



Water-Data Report 2007

12202310 CARPENTER CREEK NEAR BELLINGHAM, WA

Puget Sound Basin
Strait of Georgia Subbasin

LOCATION.--Lat 48°45'15", long 122°21'10" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.30, T.38 N., R.4 E., Whatcom County, WA, Hydrologic Unit 17110002, on left bank 60 ft upstream from North Shore Drive, 8.2 mi east of Bellingham, and 0.1 mi upstream from Lake Whatcom.

DRAINAGE AREA.--1.17 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except November 6 to January 2, January 19-23, March 11-31, April 28 May 2, June 22 August 14 and estimated daily discharges, which are poor. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--5 years (water years 2003-07), 2.11 ft³/s, 24.47 in/yr, 1,530 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 87 ft³/s, Nov. 25, 2004, maximum gage height, 9.82 ft, Nov. 19, 2003, backwater from culvert; minimum daily discharge, no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 17 ft³/s, Jan. 2; minimum discharge, no flow on many days in July, August, and September.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.04	0.38	2.4	4.0	1.4	2.0	2.4	1.3	0.08	0.05	0.01	0.00
2	0.07	0.51	2.1	17	1.3	1.9	2.2	0.68	0.09	0.03	0.01	0.00
3	0.10	0.82	1.8	15	1.3	2.0	2.1	0.51	0.09	0.03	0.01	0.00
4	0.11	2.5	2.6	10	1.6	1.9	2.0	0.55	0.09	0.02	0.00	0.01
5	0.11	2.1	3.8	6.9	1.6	1.9	1.8	0.43	0.09	0.02	0.01	0.01
6	0.12	15	3.5	13	1.5	1.8	1.8	0.38	0.11	0.02	0.01	0.00
7	0.13	7.5	3.5	12	1.4	2.4	1.8	0.42	0.09	0.02	0.01	0.00
8	0.15	4.3	3.4	7.7	1.4	3.7	1.9	0.33	0.08	0.03	0.01	0.00
9	0.15	2.6	3.0	5.4	1.3	3.4	2.4	0.27	0.10	0.03	0.00	0.00
10	0.17	3.6	2.5	3.7	1.2	3.3	1.9	0.25	0.13	0.03	0.00	0.00
11	0.18	4.2	2.6	2.7	1.2	11	1.7	0.21	0.12	0.03	0.00	0.00
12	0.15	5.5	2.8	2.4	1.1	13	1.6	0.24	0.10	0.02	0.00	0.00
13	0.17	12	5.2	2.1	1.1	7.6	1.6	0.21	0.08	0.03	0.00	0.00
14	0.19	5.9	8.5	1.9	1.3	5.4	1.7	0.19	0.09	0.02	0.00	0.00
15	0.23	6.9	15	1.7	2.3	4.3	1.5	0.18	0.09	0.01	0.00	0.00
16	0.19	6.1	7.9	1.7	2.3	4.4	1.7	0.18	0.09	0.02	0.00	0.00
17	0.16	4.5	6.4	1.6	2.1	5.4	2.4	0.17	0.11	0.04	0.00	0.01
18	0.19	2.9	4.5	2.3	2.0	8.6	2.0	0.15	0.10	0.05	0.00	0.06
19	0.21	3.3	3.9	5.1	2.7	6.2	1.8	0.17	0.09	0.08	0.03	0.05
20	0.20	3.2	3.6	5.4	5.8	4.5	1.5	0.24	0.08	0.09	0.02	0.02
21	0.22	4.7	5.8	4.1	4.1	3.2	1.4	0.53	0.06	0.06	0.03	0.02
22	0.21	2.7	5.0	4.5	3.0	3.4	1.4	0.27	0.07	0.11	0.02	0.02
23	0.21	3.1	6.4	7.1	2.8	4.2	1.3	0.21	0.08	0.08	0.01	0.01
24	0.24	5.3	6.1	4.7	2.8	7.7	1.5	0.21	0.12	0.05	0.01	0.01
25	0.25	5.4	11	3.1	2.6	7.1	1.6	0.17	0.15	0.03	0.02	0.01
26	0.28	4.4	7.1	2.4	2.6	4.8	1.6	0.18	0.07	0.03	0.04	0.01
27	0.30	3.0	6.4	2.1	2.3	3.9	2.2	0.15	0.04	0.01	0.01	0.02
28	0.30	2.2	4.9	2.0	2.2	3.3	4.3	0.14	0.04	0.01	0.01	0.04
29	0.41	1.9	4.2	1.8	---	2.8	3.1	0.11	0.04	0.02	0.00	0.02
30	0.30	2.6	3.6	1.6	---	2.6	1.9	0.10	0.05	0.01	0.00	0.10
31	0.35	---	3.0	1.6	---	2.5	---	0.09	---	0.01	0.00	---
Total	6.09	129.11	152.5	156.6	58.3	140.2	58.1	9.22	2.62	1.09	0.27	0.42
Mean	0.20	4.30	4.92	5.05	2.08	4.52	1.94	0.30	0.09	0.04	0.01	0.01
Max	0.41	15	15	17	5.8	13	4.3	1.3	0.15	0.11	0.04	0.10
Min	0.04	0.38	1.8	1.6	1.1	1.8	1.3	0.09	0.04	0.01	0.00	0.00
Ac-ft	12	256	302	311	116	278	115	18	5.2	2.2	0.5	0.8
Cfsm	0.17	3.68	4.20	4.32	1.78	3.87	1.66	0.25	0.07	0.03	0.01	0.01
In.	0.19	4.11	4.85	4.98	1.85	4.46	1.85	0.29	0.08	0.03	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.21	4.46	4.40	6.05	3.02	2.74	2.45	0.54	0.24	0.07	0.04	0.08
Max	3.51	8.58	9.85	9.03	4.32	4.52	5.49	1.06	0.67	0.22	0.16	0.39
(WY)	(2004)	(2005)	(2005)	(2005)	(2004)	(2007)	(2005)	(2003)	(2006)	(2005)	(2004)	(2004)
Min	0.01	0.30	1.67	5.03	1.94	1.25	0.56	0.30	0.09	0.03	0.01	0.01
(WY)	(2003)	(2003)	(2003)	(2003)	(2005)	(2006)	(2004)	(2007)	(2007)	(2003)	(2003)	(2002)

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	Calendar Year 2006	Water Year 2007	Water Years 2002 - 2007	
Annual total	678.88	714.52		
Annual mean	1.86	1.96	2.11	
Highest annual mean			3.30	2005
Lowest annual mean			1.41	2006
Highest daily mean	18 Jan 30	17 Jan 2	87 Nov 25,	2004
Lowest daily mean	0.00 Aug 29	0.00 Aug 4	0.00 Aug 23,	2002
Annual seven-day minimum	0.00 Sep 2	0.00 Aug 9	0.00 Aug 23,	2002
Annual runoff (ac-ft)	1,350	1,420	1,530	
Annual runoff (cfsm)	1.59	1.67	1.80	
Annual runoff (inches)	21.58	22.72	24.47	
10 percent exceeds	5.1	5.4	4.8	
50 percent exceeds	0.98	0.53	0.66	
90 percent exceeds	0.03	0.01	0.01	

