

Table 7. Instantaneous loads of major ions and metals in the Daisy Creek and Stillwater River drainage, Montana, August 26, 1999

[Site number indicates distance downstream from tracer-injection site, in feet. Abbreviations: mg/s, milligrams per second; µg/s, micrograms per second. Symbol: --, load not calculated because concentration was less than the minimum reporting level]

Site number (fig. 2)	Calcium load (mg/s)	Magnesium load (mg/s)	Sodium load (mg/s)	Sulfate load (mg/s)	Aluminum, dissolved, load (µg/s)	Alumi-num, total recover- able, load (µg/s)	Cadmium, dissolved, load (µg/s)	Cadmium, total recover- able, load (µg/s)	Copper, dissolved, load (µg/s)
DAISY CREEK AND STILLWATER RIVER									
0	52	7	1	69	8	21	--	--	3
104	118	14	216	212	128	944	--	--	230
177	145	19	221	297	141	2,420	6.21	7.07	780
270	148	20	220	306	163	2,510	6.14	7.13	615
360	179	34	227	667	2,115	21,200	11.6	11.8	5,260
425	208	48	230	1,000	28,200	40,700	15.7	16.2	10,600
460	214	50	224	1,030	25,300	41,200	16.1	16.7	10,700
611	376	98	226	2,520	104,000	114,000	35.9	36.7	36,000
819 ¹	378	98	219	2,640	110,000	119,000	37.6	36.7	36,100
1,082	509	144	231	2,970	126,000	128,000	40.9	41.1	39,000
1,340	547	153	232	3,220	134,000	137,000	42.9	43.5	41,800
1,695	574	159	236	3,310	140,000	143,000	44.3	44.8	43,200
2,334	654	173	233	3,660	151,000	154,000	48.4	50.7	47,300
2,658	687	180	229	3,830	153,000	162,000	50.1	50.8	47,200
3,523	698	181	229	3,870	157,000	160,000	49.8	53.0	48,700
4,283	753	194	236	4,080	166,000	168,000	53.5	54.3	50,700
5,475	775	196	231	4,120	161,000	164,000	52.9	55.2	49,500
5,661	921	240	237	4,150	106,000	170,000	53.4	56.6	48,100
5,839	1,160	296	240	4,050	2,520	164,000	52.3	56.9	32,300
7,324	1,210	299	232	4,150	289	177,000	49.0	55.2	6,400
7,829	1,230	303	227	4,030	288	144,000	47.3	52.1	4,000
9,925	1,350	320	224	4,240	556	134,000	39.8	47.6	1,310
11,549	1,460	339	225	4,430	630	130,000	38.5	47.2	1,170
11,890	4,180	1,020	529	5,200	8,690	135,000	--	--	2,960
12,410	4,570	1,070	528	5,210	6,610	108,000	--	--	3,100
SURFACE-INFLOW SITES									
74	59.4	6.79	1.26	116	79.0	256	1.56	1.83	177
114	4.06	.85	.14	16.6	306	330	.73	.67	201
129	.83	.11	.02	.69	.19	--	--	--	.15
161	.59	.17	.02	3.39	164	163	.10	.11	82.6
292	7.18	3.41	.23	74.9	4,960	4,670	1.13	1.19	1,400
348	7.90	4.28	.24	98.9	6,440	6,170	1.29	1.42	1,640
401	18.4	10.3	.60	243	15,100	15,100	1.47	2.89	4,040
402	2.71	.69	.07	1.66	8.60	13.5	--	--	1.43
411 ²	15.3	4.83	.60	155	7,330	7,300	1.99	2.03	2,750
432	3.15	.76	.07	2.30	10.5	9.99	--	--	2.57
481	91.2	28.7	3.57	923	43,600	43,400	11.9	12.1	16,400
546 ³	4.73	1.14	.10	3.45	15.8	15.0	--	.09	3.85
686	.93	.18	.01	.11	.27	--	--	--	.06

Site number (fig. 2)	Copper, total recover-able, load (µg/s)	Iron, dissolved, load (µg/s)	Iron, total recover-able, load (µg/s)	Lead, dissolved, load (µg/s)	Lead, total recover-able, load (µg/s)	Man-ganese, dissolved, load (µg/s)	Man-ganese, total recover- able, load (µg/s)	Zinc, dissolved, load (µg/s)	Zinc, total recover-able, load (µg/s)
DAISY CREEK AND STILLWATER RIVER									
0	2	--	21	--	--	6	7	8	--
104	510	--	620	--	7.6	445	465	353	476
177	1,520	--	243	--	--	1,560	1,540	802	948
270	1,620	--	390	--	--	1,570	1,580	755	943
360	6,300	20,600	25,800	--	--	4,080	4,000	1,500	1,570
425	10,300	26,200	42,200	--	5.2	6,160	6,070	2,020	2,090
460	10,300	32,800	47,600	--	6.0	6,300	6,230	2,130	2,190
611	35,300	127,000	148,000	22.0	19.1	15,300	14,500	5,270	4,850
819 ¹	37,100	114,000	148,000	24.3	23.4	15,900	15,000	5,190	5,070
1,082	37,500	67,000	151,000	21.4	30.2	16,400	15,900	5,370	5,160
1,340	40,200	70,300	156,000	27.7	33.1	17,800	17,000	5,710	5,640
1,695	41,700	69,100	157,000	31.6	39.5	18,600	17,500	5,920	5,710
2,334	44,900	67,000	160,000	40.5	50.7	20,600	19,100	6,430	6,350
2,658	46,800	65,600	165,000	43.0	51.8	20,900	19,900	6,610	6,600
3,523	46,600	60,300	157,000	48.3	55.6	21,300	20,000	6,580	6,600
4,283	48,800	57,500	160,000	51.1	60.8	22,300	21,200	6,950	6,960
5,475	47,800	46,700	144,000	52.8	62.5	22,500	21,200	7,020	7,040
5,661	47,700	41,100	149,000	30.4	81.4	22,500	21,400	7,160	7,130
5,839	46,700	37,300	146,000	--	81.9	22,500	21,100	7,010	7,140
7,324	45,500	3,310	165,000	--	152	21,500	20,600	5,830	7,270
7,829	42,000	454	125,000	--	67.4	20,100	19,000	5,350	6,550
9,925	40,500	155	115,000	--	44.4	18,500	17,500	3,370	6,130
11,549	39,200	163	111,000	--	59.2	18,200	17,200	2,970	6,230
11,890	41,300	853	115,000	--	--	18,800	18,100	1,090	6,880
12,410	31,200	890	88,100	--	--	16,300	15,700	1,310	5,960
SURFACE-INFLOW SITES									
74	245	--	18.1	--	--	291	272	241	259
114	186	--	--	--	--	193	169	95.2	86.1
129	.05	--	.67	--	--	--	--	.10	--
161	71.2	.62	.96	.09	.09	45.9	44.0	14.1	13.9
292	1,220	1,100	924	.71	.58	649	544	178	153
348	1,500	4,160	3,430	.10	.08	743	625	187	158
401	3,730	12,100	10,500	--	.26	1,760	1,560	408	372
402	2.98	4.32	47.7	--	--	4.03	4.02	.30	--
411 ²	2,540	11,500	11,000	1.25	1.09	833	787	303	278
432	2.74	6.49	15.6	--	--	1.78	1.37	.30	--
481	15,100	68,600	65,500	7.45	6.50	4,960	4,680	1,800	1,650
546 ³	4.10	9.73	23.3	--	--	2.68	2.05	.45	--
686	.03	--	2.25	--	--	.15	.33	--	--

