

14242580 TOUTLE RIVER AT TOWER ROAD, NEAR SILVER LAKE, WA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May to October 1990, May to September 1991.

WATER TEMPERATURE: May to October 1990, May to September 1991.

SUSPENDED SEDIMENT DISCHARGE: February 1981 to current year. 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 since February 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily, 232,000 mg/L Mar. 20, 1982; minimum, 1 mg/L Oct. 3, 1989.

SEDIMENT DISCHARGE: Maximum daily, 5,930,000 tons Feb. 20, 1982; minimum, 0.71 tons Oct. 3, 1989.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily, 10,200 mg/L Jan. 8; minimum, 8 mg/L on several days.

SEDIMENT DISCHARGE: Maximum daily, 464,000 tons Jan. 8; minimum, 6.5 tons Sept. 27.

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	324	9.0	8.2	2330	590	3770	7530	1480	31000
2	316	11	9.4	1990	356	1910	7230	1100	22000
3	310	14	12.0	1630	271	1200	5570	613	9310
4	310	8.0	6.6	1370	228	844	4940	490	6570
5	299	9.0	7.0	1360	286	1050	4470	340	4130
6	295	9.0	7.2	1170	214	682	4330	305	3600
7	301	9.0	7.0	1030	145	405	4050	239	2660
8	330	10	9.4	931	106	268	3550	170	1630
9	357	9.0	8.5	858	73	169	3480	193	1830
10	364	12	13.0	801	68	147	3120	157	1330
11	625	81	137	751	68	138	3180	161	1380
12	484	47	62.0	750	79	161	2990	142	1150
13	686	132	255	956	275	753	5340	1150	27700
14	650	97	171	6750	6070	128000	10200	2440	72000
15	644	60	106	5120	2060	29200	6460	812	14400
16	547	56	82.0	4170	1290	14700	10100	1960	66600
17	554	89	134	3290	830	7450	16500	5930	289000
18	485	86	113	2600	456	3250	8640	2000	47200
19	454	76	94.0	2390	287	1870	6340	1200	20800
20	457	66	82.0	2900	711	5580	4940	893	12000
21	453	62	76.0	3650	836	8270	3880	688	7230
22	563	84	129	6270	2750	59100	3220	543	4740
23	1400	466	1950	8170	2610	60700	2750	443	3300
24	1410	286	1160	5160	902	12800	2440	428	2820
25	1190	108	349	3820	453	4730	2200	381	2270
26	1080	82	240	3010	274	2250	2030	414	2260
27	1150	111	355	2450	222	1470	1890	313	1590
28	1210	163	539	3250	619	6490	1900	310	1590
29	992	57	155	5500	1150	17500	1740	289	1360
30	1160	143	526	5160	716	10100	1630	259	1140
31	2340	1680	11200	---	---	---	1660	258	1160
TOTAL	21740	---	18003.3	89587	---	384957	148300	---	665750

