



Water-Data Report 2006

12210900 ANDERSON CREEK AT SMITH ROAD, NEAR GOSHEN, WA

Puget Sound Basin
Nooksack Subbasin

LOCATION.--Lat 48°49'58", long 122°20'16" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.30, T.39 N., R.4 E., Whatcom County, WA, Hydrologic Unit 17110004, on left bank on the downstream side of Smith Road bridge, 1.5 mi south of Goshen, and at mile 3.0.

DRAINAGE AREA.--8.96 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No known diversions or regulation upstream of station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--8 years (water years 1999-2006) 21.1 ft³/s, 31.99 in/yr, 15,280 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft³/s, Nov. 24, 2004, gage height, 11.51 ft; minimum discharge, no flow many days in August and September 2002 and 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 339 ft³/s, Jan. 30; minimum daily discharge, 0.03 ft³/s, on several days in August and September.

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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	3.4	124	e24	e82	e130	24	e20	8.0	9.5	0.32	0.20	0.12
2	2.4	56	e22	e55	e89	e23	e18	6.9	12	0.30	0.17	0.08
3	2.2	34	e18	e47	e60	e17	e15	6.2	7.5	0.28	0.18	0.05
4	1.8	63	e16	e32	e240	e14	e14	5.2	19	0.27	0.18	0.04
5	1.7	67	e19	e57	e311	e14	e13	4.5	32	0.25	0.16	0.03
6	1.9	158	20	e132	e102	e13	e9.7	4.0	20	0.25	0.14	0.03
7	9.6	e91	15	e119	e53	e13	7.8	6.1	12	0.25	0.12	0.03
8	4.8	e64	13	e97	e43	e16	7.4	4.9	11	0.25	0.08	0.03
9	3.3	e43	11	e129	e32	e24	10	4.1	13	0.23	0.24	0.15
10	3.3	e58	10	e333	e25	e27	9.7	3.7	9.0	0.24	0.57	0.18
11	3.2	e57	9.8	e225	e20	e19	8.1	3.6	7.4	0.24	0.42	0.11
12	2.8	e45	9.4	e159	e18	e15	8.7	3.3	6.2	0.42	0.26	0.08
13	3.0	e87	9.4	e144	e19	e13	11	3.1	15	0.75	0.22	0.07
14	2.8	e69	8.7	e93	e16	e12	104	2.9	5.1	0.47	0.19	0.14
15	3.0	e40	8.0	e43	e14	e12	65	2.9	3.0	0.33	0.17	0.15
16	4.3	e32	6.0	e85	e13	e12	60	2.6	2.3	0.28	0.17	0.14
17	96	e22	5.2	e141	e11	e11	27	2.4	1.8	0.25	0.16	0.12
18	47	e19	4.2	e47	e11	e10	19	2.3	1.4	0.23	0.16	0.16
19	18	e15	6.6	e31	e12	9.4	16	2.3	1.2	0.21	0.14	0.97
20	14	e14	18	e49	e11	9.1	14	2.7	1.0	0.20	0.11	0.54
21	9.5	e13	23	e28	e10	8.6	29	2.4	0.96	0.19	0.09	0.86
22	7.0	e11	e35	e19	e11	8.7	20	4.7	0.91	0.19	0.06	0.57
23	7.0	e9.9	e63	e14	106	9.8	14	4.8	0.82	0.19	0.03	0.38
24	7.0	e9.3	e102	e12	36	15	11	4.2	0.79	0.24	0.04	0.32
25	5.6	e67	e204	e9.8	22	e14	9.2	21	0.70	0.22	0.07	0.28
26	5.8	e75	e108	e25	23	e13	8.2	17	0.60	0.22	0.06	0.24
27	4.6	e43	e96	e18	33	e11	8.0	13	0.49	0.22	0.04	0.22
28	6.7	e27	e88	e18	31	e15	7.1	14	0.40	0.22	0.03	0.20
29	19	e25	e72	e54	---	e14	10	11	0.38	0.22	0.03	0.19
30	12	e30	e50	339	---	e13	9.8	8.3	0.33	0.22	0.19	0.18
31	58	---	e82	111	---	e12	---	6.7	---	0.22	0.19	---
Total	370.7	1,468.2	1,176.3	2,747.8	1,502	441.6	583.7	188.8	195.78	8.37	4.87	6.66
Mean	12.0	48.9	37.9	88.6	53.6	14.2	19.5	6.09	6.53	0.27	0.16	0.22
Max	96	158	204	339	311	27	104	21	32	0.75	0.57	0.97
Min	1.7	9.3	4.2	9.8	10	8.6	7.1	2.3	0.33	0.19	0.03	0.03
Ac-ft	735	2,910	2,330	5,450	2,980	876	1,160	374	388	17	9.7	13
Cfsm	1.33	5.46	4.23	9.89	5.99	1.59	2.17	0.68	0.73	0.03	0.02	0.02
In.	1.54	6.10	4.88	11.41	6.24	1.83	2.42	0.78	0.81	0.03	0.02	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11.1	41.7	43.0	52.6	32.5	29.5	23.6	9.86	6.46	1.60	0.71	1.17
Max	39.9	82.9	70.6	88.6	62.1	53.7	50.4	28.0	16.7	5.03	2.00	4.05
(WY)	(2004)	(2005)	(2002)	(2006)	(1999)	(1999)	(2005)	(2000)	(2000)	(1999)	(2004)	(2004)
Min	0.72	5.56	19.9	27.4	12.4	14.2	5.29	1.81	1.29	0.27	0.10	0.08
(WY)	(2003)	(2003)	(2003)	(2001)	(2005)	(2006)	(2004)	(2005)	(2005)	(2006)	(2002)	(2003)

12210900 ANDERSON CREEK AT SMITH ROAD, NEAR GOSHEN, WA—Continued**SUMMARY STATISTICS**

	Calendar Year 2005	Water Year 2006		Water Years 1999 - 2006	
Annual total	7,538.83	8,694.78			
Annual mean	20.7	23.8		21.1	
Highest annual mean				25.1	2000
Lowest annual mean				10.7	2003
Highest daily mean	438	Jan 18	339	Jan 30	499 Nov 19, 2003
Lowest daily mean	0.26	Aug 15	0.03	Aug 23	0.00 Aug 15, 2002
Annual seven-day minimum	0.36	Aug 10	0.04	Sep 2	0.00 Aug 15, 2002
Maximum peak flow				790	Nov 19, 2003
Maximum peak stage				11.30	Nov 19, 2003
Instantaneous low flow				0.00	Aug 27, 2003
Annual runoff (ac-ft)	14,950	17,250		15,280	
Annual runoff (cfs·m)	2.31	2.66		2.35	
Annual runoff (inches)	31.30	36.10		31.99	
10 percent exceeds	58	67		56	
50 percent exceeds	6.2	9.5		7.1	
90 percent exceeds	0.75	0.17		0.37	

