

APPENDIX V

**2006 PRECIPITATION QUALITY SUMMARY
MICRO-EQUIVALENT CONCENTRATIONS AND IONIC BALANCES
OF WEEKLY PRECIPITATION CHEMISTRY OBSERVATIONS**

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060117	CROOKCRK	1.88	18.0	3.89	1.32	0.77	3.26	5.14	30.90	19.42	4.09	29.08	98	0.861	-7.47	-13.6	
060117	GODDARD	0.42	20.7	6.49	1.56	0.79	3.35	13.14	39.81	30.42	6.52	34.12	136	0.917	-4.34	0.3	
060117	HILLSCRK	0.73	21.0	3.59	1.65	1.20	5.83	23.49	32.36	21.92	7.84	36.43	134	1.029	1.43	-11.5	
060117	KANE	1.04	14.8	3.99	0.82	0.23	1.65	8.87	29.51	14.68	2.26	25.62	88	1.059	2.88	-2.2	
060117	LAURHILL	0.75	14.2	4.34	1.07	1.00	2.87	1.00	23.99	15.21	5.47	23.60	79	0.774	-12.75	-13.9	
060117	LEADRIDG	1.10	20.1	4.49	1.65	0.38	5.48	16.63	35.48	23.07	5.92	34.79	128	1.005	0.26	-5.6	
060117	LITTBUFF	1.10	15.0	2.74	1.56	0.77	5.22	18.99	22.91	14.57	5.98	29.18	102	1.050	2.42	-9.1	
060117	LITTPINE	0.84	31.1	6.09	3.13	1.25	9.44	22.42	81.28	38.56	11.06	58.09	231	1.148	6.87	25.7	
060117	MILFORD	1.73	14.0	3.99	1.32	0.43	6.44	2.77	25.12	12.90	6.49	20.21	80	1.012	0.60	-10.4	
060117	MILLERSV	0.61															
060117	PRESQISL	0.80	20.7	6.44	2.06	0.46	5.00	25.85	39.81	29.20	5.92	36.56	151	1.111	5.24	5.5	
060117	PSUNADP	1.03	18.1	4.49	1.65	0.64	5.70	13.31	29.51	21.78	5.92	29.16	112	0.972	-1.40	-10.8	
060117	SLOCUM	1.23															
060117	VALLFORG	0.59	21.2	36.58	22.87	1.61	26.19	48.62	15.49	33.56	33.54	68.66	287	1.115	5.43	10.6	
060117	YOWOCRK	0.92	29.2	5.99	2.06	0.72	5.83	20.51	52.48	34.20	6.77	48.53	177	0.979	-1.08	-6.7	
060124	ALLEPORT	2.23	13.9	9.88	4.36	1.41	10.53	6.85	23.44	15.42	11.71	22.52	106	1.137	6.43	-1.3	
060124	ARENDTSV	1.65	19.0	3.49	4.61	0.56	19.44	10.53	26.92	12.26	22.85	34.16	135	0.946	-2.76	-11.8	
060124	CROOKCRK	0.61	17.8	3.94	1.48	0.54	2.91	11.71	33.88	17.14	6.66	39.68	118	0.858	-7.64	0.5	
060124	GODDARD	0.68	22.8	4.14	1.56	0.82	4.48	7.07	43.65	21.14	7.11	35.60	126	0.967	-1.69	-7.5	
060124	HILLSCRK	1.70	9.3	1.75	0.82	0.54	3.18	1.93	19.95	9.50	4.15	14.04	56	1.017	0.86	2.2	
060124	KANE	1.13	18.7	2.99	0.82	0.36	2.22	8.32	35.48	19.03	3.10	28.12	100	0.999	-0.07	-8.7	
060124	LAURHILL	1.75	14.4	2.50	1.15	0.46	3.70	4.71	28.18	13.14	4.91	23.62	82	0.977	-1.17	-4.9	
060124	LEADRIDG	2.13	22.2	6.99	2.47	0.61	9.13	15.52	35.48	22.58	11.00	37.08	141	0.994	-0.32	-11.0	
