

## 12091100 FLETT CREEK AT TACOMA, WA

LOCATION.--Lat  $47^{\circ}11'23''$ , long  $122^{\circ}31'08''$ , in NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.26, T.20 N., R.2 E., Pierce County, Hydrologic Unit 17110019, on right bank upstream of 75th Street bridge, 0.6 mi upstream from mouth and 0.7 mi west of city limits of Tacoma.

DRAINAGE AREA.--7.33 mi<sup>2</sup>, excludes 0.68 mi<sup>2</sup> storm drainage diverted to Leach Creek basin, but does not include some urban storm drainage diverted into the basin.

PERIOD OF RECORD.--June 1959 to September 1985, October 1985 to September 1996 (seasonal records). October 1996 to current year.

REVISED RECORDS.--WSP 1932: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 189.32 ft above NGVD of 1929 (levels by USGS National Mapping Division). Prior to Oct. 11, 2000, at same site and at datum 5.74 ft higher.

REMARKS.--Records fair except discharges below 5.0 ft<sup>3</sup>/s, which are poor. Storm sewer drainage upstream from station. Several diversions for irrigation and industrial use. At times during winter months 1,000 gpm are pumped into creek for short intervals from Mountain View Memorial Park. Since October 1979, Flett Creek flood control retention ponds store and release flood water upstream from station. Chemical analyses October 1964 to September 1965.

AVERAGE DISCHARGE.--35 years (water years 1960-85, 1997-2005), 10.8 ft<sup>3</sup>/s, 7,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 203 ft<sup>3</sup>/s, Feb. 8, 1996, gage height, 3.08 ft, site and datum then in use, from rating curve extended above 115 ft<sup>3</sup>/s; minimum discharge, 0.04 ft<sup>3</sup>/s, several days in September 2005.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft<sup>3</sup>/s, Jan. 19, gage height, 11.01 ft; minimum discharge, 0.04 ft<sup>3</sup>/s, several days in September.

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	0.47	2.7	6.6	7.6	7.8	6.1	21	15	7.0	4.3	0.64	0.07
2	0.30	11	5.9	6.3	8.9	5.8	23	14	6.8	4.1	0.89	0.06
3	0.28	24	4.7	5.6	6.3	7.3	19	14	6.5	4.0	0.77	0.06
4	0.25	16	5.3	5.3	9.5	6.4	19	12	6.2	3.9	0.53	0.06
5	0.45	11	9.4	4.7	7.2	5.7	12	9.6	5.9	3.9	0.44	0.06
6	0.96	6.0	9.9	4.6	9.7	5.2	8.4	8.5	5.9	6.2	0.39	0.06
7	2.2	4.5	13	6.4	19	4.5	9.1	7.8	5.9	6.7	0.35	0.06
8	4.7	3.1	20	8.5	13	5.1	15	7.6	6.2	6.1	0.30	0.06
9	12	3.5	21	8.9	9.5	4.7	7.7	8.4	6.2	7.8	0.24	0.06
10	16	3.4	28	7.7	11	4.2	7.5	17	5.9	7.1	0.24	0.11
11	16	3.1	38	5.8	8.4	3.9	19	18	6.7	6.0	0.22	0.07
12	7.0	2.9	25	4.4	5.9	4.0	19	12	6.6	5.0	0.22	0.05
13	5.6	2.5	17	3.1	6.8	3.9	16	9.7	6.0	4.4	0.19	0.04
14	3.1	2.8	18	3.3	8.7	3.1	11	9.6	5.5	4.2	0.18	0.04
15	2.9	3.8	18	2.6	5.0	4.5	11	14	5.2	4.1	0.16	0.06
16	6.6	7.0	13	8.0	5.8	4.7	33	19	5.1	4.0	0.15	0.06
17	16	5.2	9.0	22	6.0	6.4	49	13	12	3.9	0.15	0.05
18	26	8.8	7.6	68	5.9	5.2	32	15	12	3.7	0.14	0.05
19	23	12	6.4	75	5.9	5.4	19	20	8.2	3.9	0.12	0.05
20	22	6.7	7.0	70	5.8	8.7	13	21	6.5	3.7	0.11	0.09
21	13	4.9	6.9	48	5.4	9.3	11	28	5.6	5.2	0.10	0.13
22	10	5.4	6.6	27	6.0	5.8	9.3	23	5.3	4.6	0.10	0.12
23	8.2	4.9	5.7	25	4.8	5.1	7.8	17	5.4	4.6	0.09	0.12
24	6.3	4.6	5.7	19	5.1	4.7	8.6	12	5.0	4.4	0.10	0.12
25	3.0	11	6.2	15	5.0	4.4	10	9.5	4.9	3.8	0.09	0.11
26	4.8	13	11	12	4.9	13	9.4	8.4	4.9	3.5	0.08	0.12
27	2.6	6.5	8.7	11	4.9	56	8.4	7.7	5.1	2.3	0.08	0.10
28	2.7	4.2	6.8	9.5	5.8	55	8.4	7.1	5.0	2.8	0.08	0.10
29	2.7	3.2	6.0	9.1	---	40	11	6.7	5.0	2.2	0.08	0.51
30	3.3	4.8	7.8	8.7	---	28	18	6.4	4.7	1.3	0.07	0.68
31	3.0	---	6.1	8.5	---	20	---	6.5	---	0.81	0.06	---
TOTAL	225.41	202.5	360.3	520.6	208.0	346.1	465.6	397.5	187.2	132.51	7.36	3.33
MEAN	7.27	6.75	11.6	16.8	7.43	11.2	15.5	12.8	6.24	4.27	0.24	0.11
MAX	26	24	38	75	19	56	49	28	12	7.8	0.89	0.68
MIN	0.25	2.5	4.7	2.6	4.8	3.1	7.5	6.4	4.7	0.81	0.06	0.04
AC-FT	447	402	715	1,030	413	686	924	788	371	263	15	6.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	4.36	10.5	19.3	23.6	23.0	20.0	14.4	8.69	5.38	2.97	1.64	2.32
(WY)	18.7	32.4	40.2	54.9	53.9	52.1	32.4	29.9	15.6	10.9	5.24	9.81
(1998)	(1991)	(1999)	(1997)	(1999)	(1972)	(1991)	(1996)	(1997)	(1997)	(1983)	(1983)	(1997)
MIN	0.13	1.39	3.14	1.93	1.69	5.81	2.96	2.39	0.45	0.25	0.18	0.11
(WY)	(1988)	(2003)	(1977)	(1977)	(1977)	(1962)	(1977)	(1977)	(2003)	(2003)	(2002)	(2005)

## CHAMBERS CREEK BASIN

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1959 - 2005
ANNUAL TOTAL	3,180.04	3,056.41	
ANNUAL MEAN	8.69	8.37	10.8
HIGHEST ANNUAL MEAN			21.7
LOWEST ANNUAL MEAN			2.87
HIGHEST DAILY MEAN	58	Jan 30	138 Nov 15, 2001
LOWEST DAILY MEAN	0.16	Aug 29	0.04 Sep 13, 2005
ANNUAL SEVEN-DAY MINIMUM	0.16	Sep 2	0.05 Sep 12, 2005
ANNUAL RUNOFF (AC-FT)	6,310	6,060	7,840
10 PERCENT EXCEEDS	20	19	26
50 PERCENT EXCEEDS	6.6	5.9	6.5
90 PERCENT EXCEEDS	0.21	0.12	0.92