

## LEWIS RIVER BASIN

## 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<sup>2</sup>.

## 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.--WDR WA-99-1: 1991 (m), 1996-97 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,032.90 ft above NGVD of 1929. 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 fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--45 years (water years 1928-34, 1955-73, 1984-2002), 875 ft<sup>3</sup>/s, 88.02 in/yr, 633,900 acre-ft/yr, includes monthly data published in WSP 1318.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft<sup>3</sup>/s, Feb. 8, 1996, gage height, 33.26 ft from high-water marks, from rating curve extended above 8,000 ft<sup>3</sup>/s; minimum, 94 ft<sup>3</sup>/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<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov. 14	1500	4,020	20.62	Dec. 17	0030	6,450	22.99
Nov. 22	2300	4,920	21.56	Jan. 7	2245	*10,300	*25.81
Dec. 13	2300	4,010	20.60	Apr. 14	0200	6,400	23.11

Minimum discharge, 102 ft<sup>3</sup>/s Oct. 6, 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	113	648	2010	886	828	1310	1150	1410	1550	547	227	161
2	111	636	2140	1040	792	1230	1210	1590	1450	502	222	160
3	109	557	1920	928	800	1160	1230	1600	1380	474	219	159
4	107	513	1730	892	760	1130	1340	1530	1280	452	217	156
5	105	510	1550	948	745	1120	1460	1460	1230	428	216	155
6	104	462	1520	1800	818	1160	1510	1330	1200	411	213	154
7	106	432	1380	6890	1010	1080	1550	1230	1080	411	210	153
8	113	407	1240	7650	989	1020	1540	1140	945	423	207	153
9	115	388	1160	4110	937	995	1790	1030	836	398	205	151
10	153	371	1090	2590	936	1110	2650	958	804	386	204	149
11	181	354	1030	2100	934	2300	3280	937	830	384	201	148
12	169	379	973	2060	899	2370	3450	983	895	376	198	146
13	233	721	2180	1770	871	2120	3780	1150	996	366	195	145
14	204	3410	2930	1590	842	1880	5390	1230	1060	350	192	143
15	171	3090	2440	1450	830	1640	3600	1290	1040	334	190	141
16	151	2670	3870	1340	829	1500	2550	1330	953	320	188	142
17	144	2270	4990	1240	817	1350	1950	1370	836	309	186	147
18	135	1920	3580	1180	847	1220	1610	1430	834	302	183	142
19	130	1980	2700	1140	1160	1200	1410	1420	751	294	181	140
20	128	2320	2230	1120	1100	1150	1280	1460	695	287	180	139
21	134	2790	1880	1070	1880	1080	1200	1490	682	279	178	137
22	240	4260	1640	966	2220	1030	1150	1480	696	274	178	136
23	429	4260	1440	904	2420	1010	1100	1420	683	268	176	135
24	313	3260	1300	974	2160	1020	1050	1400	634	263	175	133
25	283	2580	1180	1310	1920	1030	1060	1420	600	259	175	132
26	258	2070	1090	1110	1700	1040	1080	1450	605	255	173	131
27	258	1740	1020	1010	1550	1020	1080	1550	604	248	171	130
28	256	1640	982	953	1430	1020	1060	1810	612	244	169	129
29	246	1780	903	902	---	1040	1100	2390	904	240	165	132
30	570	1610	848	881	---	1050	1200	2130	632	237	163	148
31	832	---	829	871	---	1080	---	1780	---	231	162	---
TOTAL	6601	50028	55775	53675	33024	39465	54810	44198	27297	10552	5919	4327
MEAN	212.9	1668	1799	1731	1179	1273	1827	1426	909.9	340.4	190.9	144.2
MAX	832	4260	4990	7650	2420	2370	5390	2390	1550	547	227	161
MIN	104	354	829	871	745	995	1050	937	600	231	162	129
AC-FT	13090	99230	110600	106500	65500	78280	108700	87670	54140	20930	11740	8580
CFSM	1.58	12.4	13.3	12.8	8.74	9.43	13.5	10.6	6.74	2.52	1.41	1.07
IN.	1.82	13.79	15.37	14.79	9.10	10.87	15.10	12.18	7.52	2.91	1.63	1.19

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002, BY WATER YEAR (WY)

	MEAN	343.2	1102	1241	1214	1221	1186	1296	1279	842.1	371.3	204.0	184.1
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 2001 CALENDAR YEAR

## FOR 2002 WATER YEAR

## WATER YEARS 1928 - 2002

ANNUAL TOTAL		255534		385671						871.8		
ANNUAL MEAN		700.1		1057						1297		1956
HIGHEST ANNUAL MEAN										465		2001
LOWEST ANNUAL MEAN										21000		Feb 8 1996
HIGHEST DAILY MEAN			4990	Dec 17		7650	Jan 8			94		Dec 5 1929
LOWEST DAILY MEAN			104	Aug 20		104	Oct 6			95		Dec 1 1929
ANNUAL SEVEN-DAY MINIMUM			108	Oct 1		108	Oct 1					
ANNUAL RUNOFF (AC-FT)		506900				765000				631600		
ANNUAL RUNOFF (CFSM)		5.19				7.83				6.46		
ANNUAL RUNOFF (INCHES)		70.41				106.27				87.75		
10 PERCENT EXCEEDS			1510			2130				1840		
50 PERCENT EXCEEDS			480			948				633		
90 PERCENT EXCEEDS			124			151				156		