

Water-Data Report 2008

12069550 BIG BEEF CREEK NEAR SEABECK, WA

Puget Sound Basin
Hood Canal Subbasin

LOCATION.--Lat 47°38'27", long 122°47'02" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.22, T.25 N., R.1 W., Kitsap County, WA, Hydrologic Unit 17110018, on left bank 1.1 mi upstream from county road bridge across Big Beef Harbor, and 1.9 mi east of Seabeck.

Gage was moved about 200 ft downstream in July 2008.

DRAINAGE AREA.--13.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1969 to October 1981, June 1983 to September 1995 (seasonal records), October 1995 to December 2007, July 2008 to current year.

REVISED RECORDS.--WDR WA-76-1: 1975(M).

GAGE.--Water-stage recorder. Elevation of gage is 40 ft above NGVD of 1929, from topographic map. Prior to July 7, 1978, at site 110 ft downstream at datum 2.03 ft lower.

REMARKS.--Records fair. Flow regulated by Lake William Symington, 4.6 mi upstream. No diversions upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--24 years (water years 1970-81, 1996-2007), 40.9 ft³/s, 40.25 in/yr, 29,610 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft³/s, Dec. 3, 1997, gage height, 7.44 ft, from flood marks, on basis of slope-area measurement at gage height of 6.97 ft; minimum discharge, 2.2 ft³/s, Aug. 12-17, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,240 ft³/s, Dec. 3, gage height, 7.44 ft, from flood marks; minimum discharge, 2.8 ft³/s, Aug. 16, 17, gage height, 0.81 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	8.9	21	---	---	---	---	---	---	---	4.2	3.8
2	10	8.6	54	---	---	---	---	---	---	---	4.0	3.7
3	7.9	8.9	---	---	---	---	---	---	---	---	4.5	3.7
4	6.9	9.1	---	---	---	---	---	---	---	---	4.1	3.5
5	6.3	8.7	---	---	---	---	---	---	---	---	3.8	3.4
6	6.2	8.7	---	---	---	---	---	---	---	---	3.6	3.4
7	7.3	8.6	---	---	---	---	---	---	---	---	3.5	3.3
8	8.2	8.6	---	---	---	---	---	---	---	---	3.4	3.8
9	9.1	9.4	---	---	---	---	---	---	---	---	3.4	3.7
10	8.5	11	---	---	---	---	---	---	---	---	3.4	3.6
11	7.7	13	---	---	---	---	---	---	---	---	3.3	3.5
12	7.2	39	---	---	---	---	---	---	---	---	3.3	3.3
13	7.0	53	---	---	---	---	---	---	---	---	3.2	3.3
14	6.7	35	---	---	---	---	---	---	---	---	3.1	3.3
15	6.6	39	---	---	---	---	---	---	---	---	3.1	3.3
16	7.6	147	---	---	---	---	---	---	---	---	3.0	3.3
17	7.8	118	---	---	---	---	---	---	---	---	3.2	3.2
18	13	83	---	---	---	---	---	---	---	---	3.4	3.3
19	21	59	---	---	---	---	---	---	---	---	3.3	3.6
20	31	45	---	---	---	---	---	---	---	---	4.4	3.9
21	26	36	---	---	---	---	---	---	---	---	3.9	3.9
22	20	31	---	---	---	---	---	---	---	---	3.5	3.7
23	16	27	---	---	---	---	---	---	---	---	3.4	3.6
24	14	24	---	---	---	---	---	---	---	---	3.9	3.9
25	13	23	---	---	---	---	---	---	---	---	4.7	4.0
26	11	22	---	---	---	---	---	---	---	---	4.8	4.0
27	11	23	---	---	---	---	---	---	---	---	4.6	3.9
28	9.9	22	---	---	---	---	---	---	---	---	4.4	4.5
29	9.5	23	---	---	---	---	---	---	---	e3.7	4.3	4.5
30	9.2	22	---	---	---	---	---	---	---	3.7	4.0	4.4
31	9.1	---	---	---	---	---	---	---	---	3.8	3.9	---
Total	349.7	974.5	---	---	---	---	---	---	---	---	116.6	110.3
Mean	11.3	32.5	---	---	---	---	---	---	---	---	3.76	3.68
Max	31	147	---	---	---	---	---	---	---	---	4.8	4.5
Min	6.2	8.6	---	---	---	---	---	---	---	---	3.0	3.2
Ac-ft	694	1,930	---	---	---	---	---	---	---	---	231	219
Cfsm	0.82	2.35	---	---	---	---	---	---	---	---	0.27	0.27
In.	0.94	2.63	---	---	---	---	---	---	---	---	0.31	0.30

