

LAKE WASHINGTON BASIN

12114500 CEDAR RIVER BELOW BEAR CREEK, NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°20'32", long 121°32'52", in SE 1/4 SE 1/4 sec.32, T.22 N., R.10 E., King County, Hydrologic Unit 17110012, on right bank 500 ft downstream from Bear Creek, and 12.2 mi southeast of town of Cedar Falls.

DRAINAGE AREA.--25.4 mi².

PERIOD OF RECORD.--October 1945 to December 1963, October 1975 to current year.

REVISED RECORDS.--WSP 1716: 1956-57(M), 1959(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,880 ft above NGVD of 1929, from topographic map. Prior to Sept. 16, 1960, at site 90 ft upstream at datum 2.35 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--45 years (water years 1946-63, 1976-2002), 164 ft³/s, 87.87 in/yr, 119,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,620 ft³/s Nov. 22, 1959, gage height, 6.98 ft site and datum then in use, from rating curve extended above 890 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 12 ft³/s Nov. 27, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	0700	814	3.96	Apr. 14	0500	*1,370	*4.70
Dec. 17	0000	771	3.89	May 29	0000	712	3.79
Jan. 8	0000	1090	4.37				

Minimum discharge, 16 ft³/s Oct. 4-7.

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	17	386	115	67	88	128	129	310	469	242	47	23
2	17	331	109	69	80	115	131	353	455	217	45	24
3	17	270	95	65	75	104	128	319	448	199	44	26
4	17	232	88	65	71	97	135	277	454	185	43	23
5	16	221	82	63	68	95	157	256	504	172	43	23
6	16	186	87	103	66	88	222	229	513	172	45	23
7	17	159	87	633	70	81	312	200	402	192	41	22
8	24	142	82	958	68	77	276	178	326	207	39	22
9	28	127	80	622	63	73	257	165	285	170	38	23
10	30	112	74	382	63	72	315	157	307	185	36	22
11	64	100	70	291	61	185	352	160	379	181	35	21
12	68	95	67	303	e59	223	498	190	469	165	34	21
13	122	144	380	268	e57	184	727	276	585	154	33	21
14	197	666	439	221	e55	161	1150	333	616	137	32	20
15	120	460	265	185	e53	145	645	334	537	119	31	20
16	84	337	512	162	e51	133	418	313	448	110	30	23
17	79	260	554	144	e50	120	311	325	370	104	30	22
18	65	209	335	133	e55	109	259	339	412	98	29	21
19	119	188	253	128	60	104	229	350	420	92	29	20
20	112	183	204	129	60	97	215	445	363	83	30	21
21	114	210	171	118	138	83	203	431	384	78	29	20
22	201	257	148	104	297	79	210	484	397	74	28	19
23	390	323	132	97	315	76	203	440	364	70	27	19
24	279	254	119	174	285	74	189	394	325	66	27	19
25	289	206	107	228	225	76	184	396	319	63	27	19
26	278	174	97	169	186	79	186	438	353	60	27	19
27	247	153	91	142	160	80	185	498	332	58	26	19
28	200	142	86	127	142	104	186	692	321	56	25	19
29	167	129	79	112	---	111	203	695	410	57	25	19
30	163	114	74	104	---	124	241	608	284	53	25	22
31	298	---	71	97	---	121	---	534	---	50	24	---
TOTAL	3855	6770	5153	6463	3021	3398	8856	11119	12251	3869	1024	635
MEAN	124.4	225.7	166.2	208.5	107.9	109.6	295.2	358.7	408.4	124.8	33.03	21.17
MAX	390	666	554	958	315	223	1150	695	616	242	47	26
MIN	16	95	67	63	50	72	128	157	284	50	24	19
AC-FT	7650	13430	10220	12820	5990	6740	17570	22050	24300	7670	2030	1260
CFSM	4.90	8.88	6.54	8.21	4.25	4.32	11.6	14.1	16.1	4.91	1.30	0.83
IN.	5.65	9.92	7.55	9.47	4.42	4.98	12.97	16.28	17.94	5.67	1.50	0.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2002, BY WATER YEAR (WY)

	MEAN	96.99	221.0	207.4	167.8	169.1	141.6	236.1	311.4	244.3	99.73	36.26	39.09
MAX	262	697	496	459	407	263	387	599	608	352	92.0	231	231
(WY)	1960	1991	1976	1953	1996	1997	1989	1956	1950	1955	1955	1959	1959
MIN	15.3	16.6	27.9	49.9	43.9	49.4	102	110	38.8	30.4	21.9	17.8	17.8
(WY)	1988	1953	1953	1952	1956	1955	1955	1992	1992	1992	1958	1998	1998

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1946 - 2002

ANNUAL TOTAL	46759	66414	
ANNUAL MEAN	128.1	182.0	164.3
HIGHEST ANNUAL MEAN			234
LOWEST ANNUAL MEAN			102
HIGHEST DAILY MEAN	666	Nov 14	1150
LOWEST DAILY MEAN	16	Oct 5	16
ANNUAL SEVEN-DAY MINIMUM	17	Sep 30	17
ANNUAL RUNOFF (AC-FT)	92750	131700	119000
ANNUAL RUNOFF (CFSM)	5.04	7.16	6.47
ANNUAL RUNOFF (INCHES)	68.48	97.27	87.87
10 PERCENT EXCEEDS	278	411	359
50 PERCENT EXCEEDS	94	128	110
90 PERCENT EXCEEDS	22	24	28

e Estimated