

DUWAMISH RIVER BASIN

12113349 MILL CREEK NEAR MOUTH, AT ORILLIA, WA

LOCATION.--Lat 47°26'20", long 122°14'26", in SE 1/4 NW 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 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929 (City of Kent benchmark).

REMARKS.--No estimated daily discharges. 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.--8 years (water year 1995-2002), 16.4 ft<sup>3</sup>/s, 11,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 376 ft<sup>3</sup>/s Feb. 9, 1996, from rating curve extended above 133 ft<sup>3</sup>/s, elevation, 18.77 ft; minimum discharge, 0.35 ft<sup>3</sup>/s Aug. 12, 2001, result of construction upstream from station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 342 ft<sup>3</sup>/s Nov. 14, elevation, 17.53 ft; minimum discharge, 0.98 ft<sup>3</sup>/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	1.4	11	39	26	21	12	6.4	5.6	3.4	4.3	1.3	1.3
2	1.5	16	40	36	16	9.8	5.8	7.0	3.3	3.6	1.3	1.7
3	1.5	5.9	36	14	14	8.9	5.6	5.4	3.2	3.2	1.4	2.6
4	1.4	9.2	28	11	11	8.5	5.3	4.7	4.0	3.1	1.3	1.3
5	1.4	17	24	12	19	10	5.3	4.8	6.2	2.9	1.5	1.2
6	1.5	5.3	33	35	29	8.3	5.1	5.5	3.5	2.8	1.3	1.2
7	1.4	3.8	21	124	45	7.7	5.0	5.2	7.9	12	1.3	1.6
8	4.4	3.4	19	76	89	6.8	4.8	4.3	4.8	40	1.2	1.2
9	1.6	3.1	18	36	34	6.2	16	4.0	3.7	4.4	1.1	1.2
10	8.9	3.1	22	25	23	6.3	31	4.8	3.3	3.3	1.1	1.2
11	5.4	3.1	19	20	18	69	19	4.1	3.2	2.9	1.1	1.1
12	1.8	24	16	27	14	48	17	3.8	3.2	2.5	1.3	1.1
13	2.2	59	122	16	12	34	85	6.1	3.2	2.3	1.3	1.1
14	6.2	264	101	12	11	20	109	6.3	3.1	2.1	1.3	1.0
15	3.4	114	67	10	9.7	16	49	4.0	3.0	2.1	1.2	1.1
16	4.1	56	130	8.9	10	39	36	3.8	3.1	2.0	1.3	3.8
17	2.9	35	98	7.8	10	30	27	8.4	6.4	1.8	1.2	3.0
18	1.7	26	54	12	13	23	18	4.2	11	1.8	1.2	1.5
19	2.1	41	46	27	26	33	14	4.1	3.4	1.7	1.2	1.1
20	1.9	37	29	35	11	81	11	12	3.1	1.6	1.2	1.2
21	8.6	29	22	28	76	35	10	5.8	3.1	1.6	1.2	1.0
22	5.7	72	17	15	88	24	9.4	4.3	3.1	1.6	1.2	1.0
23	3.3	46	14	11	69	18	7.6	3.9	3.1	1.6	1.3	1.0
24	7.7	26	12	43	52	15	6.7	3.7	3.0	1.5	1.2	1.1
25	24	22	9.8	119	27	12	6.2	3.7	3.0	1.5	1.2	1.1
26	6.3	19	8.8	71	21	10	12	3.6	3.0	1.5	1.2	1.1
27	48	15	8.2	44	16	9.3	23	3.9	3.7	1.5	1.2	1.1
28	12	61	15	30	15	8.5	9.1	8.6	19	1.5	1.2	1.1
29	5.4	47	8.1	21	---	7.8	7.2	9.1	35	1.6	1.2	4.7
30	12	34	7.3	27	---	7.1	6.3	3.9	5.6	1.5	1.2	1.4
31	33	---	15	36	---	6.7	---	3.5	---	1.3	1.2	---
TOTAL	222.7	1107.9	1099.2	1015.7	799.7	630.9	572.8	162.1	167.6	117.1	38.4	45.1
MEAN	7.18	36.9	35.5	32.8	28.6	20.4	19.1	5.23	5.59	3.78	1.24	1.50
MAX	48	264	130	124	89	81	109	12	35	40	1.5	4.7
MIN	1.4	3.1	7.3	7.8	9.7	6.2	4.8	3.5	3.0	1.3	1.1	1.0
AC-FT	442	2200	2180	2010	1590	1250	1140	322	332	232	76	89

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

	1994	1995	1996	1997	1998	1999	2000	2001	2002			
MEAN	10.1	28.5	33.1	31.6	30.7	21.5	14.2	8.42	6.97	3.78	3.51	3.51
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	1.24	1.50
(WY)	2000	2001	2001	2001	2001	2001	1998	1995	1995	1994	2002	2002

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1994 - 2002

ANNUAL TOTAL	5176.81	5979.2										
ANNUAL MEAN	14.2	16.4										
HIGHEST ANNUAL MEAN									16.4			
LOWEST ANNUAL MEAN									21.4			1999
HIGHEST DAILY MEAN									10.5			2001
LOWEST DAILY MEAN									0.78			1996
ANNUAL SEVEN-DAY MINIMUM									0.80			1994
ANNUAL RUNOFF (AC-FT)	10270	11860							11910			
10 PERCENT EXCEEDS	34	40							41			
50 PERCENT EXCEEDS	7.0	6.4							7.8			
90 PERCENT EXCEEDS	1.5	1.2							1.6			