060124	LITTBUFF	1.71	20.0	3.99	6.33	1.53	27.49	15.42	27.54	17.71	35.66	35.10	171	0.931	-3.60	-3.3	
060124	LITTPINE	2.10	19.9	4.04	2.14	0.87	8.31	9.50	34.67	19.71	10.78	32.95	123	0.938	-3.18	-8.0	
060124	MILFORD	2.84	13.6	3.49	6.25	0.74	30.93	2.77	16.22	7.26	34.98	16.87	120	1.022	1.08	-9.1	
060124	MILLERSV	1.89	10.2	3.49	4.94	0.61	22.79	14.97	7.41	7.42	26.52	19.16	107	1.021	1.04	-9.4	
060124	PRESQISL	0.49	26.1	13.32	4.03	2.22	11.61	19.20	42.66	37.56	15.83	42.45	189	0.971	-1.47	-4.1	
060124	PSUNADP	2.09	20.3	5.49	2.06	0.59	7.39	14.41	33.11	21.78	9.59	35.20	130	0.947	-2.71	-9.5	
060124	SLOCUM	1.77															
060124	VALLFORG	2.01	12.4	3.29	7.07	1.25	27.80	4.42	12.30	6.36	37.01	21.54	121	0.865	-7.24	-7.6	
060124	YOWOCRK	2.20	12.9	2.00	0.66	0.15	2.09	4.44	25.12	13.71	3.39	16.66	68	1.020	1.01	-8.1	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060131	ALLEPORT	0.77															
060131	ARENDSV	0.58	33.0	7.98	1.81	0.41	3.26	30.49	56.23	48.39	9.31	44.78	203	0.978	-1.13	-8.6	
060131	CROOKCRK	0.25	18.9	3.09	1.48	0.92	3.65	6.71	29.51	9.57	1.78	37.47	94	0.929	-3.66	-21.1	
060131	GODDARD	0.36	21.9	6.39	2.14	0.69	4.09	16.28	28.18	21.28	3.44	40.66	123	0.884	-6.18	-24.3	
060131	HILLSCRK	0.17	24.5	11.83	2.88	1.46	4.65	14.28	36.31	37.84	2.88	29.12	141	1.022	1.11	-18.5	
060131	KANE	0.72	15.7	4.49	0.90	0.26	1.39	16.63	26.30	18.71	2.54	28.33	100	1.008	0.40	-7.9	
060131	LAURHILL	1.06	14.8	8.48	2.39	0.87	3.52	17.14	24.55	22.99	6.29	29.91	116	0.962	-1.94	1.4	
060131	LEADRIDG	0.40	21.2	4.99	1.32	0.36	2.04	17.19	27.54	24.36	4.51	29.58	112	0.914	-4.48	-26.1	
060131	LITTBUFF	0.66	25.7	3.69	1.40	0.95	3.13	28.20	44.67	37.49	2.34	41.12	163	1.013	0.67	-6.0	
060131	LITTPINE	0.19	21.3	47.31	16.62	1.28	8.74	30.77	15.85	47.34	3.84	58.82	231	1.096	4.58	-7.9	
060131	MILFORD	0.37	52.3	10.98	2.71	0.72	8.00	29.94	95.50	75.17	11.00	63.74	298	0.986	-0.69	-8.6	
060131	MILLERSV	0.41	27.8	5.99	1.65	0.38	3.09	40.47	42.66	38.71	7.05	49.37	189	0.991	-0.47	-8.3	
060131	PRESQISL	0.46	29.2	29.69	8.06	1.69	7.05	59.48	30.90	55.77	4.40	67.84	265	1.069	3.34	-7.6	
060131	PSUNADP	0.66	20.5	4.99	1.07	0.31	1.74	16.63	38.02	31.29	3.39	27.29	125	1.013	0.64	-4.8	
060131	SLOCUM	0.72	39.0	13.12	4.36	2.35	10.66	41.91	60.26	55.77	3.30	59.45	251	1.119	5.63	-11.6	
060131	VALLFORG	0.20	33.4	6.69	3.54	0.92	7.70	22.85	60.26	49.77	1.27	44.74	198	1.064	3.12	-7.9	
