

12102075 CLARKS CREEK AT TACOMA ROAD, NEAR PUYALLUP, WA

Puget Sound Basin
Puyallup Subbasin

LOCATION.--Lat 47°11'52", long 122°20'10" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.30, T.20 N., R.4 E., Pierce County, WA, Hydrologic Unit 17110014, 7.0 miles southeast of Tacoma and 1.6 miles upstream of the mouth at Puyallup River, located on the right bank directly upstream of bridge at the end of Tacoma Road.

DRAINAGE AREA.--13 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1992 to February 1995 (discharge measurements only). March 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Records fair. No estimated daily discharges. Numerous agricultural, municipal, and domestic diversions upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--11 years (water year 1996-2006), 57.6 ft³/s, 60.16 in/yr, 41,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 190 ft³/s, Nov. 14, 2001, elevation 23.13 ft, but was possibly exceeded Feb. 8 or 9, 1996(discharge undetermined, affected by backwater from the Puyallup River); maximum elevation, 25.60 ft, Feb. 8 or 9, 1996, from inside high-water mark; minimum daily discharge, 33 ft³/s, June 26-29, 1995, July 14, 19, 21, 23, 2004; July 4, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 161 ft³/s, Jan 11, elevation, 22.05 ft; minimum daily discharge, 38 ft³/s, Oct 4, 5, Mar 22.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	41	81	49	55	64	44	47	45	46	47	43	47
2	41	51	55	54	73	43	41	44	55	48	43	47
3	39	48	52	47	60	43	41	44	44	48	43	48
4	38	52	47	47	74	42	41	43	51	49	43	48
5	38	64	47	76	57	42	40	43	44	50	43	47
6	40	59	46	83	52	42	39	43	43	49	44	48
7	43	49	45	88	49	41	40	43	41	49	42	48
8	40	46	45	63	50	47	42	42	43	49	43	48
9	39	45	44	70	47	46	41	41	42	49	45	49
10	40	45	44	131	46	45	40	41	43	49	45	49
11	41	52	44	136	46	43	40	41	42	50	45	49
12	41	49	44	100	45	42	41	40	44	51	45	49
13	43	55	44	94	46	41	44	39	46	51	45	49
14	41	46	43	87	45	41	55	39	42	50	44	50
15	45	45	43	68	44	41	47	39	44	48	45	51
16	42	45	42	73	44	41	45	40	43	48	46	50
17	42	45	42	79	44	43	43	39	43	47	46	51
18	43	45	42	65	44	43	43	39	44	48	46	56
19	44	45	44	60	44	41	43	39	44	47	46	54
20	43	45	46	75	43	40	43	41	44	46	46	53
21	43	45	54	61	43	39	44	41	46	45	45	54
22	43	45	64	55	43	38	44	46	46	44	46	52
23	44	45	62	53	44	39	44	44	46	44	46	51
24	43	45	93	52	42	42	44	44	46	42	47	51
25	43	67	77	52	42	40	46	46	46	41	46	51
26	44	50	68	52	42	40	46	48	45	42	46	52
27	43	46	66	52	46	39	46	45	45	42	46	52
28	46	45	66	59	55	41	46	44	46	42	46	52
29	47	63	58	68	---	40	51	43	47	43	46	52
30	44	51	70	114	---	39	47	41	47	43	48	52
31	73	---	71	70	---	40	---	42	---	43	47	---
Total	1,337	1,514	1,657	2,239	1,374	1,288	1,314	1,309	1,348	1,444	1,397	1,510
Mean	43.1	50.5	53.5	72.2	49.1	41.5	43.8	42.2	44.9	46.6	45.1	50.3
Max	73	81	93	136	74	47	55	48	55	51	48	56
Min	38	45	42	47	42	38	39	39	41	41	42	47
Ac-ft	2,650	3,000	3,290	4,440	2,730	2,550	2,610	2,600	2,670	2,860	2,770	3,000
Cfs/m	3.32	3.88	4.11	5.56	3.77	3.20	3.37	3.25	3.46	3.58	3.47	3.87
In.	3.83	4.33	4.74	6.41	3.93	3.69	3.76	3.75	3.86	4.13	4.00	4.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	55.8	63.2	65.2	65.5	60.7	57.6	57.3	53.4	50.5	50.0	52.3	52.4
Max	68.0	75.9	84.3	83.3	88.8	87.6	82.3	77.6	67.9	66.2	66.3	64.6
(WY)	(1998)	(1999)	(1997)	(1997)	(1996)	(1997)	(1997)	(1997)	(1998)	(1999)	(1997)	(1997)
Min	43.1	50.5	48.9	55.4	46.9	41.5	42.9	38.7	37.1	35.1	38.5	36.7
(WY)	(2006)	(2006)	(2004)	(2005)	(2005)	(2006)	(2004)	(2005)	(2005)	(2004)	(2005)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1995 - 2006	
Annual total	16,366		17,731			
Annual mean	44.8		48.6		57.6	
Highest annual mean					73.8	1997
Lowest annual mean					45.8	2005
Highest daily mean	140	Jan 18	136	Jan 11	190	Feb 9, 1996
Lowest daily mean	33	Jul 4	38	Oct 4	33	Jun 26, 1995
Annual seven-day minimum	34	Jun 29	39	May 13	34	Jul 19, 2004
Annual runoff (ac-ft)	32,460		35,170		41,700	
Annual runoff (cfsm)	3.45		3.74		4.43	
Annual runoff (inches)	46.83		50.74		60.16	
10 percent exceeds	52		60		73	
50 percent exceeds	44		45		55	
90 percent exceeds	35		41		42	

