

12157250 MISSION CREEK NEAR TULALIP, WA

LOCATION.--Lat 48°03'31", long 122°15'58", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.26, T.30 N., R.4 E., Snohomish County, Hydrologic Unit 17110019, on left bank 100 ft upstream from highway crossing, 0.25 mi upstream from mouth, and 0.9 mi east of Tulalip.

DRAINAGE AREA.--7.92 mi².

PERIOD OF RECORD.--October 1974 to September 1977, November 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 20.3 ft below NGVD of 1929, from precision Global Positioning System (GPS). October 1974 to September 1977, water-stage recorder, at site downstream from highway crossing, at different datum.

REMARKS.--Records fair. Some natural regulation in lakes and beaver ponds. Chemical analysis November 1974 to March 1977. Water temperatures October 1974 to March 1977.

AVERAGE DISCHARGE.--7 years (water years 1975-77, 2002-05), 5.24 ft³/s, 8.98 in/yr, 3,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 85 ft³/s, Jan. 19, 1977, gage height, 4.11 ft, from rating curve extended above 20 ft³/s datum then in use, probably result of release of water from beaver ponds; minimum discharge, 0.12 ft³/s, June 29, 1977, probably result of beaver activity upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34 ft³/s, Apr. 16, gage height, 56.86 ft; minimum discharge, 0.50 ft³/s, July 29.

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	1.5	3.1	5.2	6.9	4.6	4.5	9.1	4.0	3.3	2.0	0.87	1.1
2	1.4	15	4.5	6.1	4.4	4.4	9.8	3.7	3.1	2.0	0.95	1.0
3	1.4	7.9	4.1	5.3	4.3	4.2	10	3.5	2.6	1.9	1.3	1.0
4	1.3	4.7	4.8	e5.2	5.0	4.0	18	3.2	2.4	1.8	1.1	0.98
5	1.3	3.6	9.4	e5.0	5.9	3.8	15	2.9	2.3	1.7	0.90	1.0
6	1.3	3.2	7.6	e5.0	7.0	3.7	11	3.0	2.5	2.1	0.80	1.1
7	1.2	3.0	6.7	e10	8.6	3.5	16	2.7	2.5	2.2	0.75	1.2
8	2.4	2.8	8.4	e10	7.0	3.5	26	2.7	3.2	2.0	0.75	0.85
9	3.6	2.6	7.7	e8.0	5.7	3.6	18	3.1	3.4	2.1	0.74	2.2
10	3.2	2.5	10	e7.0	5.0	3.5	13	5.7	2.9	1.9	0.76	4.2
11	2.5	2.5	15	e6.0	4.6	3.4	18	5.4	3.8	1.8	1.1	3.4
12	2.2	2.7	11	e7.0	5.1	3.3	16	3.7	4.8	1.8	1.1	2.4
13	1.8	2.6	8.9	e6.0	15	3.2	13	3.3	3.8	1.6	0.93	1.9
14	1.6	2.8	9.4	e5.5	14	2.9	14	3.0	2.9	1.5	0.78	1.6
15	1.7	6.8	9.6	e5.0	9.7	2.9	13	3.7	3.1	1.5	0.78	1.5
16	2.9	7.0	8.2	e6.0	7.8	3.4	23	4.6	2.9	1.9	0.77	1.5
17	7.1	4.8	6.8	e13	6.8	4.9	25	4.7	6.9	2.5	1.3	1.7
18	6.0	4.4	6.1	e16	6.2	5.5	19	5.6	6.3	1.8	1.7	1.4
19	4.1	3.9	6.1	e11	5.7	5.0	15	8.8	4.0	1.5	1.4	1.4
20	3.3	3.4	5.8	e10	5.3	6.1	12	8.0	2.9	1.4	1.2	1.2
21	3.2	3.2	8.1	e10	4.9	6.1	10	7.9	2.4	1.3	1.0	1.2
22	3.0	3.5	9.0	e10	4.6	4.5	8.8	6.5	2.9	1.3	0.97	1.2
23	2.7	5.2	7.1	e10	4.4	4.1	7.7	4.9	3.4	1.3	0.93	1.2
24	2.4	11	6.0	e7.6	4.3	3.7	6.9	3.9	2.9	1.3	0.95	1.2
25	2.2	9.1	6.4	e6.6	4.2	3.4	6.1	3.1	2.3	2.0	0.93	1.2
26	2.2	7.0	8.9	e5.6	4.2	3.4	5.6	2.6	2.1	1.4	0.95	1.2
27	2.0	6.2	8.2	e5.6	4.2	6.5	5.2	2.6	2.4	1.1	0.92	1.2
28	1.9	4.8	6.8	e5.6	4.2	12	4.5	2.4	2.7	0.86	1.0	1.2
29	1.9	4.6	7.1	e4.6	---	9.5	4.2	2.0	2.5	0.73	1.0	1.2
30	2.7	5.8	9.3	e4.6	---	7.7	4.1	2.0	2.4	0.80	1.0	1.8
31	2.4	---	7.9	e4.6	---	6.3	---	2.5	---	0.86	1.1	---
TOTAL	78.4	149.7	240.1	228.8	172.7	146.5	377.0	125.7	95.6	49.95	30.73	45.23
MEAN	2.53	4.99	7.75	7.38	6.17	4.73	12.6	4.05	3.19	1.61	0.99	1.51
MAX	7.1	15	15	16	15	12	26	8.8	6.9	2.5	1.7	4.2
MIN	1.2	2.5	4.1	4.6	4.2	2.9	4.1	2.0	2.1	0.73	0.74	0.85
AC-FT	156	297	476	454	343	291	748	249	190	99	61	90
CFSM	0.32	0.63	0.98	0.93	0.78	0.60	1.59	0.51	0.40	0.20	0.13	0.19
IN.	0.37	0.70	1.13	1.07	0.81	0.69	1.77	0.59	0.45	0.23	0.14	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

MEAN	3.16	5.65	7.98	8.83	7.94	8.26	7.43	4.56	2.86	1.41	1.90	1.85
MAX	5.73	9.52	14.6	12.7	14.0	13.5	12.6	7.01	5.44	2.04	3.99	2.71
(WY)	(1976)	(1976)	(2002)	(1976)	(1975)	(1975)	(2005)	(1977)	(2001)	(2001)	(1976)	(1977)
MIN	2.06	2.77	4.28	4.43	3.58	4.73	2.80	2.67	1.30	0.63	0.47	0.92
(WY)	(1975)	(2003)	(2001)	(1977)	(1977)	(2005)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)

TULALIP AND MISSION CREEK BASINS

12157250 MISSION CREEK NEAR TULALIP, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1975 - 2005
ANNUAL TOTAL	1,644.79	1,740.41	
ANNUAL MEAN	4.49	4.77	5.24
HIGHEST ANNUAL MEAN			7.22
LOWEST ANNUAL MEAN			3.52
HIGHEST DAILY MEAN	40	May 28	49
LOWEST DAILY MEAN	0.46	Jul 26	0.13
ANNUAL SEVEN-DAY MINIMUM	0.49	Jul 25	0.25
ANNUAL RUNOFF (AC-FT)	3,260	3,450	3,790
ANNUAL RUNOFF (CFSM)	0.567	0.602	0.661
ANNUAL RUNOFF (INCHES)	7.73	8.17	8.98
10 PERCENT EXCEEDS	9.4	9.9	11
50 PERCENT EXCEEDS	2.9	3.6	3.7
90 PERCENT EXCEEDS	0.72	1.1	1.1

e Estimated