060131	YOWOCRK	0.34	32.1	4.99	1.23	0.38	1.65	26.61	63.10	48.07	4.23	38.54	189	1.079	3.78	-3.0	
060207	ALLEPORT	1.20	20.6	8.63	3.37	2.38	8.79	11.64	31.62	22.85	7.39	32.83	129	1.053	2.60	-13.8	
060207	ARENDSV	1.92	18.3	2.99	0.99	0.26	3.65	17.19	31.62	17.42	5.08	31.87	111	1.043	2.10	-8.4	
060207	CROOKCRK	1.04	25.4	4.14	1.07	1.25	2.52	11.56	41.69	26.70	3.92	34.08	127	0.962	-1.94	-18.5	
060207	GODDARD	0.92	29.9	5.34	1.48	0.79	4.31	14.14	50.12	33.56	3.07	29.70	143	1.148	6.90	-19.4	
060207	HILLSCRK	1.10	15.7	1.95	0.82	0.79	2.31	6.00	28.18	17.14	7.76	19.10	84	0.910	-4.70	-11.8	
060207	KANE	1.25	25.8	5.99	1.07	0.66	2.91	9.98	48.98	30.00	3.67	35.83	139	1.001	0.07	-8.7	
060207	LAURHILL	0.47	19.7	4.74	1.07	0.89	2.31	10.28	34.67	20.92	1.41	30.35	107	1.024	1.21	-12.3	
060207	LEADRIDG	1.42															
060207	LITTBUFF	1.55	14.5	1.35	0.74	0.59	3.13	10.14	25.12	13.07	1.10	21.62	77	1.147	6.87	-14.1	
060207	LITTPINE	1.35	61.1	16.22	4.36	1.10	4.96	41.84	114.82	94.61	2.91	91.78	373	0.968	-1.61	-4.2	
060207	MILFORD	1.80	19.1	2.50	1.32	0.31	5.13	9.98	31.62	15.48	6.49	31.04	104	0.959	-2.08	-15.2	
060207	MILLERSV	1.44	13.1	2.99	2.47	0.49	11.05	17.19	17.38	10.48	13.54	27.50	103	1.001	0.04	-8.1	
060207	PRESQISL	1.01	18.6	3.94	0.99	1.18	2.87	9.78	32.36	24.49	1.35	20.48	97	1.103	4.92	-14.3	
060207	PSUNADP	1.07	20.7	2.50	0.49	0.20	1.09	9.98	36.31	19.84	2.54	29.79	103	0.969	-1.56	-15.4	
060207	SLOCUM	1.36	22.5	6.09	2.88	1.25	9.57	9.57	38.02	20.99	9.37	37.76	136	0.989	-0.55	-10.6	
060207	VALLFORG	0.90	24.0	10.03	6.42	4.14	26.10	15.63	32.36	18.21	30.04	38.51	181	1.091	4.36	-10.9	
060207	YOWOCRK	1.08	25.2	3.49	0.74	0.20	1.09	9.42	39.81	23.07	2.54	31.45	112	0.960	-2.05	-24.1	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060228	ALLEPORT	0.42	22.6	36.03	10.28	3.73	18.31	29.99	17.78	59.69	28.58	27.10	231	1.007	0.33	-9.6	
060228	ARENDTSV	0.05															
060228	CROOKCRK	0.21	51.3						3.47								
060228	GODDARD	0.24	21.4	48.85	10.53	1.28	8.44	57.47	1.45	71.83	10.97	36.27	247	1.075	3.62	-20.7	
060228	HILLSCRK	0.13	20.6						3.47								
060228	KANE	0.22	18.3	55.39	10.94	1.59	11.57	48.23	0.74	64.20	13.82	36.66	243	1.120	5.67	-11.1	
060228	LAURHILL	0.37	34.2	52.49	10.45	1.28	8.44	58.41	21.88	97.25	17.63	50.51	318	0.925	-3.91	-18.8	
