

LAKE WASHINGTON BASIN

12115000 CEDAR RIVER NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°22'13", long 121°37'26", in SE 1/4 SW 1/4 sec.23, T.22 N., R.9 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on left bank 1.4 mi upstream from Chester Morse Lake, 8.3 mi southeast of town of Cedar Falls, and at mile 43.5.

DRAINAGE AREA.--40.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1286: 1946-48, 1950(P), 1951. WSP 1516: 1946(M), 1947-48(P), 1950-51(M), 1953-54(P), 1955(M). WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,560 ft above NGVD of 1929 from topographic map. Prior to Oct. 26, 1957, at site 80 ft downstream at same datum.

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.--57 years (water years 1946-2002), 259 ft³/s, 86.53 in/yr, 187,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,490 ft³/s Nov. 22, 1959, gage height, 11.34 ft, from high-water mark in well, from rating curve extended above 4,300 ft³/s, on basis of slope-area measurements at gage heights 10.16 ft and 11.34 ft; maximum gage height, 11.4 ft Feb. 11, 1951, backwater from Chester Morse Lake; minimum discharge, 19 ft³/s Oct. 23-26, 29-31, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0030	1,270	5.79	Jan. 08	0130	1,970	6.54
Dec. 17	0145	1,380	5.93	Apr. 14	0645	*2,480	*6.97

Minimum discharge, 23 ft³/s Oct. 4-8.

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	25	611	217	118	161	209	231	480	e685	373	71	35
2	25	530	214	125	150	188	234	553	e675	328	68	36
3	24	422	187	119	145	173	221	495	e660	298	65	40
4	24	348	169	120	136	163	229	423	e670	276	64	36
5	23	332	156	116	131	163	272	397	e715	253	65	35
6	23	276	163	168	130	151	381	358	e760	246	71	34
7	23	235	166	1080	145	141	546	314	e600	263	64	34
8	26	205	158	1660	147	133	475	282	e480	291	60	34
9	36	182	168	1040	137	125	429	262	e420	239	57	34
10	39	162	153	656	134	127	542	246	460	250	55	33
11	109	148	141	496	131	349	605	247	555	250	54	32
12	97	139	136	512	121	451	839	292	659	230	52	32
13	186	180	750	459	114	359	1190	433	813	214	50	31
14	301	1030	928	375	108	301	2000	522	910	193	48	30
15	210	785	523	312	103	263	1080	522	e790	170	47	30
16	146	596	943	272	101	231	718	481	e660	156	47	32
17	135	446	1050	238	100	203	543	499	e540	148	45	34
18	108	350	631	216	108	186	441	526	e590	139	44	31
19	166	314	456	212	119	182	386	536	e600	132	43	30
20	175	298	359	227	126	182	359	655	e530	122	47	30
21	166	354	296	214	299	157	333	645	e555	114	45	30
22	275	449	253	190	608	147	340	719	581	108	43	29
23	569	608	221	173	619	141	331	661	537	103	42	28
24	443	453	197	313	543	140	306	601	465	97	41	27
25	465	355	179	525	406	147	296	600	448	93	41	27
26	443	296	164	356	327	155	299	649	491	90	41	27
27	378	256	153	270	274	160	300	723	476	86	40	27
28	299	238	146	224	239	198	293	1000	460	83	39	27
29	244	221	136	195	---	217	320	1020	627	84	37	27
30	227	195	128	185	---	229	375	903	451	79	36	29
31	432	---	124	177	---	226	---	e805	---	74	36	---
TOTAL	5842	11014	9665	11343	5862	6197	14914	16849	17863	5582	1558	941
MEAN	188.5	367.1	311.8	365.9	209.4	199.9	497.1	543.5	595.4	180.1	50.26	31.37
MAX	569	1030	1050	1660	619	451	2000	1020	910	373	71	40
MIN	23	139	124	116	100	125	221	246	420	74	36	27
AC-FT	11590	21850	19170	22500	11630	12290	29580	33420	35430	11070	3090	1870
CFSM	4.63	9.02	7.66	8.99	5.14	4.91	12.2	13.4	14.6	4.42	1.23	0.77
IN.	5.34	10.07	8.83	10.37	5.36	5.66	13.63	15.40	16.33	5.10	1.42	0.86

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

	MEAN	149.9	335.3	350.0	305.8	293.7	240.4	353.9	455.9	356.7	150.9	58.30	65.16
MAX	403	1269	780	722	692	698	580	834	874	472	150	365	
(WY)	1948	1991	1976	1953	1996	1972	1989	1956	1974	1955	1964	1959	
MIN	20.1	27.1	63.5	91.7	81.9	99.1	160	170	62.6	49.6	32.5	25.4	
(WY)	1988	1953	1953	1979	1969	1955	1967	1992	1992	1977	1987	1987	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1946 - 2002

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1946 - 2002
ANNUAL TOTAL	73695	107630	
ANNUAL MEAN	201.9	294.9	259.2
HIGHEST ANNUAL MEAN			373
LOWEST ANNUAL MEAN			157
HIGHEST DAILY MEAN	1050	2000	6400
LOWEST DAILY MEAN	23	23	19
ANNUAL SEVEN-DAY MINIMUM	24	24	19
ANNUAL RUNOFF (AC-FT)	146200	213500	187800
ANNUAL RUNOFF (CFSM)	4.96	7.25	6.37
ANNUAL RUNOFF (INCHES)	67.36	98.37	86.53
10 PERCENT EXCEEDS	444	637	546
50 PERCENT EXCEEDS	153	217	183
90 PERCENT EXCEEDS	32	36	43

e Estimated