

WHITE SALMON RIVER BASIN

14123500 WHITE SALMON RIVER NEAR UNDERWOOD, WA

LOCATION.--Lat 45°45'08", long 121°31'33", in NW 1/4 NW 1/4 sec.14, T.3 N., R.10 E., Skamania County, Hydrologic Unit 17070105, on right bank 300 ft downstream from bridge, 1,000 ft downstream from Pacific Power & Light Co.'s Condit powerplant, 1.7 mi north of Underwood, and at mile 1.9.

DRAINAGE AREA.--386 mi².

PERIOD OF RECORD.--October 1912 to February 1913 (published as "at Condit Dam, near Underwood"), March 1915 to September 1930, September 1935 to current year.

REVISED RECORDS.--WSP 484: 1915-17. WSP: 1348 1936-41(M). WSP 1638: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 112.96 ft above NGVD of 1929. Prior to March 1913, reference point at dam 1 mi upstream at different datum. March 1915, to July 16, 1918, water-stage recorder at site 200 ft upstream at datum 3.24 ft higher, and July 17, 1918, to Sept. 30, 1930, at datum 2.24 ft higher than present datum.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 4,000 acres in Trout Lake area. Low and medium flows regulated by powerplant of Pacific Power & Light Co. Chemical analyses August 1960 to August 1961, water years 1964-1968 (miscellaneous), October 1967 to September 1970 (monthly), November 1975 to June 1980. Water temperatures July 1968 to August 1970. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--82 years (water years 1916-30, 1936-2002), 1,123 ft³/s, 813,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,200 ft³/s Feb. 8, 1996, result of flashboard failure on Condit Dam, gage height, 19.16 ft, from rating curve extended above 8,030 ft³/s, on basis of theoretical weir computation of peak flow; minimum discharge, practically no flow at times when powerplant is shut down; minimum daily discharge, 158 ft³/s Jan. 17, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,590 ft³/s Jan. 8, gage height, 7.65 ft; minimum discharge, 159 ft³/s Nov. 7.

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	441	726	818	775	1250	1390	1300	1620	1940	1330	820	635
2	455	622	1000	886	1180	1310	1360	1770	1880	1260	816	657
3	457	599	911	892	1140	1240	1290	1770	1850	1210	785	650
4	455	554	809	846	1120	1230	1290	1680	1800	1180	790	639
5	455	524	788	820	1070	1230	1350	1630	1800	1120	787	634
6	455	513	826	1010	1100	1300	1370	1580	1790	1100	760	636
7	455	534	900	2050	1200	1210	1450	1500	1680	1090	772	632
8	479	481	803	3620	1340	1160	1450	1430	1580	1110	760	637
9	464	478	758	3350	1240	1130	1480	1410	1480	1110	763	635
10	474	488	720	2550	1210	1170	1720	1370	1460	1040	772	632
11	502	501	684	2100	1180	1680	1870	1400	1490	1070	765	629
12	466	484	719	1990	1120	2890	1980	1420	1490	1050	736	619
13	485	521	1030	1900	1140	2570	2150	1500	1520	1030	729	621
14	487	1130	2120	1730	1090	2180	3260	1520	1640	1050	735	617
15	488	1000	1620	1570	1050	1940	3110	1550	1670	989	714	625
16	483	852	1770	1500	1060	1810	2560	1570	1640	978	717	620
17	482	713	2590	1330	1040	1680	2220	1600	1570	946	709	613
18	469	629	2260	1320	1040	1570	1970	1650	1570	972	698	612
19	488	614	1800	1260	1150	1580	1830	1650	1540	917	717	617
20	481	833	1560	1310	1220	1550	1770	1690	1440	922	690	618
21	436	1010	1380	1340	1310	1470	1730	1750	1370	924	700	614
22	501	1280	1240	1320	1660	1410	1680	1740	1400	899	697	610
23	562	1410	1120	1230	1910	1380	1620	1730	1370	870	670	585
24	600	1150	1020	1270	1940	1340	1550	1720	1360	899	671	620
25	520	920	971	1920	1770	1330	1560	1680	1330	865	671	616
26	500	802	942	1960	1630	1290	1500	1700	1350	884	668	638
27	521	714	893	1720	1530	1290	1530	1760	1260	888	662	650
28	502	819	890	1550	1460	1260	1470	1850	1300	841	659	607
29	503	687	841	1420	---	1250	1490	2100	1640	885	654	597
30	560	759	819	1350	---	1250	1530	2150	1530	877	657	589
31	752	---	811	1260	---	1260	---	2030	---	851	648	---
TOTAL	15378	22347	35413	49149	36150	46350	52440	51520	46740	31157	22392	18704
MEAN	496	745	1142	1585	1291	1495	1748	1662	1558	1005	722	623
MAX	752	1410	2590	3620	1940	2890	3260	2150	1940	1330	820	657
MIN	436	478	684	775	1040	1130	1290	1370	1260	841	648	585
AC-FT	30500	44330	70240	97490	71700	91940	104000	102200	92710	61800	44410	37100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2002, BY WATER YEAR (WY)

	633	811	1155	1333	1533	1511	1514	1519	1268	892	701	632
MEAN	633	811	1155	1333	1533	1511	1514	1519	1268	892	701	632
MAX	1210	1607	2984	3362	4110	3417	2518	2631	2506	1911	1225	1026
(WY)	1998	1956	1918	1974	1996	1972	1943	1997	1956	1916	1916	1997
MIN	429	396	452	430	508	558	651	659	587	456	424	391
(WY)	1993	1930	1945	1979	1929	1977	1977	1977	1992	1977	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1916 - 2002
ANNUAL TOTAL	255944	427740	
ANNUAL MEAN	701	1172	1123
HIGHEST ANNUAL MEAN			1765
LOWEST ANNUAL MEAN			554
HIGHEST DAILY MEAN	2590	Dec 17	15400
LOWEST DAILY MEAN	436	Oct 21	158
ANNUAL SEVEN-DAY MINIMUM	451	Sep 1	372
ANNUAL RUNOFF (AC-FT)	507700	848400	813300
10 PERCENT EXCEEDS	1010	1800	1910
50 PERCENT EXCEEDS	600	1130	936
90 PERCENT EXCEEDS	469	546	525