060228	LEADRIDG	0.10	32.6	43.41	9.62	0.79	5.57	43.80	38.02	87.91	14.10	47.49	291	0.945	-2.85	-6.5	
060228	LITTBUFF	0.12	24.2	31.59	6.42	1.71	6.00	39.27	28.18	70.48	10.13	25.14	219	1.070	3.39	-5.7	
060228	LITTPINE	0.12	34.8	17.91	3.78	1.36	5.44	27.13	63.10	82.76	9.31	22.18	233	1.039	1.92	-2.6	
060228	MILFORD	0.00															
060228	MILLERSV	0.02															
060228	PRESQISL	0.14															
060228	PSUNADP	0.13	25.2	31.94	6.33	0.41	4.61	33.26	31.62	70.33	11.57	29.16	219	0.974	-1.31	-5.4	
060228	SLOCUM	0.00															
060228	VALLFORG	0.10	78.6	12.43	3.29	1.41	7.39	49.62	147.91	139.45	29.25	62.28	453	0.961	-1.97	-6.3	
060228	YOWOCRK	0.15	22.8	35.43	5.92	0.41	4.44	39.36	20.42	70.49	8.75	27.50	213	0.993	-0.35	-11.5	
060307	ALLEPORT	0.49	56.7	24.35	6.75	2.35	21.05	67.04	91.20	77.40	20.37	98.17	409	1.086	4.11	-4.6	
060307	ARENDTSV	0.13															
060307	CROOKCRK	0.43	58.7	22.45	4.69	2.10	13.53	60.40	100.00	77.47	15.85	89.03	386	1.114	5.40	-6.1	
060307	GODDARD	0.22	67.7	18.46	3.45	1.74	12.48	83.75	114.82	80.97	17.10	120.17	453	1.075	3.64	-4.9	
060307	HILLSCRK	0.42	18.6	18.41	4.52	2.84	12.35	43.41	19.05	28.85	6.94	52.01	188	1.146	6.79	-1.5	
060307	KANE	0.32	32.8	12.97	2.30	1.30	5.87	43.80	53.70	35.65	6.21	74.99	237	1.027	1.31	-2.9	
060307	LAURHILL	1.00	43.7	21.56	5.26	1.87	15.36	59.62	69.18	64.26	13.99	77.22	328	1.112	5.29	-3.2	
060307	LEADRIDG	0.38	65.3	22.45	5.43	1.13	13.53	56.55	109.65	96.78	16.08	99.57	421	0.983	-0.88	-7.6	
060307	LITTBUFF	0.20	76.3	32.29	7.65	3.04	21.49	79.32	120.23	109.75	21.81	114.52	510	1.073	3.52	-9.1	
060307	LITTPINE	0.27	47.8	19.46	2.96	2.43	8.61	61.47	67.61	62.41	9.25	81.65	316	1.060	2.92	-13.7	
060307	MILFORD	0.40															
060307	MILLERSV	0.22	69.4	27.94	7.24	1.53	18.53	100.90	104.71	99.04	25.95	135.19	521	1.003	0.13	-4.7	
060307	PRESQISL	0.27	29.0	12.87	2.22	0.87	5.65	45.27	47.86	34.06	5.87	62.61	217	1.119	5.62	-0.7	
060307	PSUNADP	0.41	71.8	23.95	5.76	1.28	16.18	65.42	128.82	98.23	17.77	116.86	474	1.037	1.80	-3.2	
060307	SLOCUM	0.46	48.8	31.34	6.42	12.86	22.40	84.39	66.07	63.12	20.42	119.19	426	1.102	4.87	-1.1	
060307	VALLFORG	0.40	64.0	28.89	6.83	3.04	38.06	71.68	97.72	87.90	40.79	110.67	486	1.029	1.42	-4.5	
060307	YOWOCRK	0.32	47.6	19.96	2.80	0.74	5.39	56.55	77.62	58.55	8.75	95.82	326	1.000	-0.02	-5.7	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060328	ALLEPORT	0.00															
