Water-Data Report 2013

12117500 CEDAR RIVER NEAR LANDSBURG, WA

Puget Sound Basin
Lake Washington Subbasin

LOCATION.--Lat 47°23′38″, long 121°57′12″ referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.17, T.22 N., R.7 E., King County, WA, Hydrologic Unit 17110012, on left bank 1.8 mi upstream from intake of Seattle water-supply system near Landsburg, 4.0 mi east of Maple Valley, 5.9 mi downstream from Taylor Creek, and at mile 23.4.

DRAINAGE AREA.--121 mi^2, excludes Walsh Lake diversion, which enters Cedar River at mile 19.5, and excludes 1.9 mi^2 of Walsh Lake drainage in Cedar River basin, which is normally diverted into Issaquah Creek.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1895 to current year (prior to October 1948, flow of Rock Creek included). Monthly discharge only for some periods, published in WSP 1316. Published as "near Seattle" 1895-98, "near Maple Valley" 1902, and as "near Ravensdale" 1898-1901, 1903-12.

REVISED RECORDS.--WSP 313: 1895-98, 1902-09. WSP 1286: 1912. WSP 1316: 1896-98(M), 1902-11(M). WSP 1736: 1960. WSP 1932: 1947, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 565.9 ft above NGVD of 1929. Prior to Oct. 1, 1898, nonrecording gage at site 2.2 mi downstream at different datum. Mar. 24, 1901, to May 15, 1913, nonrecording gage at site 2 mi downstream at datum 535.84 ft NGVD of 1929 (levels by City of Seattle). Apr. 30, 1914, to Oct. 22, 1928, water-stage recorder 0.2 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. All diversions except Rock Creek returned to river upstream from station. Rock Creek, a tributary which entered naturally just upstream from station prior to 1932, is diverted during summer months to enter river at a point about 3.9 mi downstream from station. Some regulation by Chester Morse Lake (station 12115900) and Cedar Lake (station 12116060), 12.2 mi upstream. Chemical analyses July 1959 to July 1960. Water temperatures published August 1953 to September 1985. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--118 years (water years 1896-2013), 689 ft^3/s, 499,200 acre-ft/yr, unadjusted, includes data published in WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft^3/s, Nov. 19, 1911, gage height, 10.0 ft, from graph based on gage readings, site and datum then in use, by computation of peak flow over dam, peak caused by failure of flashboards at Chester Morse Lake; minimum discharge observed, 83 ft^3/s, Sept. 19, 1898.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,700 ft^3/s, Apr. 20, gage height, 3.25 ft; minimum discharge, 248 ft^3/s, Sept. 21, gage height, 1.01 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 12117500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/12117500.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	321	671	1,190	650	1,170	885	709	1,500	566	470	296	270
2	320	583	1,150	627	1,020	867	710	1,490	543	469	296	268
3	319	979	1,010	584	944	860	710	1,480	525	459	296	269
4	317	1,110	928	592	904	814	750	1,470	508	448	294	268
5	315	1,180	1,070	585	884	785	998	1,470	498	438	289	266
6	314	1,150	1,350	580	897	780	1,260	1,470	505	414	288	347
7	325	1,160	1,360	795	864	856	1,340	1,440	531	410	285	278
8	411	1,140	1,310	869	832	991	1,420	1,360	528	404	284	269
9	418	1,120	1,290	923	810	970	1,470	1,350	525	401	282	266
10	418	1,040	1,330	817	789	952	1,300	1,360	506	396	282	264
11	419	755	1,320	738	772	765	1,260	1,440	495	394	281	261
12	421	742	1,330	695	770	759	1,480	1,440	501	393	280	258
13	433	705	1,300	663	789	848	1,590	1,470	528	373	282	258
14	455	721	1,290	641	782	950	1,620	1,460	526	334	282	256
15	485	712	1,210	623	771	1,180	1,580	1,400	514	329	283	257
16	499	770	1,010	609	767	1,220	1,580	1,260	472	326	282	266
17	447	1,120	832	598	762	1,200	1,610	1,190	445	326	282	277
18	440	953	748	589	750	1,250	1,520	1,050	410	325	281	258
19	492	925	728	581	740	1,470	1,370	964	391	319	278	255
20	484	940	761	578	728	1,560	1,600	936	399	318	277	252
21	459	924	735	580	729	1,520	1,410	806	429	317	275	264
22	452	1,240	712	579	757	1,360	1,360	760	395	313	275	329
23	452	1,190	695	581	751	1,240	1,590	739	387	310	275	375
24	440	1,290	699	582	737	1,210	1,550	721	407	310	274	364
25	443	1,320	696	628	746	1,200	1,510	709	473	307	272	336
26	436	1,260	681	617	727	1,120	1,450	645	475	303	272	324
27	478	1,220	748	625	729	939	1,330	622	493	303	272	321
28	632	1,200	729	656	786	802	1,320	683	487	303	274	418
29	724	1,190	698	867	---	716	1,380	687	479	300	289	547
30	710	1,180	679	1,160	---	708	1,370	694	473	298	300	779
31	775	---	664	1,150	---	709	---	616	---	296	275	---
Total	14,054	30,490	30,253	21,362	22,707	31,486	40,147	34,682	14,414	11,106	8,753	9,420
Mean	453	1,016	976	689	811	1,016	1,338	1,119	480	358	282	314
Max	775	1,320	1,360	1,160	1,170	1,560	1,620	1,500	566	470	300	779
Min	314	583	664	578	727	708	709	616	387	296	272	252
Ac-ft	27,880	60,480	60,010	42,370	45,040	62,450	79,630	68,790	28,590	22,030	17,360	18,680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	399	742	940	990	893	796	788	794	740	477	344	322
Max	1,015	2,371	3,126	2,198	2,009	2,233	1,569	1,412	1,795	1,077	735	716
(WY)	(1960)	(1991)	(1934)	(1918)	(1982)	(1972)	(2011)	(1897)	(1917)	(1917)	(1954)	(1959)
Min	141	141	179	369	368	360	335	306	320	262	124	127
(WY)	(1905)	(1896)	(1953)	(1988)	(1988)	(1941)	(1941)	(1915)	(1992)	(1898)	(1898)	(1898)

