

DUWAMISH RIVER BASIN

1

12113349 MILL CREEK NEAR MOUTH, AT ORILLIA, WA

LOCATION.--Lat 47°26'20", long 122°14'26", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.23 N., R.4 E., King County, Hydrologic Unit 17110013, on left bank 15 ft upstream from Burlington-Northern railroad trestle, in Orillia.

DRAINAGE AREA.--6.03 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is sea level (City of Kent benchmark).

REMARKS.--Records fair. Natural flow affected by Green River Natural Resource area located 1.75 miles upstream and by urbanization. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--7 years (water year 1995-2001), 16.4 ft³/s, 11,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 376 ft³/s Feb. 9, 1996, from rating curve extended above 133 ft³/s, elevation, 18.77 ft; minimum discharge, 0.35 ft³/s Aug. 12, 2001, result of construction upstream from station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 140 ft³/s Nov. 26, elevation, 13.35 ft; minimum discharge, 0.35 ft³/s Aug. 12, due to construction upstream.

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	7.5	5.4	8.3	11	5.0	13	12	25	6.0	3.4	1.9	1.7
2	1.8	4.9	18	7.6	15	9.4	54	13	11	3.0	2.0	1.8
3	1.4	4.5	7.8	18	9.2	6.0	21	11	14	3.3	1.9	1.6
4	1.3	7.8	6.1	50	49	5.4	13	9.1	4.3	3.0	1.9	1.5
5	1.3	4.6	5.3	49	16	5.0	14	8.2	7.5	3.0	1.8	1.4
6	1.3	9.7	4.9	17	9.8	4.6	17	6.8	7.7	2.8	1.9	1.3
7	1.3	5.0	4.6	12	7.6	4.6	9.1	6.1	4.9	2.9	1.7	1.5
8	1.2	51	4.5	11	20	7.8	11	5.9	4.1	2.8	1.7	1.5
9	13	20	12	9.1	14	15	7.9	5.9	9.4	2.7	1.7	1.5
10	7.7	9.7	5.7	8.4	8.0	6.1	40	5.3	5.1	2.7	1.4	1.4
11	3.8	6.9	4.4	6.7	6.8	5.1	35	4.9	90	2.6	1.2	1.3
12	2.4	5.8	4.1	5.9	5.9	4.8	15	4.7	50	2.5	.91	1.3
13	2.6	5.1	3.9	7.5	5.4	7.6	11	5.1	18	2.4	1.3	1.3
14	2.9	4.7	13	8.1	5.2	5.3	8.7	24	12	2.4	1.2	1.3
15	1.6	4.4	12	5.4	6.0	20	7.6	31	9.0	2.5	1.2	1.3
16	19	4.1	33	4.9	34	18	7.0	28	7.1	53	1.4	1.3
17	15	3.9	25	5.7	25	7.1	32	9.0	6.0	8.6	1.4	1.3
18	22	3.8	9.4	11	19	38	21	6.7	5.3	5.6	1.3	1.3
19	6.8	3.7	7.1	11	9.8	23	11	5.7	6.5	5.2	1.2	1.5
20	93	3.7	7.1	6.0	7.8	11	9.1	5.0	4.0	4.8	1.3	1.3
21	39	3.8	8.7	53	8.2	8.4	7.9	4.5	4.8	4.2	5.4	1.3
22	13	3.7	22	20	11	e7.1	7.6	5.7	5.3	2.8	65	1.3
23	6.5	26	21	11	6.7	e7.5	7.7	3.9	3.8	2.7	51	1.3
24	11	10	16	10	6.9	11	6.2	3.2	11	3.8	19	1.3
25	9.1	18	10	8.7	5.6	25	5.6	4.7	11	4.4	11	7.6
26	7.6	64	7.2	6.8	5.1	19	5.1	3.3	4.8	7.6	3.4	21
27	6.6	50	10	6.0	4.9	27	6.8	2.9	33	2.7	3.4	6.8
28	27	16	6.2	5.8	5.1	23	23	9.4	27	11	8.6	2.0
29	14	16	5.7	15	---	11	19	4.6	13	2.9	2.9	1.6
30	7.3	15	18	6.2	---	14	60	3.4	4.8	2.2	1.9	1.5
31	5.9	---	24	5.2	---	14	---	3.3	---	2.0	1.7	---
TOTAL	353.9	391.2	345.0	413.0	332.0	383.8	505.3	269.3	400.4	165.5	203.61	74.1
MEAN	11.4	13.0	11.1	13.3	11.9	12.4	16.8	8.69	13.3	5.34	6.57	2.47
MAX	93	64	33	53	49	38	60	31	90	53	65	21
MIN	1.2	3.7	3.9	4.9	4.9	4.6	5.1	2.9	3.8	2.0	.91	1.3
AC-FT	702	776	684	819	659	761	1000	534	794	328	404	147

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

MEAN	10.5	27.3	32.8	31.5	31.0	21.7	13.6	8.82	7.15	3.79	3.80	3.76
MAX	18.5	50.7	51.8	50.8	64.8	38.5	27.2	12.5	13.3	6.66	6.57	9.19
(WY)	1998	2000	1997	1997	1996	1997	1996	1996	2001	1997	2001	1997
MIN	5.75	13.0	11.1	13.3	11.9	12.4	6.53	3.75	3.62	1.95	1.29	2.06
(WY)	2000	2001	2001	2001	2001	2001	1998	1995	1995	1994	1994	1999

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1994 - 2001

ANNUAL TOTAL	4382.3		3837.11				
ANNUAL MEAN	12.0		10.5		16.4		
HIGHEST ANNUAL MEAN					21.4		1999
LOWEST ANNUAL MEAN					10.5		2001
HIGHEST DAILY MEAN	129	Feb 1	93	Oct 20	323	Feb 9	1996
LOWEST DAILY MEAN	1.2	Sep 24	.91	Aug 12	.78	Oct 7	1994
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 23	1.2	Aug 10	.80	Oct 6	1994
ANNUAL RUNOFF (AC-FT)	8690		7610		11910		
10 PERCENT EXCEEDS	28		23		40		
50 PERCENT EXCEEDS	6.9		6.5		7.5		
90 PERCENT EXCEEDS	1.4		1.5		1.6		

e Estimated