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 many days in water year 2001.
SEDIMENT DISCHARGE: Maximum daily, 1,400,000 tons (estimated) Feb. 8, 1996; minimum, 0.57 tons Nov. 20, 1993 and Sept. 24, 2001.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION: Maximum daily 178 mg/L Apr. 30; minimum daily 1 mg/L on many days.
SEDIMENT DISCHARGE: Maximum daily 924 tons Apr. 30; minimum daily 0.57 tons Sept. 24.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)
		OCTOBER			NOVEMBER			DECEMBER	
1	466	e134	e177	257	3	1.9	433	6	7.6
2	260	41	30	246	2	1.1	456	7	8.8
3	210	12	6.5	237	1	.85	415	2	2.5
4	188	10	5.2	269	9	7.3	385	2	2.0
5	174	10	4.4	264	8	5.6	371	1	1.3
6	164	9	3.8	266	7	5.2	359	2	1.7
7	157	8	3.3	250	6	4.1	348	1	1.2
8	151	7	2.9	304	17	15	336	2	1.8
9	151	7	2.8	313	19	16	331	4	3.9
10	158	8	3.4	280	11	8.2	322	5	4.0
11	149	7	2.6	256	9	5.9	306	4	3.5
12	145	6	2.5	244	7	4.5	294	4	3.0
13	144	6	2.4	240	6	3.5	295	3	2.7
14	145	6	2.3	234	5	3.1	315	4	3.7
15	140	6	2.1	223	4	2.7	357	3	3.1
16	154	9	3.6	216	4	2.4	365	4	4.0
17	149	8	3.1	209	4	2.1	443	5	5.9
18	160	10	4.1	202	3	1.8	365	2	2.3
19	147	7	3.0	201	3	1.6	350	5	5.0
20	384	e65	e93	202	3	1.5	336	3	2.7
21	343	31	29	198	3	1.4	329	2	1.7
22	245	18	12	192	3	1.3	341	1	1.3
23	213	15	8.5	221	4	2.6	454	4	5.7
24	197	11	6.0	245	7	4.9	470	3	3.6
25	186	10	4.8	241	5	3.1	423	1	1.1
26	180	9	4.3	303	e11	e11	408	1	1.1
27	176	9	4.1	586	e97	e170	426	1	1.5
28	348	e51	e53	365	21	21	416	3	3.6
29	408	e42	e47	348	16	16	399	2	1.7
30	310	16	13	497	23	31	432	2	2.0
31	273	6	4.6	---	---	---	442	1	1.4
TOTAL	6675	---	544.3	8109	---	356.65	11722	---	95.4

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

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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	420	1	1.1	413	1	1.4	427	4	5.3
2	410	1	1.1	558	13	21	448	5	6.5
3	427	6	7.3	515	4	5.5	422	5	5.6
4	610	e17	e29	843	e56	e150	408	4	4.7
5	740	e34	e71	865	22	54	423	4	5.1
6	684	12	22	787	5	11	450	5	6.5
7	645	6	9.9	738	4	8.4	490	7	9.9
8	629	4	7.1	709	3	6.3	556	20	30
9	615	4	6.6	676	3	5.9	557	19	29
10	646	4	7.0	638	4	7.6	548	14	21
11	608	4	6.4	605	2	4.0	540	11	17
12	579	4	5.4	567	2	3.5	540	11	16
13	582	5	8.1	543	4	5.4	564	12	19
14	556	3	4.1	522	5	6.8	575	15	23
15	527	3	3.9	524	6	8.8	599	14	24
16	498	2	2.9	543	5	7.4	585	11	17
17	480	2	2.6	490	3	3.7	567	8	12
18	480	2	3.0	488	4	4.8	807	e49	e140
19	509	4	5.8	470	1	1.7	1180	e95	e310
20	485	3	3.6	458	3	4.2	1080	30	86
21	515	4	5.9	473	9	12	1040	22	63
22	515	2	3.4	487	5	7.2	989	24	63
23	487	2	2.6	464	6	7.9	962	24	62
24	476	2	2.6	446	4	5.0	1010	34	95
25	461	2	2.5	429	4	5.0	1300	124	450
26	446	2	2.4	415	6	6.5	1410	121	460
27	429	2	2.2	408	5	5.3	1380	58	217
28	418	2	1.9	405	4	4.6	1320	50	179
29	429	2	1.8	---	---	---	1190	41	130
30	426	1	1.6	---	---	---	1100	33	97
31	416	1	1.4	---	---	---	1190	46	149
TOTAL	16148	---	236.2	15479	---	374.9	24657	---	2752.6