060328	ARENDTSV	0.00															
060328	CROOKCRK	0.00															
060328	GODDARD	0.01															
060328	HILLSCRK	0.05	29.7														
060328	KANE	0.03															
060328	LAURHILL	0.05	66.0						97.72								
060328	LEADRIDG	0.00															
060328	LITTBUFF	0.00															
060328	LITTPINE	0.00															
060328	MILFORD	0.30	45.0	10.48	4.11	0.54	8.70	34.93	87.10	91.30	8.75	43.53	289	1.016	0.79		-0.5
060328	MILLERSV	0.00															
060328	PRESQISL	0.07	54.8						79.43								
060328	PSUNADP	0.00															
060328	SLOCUM	0.20	50.0	33.38	8.31	10.28	19.49	30.70	77.62	117.75	20.20	44.43	362	0.986	-0.71		-6.9
060328	VALLFORG	0.19	33.5	3.69	0.90	2.79	5.96	12.63	60.26	57.91	6.26	35.77	186	0.863	-7.36		-10.3
060328	YOWOCRK	0.00															
060404	ALLEPORT	0.53	36.9	38.52	11.02	1.92	7.96	61.90	38.02	49.63	10.13	100.94	320	0.992	-0.42		-11.3
060404	ARENDTSV	0.35	15.9	9.98	2.22	0.43	1.74	41.03	16.60	27.58	2.54	41.04	143	1.012	0.59		-6.8
060404	CROOKCRK	0.68	28.9	20.46	4.94	4.63	7.57	29.99	32.36	31.63	15.60	67.24	214	0.873	-6.78		-17.0
060404	GODDARD	0.37	32.5	19.96	3.87	4.30	7.00	37.63	40.74	34.06	6.88	67.68	222	1.045	2.19		-17.1
060404	HILLSCRK	0.50	36.7	7.49	1.65	1.56	3.92	46.84	60.26	39.42	5.13	64.20	230	1.119	5.62		-9.1
060404	KANE	0.83															
060404	LAURHILL	0.58	28.1	19.81	2.71	2.97	5.05	25.42	42.66	30.99	4.99	53.53	188	1.102	4.84		-10.8
060404	LEADRIDG	0.52	27.3	16.47	3.87	1.30	2.31	57.66	34.67	38.87	3.10	71.86	230	1.021	1.06		-4.7
060404	LITTBUFF	0.66	27.7	17.02	4.20	4.19	7.87	63.26	28.84	40.77	5.44	63.32	235	1.145	6.74		-11.1
060404	LITTPINE	0.74	34.2	14.62	3.87	1.46	4.18	51.19	51.29	43.27	4.32	62.91	237	1.146	6.79		-9.0
060404	MILFORD	0.67	19.9	2.99	0.90	0.43	2.91	15.52	38.90	26.45	2.82	28.54	119	1.067	3.23		-2.5
060404	MILLERSV	0.53	17.9	8.98	3.62	1.07	7.35	50.45	14.45	30.97	8.18	47.08	172	0.997	-0.17		-9.4
060404	PRESQISL	0.70	15.0	14.12	3.70	2.12	3.26	27.06	16.98	22.14	4.88	35.41	130	1.077	3.72		-8.2
060404	PSUNADP	0.64	32.8	12.97	3.29	1.56	2.26	64.86	40.74	43.07	4.51	79.78	253	0.987	-0.66		-10.1
060404	SLOCUM	0.33	51.6	16.92	4.11	6.60	11.83	50.69	81.28	59.62	8.29	88.90	328	1.093	4.45		-11.1
