

## 14216500 MUDDY RIVER BELOW CLEAR CREEK, NEAR COUGAR, WA--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.

## PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT DISCHARGE: October 1983 to March 1995, October 1998 to current year. Water years 1995 and 1996, daily sediment discharge values for period October to March, monthly sediment discharge values only for the period April to September. Water years 1997 and 1998, annual sediment discharge estimates only (on file at the Cascades Volcano Observatory in Vancouver, WA). Records prior to October 1985 are published in U.S. Geological Survey Open-File Report 85-632; records for 1984-87 are published in U.S. Geological Survey Open-File Report 91-219.

INSTRUMENTATION.--Water-quality monitor May 1990 to September 1991. Automatic pumping sediment sampler August 1983 to September 1996, October 1998 to current year.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily, 37,800 mg/L Oct. 26, 1986; minimum, 1 mg/L on several days in water years 2001, 2002.  
SEDIMENT DISCHARGE: Maximum daily, 1,400,000 tons (estimated) Feb. 8, 1996; minimum, 0.45 tons Oct. 9, 2001.

## EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily 4,010 mg/L (estimated) Jan. 8; minimum daily 1 mg/L Oct. 9 and Sept. 26.  
SEDIMENT DISCHARGE: Maximum daily 88,300 tons (estimated) Jan. 8; minimum daily 0.45 tons Oct. 9.

## SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
	OCTOBER			NOVEMBER			DECEMBER		
1	113	3.0	0.88	648	96	170	2010	134	746
2	111	4.0	1.0	636	181	316	2140	118	683
3	109	2.0	0.71	557	101	152	1920	79	413
4	107	2.0	0.70	513	90	125	1730	51	238
5	105	3.0	0.95	510	96	132	1550	38	159
6	104	3.0	0.75	462	77	97.0	1520	28	113
7	106	5.0	1.3	432	70	82.0	1380	23	87.0
8	113	2.0	0.62	407	62	68.0	1240	19	65.0
9	115	1.0	0.45	388	55	57.0	1160	17	53.0
10	153	22	12.0	371	47	47.0	1090	11	32.0
11	181	25	13.0	354	39	38.0	1030	10	27.0
12	169	15	8.0	379	37	38.0	973	19	50.0
13	233	48	34.0	721	157	511	2180	494	4440
14	204	31	18.0	3410	1780	16900	2930	836	6920
15	171	11	5.3	3090	855	7200	2440	276	1830
16	151	6.0	2.4	2670	619	4500	3870	1590	19900
17	144	4.0	1.5	2270	299	1850	4990	2220	31600
18	135	6.0	2.1	1920	176	918	3580	1010	9940
19	130	5.0	1.7	1980	130	701	2700	450	3340
20	128	5.0	1.7	2320	253	1630	2230	200	1220
21	134	3.0	1.1	2790	e524	e3980	1880	118	605
22	240	50	52.0	4260	e2070	e25300	1640	73	324
23	429	81	94.0	4260	e1410	e16500	1440	63	246
24	313	20	18.0	3260	e608	e5460	1300	59	208
25	283	9.0	6.8	2580	247	1740	1180	55	175
26	258	8.0	5.6	2070	147	831	1090	51	149
27	258	8.0	5.3	1740	102	479	1020	47	129
28	256	7.0	5.0	1640	76	338	982	43	113
29	246	9.0	5.8	1780	83	404	903	38	94.0
30	570	545	1290	1610	69	299	848	34	78.0
31	832	e414	e1100	---	---	---	829	30	67.0
TOTAL	6601	---	2690.66	50028	---	90863.0	55775	---	84044.0

