

TULALIP AND MISSION CREEK BASINS

12158040 TULALIP CREEK NEAR TULALIP, WA

LOCATION.--Lat 48°04'07", long 122°17'10", in NW 1/4 SW 1/4 sec.22, T.30 N., R.4 E., Snohomish County, Hydrologic Unit 17110019, Tulalip Indian Reservation, on left bank 200 ft upstream from highway crossing, 0.15 mi east of Tulalip and 0.30 mi above mouth.

DRAINAGE AREA.--15.4 mi².

PERIOD OF RECORD.--October 1974 to September 1977, November 2000 to current year. Published as "at Tulalip" 1974-77.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 43.6 ft above NGVD of 1929, from precision Global Positioning System (GPS). October 1974 to September 1977, water-stage recorder, at site 600 ft upstream from highway crossing, at different datum.

REMARKS.--Records good except for estimated daily discharges, and discharges below 15 ft³/s, and above 80 ft³/s, which are fair. Some regulation at outlet of Lake Shoecraft, drainage area 6.12 mi², and natural regulation in lakes and ponds in basin. Minor diversions above station for domestic use from East Branch Tulalip Creek. Tulalip Fish Hatchery diverts entire flow at times from East Branch Tulalip Creek, and Tulalip Creek above East Branch for use in hatchery. Water is returned to creek above station. Chemical Analysis November 1974 to March 1977, water temperature October 1974 to March 1977.

AVERAGE DISCHARGE.--4 years (water years 1975-77, 2002), 13.0 ft³/s, 11.51 in/yr, 9,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft³/s Dec. 17, 2001, gage height, 97.81 ft; minimum discharge, 2.0 ft³/s Aug. 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 136 ft³/s Dec. 17, 2001, gage height 97.81 ft; minimum discharge, 4.4 ft³/s June 2, 3, 6, Sept. 1, 2002.

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	6.5	11	34	e23	35	18	21	14	9.4	6.9	6.3	5.4
2	6.4	9.1	27	e27	32	17	19	14	9.2	7.0	6.2	5.6
3	6.4	8.2	24	e25	31	16	19	14	8.9	6.7	6.3	5.7
4	6.3	8.0	26	e22	29	16	18	14	9.1	8.3	6.4	5.5
5	6.1	8.1	28	e21	28	15	18	16	9.6	7.5	8.2	5.4
6	6.1	7.5	27	e23	30	14	18	16	10	6.9	7.1	5.5
7	6.4	6.9	23	e30	32	14	18	15	8.1	7.8	7.0	e5.2
8	6.2	6.8	23	e33	37	16	17	14	7.8	15	6.6	e5.4
9	6.2	6.6	26	e25	31	16	19	14	7.7	10	6.3	e5.4
10	7.0	6.4	27	e21	29	19	23	13	7.3	8.2	5.8	e5.4
11	7.1	6.5	29	e18	31	19	22	13	7.3	7.3	5.6	e5.4
12	7.2	7.1	33	e18	28	17	18	12	6.8	7.2	5.6	5.6
13	8.0	8.1	42	e17	26	16	17	13	6.4	7.0	5.6	5.5
14	11	24	52	e17	24	33	26	15	6.3	7.0	5.2	5.6
15	8.8	29	36	e17	23	27	21	13	6.4	7.1	5.4	5.8
16	11	15	51	e16	23	29	24	12	6.4	6.9	5.4	6.8
17	11	12	99	e15	23	24	22	13	6.4	7.0	5.5	8.0
18	9.3	12	55	e16	24	22	20	13	9.6	7.1	5.6	6.7
19	15	17	44	e35	25	28	19	12	7.2	6.6	5.9	6.8
20	12	23	e37	e42	25	48	19	14	6.8	6.2	6.0	6.5
21	14	19	e32	e37	24	35	18	13	6.3	6.2	6.1	5.9
22	15	23	e29	e34	23	32	18	12	6.0	5.8	6.0	5.7
23	14	29	e28	e31	23	28	17	11	5.9	5.8	5.8	5.5
24	15	20	e27	30	23	27	16	11	6.0	5.8	5.6	5.7
25	21	18	e26	38	21	24	16	11	6.1	6.1	5.9	6.1
26	13	18	e24	34	20	22	16	12	5.8	6.5	6.0	5.8
27	28	15	e22	32	19	21	16	12	6.0	6.4	5.7	6.8
28	14	26	e20	33	19	22	16	11	7.5	6.5	5.7	5.8
29	11	49	e20	30	---	22	15	11	8.5	6.8	5.6	6.8
30	11	34	e20	34	---	20	15	10	6.9	6.7	5.6	7.7
31	14	---	e21	37	---	20	---	9.8	---	6.4	5.6	---
TOTAL	334.0	483.3	1012	831	738	697	561	397.8	221.7	222.7	185.6	179.0
MEAN	10.8	16.1	32.6	26.8	26.4	22.5	18.7	12.8	7.39	7.18	5.99	5.97
MAX	28	49	99	42	37	48	26	16	10	15	8.2	8.0
MIN	6.1	6.4	20	15	19	14	15	9.8	5.8	5.8	5.2	5.2
AC-FT	662	959	2010	1650	1460	1380	1110	789	440	442	368	355
CFSM	0.70	1.05	2.12	1.74	1.71	1.46	1.21	0.83	0.48	0.47	0.39	0.39
IN.	0.81	1.17	2.44	2.01	1.78	1.68	1.36	0.96	0.54	0.54	0.45	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, BY WATER YEAR (WY)

	MEAN	1975	1977	1977	1977	1977	1977	1976	2002	1976	2002	2002
MEAN	8.76	12.0	19.1	18.6	17.9	18.4	17.0	10.9	8.33	6.38	7.04	6.55
MAX	10.8	16.1	32.6	26.8	26.4	23.3	27.0	12.8	10.5	7.18	9.18	7.27
(WY)	2002	2002	2002	2002	2002	1975	1976	2002	2001	2002	1976	1977
MIN	5.69	8.60	9.05	8.06	7.63	12.7	10.5	8.84	7.39	5.84	5.99	5.97
(WY)	1975	1977	1977	1977	1977	1977	1977	1976	2002	1976	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1975 - 2002

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1975 - 2002
ANNUAL TOTAL	4730.8	5863.1	
ANNUAL MEAN	13.0	16.1	13.0
HIGHEST ANNUAL MEAN			16.1
LOWEST ANNUAL MEAN			8.75
HIGHEST DAILY MEAN	99	99	99
LOWEST DAILY MEAN	5.4	5.2	3.7
ANNUAL SEVEN-DAY MINIMUM	5.5	5.4	4.1
ANNUAL RUNOFF (AC-FT)	9380	11630	9450
ANNUAL RUNOFF (CFSM)	0.84	1.04	0.85
ANNUAL RUNOFF (INCHES)	11.43	14.16	11.51
10 PERCENT EXCEEDS	23	30	26
50 PERCENT EXCEEDS	11	14	9.4
90 PERCENT EXCEEDS	5.8	5.8	5.8

e Estimated