060404	VALLFORG	0.35	16.9	3.99	1.56	0.77	4.18	26.13	22.91	30.35	3.84	27.77	121	0.961	-1.98		-11.0
060404	YOWOCRK	0.97	28.9	8.98	1.89	0.56	1.39	37.14	50.12	32.10	2.82	59.16	194	1.064	3.10		-3.5

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060509	ALLEPORT	0.01															
060509	ARENDTSV	0.05															
060509	CROOKCRK	0.00															
060509	GODDARD	0.66	29.1	33.58	10.12	5.57	5.35	96.32	31.62	64.98	5.59	106.86	360	1.029	1.43	17.2	
060509	HILLSCRK	0.00															
060509	KANE	0.05															
060509	LAURHILL	0.15	38.0	27.40	6.00	10.20	13.18	47.33	46.77	44.41	18.00	88.69	302	0.999	-0.07	-10.2	
060509	LEADRIDG	0.01															
060509	LITTBUFF	0.02															
060509	LITTPINE	0.00															
060509	MILFORD	0.00															
060509	MILLERSV	0.01															
060509	PRESQISL	0.00															
060509	PSUNADP	0.00															
060509	SLOCUM	0.00															
060509	VALLFORG	0.13	13.4	9.48	3.95	2.17	28.62	20.06	12.88	16.49	11.51	49.43	155	0.997	-0.17	4.1	
060509	YOWOCRK	0.00															
060516	ALLEPORT	2.01	20.1	10.18	4.03	4.73	9.13	20.85	31.62	19.92	2.29	46.03	149	1.180	8.27	-4.7	
060516	ARENDTSV	3.11	24.4	4.99	1.56	0.46	2.57	51.56	31.62	26.29	4.23	63.32	187	0.988	-0.58	-8.6	
060516	CROOKCRK	3.11	20.9	4.14	1.07	0.41	2.48	11.85	38.90	18.49	4.01	38.39	120	0.967	-1.70	-7.3	
060516	GODDARD	2.07	19.9	6.79	1.65	1.61	2.61	24.56	32.36	22.56	2.57	47.60	142	0.957	-2.22	-3.6	
060516	HILLSCRK	1.92	10.8	4.24	1.40	0.69	2.83	6.28	19.50	14.21	2.14	18.39	70	1.006	0.28	-4.4	
060516	KANE	1.94	14.5	2.99	0.90	0.56	0.44	9.42	28.18	11.61	1.13	27.50	83	1.056	2.74	-4.8	
060516	LAURHILL	3.01	20.2	5.34	1.40	1.87	4.92	25.77	33.11	18.71	2.74	44.85	139	1.092	4.41	-5.5	
060516	LEADRIDG	1.49	22.6	4.49	1.23	0.95	1.00	25.50	39.81	22.58	2.54	48.12	146	0.997	-0.17	-4.2	
060516	LITTBUFF	1.64	15.2	5.09	1.65	1.33	4.70	23.14	22.91	17.07	2.37	33.31	112	1.115	5.44	-6.3	
060516	LITTPINE	2.05	16.9	7.04	2.47	2.10	3.39	25.77	26.30	21.14	2.43	35.77	126	1.131	6.13	-3.6	
060516	MILFORD	2.76	9.4	1.50	0.58	0.33	1.39	8.32	17.38	10.65	1.97	14.58	57	1.084	4.04	-5.3	
060516	MILLERSV	2.60	13.9	4.99	1.81	0.69	2.87	26.06	17.78	16.78	4.23	33.33	109	0.998	-0.12	-8.6	
060516	PRESQISL	1.27	25.6	7.19	2.47	3.38	3.18	24.06	43.65	27.63	2.60	51.55	166	1.026	1.29	-6.3	
