	5.3	3.5	0.68	4.2	0.43	2.2	0.18	0.12	0.10	0.02	0.04
8	6.1	3.2	3.1	0.59	2.3	0.41	1.6	0.18	0.24	0.13	0.02	0.04
9	4.3	2.3	5.5	0.48	1.9	0.50	1.1	0.34	0.14	0.44	0.02	0.04
10	2.0	1.8	22	0.44	1.7	0.42	1.0	0.20	0.11	0.11	0.05	0.07
11	1.3	1.5	15	0.45	1.5	0.40	12	0.18	0.10	0.08	0.02	0.05
12	0.99	1.3	5.7	0.57	1.6	0.37	14	0.15	0.18	0.05	0.02	0.05
13	0.81	1.1	3.2	0.49	1.4	0.33	4.3	0.14	0.10	0.04	0.02	0.05
14	0.72	1.8	5.0	0.42	1.3	0.31	2.4	0.19	0.09	0.03	0.02	0.06
15	0.69	3.8	2.6	0.44	1.1	0.30	2.2	0.23	0.07	0.05	0.02	0.05
16	0.92	2.6	2.0	1.6	0.97	0.70	14	0.40	0.07	0.04	0.02	0.13
17	1.8	1.9	1.9	19	0.85	0.51	8.2	0.36	0.12	0.03	0.73	0.09
18	2.0	7.9	2.0	25	0.78	0.41	3.5	0.32	0.10	0.03	0.10	0.08
19	1.3	5.3	1.6	19	0.70	0.77	2.2	0.26	0.08	0.02	0.07	0.07
20	1.0	3.0	1.3	21	0.59	4.4	1.7	0.20	0.07	0.03	0.04	0.06
21	1.2	2.3	1.1	13	0.54	e2.4	1.3	0.18	0.14	0.03	0.03	0.06
22	1.2	2.3	0.93	11	0.50	e1.3	1.1	0.17	0.16	0.03	0.03	0.06
23	1.5	3.4	0.81	5.5	0.48	e0.80	0.87	0.14	0.09	0.02	0.03	0.07
24	1.2	36	0.76	2.9	0.44	e0.62	0.70	0.13	0.08	0.02	0.03	0.06
25	1.0	27	7.2	2.2	0.43	e0.56	0.58	0.13	0.20	0.02	0.04	0.07
26	0.87	12	4.6	1.8	0.41	e0.88	0.55	0.12	0.10	0.02	0.04	0.07
27	0.75	6.7	2.1	1.5	0.40	e0.80	0.47	0.11	0.16	0.02	0.04	0.08
28	0.73	2.7	1.7	1.3	0.39	e1.4	0.40	0.10	0.10	0.03	0.28	0.08
29	0.77	2.2	1.8	1.0	---	e1.9	0.39	0.10	0.09	0.02	0.15	0.92
30	1.4	2.4	1.8	1.1	---	e1.7	0.36	0.10	0.07	0.02	0.08	0.22
31	0.86	---	1.6	1.1	---	1.4	---	0.15	---	0.02	0.07	---
TOTAL	36.86	174.1	120.30	137.51	46.89	26.86	90.42	6.47	3.57	2.00	2.15	2.83
MEAN	1.19	5.80	3.88	4.44	1.67	0.87	3.01	0.21	0.12	0.06	0.07	0.09
MAX	6.1	36	22	25	11	4.4	14	0.40	0.24	0.44	0.73	0.92
MIN	0.16	1.1	0.76	0.42	0.39	0.30	0.36	0.10	0.07	0.02	0.02	0.04
AC-FT	73	345	239	273	93	53	179	13	7.1	4.0	4.3	5.6
CFSM	0.99	4.84	3.23	3.70	1.40	0.72	2.51	0.17	0.10	0.05	0.06	0.08
IN.	1.14	5.40	3.73	4.26	1.45	0.83	2.80	0.20	0.11	0.06	0.07	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	1.24	3.07	2.75	3.41	3.51	1.54	1.63	0.35	0.09	0.06	0.10	0.15
MAX	3.31	5.80	4.47	4.44	9.40	2.08	3.01	0.55	0.12	0.11	0.24	0.39
(WY)	(2004)	(2005)	(2002)	(2005)	(2002)	(2002)	(2005)	(2003)	(2005)	(2002)	(2004)	(2004)
MIN	0.11	0.39	0.72	2.43	1.52	0.87	0.31	0.21	0.03	0.00	0.02	0.04
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2004)	(2005)	(2004)	(2004)	(2003)	(2003)

12202450 SILVER BEACH CREEK AT MAYNARD PLACE, AT BELLINGHAM, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	557.80		649.96			
ANNUAL MEAN	1.52		1.78		1.48	
HIGHEST ANNUAL MEAN					1.97	2002
LOWEST ANNUAL MEAN					0.75	2003
HIGHEST DAILY MEAN	36	Nov 24	36	Nov 24	68	Feb 22, 2002
LOWEST DAILY MEAN	0.00	Jun 5	0.02	Jul 19	0.00	Jun 5, 2004
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 4	0.02	Aug 3	0.00	Jul 4, 2004
MAXIMUM PEAK FLOW					68	Feb 22, 2003
MAXIMUM PEAK STAGE					5.57	Feb 22, 2002
ANNUAL RUNOFF (AC-FT)	1,110		1,290		1,070	
ANNUAL RUNOFF (CFSM)	1.27		1.48		1.23	
ANNUAL RUNOFF (INCHES)	17.29		20.15		16.76	
10 PERCENT EXCEEDS	3.5		4.2		3.3	
50 PERCENT EXCEEDS	0.71		0.47		0.44	
90 PERCENT EXCEEDS	0.01		0.04		0.03	

e Estimated