



Water-Data Report 2008

## 12115500 REX RIVER NEAR CEDAR FALLS, WA

Puget Sound Basin  
Lake Washington Subbasin

LOCATION.--Lat 47°21'03", long 121°39'43" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.33, T.22 N., R.9 E., King County, WA, 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 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

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 FOR PERIOD OF RECORD.--63 years (water years 1946-2008), 100 ft<sup>3</sup>/s, 101.75 in/yr, 72,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft<sup>3</sup>/s, Nov. 22, 1959, gage height, 8.20 ft, from rating curve extended above 1,600 ft<sup>3</sup>/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 ft<sup>3</sup>/s, Sept. 6-8, 1986, gage height, 3.23 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 17	2000	*808	*5.53
No other peak greater than base discharge			

Minimum discharge, 16 ft<sup>3</sup>/s, Aug. 16-18, Sept. 30.

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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	74	45	37	42	30	184	42	138	222	271	39	49
2	160	40	102	40	28	144	40	121	197	239	30	44
3	242	41	456	40	27	115	39	119	261	255	28	40
4	132	42	529	39	26	102	39	139	317	184	26	37
5	86	38	320	38	26	87	38	187	248	162	24	34
6	73	35	196	35	26	76	39	212	394	164	23	33
7	120	33	139	34	30	70	44	212	401	128	23	30
8	112	31	106	33	31	76	48	185	295	113	22	28
9	82	30	86	32	115	80	47	162	262	106	23	27
10	74	56	74	53	217	88	49	159	339	92	29	25
11	66	41	66	150	208	161	55	218	322	80	22	24
12	57	63	59	148	160	144	86	182	255	75	20	23
13	51	60	54	150	136	119	156	182	234	72	19	23
14	46	54	53	115	104	110	167	437	242	68	18	23
15	41	61	52	102	85	104	131	493	243	63	17	21
16	39	163	49	81	80	91	105	616	246	58	17	20
17	40	173	46	69	72	85	95	714	224	53	16	19
18	39	169	48	61	68	91	96	617	193	50	17	18
19	76	126	63	54	66	84	85	508	188	46	18	18
20	118	97	68	49	65	76	74	514	228	44	53	21
21	189	80	59	e45	65	70	68	552	264	41	59	32
22	193	71	54	e42	65	63	61	435	260	40	39	32
23	148	64	106	e39	65	68	59	298	223	37	31	24
24	135	56	136	e36	64	78	62	299	208	35	28	21
25	122	51	95	e34	65	70	60	372	205	33	31	23
26	93	49	77	e33	68	66	60	387	203	32	51	25
27	77	47	66	e31	69	59	80	381	203	33	76	21
28	68	43	59	e30	88	55	145	357	270	30	62	19
29	60	40	53	e32	115	52	223	319	315	30	65	18
30	54	38	49	e30	---	48	171	270	326	37	61	17
31	49	---	46	29	---	45	---	242	---	28	55	---
<b>Total</b>	2,916	1,937	3,403	1,746	2,264	2,761	2,464	10,027	7,788	2,699	1,042	789
<b>Mean</b>	94.1	64.6	110	56.3	78.1	89.1	82.1	323	260	87.1	33.6	26.3
<b>Max</b>	242	173	529	150	217	184	223	714	401	271	76	49
<b>Min</b>	39	30	37	29	26	45	38	119	188	28	16	17
<b>Ac-ft</b>	5,780	3,840	6,750	3,460	4,490	5,480	4,890	19,890	15,450	5,350	2,070	1,560
<b>Cfsm</b>	7.02	4.82	8.19	4.20	5.83	6.65	6.13	24.1	19.4	6.50	2.51	1.96
<b>In.</b>	8.10	5.38	9.45	4.85	6.29	7.66	6.84	27.84	21.62	7.49	2.89	2.19

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	70.7	147	147	134	116	93.9	134	159	114	43.4	18.0	29.6
<b>Max</b>	171	489	357	326	281	250	248	323	354	174	62.4	189
<b>(WY)</b>	(1948)	(1991)	(1976)	(1953)	(1982)	(1972)	(1989)	(2008)	(1974)	(1955)	(1964)	(1959)
<b>Min</b>	6.30	7.90	28.9	32.6	20.6	28.7	50.7	41.7	17.1	9.42	5.26	6.54
<b>(WY)</b>	(1953)	(1953)	(1986)	(1957)	(1969)	(1955)	(1967)	(1992)	(1992)	(2003)	(2003)	(1967)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1946 - 2008	
<b>Annual total</b>	33,522.5		39,836			
<b>Annual mean</b>	91.8		109		100	
<b>Highest annual mean</b>					146	1974
<b>Lowest annual mean</b>					61.5	2001
<b>Highest daily mean</b>	862	Mar 24	714	May 17	2,750	Nov 24, 1990
<b>Lowest daily mean</b>	7.4	Sep 11	16	Aug 17	3.1	Sep 7, 1986
<b>Annual seven-day minimum</b>	7.6	Sep 9	17	Aug 13	3.8	Sep 2, 1986
<b>Annual runoff (ac-ft)</b>	66,490		79,010		72,700	
<b>Annual runoff (cfsm)</b>	6.85		8.12		7.49	
<b>Annual runoff (inches)</b>	93.06		110.59		101.75	
<b>10 percent exceeds</b>	174		250		218	
<b>50 percent exceeds</b>	68		65		64	
<b>90 percent exceeds</b>	12		26		12	