## LEWIS RIVER BASIN

14216500 MUDDY RIVER BELOW CLEAR CREEK, NEAR COUGAR, WA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	JANUARY			FEBRUARY			MARCH		
1	886	42	108	828	22	49.0	1310	90	320
2	1040	60	168	792	18	39.0	1230	75	247
3	928	47	117	800	15	33.0	1160	59	185
4	892	37	89.0	760	12	24.0	1130	43	132
5	948	38	100	745	8.0	17.0	1120	41	126
6	1800	e253	e1740	818	43	108	1160	47	147
7	6890	e3900	e83700	1010	120	328	1080	38	111
8	7650	e4010	e88300	989	78	208	1020	28	77.0
9	4110	e1550	e17700	937	37	93.0	995	24	66.0
10	2590	942	6660	936	31	78.0	1110	72	220
11	2100	495	2830	934	39	98.0	2300	e661	e5280
12	2060	501	2820	899	25	60.0	2370	e563	e3690
13	1770	293	1410	871	17	40.0	2120	e229	e1320
14	1590	214	919	842	15	34.0	1880	164	833
15	1450	154	604	830	13	30.0	1640	118	526
16	1340	129	465	829	13	28.0	1500	72	293
17	1240	103	345	817	13	28.0	1350	35	127
18	1180	82	259	847	18	42.0	1220	29	94.0
19	1140	73	223	1160	109	353	1200	25	82.0
20	1120	74	225	1100	130	387	1150	22	70.0
21	1070	59	174	1880	e452	e2470	1080	19	57.0
22	966	30	78.0	2220	e516	e3090	1030	16	46.0
23	904	23	56.0	2420	e531	e3480	1010	13	36.0
24	974	68	183	2160	e237	e1400	1020	10	28.0
25	1310	283	1040	1920	156	809	1030	8.0	21.0
26	1110	160	482	1700	137	629	1040	8.0	22.0
27	1010	108	295	1550	121	507	1020	9.0	24.0
28	953	76	195	1430	106	408	1020	10	26.0
29	902	48	117	---	---	---	1040	10	29.0
30	881	33	79.0	---	---	---	1050	11	32.0
31	871	25	59.0	---	---	---	1080	12	36.0
TOTAL	53675	---	211540.0	33024	---	14870.0	39465	---	14303.0
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	APRIL			MAY			JUNE		
1	1150	14	42.0	1410	186	712	1550	235	989
2	1210	18	60.0	1590	308	1320	1450	162	637
3	1230	23	78.0	1600	264	1140	1380	112	420
4	1340	29	104	1530	161	669	1280	75	261
5	1460	33	132	1460	104	412	1230	54	179
6	1510	37	149	1330	97	351	1200	45	147
7	1550	42	175	1230	63	211	1080	37	108
8	1540	60	250	1140	54	165	945	26	65.0
9	1790	107	538	1030	40	112	836	15	34.0
10	2650	644	4820	958	31	80.0	804	16	34.0
11	3280	1130	10000	937	22	57.0	830	22	49.0
12	3450	1040	9660	983	27	73.0	895	29	69.0
13	3780	1360	14300	1150	50	155	996	29	77.0
14	5390	2430	36100	1230	64	212	1060	38	109
15	3600	2170	21000	1290	74	259	1040	40	112
16	2550	1220	8560	1330	75	270	953	26	67.0
17	1950	571	3040	1370	114	424	836	17	39.0
18	1610	476	2080	1430	125	482	834	14	31.0
19	1410	274	1050	1420	85	327	751	12	24.0
20	1280	192	666	1460	100	395	695	9.0	17.0
21	1200	171	555	1490	138	556	682	5.0	9.1
22	1150	147	458	1480	90	358	696	6.0	12.0
23	1100	120	356	1420	68	261	683	9.0	17.0
24	1050	100	284	1400	56	211	634	7.0	11.0
25	1060	88	251	1420	69	263	600	6.0	9.9
26	1080	106	307	1450	65	254	605	7.0	12.0
27	1080	87	253	1550	108	453	604	8.0	14.0
28	1060	67	192	1810	362	1900	612	e11	e19.0
29	1100	73	218	2390	939	6050	904	e40	e105
30	1200	103	337	2130	502	2900	632	11	19.0
31	---	---	---	1780	376	1820	---	---	---
TOTAL	54810	---	116015.0	44198	---	22852.0	27297	---	3696.0

## LEWIS RIVER BASIN

3

14216500 MUDDY RIVER BELOW CLEAR CREEK, NEAR COUGAR, WA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
	JULY			AUGUST			SEPTEMBER		
1	547	9.0	14.0	227	6.0	3.7	161	4.0	1.7
2	502	6.0	7.9	222	5.0	3.0	160	5.0	2.1
3	474	5.0	7.0	219	7.0	4.2	159	4.0	1.8
4	452	3.0	3.8	217	26	15.0	156	5.0	2.0
5	428	6.0	7.2	216	15	8.5	155	3.0	1.4
6	411	7.0	7.3	213	3.0	1.8	154	3.0	1.4
7	411	4.0	4.1	210	3.0	2.0	153	5.0	2.2
8	423	4.0	4.6	207	3.0	1.9	153	3.0	1.4
9	398	5.0	5.9	205	6.0	3.5	151	3.0	1.0
10	386	4.0	4.2	204	16	9.0	149	5.0	2.1
11	384	1.0	1.5	201	8.0	4.6	148	4.0	1.8
12	376	2.0	1.6	198	10	5.2	146	5.0	1.8
13	366	6.0	6.1	195	12	6.4	145	3.0	1.2
14	350	11	10.0	192	9.0	4.7	143	7.0	2.6
15	334	9.0	8.3	190	5.0	2.5	141	4.0	1.6
16	320	7.0	6.3	188	5.0	2.8	142	2.0	0.67
17	309	7.0	5.5	186	10	5.1	147	3.0	1.4
18	302	6.0	5.2	183	11	5.3	142	3.0	1.3
19	294	9.0	7.0	181	4.0	1.9	140	4.0	1.4
20	287	10	8.0	180	6.0	2.7	139	3.0	1.1
21	279	8.0	6.3	178	7.0	3.2	137	7.0	2.6
22	274	14	10.0	178	5.0	2.6	136	7.0	2.4
23	268	17	12.0	176	6.0	2.7	135	5.0	1.9
24	263	11	7.8	175	5.0	2.5	133	4.0	1.4
25	259	9.0	6.2	175	5.0	2.6	132	2.0	0.87
26	255	11	7.9	173	3.0	1.5	131	1.0	0.50
27	248	7.0	4.6	171	7.0	3.2	130	3.0	0.95
28	244	10	6.3	169	6.0	2.8	129	3.0	1.0
29	240	7.0	4.4	165	5.0	2.3	132	2.0	0.76
30	237	6.0	3.9	163	5.0	2.1	148	2.0	0.78
31	231	7.0	4.2	162	3.0	1.2	---	---	---
TOTAL	10552	---	199.1	5919	---	120.5	4327	---	45.13
YEAR	385671		561238.39						

e Estimated