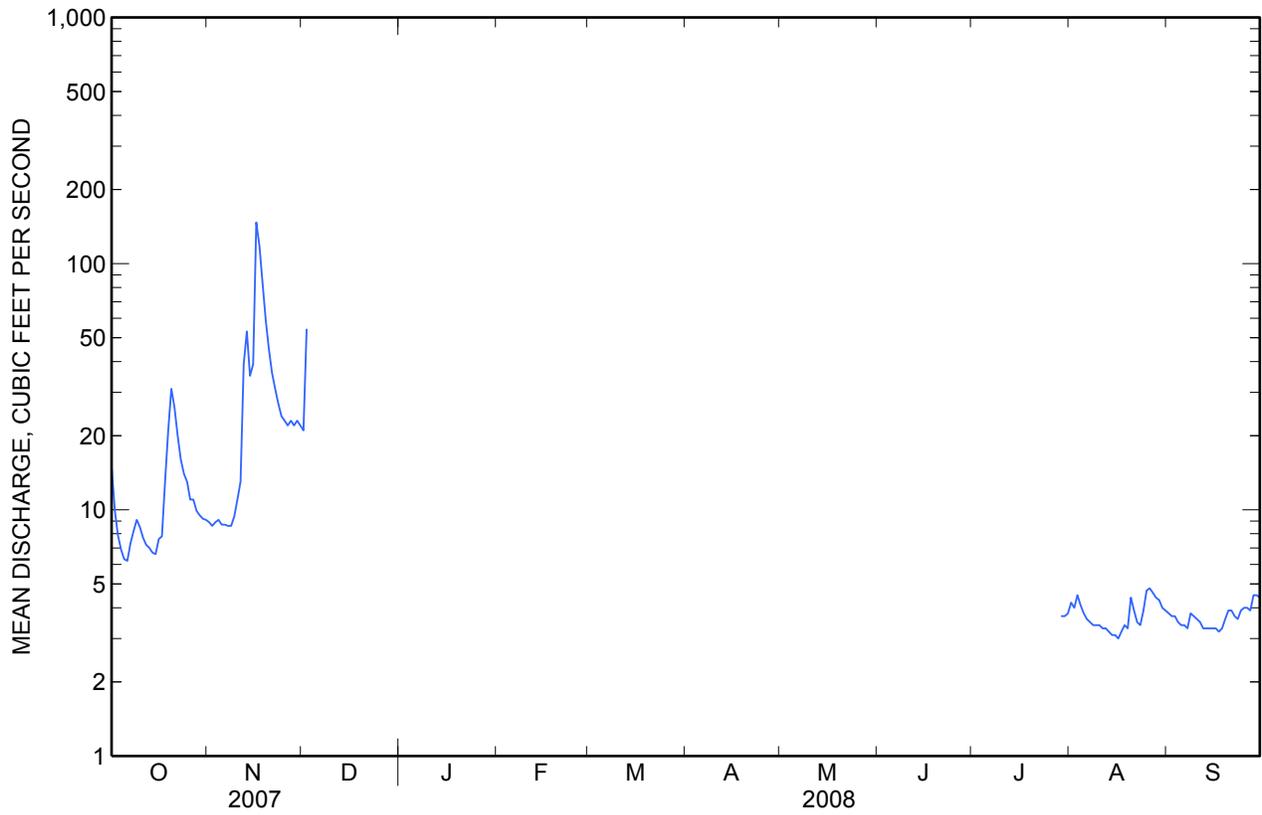
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.7	49.2	103	98.3	78.9	66.3	33.5	16.9	9.60	5.63	4.21	5.19
Max	77.4	136	205	202	300	144	67.6	37.8	17.9	10.5	8.41	21.0
(WY)	(1998)	(1976)	(1999)	(2006)	(1999)	(1997)	(1996)	(1996)	(2000)	(1997)	(1975)	(1978)
Min	3.33	4.23	8.03	9.65	15.0	27.5	11.1	9.32	5.05	3.57	2.48	2.56
(WY)	(2003)	(1994)	(1977)	(1977)	(1977)	(1996)	(1977)	(1977)	(1989)	(1991)	(1994)	(1994)

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SUMMARY STATISTICS

Water Years 1969 - 2008	
Annual mean	40.9
Highest annual mean	82.1 1999
Lowest annual mean	14.9 1977
Highest daily mean	1,600 Jan 1, 1997
Lowest daily mean	2.2 Aug 13, 1990
Annual seven-day minimum	2.3 Aug 11, 1990
Annual runoff (ac-ft)	29,610
Annual runoff (cfsm)	2.96
Annual runoff (inches)	40.25
10 percent exceeds	100
50 percent exceeds	16
90 percent exceeds	3.8



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2006 to October 2007 (discontinued).

CHEMICAL DATA: April to June 2007, August 2007.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 2006 to October 2007 (discontinued).

INSTRUMENTATION.--Temperature recorder with 15-minute logging interval from October 27 to February 1, 2007; one-hour logging interval from February 2 to October 16, 2007.

REMARKS.--Temperature records rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 17.6°C, July 11, 2007; minimum recorded, 1.9°C, November 29 and 30, 2006.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	12.0	10.8	11.3	---	---	---	---	---	---	---	---	---
2	12.5	11.7	11.9	---	---	---	---	---	---	---	---	---
3	11.7	10.9	11.3	---	---	---	---	---	---	---	---	---
4	10.9	10.2	10.6	---	---	---	---	---	---	---	---	---
5	10.6	9.7	10.2	---	---	---	---	---	---	---	---	---
6	10.6	10.0	10.3	---	---	---	---	---	---	---	---	---
7	11.1	10.5	10.8	---	---	---	---	---	---	---	---	---
8	10.9	10.6	10.8	---	---	---	---	---	---	---	---	---
9	10.9	10.5	10.7	---	---	---	---	---	---	---	---	---
10	11.7	10.8	11.1	---	---	---	---	---	---	---	---	---
11	11.1	10.2	10.7	---	---	---	---	---	---	---	---	---
12	11.3	10.3	10.7	---	---	---	---	---	---	---	---	---
13	10.5	9.2	9.9	---	---	---	---	---	---	---	---	---
14	10.6	9.2	9.9	---	---	---	---	---	---	---	---	---
15	10.5	9.9	10.2	---	---	---	---	---	---	---	---	---
16	10.5	9.9	10.1	---	---	---	---	---	---	---	---	---
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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
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