12027500 CHEHALIS RIVER NEAR GRAND MOUND, WA

LOCATION.--Lat 46°46'34", long 123°02'04", in NE $^1/_4$ NE $^1/_4$ sec.22, T.15 N., R.3 W., Thurston County, Hydrologic Unit 17100103, on left bank at downstream side of highway bridge at Meadows, 1.5 mi southwest of Grand Mound, 7.0 mi downstream from Skookumchuck River, and at mile 59.9.

DRAINAGE AREA.--895 mi^2.

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 1216: Drainage area. WSP 1286: 1929-30(M), 1931, 1932-34(M).

GAGE.--Water-stage recorder. Datum of gage is 123.65 ft above sea level. Prior to Oct. 3, 1934, nonrecording gage at present site at datum 3.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Minor effect from regulation on Skookumchuck River by Skookumchuck Dam since January 1971. Up to 54 ft^3/s of Skookumchuck River is consumptively used at Centralia steam generating plant. Many small diversions for irrigation and domestic use upstream from station, including about 3 ft^3/s for municipal water supply for Centralia and Chehalis. Water temperatures March 1952 to September 1974. Miscellaneous suspended sediment data published for water years 1962-64. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--73 years (water years 1929-2001), 2,808 ft^3/s, 42.63 in/yr, 2,034,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,800 ft^3/s Feb. 9, 1996, gage height, 19.98 ft; minimum discharge, 82 ft^3/s Aug. 30, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 5	0600	*5,750	*7.14

Minimum discharge, 204 ft^3/s Aug. 16-18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	727	584	1500	1440	2290	1200	2630	3660	785	602	288	362
2	862	544	1360	1320	2180	1630	2410	3970	783	543	283	346
3	543	515	1330	1220	2470	1820	2310	3300	929	506	273	348
4	429	495	1190	1300	3330	1660	2120	2690	943	466	270	338
5	380	524	1060	1460	5490	1550	1900	2290	849	436	285	337
6	347	580	965	1870	4410	1430	1960	2020	853	437	280	332
7	337	647	892	1720	3420	1320	2300	1760	888	422	266	319
8	326	645	842	1570	2780	1250	2260	1550	808	411	263	310
9	333	827	801	1450	2470	1220	2160	1410	763	398	246	304
10	384	839	788	1430	2160	1160	2050	1300	751	380	232	300
11	440	734	756	1430	1910	1100	3720	1220	825	363	223	288
12	406	655	716	1320	1710	1060	3700	1150	1200	354	223	296
13	373	605	683	1250	1540	1030	3080	1080	1100	339	223	296
14	369	572	683	1350	1420	1040	2630	1050	925	333	217	287
15	388	546	962	1300	1350	1080	2260	1580	836	324	211	270
16	387	516	1480	1220	1660	1360	2050	2560	775	326	206	267
17	409	491	3680	1160	3150	1360	2050	3060	729	345	204	269
18	508	475	3550	1140	2840	1360	2250	2460	696	357	212	274
19	822	460	2510	1170	2460	1960	2180	2030	659	365	217	279
20	735	452	2030	1160	2140	2350	1960	1740	625	341	216	279
21	1400	448	1820	1280	1900	1910	1770	1520	587	327	217	276
22	1180	442	1900	2040	1820	1650	1600	1350	556	321	252	279
23	843	443	3320	1840	1700	1470	1550	1230	542	309	965	280
24	677	508	4440	1680	1590	1350	1530	1110	538	298	1140	279
25	575	630	3840	1600	1480	1380	1430	1030	563	287	840	279
26	517	739	2970	1440	1350	1610	1330	967	595	290	606	297
27	479	1990	2400	1310	1250	1830	1240	916	579	283	470	370
28	486	2510	2030	1210	1200	3080	1200	884	971	287	421	417
29	667	1710	1750	1220	---	3350	1260	931	894	321	407	358
30	702	1530	1600	1430	---	2840	1650	888	703	317	386	320
31	653	---	1500	2190	---	2520	---	828	---	302	380	---
TOTAL	17684	22656	55348	44520	63470	50930	62540	53534	23250	11390	10922	9256
MEAN	570	755	1785	1436	2267	1643	2085	1727	775	367	352	309
MAX	1400	2510	4440	2190	5490	3350	3720	3970	1200	602	1140	417
MIN	326	442	683	1140	1200	1030	1200	828	538	283	204	267
AC-FT	35080	44940	109800	88310	125900	101000	124000	106200	46120	22590	21660	18360
CFSM	.64	.84	1.99	1.60	2.53	1.84	2.33	1.93	.87	.41	.39	.34
IN.	.74	.94	2.30	1.85	2.64	2.12	2.60	2.23	.97	.47	.45	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	922	3807	6294	6359	5870	4500	2938	1393	817	382	242	339
MAX	3643	9697	19280	13900	13680	9477	6787	3496	2482	934	570	1289
(WY)	1998	1956	1934	1971	1999	1972	1937	1948	1936	1983	1968	1978
MIN	125	221	884	860	1201	1354	1086	549	352	174	118	117
(WY)	1953	1937	1977	1977	1977	1992	1939	1939	1992	1970	1967	1967

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001		
ANNUAL TOTAL	717394		425500				
ANNUAL MEAN	1960		1166		2808		
HIGHEST ANNUAL MEAN					4480		1999
LOWEST ANNUAL MEAN					1122		1977
HIGHEST DAILY MEAN	9740	Jan 5	5490	Feb 5	64200	Feb 9	1996
LOWEST DAILY MEAN	234	Aug 17	204	Aug 17	85	Aug 30	1967
ANNUAL SEVEN-DAY MINIMUM	241	Aug 13	212	Aug 14	91	Aug 28	1967
ANNUAL RUNOFF (AC-FT)	1423000		844000		2034000		
ANNUAL RUNOFF (CFSM)	2.19		1.30		3.14		
ANNUAL RUNOFF (INCHES)	29.82		17.69		42.63		
10 PERCENT EXCEEDS	5220		2370		7420		
50 PERCENT EXCEEDS	1030		929		1240		
90 PERCENT EXCEEDS	281		288		223		