

DUWAMISH RIVER BASIN

12113346 SPRING BROOK CREEK NEAR ORILLIA, WA

LOCATION.--Lat 47°25'53", long 122°13'35", in SW 1/4 SW 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.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929 (City of Kent benchmark). U.S. Geological Survey satellite telemeter at station.

REMARKS.--Records poor. Natural flow affected by urbanization and construction of flood-control catchments.

AVERAGE DISCHARGE.--9 years (water years 1994-2002), 10.6 ft³/s, 17.07 in/yr, 7,680 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, 324 ft³/s Nov. 14, elevation, 19.40 ft; minimum discharge, 1.7 ft³/s Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	11	30	20	14	6.1	4.2	4.9	4.1	3.8	2.9	2.1
2	2.9	15	28	23	10	5.6	4.0	6.4	3.9	3.5	2.8	3.1
3	2.8	5.3	25	10	9.3	5.3	3.9	4.7	3.9	3.3	2.8	4.8
4	2.8	8.9	19	8.5	7.9	5.2	3.9	4.5	4.8	3.4	2.9	2.7
5	2.7	17	16	9.6	13	6.9	3.8	4.6	6.4	3.6	3.0	2.3
6	2.9	5.3	26	25	18	5.3	3.8	5.7	4.1	3.2	3.0	2.2
7	2.8	3.8	10	67	30	4.8	3.7	5.0	9.3	13	2.8	2.6
8	9.0	3.4	9.1	35	43	4.5	3.5	4.3	6.8	38	2.7	2.3
9	3.5	3.3	11	17	14	4.4	7.9	4.2	4.3	5.1	2.6	2.3
10	12	3.1	16	12	10	4.5	e15	4.1	3.9	4.6	2.8	2.1
11	10	3.3	11	11	8.7	41	e11	4.0	3.7	4.1	2.7	2.0
12	3.9	16	9.4	17	7.7	24	9.1	4.0	3.7	3.7	2.6	2.0
13	4.2	46	86	9.7	7.3	15	52	5.9	3.7	3.5	2.5	1.9
14	7.5	e220	44	8.5	6.5	8.1	55	5.1	3.5	3.5	2.8	1.8
15	6.2	49	34	8.0	6.2	7.1	20	3.9	3.7	3.9	2.4	1.9
16	7.0	21	74	7.3	6.6	22	17	3.8	3.9	3.6	2.5	5.9
17	5.6	9.4	43	6.9	7.0	14	13	6.4	6.8	3.3	2.3	6.1
18	3.4	6.1	25	11	8.4	12	8.8	4.1	12	3.2	2.4	2.3
19	4.2	29	24	21	16	19	7.6	4.0	4.3	3.2	2.8	2.0
20	3.6	26	17	26	6.7	41	7.2	9.1	4.0	3.2	2.8	2.2
21	12	17	14	18	42	15	7.4	4.4	3.9	3.1	2.6	2.0
22	10	65	12	9.6	44	9.9	7.0	3.9	3.7	3.2	2.4	1.9
23	5.6	26	10	8.0	34	7.9	6.0	3.8	3.6	3.0	2.4	1.9
24	11	11	9.8	27	25	6.7	5.6	3.8	3.7	3.5	2.2	2.0
25	36	8.5	9.3	63	12	5.9	5.4	3.9	3.6	3.0	2.3	2.0
26	11	6.1	8.9	30	9.2	5.4	9.0	4.0	3.5	3.5	2.4	2.0
27	56	4.5	8.8	18	7.7	5.0	16	4.6	5.1	3.2	2.3	2.0
28	13	46	13	13	6.9	4.6	6.3	7.8	20	3.2	2.3	2.0
29	4.5	29	8.4	11	---	4.4	5.4	7.8	34	3.4	2.3	6.8
30	11	22	7.9	18	---	4.3	5.1	4.2	5.7	3.0	2.1	2.5
31	40	---	13	24	---	4.2	---	4.0	---	3.0	2.0	---
TOTAL	310.2	737.0	672.6	593.1	431.1	329.1	327.6	150.9	187.6	151.8	79.4	79.7
MEAN	10.01	24.57	21.70	19.13	15.40	10.62	10.92	4.868	6.253	4.897	2.561	2.657
MAX	56	220	86	67	44	41	55	9.1	34	38	3.0	6.8
MIN	2.7	3.1	7.9	6.9	6.2	4.2	3.5	3.8	3.5	3.0	2.0	1.8
AC-FT	615	1460	1330	1180	855	653	650	299	372	301	157	158
CFSM	1.19	2.91	2.57	2.27	1.82	1.26	1.29	0.58	0.74	0.58	0.30	0.31
IN.	1.37	3.25	2.96	2.61	1.90	1.45	1.44	0.67	0.83	0.67	0.35	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002			
MEAN	9.253	19.37	20.08	17.67	16.19	11.94	9.111	5.923	5.744	4.089	4.330	3.887
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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1994 - 2002

ANNUAL TOTAL	3932.3	4050.1	
ANNUAL MEAN	10.77	11.10	10.60
HIGHEST ANNUAL MEAN			14.5
LOWEST ANNUAL MEAN			6.22
HIGHEST DAILY MEAN	220	220	303
LOWEST DAILY MEAN	1.9	1.8	0.74
ANNUAL SEVEN-DAY MINIMUM	2.1	2.0	0.87
ANNUAL RUNOFF (AC-FT)	7800	8030	7680
ANNUAL RUNOFF (CFSM)	1.28	1.31	1.26
ANNUAL RUNOFF (INCHES)	17.33	17.85	17.07
10 PERCENT EXCEEDS	25	26	23
50 PERCENT EXCEEDS	5.5	5.6	5.4
90 PERCENT EXCEEDS	2.2	2.5	2.3

e Estimated