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	1180	31	97	1850	67	335	553	5	6.8
2	1130	32	99	1650	38	172	554	2	3.5
3	1050	27	77	1480	27	108	540	6	8.7
4	969	19	49	1360	15	57	479	5	6.8
5	913	13	31	1300	9	30	470	2	2.7
6	891	7	17	1200	6	20	467	3	3.7
7	803	8	17	1140	6	18	428	3	3.6
8	746	9	19	1130	7	21	411	4	4.2
9	686	8	15	1130	8	23	412	2	2.0
10	690	7	14	1110	7	22	396	4	3.7
11	683	7	13	1090	6	18	456	4	5.0
12	632	6	10	1120	8	25	460	8	10
13	596	6	9.7	1160	9	28	418	7	8.2
14	563	11	17	1340	e36	e150	390	6	5.9
15	539	7	10	1480	33	136	372	7	7.0
16	537	8	11	1500	24	100	354	5	4.9
17	629	10	17	1310	11	38	342	4	4.2
18	617	8	14	1170	7	23	329	4	3.2
19	623	10	17	1080	6	18	317	6	4.8
20	635	9	16	1000	6	16	306	5	4.3
21	650	10	17	951	4	11	298	6	5.2
22	676	12	22	959	5	12	291	11	8.5
23	711	14	28	1020	4	10	284	12	9.6
24	718	5	9.6	1020	8	21	287	9	7.2
25	843	10	24	943	3	8.8	294	21	17
26	1070	23	67	864	3	7.9	273	12	8.5
27	1240	33	110	794	3	5.7	402	16	20
28	1310	28	100	757	3	6.7	446	43	52
29	1270	21	71	674	2	3.8	330	15	14
30	1770	178	924	608	3	5.1	303	8	6.9
31	---	---	---	569	4	5.5	---	---	---
TOTAL	25370	---	1942.3	34759	---	1455.5	11662	---	252.1

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

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)
		JULY			AUGUST			SEPTEMBER	
1	288	11	8.3	148	3	1.2	147	4	1.7
2	276	13	9.6	146	3	1.2	146	4	1.6
3	268	18	13	145	3	1.1	142	4	1.5
4	260	10	7.0	143	3	1.1	141	4	1.4
5	252	7	4.6	139	3	1.1	138	4	1.4
6	244	10	6.4	135	3	1.0	137	4	1.3
7	238	9	5.7	133	3	.98	135	3	1.2
8	232	4	2.7	128	3	.93	132	3	1.2
9	227	3	1.7	124	3	.89	130	3	1.1
10	221	4	2.1	121	3	.85	128	3	1.0
11	216	6	3.8	119	3	.82	126	3	.99
12	210	9	4.9	117	2	.79	124	3	.93
13	203	6	3.3	116	2	.77	123	3	.88
14	199	7	3.9	114	2	.74	121	2	.83
15	197	5	2.7	113	2	.72	121	2	.78
16	201	8	4.2	111	2	.70	120	2	.73
17	204	8	4.4	110	2	.68	119	2	.68
18	199	4	2.2	107	2	.65	118	2	.64
19	189	4	2.2	106	2	.63	117	2	.63
20	190	6	3.0	104	2	.60	115	2	.61
21	219	7	3.9	105	3	.80	114	2	.60
22	191	7	3.6	354	e68	e99	114	2	.60
23	181	4	1.9	411	e21	e34	112	2	.58
24	175	7	3.1	263	5	3.7	110	2	.57
25	169	9	4.0	209	5	2.9	115	2	.75
26	163	17	7.6	185	5	2.5	169	14	6.9
27	159	6	2.5	174	5	2.3	155	20	8.3
28	169	3	1.4	166	5	2.1	130	8	3.0
29	161	3	1.4	159	5	2.0	122	6	2.1
30	156	3	1.3	154	4	1.8	117	5	1.6
31	151	3	1.2	150	4	1.7	---	---	---
TOTAL	6408	---	127.6	4809	---	170.25	3838	---	46.10
YEAR	169636		8353.90						

e Estimated