

DUWAMISH RIVER BASIN

1

12113346 SPRING BROOK CREEK NEAR ORILLIA, WA

LOCATION.--Lat 47°25'53", long 122°13'35", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.31, T.23 N., R.5 E., King County, Hydrologic Unit 17110013, on right bank 50 ft upstream from 84th Avenue South (East Valley Highway), 1.2 mi upstream from confluence with Mill Creek, and 1.0 mi southeast of Orillia.

DRAINAGE AREA.--8.44 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level (City of Kent benchmark). U.S. Geological Survey satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records poor. Natural flow affected by urbanization and construction of flood-control catchments.

AVERAGE DISCHARGE.--8 years (water years 1994-2001), 10.5 ft³/s, 16.97 in/yr, 7,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 450 ft³/s Feb. 9, 1996, elevation, 19.55 ft; minimum discharge, 0.74 ft³/s Aug. 2-5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 179 ft³/s Oct. 20, elevation, 17.59 ft; minimum discharge, 1.6 ft³/s July 3.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	4.4	4.3	11	5.9	8.6	8.1	15	5.5	2.3	2.0	2.9
2	4.6	4.2	11	8.5	12	6.2	30	6.0	10	2.3	2.1	2.9
3	2.5	4.1	4.6	16	8.9	4.5	11	4.2	13	2.1	2.4	2.8
4	2.3	10	3.5	36	33	4.1	6.0	3.7	3.3	2.1	2.3	3.1
5	2.2	7.6	3.2	34	12	3.9	6.9	3.6	5.6	2.0	2.2	3.7
6	2.1	15	3.2	15	8.1	3.8	8.7	3.1	5.5	2.0	2.3	3.9
7	1.9	8.6	3.1	12	6.4	3.8	4.9	2.9	3.6	2.0	2.3	3.4
8	1.9	72	3.1	13	15	5.9	8.0	2.9	7.3	2.0	2.2	2.4
9	13	21	7.2	12	11	10	4.9	2.9	8.3	2.7	2.2	2.4
10	9.1	9.7	4.1	11	6.6	4.6	29	2.7	4.0	2.0	2.0	2.4
11	4.2	6.9	3.1	8.6	5.4	3.9	23	2.7	97	2.0	2.0	2.4
12	2.7	6.0	3.0	6.6	4.8	3.7	8.9	2.7	32	1.9	2.0	2.4
13	6.1	5.8	4.5	8.9	4.5	5.5	6.4	3.1	6.1	2.0	2.1	2.3
14	6.7	5.5	9.9	12	4.4	3.8	5.4	19	3.7	2.6	2.2	2.3
15	3.0	5.4	8.1	9.3	5.4	14	5.0	23	3.1	2.9	2.2	2.2
16	34	5.2	27	8.9	22	11	4.7	19	2.9	61	2.2	2.2
17	33	5.2	20	9.6	17	4.7	21	5.0	2.7	6.4	2.2	2.4
18	46	5.3	9.7	13	15	25	13	3.9	2.6	2.8	2.2	2.5
19	11	5.5	8.8	13	7.8	13	6.5	3.6	2.5	2.6	2.1	2.6
20	126	5.7	8.6	9.8	5.9	5.6	5.2	3.4	2.4	2.2	2.2	2.3
21	52	5.7	9.9	37	6.0	4.4	4.5	3.2	2.8	2.2	8.6	2.3
22	11	5.4	19	16	7.7	3.9	4.5	3.3	4.0	2.2	75	2.4
23	5.8	24	19	9.2	5.1	3.8	4.9	3.1	4.4	2.2	56	2.4
24	4.8	11	15	8.8	5.4	6.0	4.2	3.0	12	2.6	25	2.4
25	4.4	18	11	8.0	4.2	16	4.0	3.0	7.7	2.1	5.6	15
26	4.1	49	8.6	6.9	3.9	14	3.9	3.0	3.4	2.0	3.9	34
27	4.3	35	11	6.3	3.8	18	5.2	2.9	34	2.0	3.3	13
28	37	6.6	7.9	6.5	4.2	13	16	7.9	20	11	3.1	3.9
29	17	8.4	7.5	12	--	6.3	14	3.5	3.4	2.9	3.0	3.2
30	6.7	8.3	16	6.6	--	6.7	50	2.9	2.6	2.1	3.0	3.1
31	4.9	--	21	6.0	--	8.5	--	2.9	--	2.0	2.8	--
TOTAL	480.3	384.5	295.9	391.5	251.4	246.2	327.8	171.1	315.4	141.2	232.7	135.2
MEAN	15.5	12.8	9.55	12.6	8.98	7.94	10.9	5.52	10.5	4.55	7.51	4.51
MAX	126	72	27	37	33	25	50	23	97	61	75	34
MIN	1.9	4.1	3.0	6.0	3.8	3.7	3.9	2.7	2.4	1.9	2.0	2.2
AC-FT	953	763	587	777	499	488	650	339	626	280	462	268
CFSM	1.84	1.52	1.13	1.50	1.06	.94	1.29	.65	1.25	.54	.89	.53
IN.	2.12	1.69	1.30	1.73	1.11	1.09	1.44	.75	1.39	.62	1.03	.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	9.16	18.7	19.9	17.5	16.3	12.1	8.88	6.06	5.68	3.99	4.55	4.04
MAX	15.5	43.5	30.9	25.0	35.8	15.8	15.0	8.00	10.5	5.92	7.51	7.23
(WY)	2001	2000	1999	1996	1996	1998	1996	1996	2001	1997	2001	1997
MIN	4.45	5.08	9.55	7.46	6.97	6.41	5.81	3.34	2.99	2.59	2.14	1.71
(WY)	1994	1994	2001	1994	1997	1996	1995	1995	1996	1994	1994	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1994 - 2001

ANNUAL TOTAL	3938.1	3373.2		
ANNUAL MEAN	10.8	9.24		
HIGHEST ANNUAL MEAN			10.5	
LOWEST ANNUAL MEAN			14.5	
HIGHEST DAILY MEAN	126	Oct 20	6.22	1996
LOWEST DAILY MEAN	1.9	Oct 7	.74	Aug 3 1995
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 23	.87	Sep 19 1995
ANNUAL RUNOFF (AC-FT)	7810	6690	7640	
ANNUAL RUNOFF (CFSM)	1.27	1.09	1.25	
ANNUAL RUNOFF (INCHES)	17.36	14.87	16.97	
10 PERCENT EXCEEDS	24	19	23	
50 PERCENT EXCEEDS	5.8	5.2	5.3	
90 PERCENT EXCEEDS	2.9	2.2	2.3	