



Water-Data Report 2008

12115700 BOULDER CREEK NEAR CEDAR FALLS, WA

Puget Sound Basin
Lake Washington Subbasin

LOCATION.--Lat 47°21'59", long 121°41'30" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.29, T.22 N., R.9 E., King County, WA, Hydrologic Unit 17110012, Snoqualmie National Forest, on left bank 5.8 mi southeast of Cedar Falls, and at mile 0.4.

DRAINAGE AREA.--4.64 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,610 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--25 years (water years 1984-2008), 24.2 ft³/s, 71.00 in/yr, 17,570 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s, Nov. 23, 1986, gage height, 4.16 ft; maximum gage height, 5.37 ft, Feb. 8, 1996; minimum discharge, no flow for many days during July through October most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 310 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 17	1600	*230	*3.62

Minimum daily discharge, 0.28 ft³/s, Aug. 17.

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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	13	5.4	3.8	6.7	3.7	49	6.4	33	55	49	5.9	6.3
2	35	4.1	18	6.2	3.3	37	5.8	29	50	41	3.6	5.4
3	46	3.8	102	6.0	3.0	29	5.7	29	64	50	2.8	4.7
4	23	4.2	164	6.2	2.8	25	5.7	33	73	35	2.3	4.0
5	14	3.4	99	5.7	3.1	20	5.6	46	61	30	e1.6	3.6
6	11	2.7	53	5.0	2.8	17	6.1	54	97	31	e1.1	3.2
7	20	2.1	35	4.6	3.8	15	7.1	50	119	24	e1.0	2.6
8	21	1.9	25	4.4	4.9	17	7.7	42	88	20	e0.90	e2.2
9	15	1.7	19	3.9	34	18	7.3	35	75	19	2.0	e1.7
10	13	5.9	16	9.4	57	20	8.3	34	114	17	4.0	e1.5
11	10	3.8	13	34	55	37	10	49	121	14	e1.9	e1.3
12	8.2	6.7	11	36	42	34	16	42	85	13	e1.3	e1.1
13	6.3	6.6	9.9	41	36	28	33	40	68	12	e0.90	e0.90
14	5.1	5.4	9.3	33	27	26	37	108	63	11	e0.70	e0.70
15	4.1	7.6	8.9	28	21	25	29	133	58	9.6	e0.40	e0.50
16	3.5	22	8.3	22	18	21	23	147	55	8.6	e0.30	e0.45
17	3.6	23	7.6	17	16	19	21	173	50	7.8	e0.28	e0.40
18	3.4	25	7.8	14	14	20	22	163	43	7.0	0.64	e0.40
19	12	20	12	12	13	18	19	139	40	6.2	0.86	e0.40
20	24	15	14	10	12	16	17	146	44	5.7	9.8	e1.5
21	36	12	12	8.6	12	14	14	154	52	5.1	9.4	3.6
22	36	9.9	10	7.4	12	12	12	146	51	4.6	5.4	3.0
23	28	8.5	21	6.7	12	14	12	107	43	4.1	3.6	1.8
24	25	7.4	34	6.1	12	15	13	97	39	3.6	3.0	1.2
25	23	6.3	24	5.6	13	13	12	111	36	3.2	4.2	3.1
26	17	5.8	18	5.3	13	12	12	117	35	2.9	7.7	2.8
27	14	5.8	14	5.1	14	10	16	113	34	3.5	12	1.8
28	11	5.1	12	4.6	21	9.4	34	102	45	2.8	8.5	1.4
29	9.0	4.4	10	4.7	29	8.7	55	86	56	2.9	7.8	1.1
30	7.5	3.9	9.0	4.2	---	8.0	42	69	60	5.1	6.8	0.88
31	6.1	---	7.7	4.0	---	7.2	---	60	---	2.9	7.0	---
Total	503.8	239.4	808.3	367.4	510.4	614.3	514.7	2,687	1,874	451.6	117.68	63.53
Mean	16.3	7.98	26.1	11.9	17.6	19.8	17.2	86.7	62.5	14.6	3.80	2.12
Max	46	25	164	41	57	49	55	173	121	50	12	6.3
Min	3.4	1.7	3.8	3.9	2.8	7.2	5.6	29	34	2.8	0.28	0.40
Ac-ft	999	475	1,600	729	1,010	1,220	1,020	5,330	3,720	896	233	126
Cfsm	3.50	1.72	5.62	2.55	3.79	4.27	3.70	18.7	13.5	3.14	0.82	0.46
In.	4.04	1.92	6.48	2.95	4.09	4.92	4.13	21.54	15.02	3.62	0.94	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.9	45.7	36.5	37.9	30.1	29.2	34.8	32.3	19.1	6.31	1.93	3.53
Max	42.0	124	137	83.9	97.8	65.6	70.7	86.7	62.5	27.8	11.4	20.7
(WY)	(1986)	(1996)	(1999)	(2006)	(1996)	(2007)	(1985)	(2008)	(2008)	(1983)	(2004)	(2004)
Min	0.00	2.07	5.92	9.96	6.25	9.34	16.3	9.21	2.03	0.22	0.00	0.00
(WY)	(1988)	(1988)	(1986)	(1985)	(2005)	(1992)	(1995)	(1992)	(1992)	(1987)	(1987)	(1987)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1983 - 2008	
Annual total	7,076.13		8,752.11			
Annual mean	19.4		23.9		24.2	
Highest annual mean					37.0	1999
Lowest annual mean					15.6	1992
Highest daily mean	239	Mar 12	173	May 17	850	Feb 8, 1996
Lowest daily mean	0.00	Jul 11	0.28	Aug 17	0.00	Aug 8, 1984
Annual seven-day minimum	0.00	Jul 11	0.54	Sep 13	0.00	Aug 8, 1984
Annual runoff (ac-ft)	14,040		17,360		17,570	
Annual runoff (cfsm)	4.18		5.15		5.23	
Annual runoff (inches)	56.73		70.17		71.00	
10 percent exceeds	42		56		53	
50 percent exceeds	12		12		14	
90 percent exceeds	0.00		2.3		0.72	

