

LAKE WASHINGTON BASIN

12117500 CEDAR RIVER NEAR LANDSBURG, WA

LOCATION.--Lat 47°23'38", long 121°57'12", on west line NW 1/4 SW 1/4 sec.17, T.22 N., R.7 E., King County, 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 mi², excludes Walsh Lake diversion which enters Cedar River at mile 19.5, and excludes 1.9 mi² of Walsh Lake drainage in Cedar River basin which is normally diverted into Issaquah Creek.

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.--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.--107 years (water years 1896-2002), 690 ft³/s, 499,900 acre-ft/yr, unadjusted, includes data published in WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft³/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 ft³/s Sept. 19, 1898.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,240 ft³/s Apr 14, gage height, 3.84 ft; minimum discharge, 252 ft³/s Sept. 7-10.

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	318	670	1070	955	977	789	1020	650	760	779	339	258
2	315	635	1050	948	966	775	1070	656	775	598	337	262
3	314	757	925	790	970	763	1060	765	782	465	335	283
4	315	716	794	658	956	754	1060	763	795	386	334	261
5	407	613	775	588	925	908	1060	762	1070	374	332	258
6	422	571	799	602	794	928	1110	719	1110	362	320	257
7	422	552	793	950	811	949	1130	911	1510	357	312	253
8	444	625	781	1140	821	1050	1130	943	1630	366	307	252
9	452	637	820	1180	801	1040	1190	934	1620	351	302	252
10	446	647	792	1280	790	1050	1260	810	1500	344	285	252
11	537	640	711	1170	763	1130	1300	713	1190	345	283	267
12	491	647	627	1140	693	974	1390	634	959	373	278	295
13	534	682	1210	1130	680	1010	1550	573	724	372	278	300
14	573	1230	1200	1260	654	962	1980	550	693	368	275	307
15	545	978	1180	1490	619	876	1630	531	682	367	e275	307
16	565	924	1110	1610	609	783	1700	517	685	377	e272	310
17	545	910	1110	1540	608	690	1650	536	1130	417	e272	316
18	493	1050	1220	1260	636	603	1680	535	1360	446	e272	314
19	514	1100	1380	1170	647	566	1790	527	1350	446	e272	311
20	524	1130	1400	1200	636	810	1770	538	1350	444	e273	310
21	523	1340	1500	1200	844	960	1750	539	1340	441	270	309
22	537	1620	1630	1170	1070	1190	1660	550	1340	439	268	307
23	490	1730	1610	1130	981	1170	1370	569	1330	437	268	307
24	492	1630	1590	887	871	1170	1080	766	1260	436	265	307
25	570	1570	1580	950	772	1180	1010	1050	1090	418	265	335
26	497	1540	1500	939	723	1080	996	1060	961	367	265	335
27	615	1460	1320	851	703	957	929	1030	964	351	265	335
28	599	1240	1170	803	802	877	815	941	982	349	264	335
29	582	1160	1150	773	---	880	747	859	1020	353	264	345
30	592	1040	1140	783	---	988	679	695	918	347	262	347
31	669	---	1110	881	---	981	---	733	---	343	261	---
TOTAL	15342	30044	35047	32428	22122	28843	38566	22359	32880	12618	8870	8887
MEAN	495	1001	1131	1046	790	930	1286	721	1096	407	286	296
MAX	669	1730	1630	1610	1070	1190	1980	1060	1630	779	339	347
MIN	314	552	627	588	608	566	679	517	682	343	261	252
AC-FT	30430	59590	69520	64320	43880	57210	76500	44350	65220	25030	17590	17630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2002, BY WATER YEAR (WY)

	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	392	728	958	980	901	792	782	793	744	483	348	321																																																																																																
MAX	1015	2371	3126	2198	2009	2233	1498	1412	1795	1077	735	716																																																																																																
(WY)	1960	1991	1934	1918	1982	1972	1897	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																																																																																																

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1895 - 2002
ANNUAL TOTAL	193162	288006	
ANNUAL MEAN	529	789	684
HIGHEST ANNUAL MEAN			1066
LOWEST ANNUAL MEAN			340
HIGHEST DAILY MEAN	1730	Nov 23	13600
LOWEST DAILY MEAN	270	Sep 6	83
ANNUAL SEVEN-DAY MINIMUM	274	Sep 1	87
ANNUAL RUNOFF (AC-FT)	383100		495200
10 PERCENT EXCEEDS	1000		1170
50 PERCENT EXCEEDS	425		568
90 PERCENT EXCEEDS	299		289

e Estimated