



Water-Data Report 2008

12116400 CEDAR RIVER AT POWERPLANT, AT CEDAR FALLS, WA

Puget Sound Basin
Lake Washington Subbasin

LOCATION.--Lat 47°25'08", long 121°46'49" referenced to North American Datum of 1927, in SE ¼ sec.4, T.22 N., R.8 E., King County, WA, Hydrologic Unit 17110012, on right bank 100 ft upstream from Seattle Municipal Powerplant at town of Cedar Falls, and at mile 33.7.

DRAINAGE AREA.--83.9 mi², includes 78.4 mi² upstream from Cedar Lake which is non-contributing except during spillage and seepage from dam.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder, crest-stage gage and concrete weir. Datum of gage is 900.00 ft above NGVD of 1929 (City of Seattle benchmark).

REMARKS.--Records fair. Flow regulated by Chester Morse Lake (station 12115900) and Cedar Lake (station 12116060) to supply powerplant, which discharges below gage. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--7 years (water years 2002-08) 101 ft³/s, 73,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,970 ft³/s, Nov. 8, 2006, gage height 37.34 ft; minimum discharge, 3.0 ft³/s, Aug. 28, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,410 ft³/s, May 21, gage height, 35.60 ft; minimum discharge, 32 ft³/s, Sept. 19-21, gage height, 31.34 ft.

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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	109	38	38	243	40	58	39	51	787	67	42	38
2	55	37	40	205	39	56	38	48	658	64	41	37
3	48	37	104	88	38	50	38	47	307	65	40	39
4	40	37	124	44	38	48	40	48	129	63	39	38
5	38	37	245	43	40	45	41	51	124	62	39	39
6	36	38	504	42	40	43	42	54	132	63	38	39
7	41	40	551	41	41	42	47	54	140	61	38	38
8	45	40	469	41	48	42	47	53	253	59	38	38
9	41	40	342	41	79	41	45	50	342	58	37	38
10	37	40	220	49	76	42	44	49	297	56	38	38
11	37	40	158	61	72	46	43	53	463	55	37	38
12	40	40	41	58	98	45	45	51	450	53	37	37
13	39	40	40	55	154	44	52	50	442	52	37	38
14	38	39	39	55	227	45	52	70	453	51	39	37
15	39	39	42	54	344	45	50	87	653	50	41	51
16	39	44	41	50	338	43	49	100	649	50	42	46
17	39	45	41	47	331	44	47	324	585	49	42	42
18	38	46	43	45	325	43	47	689	374	48	41	35
19	39	45	49	44	321	41	46	745	172	47	39	35
20	46	42	51	43	291	40	45	894	98	46	42	35
21	46	41	46	42	87	39	43	1,100	75	46	43	35
22	47	40	48	41	42	38	42	1,340	76	45	41	34
23	46	39	57	40	41	39	42	1,290	72	44	40	51
24	47	39	65	40	41	39	42	1,300	69	43	39	77
25	47	38	56	39	40	37	41	1,300	68	42	39	77
26	45	38	62	39	40	38	41	1,300	67	e43	54	76
27	43	40	129	39	40	37	41	1,190	66	44	53	76
28	42	39	127	39	44	36	47	875	67	43	48	80
29	41	38	125	39	49	36	57	821	69	43	45	103
30	40	37	122	38	---	38	54	812	69	42	42	103
31	39	---	165	40	---	39	---	798	---	41	39	---
Total	1,367	1,193	4,184	1,785	3,404	1,319	1,347	15,694	8,206	1,595	1,270	1,488
Mean	44.1	39.8	135	57.6	117	42.5	44.9	506	274	51.5	41.0	49.6
Max	109	46	551	243	344	58	57	1,340	787	67	54	103
Min	36	37	38	38	38	36	38	47	66	41	37	34
Ac-ft	2,710	2,370	8,300	3,540	6,750	2,620	2,670	31,130	16,280	3,160	2,520	2,950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	77.4	183	126	148	113	105	77.9	113	129	55.0	35.5	50.6
Max	230	619	200	396	372	303	152	506	352	96.6	45.0	71.4
(WY)	(2003)	(2007)	(2007)	(2006)	(2003)	(2007)	(2002)	(2008)	(2002)	(2002)	(2004)	(2002)
Min	16.9	39.8	41.6	57.6	27.8	22.1	38.6	29.2	31.4	38.3	11.4	38.4
(WY)	(2002)	(2008)	(2006)	(2008)	(2002)	(2002)	(2005)	(2002)	(2003)	(2005)	(2003)	(2004)

12116400 CEDAR RIVER AT POWERPLANT, AT CEDAR FALLS, WA—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008		Water Years 2002 - 2008	
Annual total	32,538	42,852			
Annual mean	89.1	117		101	
Highest annual mean				142	2007
Lowest annual mean				60.1	2005
Highest daily mean	944	Mar 26	1,340	May 22	2,730 Nov 9, 2006
Lowest daily mean	36	Oct 6	34	Sep 22	3.4 Aug 27, 2003
Annual seven-day minimum	38	Oct 31	37	Mar 24	4.1 Oct 2, 2001
Annual runoff (ac-ft)	64,540		85,000		73,160
10 percent exceeds	204		300		221
50 percent exceeds	47		45		45
90 percent exceeds	38		38		29

