

Water-Data Report 2006

12157250 MISSION CREEK NEAR TULALIP, WA

Puget Sound Basin
Puget Sound Subbasin

LOCATION.--Lat 48°03'31", long 122°15'58" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.26, T.30 N., R.4 E., Snohomish County, WA, 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.

SURFACE-WATER RECORDS

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). Oct. 1974 to Sept. 1977, water-stage recorder, at site downstream from highway crossing, at different datum.

REMARKS.--Records fair, except for estimated daily discharges which are poor. Some natural regulation in lakes and beaver ponds. Chemical analysis Nov. 1974 to March 1977. Water temperatures Oct. 1974 to March 1977.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--8 years (water years 1975-77, 2002-06), 5.18 ft³/s, 8.89 in/yr, 3,760 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, 41 ft³/s, Jan 30, gage height, 57.03 ft; minimum discharge, 0.33 ft³/s, Aug 11, gage height, 55.05 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.2	e9.0	e4.5	12	22	11	17	4.1	3.5	0.87	0.62	0.98
2	2.3	e7.0	e4.0	9.3	17	9.4	18	3.6	3.4	0.87	0.64	0.90
3	e1.9	e5.0	e4.8	9.7	16	7.8	12	3.2	3.0	0.83	0.63	0.84
4	e1.8	e7.0	e4.6	8.2	17	6.9	9.9	2.9	3.4	0.85	0.58	0.82
5	e1.7	e8.0	e4.3	9.7	13	6.3	8.1	2.8	5.3	0.97	0.56	0.70
6	e1.8	e17	e3.9	20	11	5.8	7.0	2.5	4.5	1.0	0.55	0.79
7	e2.3	e5.0	e3.6	15	9.9	5.5	6.0	2.7	3.3	1.2	0.53	0.79
8	e1.9	e3.8	e3.3	12	8.8	6.7	5.6	3.2	2.6	1.2	0.54	0.79
9	e1.8	e2.6	3.0	11	e8.0	9.0	9.6	3.0	3.0	1.1	0.62	1.2
10	e1.9	e2.2	2.9	19	e7.3	8.1	13	2.7	2.5	0.93	0.63	1.7
11	e1.8	e2.8	2.7	21	6.6	7.0	9.8	2.4	2.7	0.92	0.53	1.7
12	e1.9	e2.4	2.7	16	6.1	6.2	8.0	2.5	2.5	0.94	0.61	1.4
13	e2.1	e3.1	2.7	14	6.1	5.6	7.0	2.3	2.6	1.1	0.62	1.2
14	e2.1	e2.4	2.6	13	7.4	5.3	7.1	2.2	2.6	1.4	0.66	1.7
15	e2.8	e2.3	2.4	12	7.3	5.1	8.6	2.6	3.4	1.5	0.63	2.2
16	e2.4	e2.2	2.6	13	6.3	5.1	9.4	3.3	2.2	1.3	0.58	2.0
17	e2.8	e2.1	2.4	17	5.4	5.1	7.7	2.2	1.9	1.00	0.57	1.6
18	e3.0	e2.1	2.6	13	5.0	7.2	6.3	1.7	1.9	0.94	0.56	1.9
19	e3.1	e2.0	2.2	11	4.6	7.2	5.4	1.4	1.8	0.95	0.57	2.3
20	e3.1	e2.0	3.3	12	4.4	6.1	5.1	1.6	1.6	0.92	0.56	2.4
21	e3.0	e2.0	5.2	12	4.6	5.4	5.5	1.7	1.4	0.82	0.66	4.0
22	e2.9	e2.1	8.8	9.9	5.5	5.3	5.4	2.0	1.3	0.76	0.62	3.5
23	e3.1	e2.2	7.1	10	9.4	5.2	4.8	2.5	1.3	0.74	0.60	2.6
24	e3.4	e2.2	9.5	9.5	9.5	6.4	4.2	4.3	1.3	0.69	0.58	2.0
25	e3.1	e7.0	20	8.5	7.2	6.8	3.9	4.5	1.2	0.63	0.60	1.7
26	e3.2	e9.0	15	7.8	6.5	6.0	3.6	3.4	1.2	0.65	0.63	1.4
27	e2.9	e5.0	10	7.3	6.6	5.3	3.5	3.4	1.1	0.60	0.70	1.2
28	e3.1	e3.9	9.4	9.3	9.6	5.3	3.3	7.7	1.0	0.60	0.65	1.1
29	e3.1	e4.5	9.5	11	---	5.5	3.4	12	0.96	0.62	0.61	1.1
30	e3.1	e6.5	9.1	35	---	7.1	4.4	6.9	0.96	0.67	0.98	1.0
31	e5.5	---	17	28	---	7.4	---	4.3	---	0.74	1.0	---
Total	81.1	134.4	185.7	416.2	248.1	202.1	222.6	105.6	69.42	28.31	19.42	47.51
Mean	2.62	4.48	5.99	13.4	8.86	6.52	7.42	3.41	2.31	0.91	0.63	1.58
Max	5.5	17	20	35	22	11	18	12	5.3	1.5	1.0	4.0
Min	1.7	2.0	2.2	7.3	4.4	5.1	3.3	1.4	0.96	0.60	0.53	0.70
Ac-ft	161	267	368	826	492	401	442	209	138	56	39	94
Cfsm	0.33	0.57	0.76	1.70	1.12	0.82	0.94	0.43	0.29	0.12	0.08	0.20
In.	0.38	0.63	0.87	1.95	1.17	0.95	1.05	0.50	0.33	0.13	0.09	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.10	5.51	7.76	9.34	8.04	8.07	7.42	4.43	2.80	1.36	1.76	1.82
Max	5.73	9.52	14.6	13.4	14.0	13.5	12.6	7.01	5.44	2.04	3.99	2.71
(WY)	(1976)	(1976)	(2002)	(2006)	(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)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1975 - 2006	
Annual total	1,673.41		1,760.46			
Annual mean	4.58		4.82		5.18	
Highest annual mean					7.22	1976
Lowest annual mean					3.52	2003
Highest daily mean	26	Apr 8	35	Jan 30	49	Dec 17, 2001
Lowest daily mean	0.73	Jul 29	0.53	Aug 7	0.13	Jun 29, 1977
Annual seven-day minimum	0.83	Aug 4	0.57	Aug 5	0.25	Jun 25, 1977
Annual runoff (ac-ft)	3,320		3,490		3,760	
Annual runoff (cfsm)	0.579		0.609		0.655	
Annual runoff (inches)	7.86		8.27		8.89	
10 percent exceeds	9.9		10		11	
50 percent exceeds	3.2		3.1		3.6	
90 percent exceeds	1.1		0.70		1.0	