060516	PSUNADP	1.37	20.3	4.99	1.32	0.41	1.04	26.06	31.62	19.52	2.54	45.41	133	0.970	-1.52	-9.4	
060516	SLOCUM	1.42	16.7	6.64	2.39	5.68	9.57	27.49	25.70	25.63	3.02	30.22	136	1.316	13.63	-0.2	
060516	VALLFORG	2.50	18.4	8.33	3.95	5.04	12.40	23.42	21.88	26.92	8.80	35.16	146	1.058	2.83	-12.0	
060516	YOWOCRK	1.75	10.2	4.49	0.99	0.64	0.52	12.20	14.79	10.65	1.13	22.29	68	0.987	-0.64	-12.3	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions			TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄				
060523	ALLEPORT	0.69	57.6	10.38	4.36	3.99	5.05	30.34	97.72	25.56	9.20	107.05	294	1.071	3.42	-16.2
060523	ARENDSV	0.07														
060523	CROOKCRK	1.01	25.6	4.69	1.73	2.07	3.13	18.35	38.02	27.92	3.58	44.64	144	0.893	-5.65	-18.4
060523	GODDARD	1.55	21.6	9.93	3.78	2.79	3.96	22.28	25.70	30.63	2.91	38.99	141	0.944	-2.90	-21.0
060523	HILLSCRK	0.66	19.8	5.29	2.14	6.06	7.05	10.21	38.90	23.06	4.51	32.95	130	1.151	7.01	1.0
060523	KANE	1.02	21.5	2.99	1.15	0.84	0.26	11.09	40.74	19.52	1.69	38.12	116	0.962	-1.93	-8.2
060523	LAURHILL	0.91	36.6	9.93	3.45	4.76	7.18	23.84	64.57	33.27	8.77	69.61	225	1.019	0.92	-7.1
060523	LEADRIDG	0.07	45.8	9.98	3.21	3.17	0.52	13.31	93.33	50.65	7.33	71.45	253	0.954	-2.34	-3.7
060523	LITTBUFF	0.33	24.2	7.24	2.71	5.86	6.22	21.49	45.71	35.49	3.98	38.72	167	1.141	6.59	1.5
060523	LITTPINE	0.38														
060523	MILFORD	0.46	28.1	6.49	2.47	1.53	0.39	17.19	50.12	26.13	1.97	55.20	161	0.939	-3.17	-9.1
060523	MILLERSV	0.08	25.9	27.94	6.83	2.25	0.61	61.54	20.42	37.58	3.67	79.99	241	0.986	-0.69	-12.8
060523	PRESQISL	0.99	13.8	7.04	3.54	5.34	5.65	17.21	24.55	24.56	5.47	24.58	118	1.160	7.39	9.2
060523	PSUNADP	0.19	43.7	5.99	1.89	0.84	0.39	12.75	95.50	37.58	5.08	75.20	235	0.996	-0.21	-0.3
060523	SLOCUM	1.00	18.2	5.69	2.39	8.34	7.26	10.78	25.12	15.92	3.16	34.49	113	1.112	5.30	-18.1
060523	VALLFORG	0.17	35.0	15.17	4.69	8.46	9.13	63.55	50.12	68.83	12.47	64.24	297	1.038	1.88	0.0
060523	YOWOCRK	0.32	26.4	5.49	1.97	0.77	0.26	18.30	50.12	25.16	2.26	49.99	154	0.993	-0.33	-5.1
060530	ALLEPORT	0.24	29.7	23.25	10.04	4.27	5.52	30.56	42.66	38.27	18.28	75.74	249	0.879	-6.43	-1.7
060530	ARENDSV	0.00														
060530	CROOKCRK	1.03	20.8	5.39	1.48	1.92	3.05	15.14	26.92	19.07	3.27	41.29	118	0.847	-8.29	-23.7
060530	GODDARD	1.05	25.7	10.88	2.06	1.59	2.87	31.63	38.90	30.35	4.32	61.01	184	0.919	-4.22	-6.9
