

LAKE WASHINGTON BASIN

12115700 BOULDER CREEK NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°21'59", long 121°41'30", in NW 1/4 NW 1/4 sec.29, T.22 N., R.9 E., King County, 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.

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.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--19 years (water years 1984-2002), 24.6 ft³/s, 71.89 in/yr, 17,790 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 August through October most years.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 14	0100	*315	*4.15	No other peak greater than base discharge.			

Minimum discharge, 0.98 ft³/s Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	59	22	11	15	21	28	52	54	30	3.5	1.5
2	1.4	54	25	13	13	18	27	55	51	24	3.3	2.0
3	1.3	43	21	12	13	16	25	47	49	20	3.2	3.6
4	1.2	36	19	13	12	15	27	39	48	18	3.3	2.1
5	1.2	36	17	13	12	15	32	38	59	16	3.9	1.8
6	1.2	29	18	26	12	13	54	33	57	14	6.1	1.7
7	1.2	25	18	175	14	12	66	29	47	13	4.0	1.7
8	4.0	22	19	166	13	12	53	26	40	13	3.4	1.6
9	6.7	19	22	98	13	11	52	25	37	11	3.1	1.8
10	9.8	16	19	61	12	11	76	24	40	9.7	3.0	1.5
11	33	14	17	46	12	46	82	26	44	9.0	2.8	1.4
12	27	14	18	50	11	50	121	36	48	8.3	2.7	1.3
13	34	30	163	44	9.9	37	173	51	55	7.6	2.5	1.2
14	46	162	116	37	9.4	30	222	63	54	7.1	2.4	1.2
15	32	90	61	30	8.9	26	102	54	45	6.6	2.2	1.2
16	24	66	122	26	8.7	22	69	48	38	6.1	2.2	2.0
17	18	51	99	22	8.9	18	52	53	34	5.8	2.1	1.8
18	14	39	62	20	12	16	42	52	50	5.5	2.0	1.4
19	29	41	43	20	15	16	38	53	42	5.4	2.0	1.5
20	25	40	34	23	16	16	35	61	36	5.1	2.6	1.9
21	25	47	28	21	72	13	34	60	35	4.7	2.3	1.5
22	38	71	23	18	139	13	45	70	33	4.5	2.1	1.3
23	46	89	20	17	98	13	39	60	29	4.2	1.9	1.2
24	42	57	17	42	72	13	35	54	26	4.1	1.9	1.1
25	62	42	16	68	48	15	33	56	23	3.9	1.8	1.1
26	49	33	14	43	36	16	33	59	23	3.9	1.9	1.1
27	39	28	13	30	29	17	32	63	22	3.8	1.8	1.1
28	30	26	13	23	25	23	32	88	34	4.1	1.7	1.1
29	24	23	12	19	---	26	36	90	54	4.6	1.6	1.4
30	26	21	11	18	---	27	44	72	37	4.1	1.6	1.2
31	51	---	12	17	---	25	---	60	---	3.7	1.6	---
TOTAL	743.4	1323	1114	1222	759.8	622	1739	1597	1244	280.8	80.5	46.3
MEAN	24.0	44.1	35.9	39.4	27.1	20.1	58.0	51.5	41.5	9.06	2.60	1.54
MAX	62	162	163	175	139	50	222	90	59	30	6.1	3.6
MIN	1.2	14	11	11	8.7	11	25	24	22	3.7	1.6	1.1
AC-FT	1470	2620	2210	2420	1510	1230	3450	3170	2470	557	160	92
CFSM	5.17	9.50	7.74	8.50	5.85	4.32	12.5	11.1	8.94	1.95	0.56	0.33
IN.	5.96	10.61	8.93	9.80	6.09	4.99	13.94	12.80	9.97	2.25	0.65	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

	MEAN	14.2	48.0	38.6	35.3	32.4	28.6	36.9	31.6	18.2	6.74	1.62	2.81
MAX	42.0	124	137	73.2	97.8	48.9	70.7	52.9	42.8	27.8	5.22	12.2	
(WY)	1986	1996	1999	1984	1996	1993	1985	1999	1999	1983	1993	1983	
MIN	0.000	2.07	5.92	9.96	10.9	9.34	16.3	9.21	2.03	0.22	0.000	0.000	
(WY)	1988	1988	1986	1985	1994	1992	1995	1992	1992	1987	1987	1987	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1983 - 2002

ANNUAL TOTAL		7940.7		10771.8								
ANNUAL MEAN		21.8		29.5								
HIGHEST ANNUAL MEAN												1999
LOWEST ANNUAL MEAN												1992
HIGHEST DAILY MEAN		163		Dec 13		222		Apr 14	850		Feb 8	1996
LOWEST DAILY MEAN		1.0		Sep 24		1.1		Sep 24	0.00		Aug 8	1984
ANNUAL SEVEN-DAY MINIMUM		1.2		Sep 18		1.1		Sep 22	0.00		Aug 8	1984
ANNUAL RUNOFF (AC-FT)		15750				21370			17790			
ANNUAL RUNOFF (CFSM)		4.69				6.36			5.29			
ANNUAL RUNOFF (INCHES)		63.66				86.36			71.89			
10 PERCENT EXCEEDS		49				60			54			
50 PERCENT EXCEEDS		16				22			14			
90 PERCENT EXCEEDS		1.8				1.8			0.63			