

LAKE WASHINGTON BASIN

12115500 REX RIVER NEAR CEDAR FALLS, WA

LOCATION.--Lat 47°21'03", long 121°39'43", in NE 1/4 NW 1/4 sec.33, T.22 N., R.9 E., King County, Hydrologic Unit 17110012, Snoqualmie National Forest, on right bank 3.0 mi upstream from mouth and Chester Morse Lake, and 7.5 mi southeast of town of Cedar Falls.

DRAINAGE AREA.--13.4 mi².

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

REVISED RECORDS.--WSP 1286: 1946, 1948(P), 1949(M), 1950(P), 1952(M). WSP 1446: 1946(M), 1951, 1953-55(M). WSP 1932: Drainage area. WDR WA-74-1: 1973.

GAGE.--Water-stage recorder. Elevation of gage is 1,700 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 2000, published at datum 1,600 ft above NGVD of 1929.

REMARKS.--Records fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--57 years (water years 1946-2002), 101 ft³/s, 102.71 in/yr, 73,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s Nov. 22, 1959, gage height, 8.20 ft, from rating curve extended above 1,600 ft³/s on basis of contracted-opening measurement at gage height 7.19 ft and slope-area measurement at gage height 8.20 ft; maximum gage height, 9.31 ft Nov. 19, 1962, backwater from debris; minimum discharge, 3.0 ft³/s Sept. 6-8, 1986, gage height, 3.23 ft.

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)
Dec. 13	1715	803	5.55	Apr. 14	0245	*1,190	*6.06
Jan. 7	2230	930	5.73				

Minimum discharge, 5.3 ft³/s Sept. 28, 29.

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	7.6	277	73	33	45	65	78	183	236	121	15	7.0
2	7.5	217	77	43	43	58	76	190	232	100	14	8.1
3	7.0	155	65	41	41	52	71	159	225	86	14	15
4	7.0	127	56	44	38	48	77	129	230	78	14	8.7
5	6.5	128	50	43	36	46	97	120	273	69	15	7.9
6	6.5	99	53	99	38	42	179	105	265	62	23	7.4
7	6.5	83	54	576	45	40	241	89	204	59	15	7.0
8	21	71	52	588	44	e37	177	81	163	61	14	7.1
9	37	62	57	325	43	e34	170	77	161	51	13	7.7
10	53	54	51	204	42	35	265	74	193	48	12	7.0
11	126	49	46	153	41	181	270	83	217	44	12	6.7
12	143	48	51	190	37	202	405	128	241	41	12	6.5
13	160	100	583	155	34	140	563	193	283	37	11	6.5
14	249	361	386	118	31	105	766	238	273	33	11	6.1
15	133	273	198	97	29	86	317	194	235	31	9.8	6.1
16	92	216	397	80	29	73	222	171	193	29	9.4	10
17	72	158	341	68	29	63	164	204	171	27	9.0	9.0
18	57	118	203	61	36	56	132	200	237	25	8.9	7.1
19	125	e122	138	58	43	61	117	209	196	24	8.6	6.9
20	93	e120	104	67	46	58	109	241	168	22	11	9.6
21	112	e135	83	63	188	44	101	232	167	21	9.9	7.0
22	173	223	70	54	323	42	134	277	161	20	9.2	6.1
23	203	263	61	52	284	39	113	230	144	19	8.9	6.1
24	171	167	54	167	229	38	98	213	126	18	8.3	6.1
25	231	120	49	281	150	40	95	228	118	18	7.9	5.7
26	180	95	45	149	111	44	97	243	119	17	8.5	5.7
27	138	79	42	e95	e84	46	94	258	113	17	7.9	5.7
28	104	70	42	e73	72	70	95	337	150	17	7.9	5.7
29	86	69	38	63	---	76	112	340	235	19	7.5	7.4
30	92	59	34	55	---	77	143	295	150	17	7.5	9.1
31	241	---	35	50	---	72	---	259	---	16	7.5	---
TOTAL	3140.6	4118	3588	4145	2211	2070	5578	5980	5879	1247	342.7	222.0
MEAN	101.3	137.3	115.7	133.7	78.96	66.77	185.9	192.9	196.0	40.23	11.05	7.400
MAX	249	361	583	588	323	202	766	340	283	121	23	15
MIN	6.5	48	34	33	29	34	71	74	113	16	7.5	5.7
AC-FT	6230	8170	7120	8220	4390	4110	11060	11860	11660	2470	680	440
CFSM	7.56	10.2	8.64	9.98	5.89	4.98	13.9	14.4	14.6	3.00	0.82	0.55
IN.	8.72	11.43	9.96	11.51	6.14	5.75	15.49	16.60	16.32	3.46	0.95	0.62

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

	MEAN	71.55	148.4	151.0	132.0	119.0	91.57	136.2	160.7	115.8	44.71	17.76	29.22
MAX	171	489	357	326	281	250	248	280	354	174	62.4	189	
(WY)	1948	1991	1976	1953	1982	1972	1989	1971	1974	1955	1964	1959	
MIN	6.30	7.90	28.9	32.6	20.6	28.7	50.7	41.7	17.1	12.3	6.73	6.54	
(WY)	1953	1953	1986	1957	1969	1955	1967	1992	1992	1958	1986	1967	

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1946 - 2002
ANNUAL TOTAL	28407.6	38521.3	
ANNUAL MEAN	77.83	105.5	101.3
HIGHEST ANNUAL MEAN			146
LOWEST ANNUAL MEAN			61.5
HIGHEST DAILY MEAN	583	766	2750
LOWEST DAILY MEAN	6.5	5.7	3.1
ANNUAL SEVEN-DAY MINIMUM	6.9	5.9	3.8
ANNUAL RUNOFF (AC-FT)	56350	76410	73380
ANNUAL RUNOFF (CFSM)	5.81	7.88	7.56
ANNUAL RUNOFF (INCHES)	78.86	106.94	102.71
10 PERCENT EXCEEDS	177	239	219
50 PERCENT EXCEEDS	53	70	65
90 PERCENT EXCEEDS	8.9	8.0	13

e Estimated