

TULALIP AND MISSION CREEK BASINS

12157250 MISSION CREEK NEAR TULALIP, WA

LOCATION.--Lat 48°03'31", long 122°15'58", in SW^{1/4}NW^{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 above 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.--6 years (water years 1975-77, 2002-04), 5.31 ft³/s, 9.12 in/yr, 3,850 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, 0.12 ft³/s, June 29, 1977, probably result of beaver activity upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft³/s, Nov. 19, gage height, 57.66 ft; minimum discharge, 0.27 ft³/s, July 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.6	3.4	4.3	21	7.5	4.8	1.4	4.7	0.54	0.48	1.3
2	1.2	2.4	4.0	4.0	17	6.8	4.3	1.2	3.5	0.63	0.66	4.5
3	1.1	2.2	9.8	3.7	15	7.4	4.0	1.3	2.7	1.7	0.54	2.6
4	1.4	2.1	8.8	3.4	14	13	3.7	1.4	2.1	1.4	0.47	1.7
5	1.5	2.0	9.1	2.9	13	14	3.6	1.8	1.6	0.76	0.47	1.5
6	1.4	1.9	15	2.9	12	11	3.5	1.7	1.9	0.75	0.82	1.4
7	1.8	1.9	11	4.0	12	9.5	3.3	1.7	2.1	1.9	1.7	1.3
8	1.9	2.0	8.5	9.9	12	8.6	3.2	1.7	1.9	1.7	1.4	1.2
9	1.7	2.0	6.9	11	10	7.9	3.1	1.7	1.7	0.82	1.1	1.2
10	1.6	3.1	6.1	8.8	9.0	7.5	3.0	1.5	2.5	0.89	0.79	1.2
11	1.5	8.5	6.3	7.3	8.1	6.9	3.0	1.5	4.4	0.83	0.68	2.4
12	1.7	6.8	5.9	6.1	7.6	6.5	2.9	1.5	3.5	0.73	0.61	2.9
13	2.0	4.6	5.4	5.3	7.1	6.3	2.7	1.4	2.8	0.70	0.55	3.2
14	2.1	3.7	4.9	5.0	7.5	6.0	2.7	1.4	2.4	0.69	0.51	4.0
15	1.9	3.3	4.4	5.3	8.1	5.8	2.7	1.4	2.1	0.78	0.81	3.6
16	2.4	3.7	4.4	5.2	8.7	5.7	2.9	1.9	1.7	0.69	0.67	3.3
17	4.7	4.3	4.6	4.8	10	5.9	2.8	1.8	1.4	0.65	0.51	4.0
18	6.0	7.8	4.4	4.6	11	6.2	2.7	1.6	1.2	0.67	0.55	3.7
19	3.8	44	4.1	4.4	10	5.8	2.7	1.4	1.2	0.71	0.54	3.1
20	4.5	22	4.2	4.1	9.9	5.3	2.7	1.3	0.88	0.62	0.55	2.4
21	10	11	3.8	3.8	8.9	4.9	2.6	1.2	0.88	0.57	0.50	2.0
22	8.1	6.7	3.6	3.7	8.0	4.7	2.3	2.0	0.84	0.65	1.7	1.9
23	6.0	5.1	3.5	5.8	7.4	4.7	2.2	2.5	0.78	0.65	2.2	1.9
24	4.9	5.0	3.7	16	6.9	5.1	2.2	1.7	0.80	0.54	2.0	1.9
25	3.6	5.7	3.8	24	6.7	5.6	2.1	1.5	0.90	0.48	2.5	1.8
26	2.9	5.5	3.9	16	6.8	5.9	1.9	3.4	0.94	0.46	2.6	1.7
27	2.4	4.6	4.5	12	8.1	5.9	1.8	7.8	0.82	0.50	1.8	1.6
28	2.4	4.0	6.4	10	8.5	5.5	1.8	40	0.73	0.52	1.4	1.6
29	3.3	4.0	5.7	26	8.8	5.0	1.5	18	0.71	0.48	1.2	1.6
30	3.4	3.7	4.7	36	---	4.6	1.4	8.2	0.79	0.51	1.1	1.5
31	2.9	---	4.5	27	---	5.1	---	5.7	---	0.51	0.98	---
TOTAL	95.2	186.2	179.3	287.3	293.1	210.6	84.1	122.6	54.47	24.03	32.39	68.0
MEAN	3.07	6.21	5.78	9.27	10.1	6.79	2.80	3.95	1.82	0.78	1.04	2.27
MAX	10	44	15	36	21	14	4.8	40	4.7	1.9	2.6	4.5
MIN	1.1	1.9	3.4	2.9	6.7	4.6	1.4	1.2	0.71	0.46	0.47	1.2
AC-FT	189	369	356	570	581	418	167	243	108	48	64	135
CFSM	0.39	0.78	0.73	1.17	1.28	0.86	0.35	0.50	0.23	0.10	0.13	0.29
IN.	0.45	0.87	0.84	1.35	1.38	0.99	0.40	0.58	0.26	0.11	0.15	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	3.27	5.76	8.02	9.04	8.19	8.77	6.69	4.63	2.81	1.38	2.03	1.90
MAX	5.73	9.52	14.6	12.7	14.0	13.5	12.2	7.01	5.44	2.04	3.99	2.71
(WY)	(1976)	(1976)	(2002)	(1976)	(1975)	(1975)	(1976)	(1977)	(2001)	(2001)	(1976)	(1977)
MIN	2.06	2.77	4.28	4.43	3.58	6.79	2.80	2.67	1.30	0.63	0.47	0.92
(WY)	(1975)	(2003)	(2001)	(1977)	(1977)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)

TULALIP AND MISSION CREEK BASINS

347

12157250 MISSION CREEK NEAR TULALIP, WA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1975 - 2004
ANNUAL TOTAL	1,450.08	1,637.29	
ANNUAL MEAN	3.97	4.47	
HIGHEST ANNUAL MEAN			5.31
LOWEST ANNUAL MEAN			7.22
HIGHEST DAILY MEAN	44	Nov 19	3.52
LOWEST DAILY MEAN	0.27	Aug 19	49 Dec 17, 2001
ANNUAL SEVEN-DAY MINIMUM	0.38	Aug 18	0.13 Jun 29, 1977
ANNUAL RUNOFF (AC-FT)	2,880	3,250	0.25 Jun 25, 1977
ANNUAL RUNOFF (CFSM)	0.502	0.565	3,850 0.671
ANNUAL RUNOFF (INCHES)	6.81	7.69	
10 PERCENT EXCEEDS	7.6	9.2	9.12
50 PERCENT EXCEEDS	3.4	2.9	12
90 PERCENT EXCEEDS	0.49	0.72	3.7
			1.1