14216500 MUDDY RIVER BELOW CLEAR CREEK, NEAR COUGAR, WA

LOCATION.-- Lat 46°04'33", long 121°59'51", in NE 1/4 SE 1/4 sec.24, T.7 N., R.6 E., Skamania County, Hydrologic Unit 17080002, Gifford Pinchot National Forest, on left bank 3.9 mi downstream from Clear Creek, approximately 14 mi northeast of Cougar, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--135 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1927 to September 1934, October 1954 to December 1973 (destroyed by flood of January 1974), October 1983 to current year. Monthly discharge only for October, December 1933 and January 1934 published in WSP 1318. Published as "near Cougar" 1927-34. Records for August to October 1909, published in WSP 272 and 492, have been found to be unreliable and should not be used.

REVISED RECORDS.--The maximum discharges for the water years 1996 and 1997 have been revised to 25,000 ft^3/s, Feb. 8, 1996, gage height 33.26 ft from high-water marks, and 14,000 ft^3/s, Dec. 31, 1996, gage height 27.28, ft, superseding figures published in reports for 1996 and 1997. Minimum discharge for water year 1991 has been revised to 112 ft^3/s, restoring the previously published 94 ft^3/s on Dec. 5-7, 1929, as the minimum for period of record.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,032.90 ft above sea level. Aug. 1927 to Sept. 1934, at same site at different datum; Oct. 1954 to Dec. 1973 at site 3.7 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--43 years (water years 1928-34, 1955-73, 1984-2000), 881 ft^3/s, 88.62 in/yr, 638,300 acre-ft/yr, includes monthly data published in WSP 1318.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft^3/s, Feb. 8, 1996, gage height, 33.26 ft from high-water marks, from rating curve extended above 8,000 ft^3/s; minimum, 94 ft^3/s Dec. 5-7, 1929.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood occurred about 0900 hours on May 18, 1980, from a mudflow caused by the eruption of Mount St. Helens.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 12	1815	5,310	21.94	Dec. 17	1930	4,610	21.34
Nov. 26	0400	*7,490	*23.40				

Minimum discharge, 117 ft^3/s Sept. 28, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	290	2060	810	1550	1460	1270	1270	937	534	237	156
2	172	265	2830	758	1640	1410	1570	1380	923	507	232	158
3	170	273	2590	730	1380	1330	1790	1580	937	491	228	160
4	168	338	2220	1130	1240	1370	1990	1640	973	472	224	176
5	168	304	2040	882	1110	1230	1920	1560	1050	451	220	172
6	176	791	2170	771	1120	1120	1750	1400	989	438	217	159
7	177	455	1920	740	1090	1030	1550	1270	948	421	213	155
8	216	419	1770	1080	2040	958	1430	1270	890	409	210	166
9	222	607	1710	1060	2210	898	1430	1450	833	398	207	168
10	187	1570	1580	970	1950	855	1460	1670	840	387	206	182
11	179	1880	1580	921	1720	925	1550	1590	954	378	204	181
12	172	4510	2010	869	1550	824	1690	1460	2170	367	199	159
13	169	4000	2010	822	1360	811	1950	1340	1800	357	196	151
14	167	2600	1920	853	1290	1110	2230	1320	1550	348	194	146
15	163	1860	2590	779	1160	963	2350	1390	1410	339	191	143
16	161	1440	3210	767	1040	1120	2200	1530	1280	328	189	139
17	159	1190	3480	747	952	1110	1990	1660	1170	319	186	137
18	157	963	4010	680	876	1240	1870	1590	1110	314	191	136
19	155	1070	3400	639	818	1330	1830	1610	1020	308	202	137
20	153	1320	2730	622	774	1210	1770	1640	932	302	197	135
21	152	1240	2250	635	834	1140	1720	1640	879	296	184	140
22	150	1210	1910	615	1270	1190	1770	1720	844	294	180	151
23	149	1130	1680	581	1220	1200	1760	1670	789	286	176	134
24	154	1750	1490	547	1080	1120	1600	1580	739	277	172	129
25	180	5440	1320	547	1040	1090	1520	1460	696	272	170	126
26	214	5940	1190	521	1100	1070	1350	1380	665	267	168	124
27	201	3840	1080	495	1270	1090	1310	1390	642	261	164	122
28	797	2740	995	475	1250	1070	1370	1400	621	256	162	120
29	486	2230	928	454	1460	992	1280	1300	596	251	160	123
30	329	2210	863	439	---	954	1230	1170	565	246	158	363
31	359	---	820	448	---	975	---	1040	---	241	156	---
TOTAL	6636	53875	62356	22387	37394	34195	50500	45370	29752	10815	5993	4648
MEAN	214	1796	2011	722	1289	1103	1683	1464	992	349	193	155
MAX	797	5940	4010	1130	2210	1460	2350	1720	2170	534	237	363
MIN	149	265	820	439	774	811	1230	1040	565	241	156	120
AC-FT	13160	106900	123700	44400	74170	67830	100200	89990	59010	21450	11890	9220
CFSM	1.59	13.3	14.9	5.35	9.55	8.17	12.5	10.8	7.35	2.58	1.43	1.15
IN.	1.83	14.85	17.18	6.17	10.30	9.42	13.92	12.50	8.20	2.98	1.65	1.28

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	349	1107	1248	1218	1237	1193	1294	1279	851	376	205	186
MAX	1567	2609	2828	2308	3222	2841	2318	2467	2341	1163	438	385
(WY)	1998	1984	1974	1997	1996	1972	1997	1956	1933	1971	1933	1968
MIN	107	102	313	365	254	386	620	425	194	143	116	122
(WY)	1988	1930	1931	1985	1929	1955	1973	1934	1992	1992	1992	1934

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000	
ANNUAL TOTAL	439237		363921			
ANNUAL MEAN	1203		994		877	
HIGHEST ANNUAL MEAN					1297	1956
LOWEST ANNUAL MEAN					566	1930
HIGHEST DAILY MEAN	5940	Nov 26	5940	Nov 26	21000	Feb 8 1996
LOWEST DAILY MEAN	149	Oct 23	120	Sep 28	94	Dec 5 1929
ANNUAL SEVEN-DAY MINIMUM	153	Oct 18	125	Sep 23	95	Dec 1 1929
ANNUAL RUNOFF (AC-FT)	871200		721800		635400	
ANNUAL RUNOFF (CFSM)	8.91		7.37		6.50	
ANNUAL RUNOFF (INCHES)	121.03		100.28		88.27	
10 PERCENT EXCEEDS	2290		1920		1860	
50 PERCENT EXCEEDS	1070		924		635	
90 PERCENT EXCEEDS	193		163		156	