

12113347 MILL CREEK AT EARTHWORKS PARK, AT KENT, WA

LOCATION.--Lat 47°23'00", long 122°13'25", in SW^{1/4}NW^{1/4} sec.19, T.22 N., R.5 E., King County, Hydrologic Unit 17110013, at control-manhole of flood-detention basin in Earthworks Park, 250 ft upstream from Titus St., and 0.6 mi east of Kent City Hall.

DRAINAGE AREA.--2.49 mi².

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

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by urbanization and construction of flood-control catchments. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--11 years (water year 1995-2005), 3.85 ft³/s, 21.00 in/yr, 2,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined, Feb. 9, 1996, elevation, 47.52 ft, affected by backwater from debris caught on downstream culvert grates; maximum elevation, 48.05 ft, May 13, 1996, affected by backwater from debris caught on downstream culvert grates; minimum discharge, 0.31 ft³/s, July 5, 1995, Aug. 12, 1997, but may have been lower during periods of culvert maintenance.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft³/s, May 20, gage height, 44.86 ft; minimum discharge, 0.52 ft³/s, Sept. 3.

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	0.75	2.0	2.7	1.9	1.8	2.6	7.3	2.8	3.5	0.94	0.80	0.65
2	0.78	9.5	1.7	1.6	1.6	4.4	2.1	4.1	0.94	0.80	0.65	
3	0.80	5.6	1.5	1.5	1.6	1.4	6.7	1.9	1.8	0.93	0.79	0.64
4	0.80	2.5	2.0	1.4	2.5	1.2	4.2	1.9	1.4	0.91	0.81	0.65
5	1.3	1.7	2.6	1.4	1.7	1.2	3.0	1.6	1.7	1.0	0.82	0.65
6	1.9	1.4	3.5	1.9	6.9	1.1	2.8	1.5	1.8	4.2	0.75	0.64
7	0.88	1.2	6.4	2.7	5.1	1.1	3.9	1.4	2.5	1.4	0.74	0.65
8	8.1	1.1	10	2.0	2.6	1.1	2.7	1.6	2.1	4.8	0.86	0.65
9	5.5	1.1	9.0	1.7	2.0	1.2	2.1	3.3	1.3	2.5	0.75	0.64
10	2.3	1.0	13	1.4	1.8	1.1	2.0	5.9	1.2	1.6	e0.74	3.8
11	1.5	1.0	13	1.3	1.7	1.1	7.4	2.3	1.2	1.3	e0.73	0.94
12	1.2	0.97	8.5	1.3	2.2	1.1	3.9	1.8	2.6	1.8	0.73	0.71
13	1.0	0.96	7.6	1.2	1.7	1.0	2.6	1.6	1.5	1.2	0.73	0.69
14	0.97	0.96	8.0	1.2	1.6	1.0	2.1	1.9	1.1	1.1	0.72	0.69
15	0.94	2.9	4.8	1.8	1.5	1.0	3.7	4.3	1.1	1.1	0.71	0.69
16	3.2	2.1	3.2	3.3	1.4	2.6	14	2.8	1.5	1.1	0.71	0.73
17	10	1.4	2.6	21	1.4	1.4	9.1	1.8	7.9	1.0	0.79	0.69
18	4.6	4.3	2.3	21	1.4	1.2	5.6	5.7	2.2	1.2	0.73	0.68
19	3.5	1.6	3.0	15	1.3	2.3	3.5	5.1	1.4	1.2	0.71	0.67
20	1.9	1.3	2.4	13	1.3	1.9	2.8	9.6	1.2	1.1	0.70	0.64
21	2.1	1.1	1.9	10	1.3	1.4	2.3	11	1.5	0.81	0.70	0.68
22	1.4	1.1	1.8	8.1	1.3	1.2	2.1	7.1	1.2	3.1	0.70	0.74
23	1.2	2.2	1.7	4.8	1.2	1.1	2.7	3.5	1.1	1.1	0.69	0.75
24	1.1	7.0	1.6	3.3	1.2	1.0	3.2	2.4	1.0	0.88	0.69	0.75
25	1.1	6.6	3.4	2.6	1.2	1.0	2.1	1.9	0.99	0.85	0.69	0.76
26	1.0	3.0	2.6	2.4	1.2	13	1.8	1.6	0.98	0.83	0.70	0.74
27	0.96	2.6	1.8	2.4	1.1	16	1.7	1.5	1.2	0.83	0.70	0.75
28	0.95	1.7	1.6	2.3	1.7	10	2.1	1.4	0.99	0.83	0.99	0.76
29	0.92	1.8	4.0	2.1	---	9.2	5.7	1.3	0.94	0.83	0.85	1.0
30	1.2	3.6	2.7	1.9	---	5.1	6.0	1.3	0.92	0.89	0.68	1.8
31	0.91	---	2.0	1.9	---	3.4	---	1.4	---	0.85	0.65	---
TOTAL	64.76	75.29	132.9	139.4	53.3	90.6	123.5	95.3	53.92	43.12	23.16	25.48
MEAN	2.09	2.51	4.29	4.50	1.90	2.92	4.12	3.07	1.80	1.39	0.75	0.85
MAX	10	9.5	13	21	6.9	16	14	11	7.9	4.8	0.99	3.8
MIN	0.75	0.96	1.5	1.2	1.1	1.0	1.7	1.3	0.92	0.81	0.65	0.64
AC-FT	128	149	264	276	106	180	245	189	107	86	46	51
CFSM	0.84	1.01	1.72	1.81	0.76	1.17	1.65	1.23	0.72	0.56	0.30	0.34
IN.	0.97	1.12	1.99	2.08	0.80	1.35	1.85	1.42	0.81	0.64	0.35	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	2.30	6.63	7.50	8.02	6.54	4.74	3.17	2.06	1.64	1.08	1.06	1.14
MAX	4.44	13.2	12.6	15.1	20.0	8.34	8.03	3.09	3.45	1.66	1.60	2.00
(WY)	(1998)	(2000)	(1996)	(1997)	(1996)	(1999)	(1996)	(1996)	(1997)	(1997)	(2004)	(2004)
MIN	0.84	1.21	2.29	2.73	1.90	2.55	1.32	1.08	0.80	0.68	0.59	0.71
(WY)	(2003)	(2003)	(2001)	(2001)	(2005)	(2001)	(2004)	(1995)	(2003)	(2003)	(1994)	(2003)

DUWAMISH RIVER BASIN

12113347 MILL CREEK AT EARTHWORKS PARK, AT KENT, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1994 - 2005
ANNUAL TOTAL	950.03	920.73	
ANNUAL MEAN	2.60	2.52	3.85
HIGHEST ANNUAL MEAN			6.32
LOWEST ANNUAL MEAN			2.21
HIGHEST DAILY MEAN	23	Jan 30	124 Nov 14, 2001
LOWEST DAILY MEAN	0.62	Aug 5	0.44 Oct 24, 1994
ANNUAL SEVEN-DAY MINIMUM	0.66	Jul 30	0.47 Aug 26, 1994
ANNUAL RUNOFF (AC-FT)	1,880	1,830	2,790
ANNUAL RUNOFF (CFSM)	1.04	1.01	1.55
ANNUAL RUNOFF (INCHES)	14.19	13.76	21.00
10 PERCENT EXCEEDS	6.2	5.7	9.0
50 PERCENT EXCEEDS	1.5	1.5	1.8
90 PERCENT EXCEEDS	0.72	0.73	0.75

e Estimated