COWLITZ RIVER BASIN

14242580 TOUTLE RIVER AT TOWER ROAD, NEAR SILVER LAKE, 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	1690	268	1230	2710	380	2800	2440	593	3910
2	2120	449	2570	2470	294	1960	2190	536	3170
3	2130	401	2310	2570	355	2480	2020	440	2400
4	1970	367	1960	2440	300	1990	1900	369	1900
5	1890	259	1320	2360	276	1760	1890	411	2100
6	2280	613	4230	2520	377	2620	2070	518	2900
7	11500	7210	249000	3760	1380	14200	1860	343	1720
8	15800	10200	464000	4620	1240	15600	1740	207	976
9	8290	4940	112000	4050	690	7630	1670	102	460
10	5860	4000	63600	3520	498	4750	1960	289	1580
11	4560	2390	29900	3280	486	4350	5370	3950	81500
12	4310	1940	22700	2820	423	3230	7520	3340	72000
13	3800	1500	15500	2530	338	2310	5670	1520	23300
14	3280	1140	10100	2280	280	1730	4780	947	12300
15	2920	1020	8040	2120	250	1440	4020	709	7710
16	2740	1160	8610	2140	310	1800	3560	567	5460
17	2650	1080	7800	2040	278	1530	3090	442	3700
18	2430	888	5830	2040	253	1400	2750	362	2690
19	2830	1370	10500	2710	722	5540	3500	927	10000
20	3070	1520	12900	2760	582	4370	4410	1140	14100
21	3590	1770	17400	4260	2670	35100	3640	560	5540
22	3160	956	8150	5700	3440	52900	3130	394	3350
23	2830	773	5930	6700	3920	71800	2880	333	2580
24	3480	1580	16500	6370	2660	46300	2780	408	3070
25	8630	4570	108000	4850	1600	21300	2730	392	2890
26	6450	1520	27200	3860	1080	11300	2610	377	2660
27	4870	803	10700	3210	835	7290	2550	361	2490
28	3840	524	5460	2780	661	4970	2470	345	2300
29	3200	385	3330	---	---	---	2460	330	2190
30	2880	354	2750	---	---	---	2370	314	2010
31	2850	425	3300	---	---	---	2290	298	1840
TOTAL	131900	---	1242820	93470	---	334450	94320	---	284796
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	2240	305	1850	2100	657	3740	2190	764	4520
2	2230	321	1940	2270	708	4350	2060	674	3740
3	2160	299	1740	2220	590	3550	2010	678	3670
4	2150	278	1610	2020	495	2710	1940	642	3360
5	2280	269	1660	2000	475	2570	1940	671	3520
6	2480	384	2580	1990	467	2520	1940	701	3680
7	2650	520	3720	1910	440	2270	1780	621	2980
8	2540	460	3170	1810	404	1980	1720	638	2970
9	2730	801	6490	1680	299	1350	1520	532	2180
10	4590	2970	37300	1590	238	1020	1430	459	1770
11	5230	2450	34700	1520	197	813	1460	596	2360
12	5380	2080	30200	1540	218	907	1500	676	2750
13	5770	2320	36700	1800	456	2260	e1600	832	e3600
14	9960	7510	208000	2040	623	3430	e1800	1010	e4900
15	6930	3750	71000	1930	329	1730	1680	878	3980
16	5590	2340	35600	1870	176	887	1550	749	3140
17	4640	1700	21400	1930	146	762	1430	652	2520
18	3890	1500	15800	1980	123	658	1580	851	3630
19	3340	1250	11300	1950	125	661	1510	687	2820
20	2980	1030	8330	2120	322	1850	1340	491	1780
21	2710	866	6350	2260	518	3160	1300	443	1550
22	2560	794	5500	2180	498	2920	1300	486	1720
23	2370	724	4640	2090	449	2540	1280	491	1710
24	2190	655	3880	1940	401	2110	1220	385	1270
25	2100	585	3320	1920	380	1970	1160	368	1160
26	2090	542	3050	2010	376	2030	1170	436	1380
27	2160	528	3080	2090	367	2070	1200	542	1760
28	2010	513	2790	2470	595	3990	1230	638	2160
29	1940	504	2650	3430	1890	17700	1870	2900	15000
30	1980	560	2990	2920	1320	10500	1440	897	3530
31	---	---	---	2480	946	6340	---	---	---
TOTAL	101870	---	573340	64060	---	95348	47150	---	95110

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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)
1	1200	434	1410	512	31	43.0	367	9.0	8.6
2	1070	400	1160	495	31	41.0	376	11	11.0
3	1020	215	590	484	30	39.0	383	9.0	9.1
4	979	211	558	488	29	39.0	379	10	9.7
5	935	300	760	526	29	41.0	366	12	12.0
6	885	175	418	531	29	42.0	363	9.0	8.4
7	895	189	458	485	30	40.0	361	8.0	7.5
8	991	196	526	468	18	23.0	370	9.0	9.0
9	e920	172	e430	454	15	18.0	380	9.0	9.5
10	e900	140	e340	449	18	22.0	365	9.0	8.6
11	858	157	363	452	15	18.0	357	9.0	8.5
12	842	139	316	437	13	16.0	351	10	9.4
13	816	137	301	427	14	16.0	346	11	11.0
14	790	134	285	420	15	17.0	340	9.0	8.5
15	756	111	228	414	13	15.0	339	8.0	7.6
16	727	84	166	411	17	19.0	351	9.0	8.5
17	712	73	141	406	14	16.0	381	11	11.0
18	699	79	150	395	14	15.0	358	9.0	8.6
19	685	60	111	396	11	12.0	343	12	11.0
20	673	65	119	401	12	13.0	343	13	12.0
21	643	54	93.0	406	16	18.0	334	11	9.9
22	629	43	73.0	407	9.0	10.0	327	13	11.0
23	613	34	56.0	394	12	13.0	321	10	8.6
24	603	31	50.0	385	10	11.0	318	11	9.8
25	595	35	56.0	381	9.0	9.2	315	12	9.9
26	597	33	54.0	394	8.0	8.8	311	9.0	7.9
27	595	34	54.0	402	11	11.0	311	8.0	6.5
28	571	34	52.0	390	10	10.0	309	8.0	7.0
29	568	33	51.0	377	10	10.0	352	9.0	8.9
30	546	32	48.0	373	10	10.0	496	30	41.0
31	530	32	46.0	373	12	12.0	---	---	---
TOTAL	23843	---	9463.0	13333	---	628.0	10613	---	310.0
YEAR	840186		3704975.3						

e Estimated