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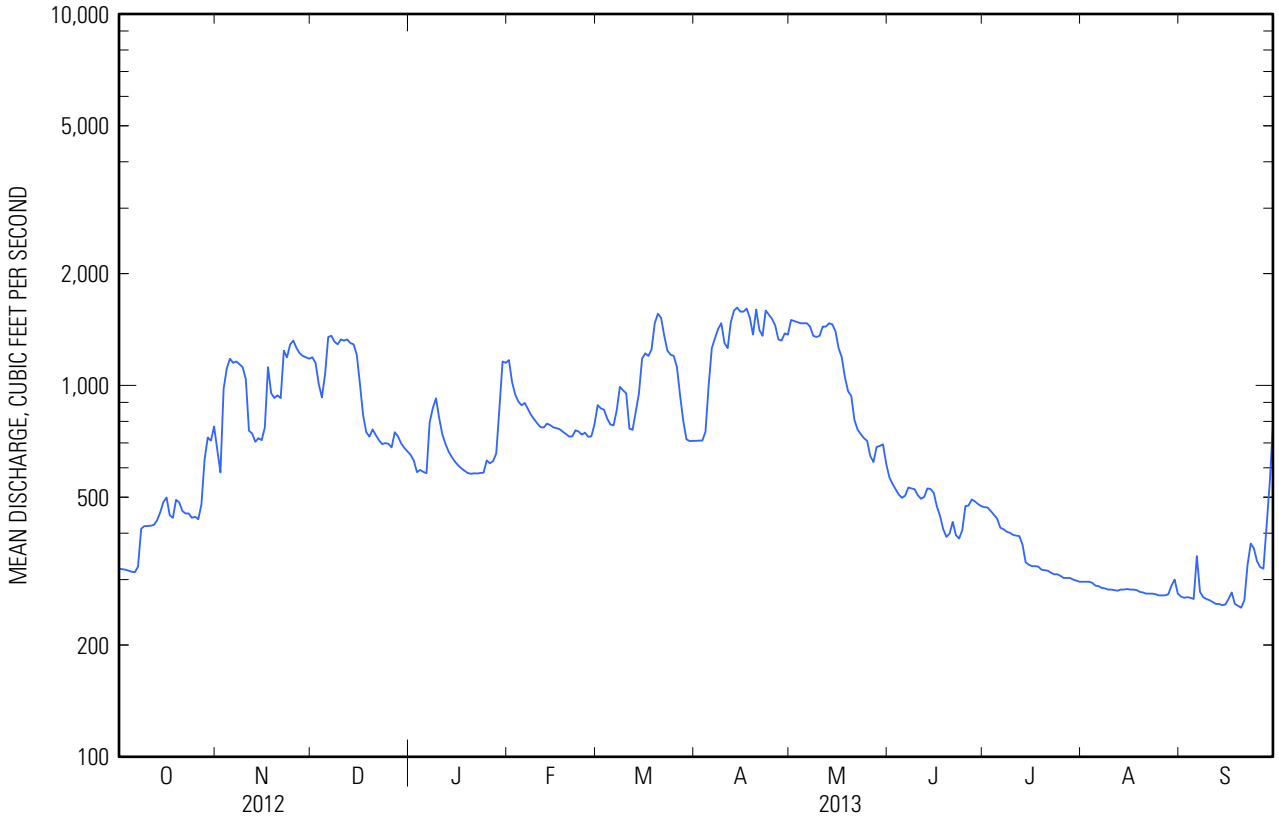
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1895 - 2013	
Annual total	324,683		268,874			
Annual mean	887		737		684	
Highest annual mean					1,066	1897
Lowest annual mean					340	1941
Highest daily mean	2,060	Feb 27	1,620	Apr 14	13,600	Nov 19, 1911
Lowest daily mean	293	Sep 16	252	Sep 20	83	Sep 19, 1898
Annual seven-day minimum	297	Sep 11	260	Sep 9	87	Sep 13, 1898
Annual runoff (ac-ft)	644,000		533,300		495,400	
10 percent exceeds	1,530		1,360		1,180	
50 percent exceeds	842		695		560	
90 percent exceeds	322		282		290