060530	HILLSCRK	0.34	26.9	7.53	2.22	3.17	3.52	23.06	45.71	29.56	6.04	65.05	186	0.847	-8.30	-3.2
060530	KANE	0.75	30.3	7.49	1.23	0.56	0.61	23.28	57.54	25.49	1.97	63.53	182	0.997	-0.15	-3.9
060530	LAURHILL	0.36	43.3	14.57	3.54	4.19	12.01	41.91	72.44	64.62	15.91	73.13	302	0.967	-1.65	-3.9
060530	LEADRIDG	0.24	27.6	8.98	2.55	0.72	0.48	29.94	48.98	29.52	2.26	59.78	183	1.001	0.05	-3.0
060530	LITTBUFF	0.75	11.6	5.29	1.56	3.96	3.57	38.34	13.18	22.56	3.61	30.85	123	1.156	7.23	7.1
060530	LITTPINE	0.10	82.6	39.72	10.12	4.94	11.18	84.82	138.04	109.11	12.81	171.26	582	0.985	-0.75	-3.6
060530	MILFORD	0.15														
060530	MILLERSV	0.00														
060530	PRESQISL	0.55	17.5	4.44	1.32	3.63	4.05	17.99	32.36	20.71	4.34	36.81	126	1.031	1.53	2.7
060530	PSUNADP	0.36	31.7	4.99	0.99	0.20	0.26	11.64	64.57	23.23	2.54	58.12	167	0.985	-0.74	-5.3
060530	SLOCUM	0.46	17.9	6.74	1.65	4.37	3.83	26.71	27.54	25.92	4.80	38.43	140	1.024	1.20	-1.3
060530	VALLFORG	0.18	26.2	14.32	4.94	5.60	7.83	26.77	31.62	33.06	27.65	46.78	199	0.847	-8.26	-13.1
060530	YOWOCRK	0.68	9.0	1.00	0.25	0.10	0.09	3.88	15.14	6.77	0.56	13.75	42	0.970	-1.53	-19.8

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060606	ALLEPORT	3.63	25.7	9.68	3.21	2.30	2.61	27.99	39.81	23.06	6.57	62.39	178	0.930	-3.62	-7.5	
060606	ARENDTSV	0.90	32.1	10.48	1.65	0.59	0.87	53.22	51.29	30.97	2.82	81.03	233	1.028	1.40	-3.2	
060606	CROOKCRK	3.32	33.1	5.89	1.81	3.38	2.26	29.49	53.70	24.49	5.84	73.51	200	0.930	-3.65	-11.1	
060606	GODDARD	1.21	27.8	8.28	2.71	1.33	2.48	26.20	52.48	33.77	9.51	50.78	188	0.994	-0.31	0.8	
060606	HILLSCRK	4.05	44.1	6.74	1.73	3.22	3.22	21.92	87.10	21.64	3.30	98.17	247	1.007	0.33	-4.6	
060606	KANE	1.36	21.0	5.49	1.48	2.74	1.04	6.65	35.48	22.10	1.69	41.04	118	0.816	-10.15	-12.9	
060606	LAURHILL	1.24	38.1	9.78	2.14	2.40	2.65	17.35	75.86	27.56	10.64	79.13	228	0.939	-3.14	-1.7	
060606	LEADRIDG	1.24	31.0	2.99	0.66	0.38	0.26	17.19	60.26	17.42	1.69	64.57	165	0.977	-1.18	-7.1	
060606	LITTBUFF	2.39	43.8	6.64	2.06	1.82	3.05	46.98	89.13	36.63	5.59	103.13	295	1.030	1.46	5.4	
060606	LITTPINE	1.97	25.5	5.64	2.06	3.32	4.52	26.92	35.48	22.42	2.06	55.55	158	0.974	-1.32	-17.0	
060606	MILFORD	1.20	47.4	5.99	1.32	1.79	0.65	24.39	95.50	30.97	3.39	94.98	259	1.002	0.12	-4.3	
060606	MILLERSV	2.65	39.7	6.49	1.48	0.46	0.48	47.12	70.79	30.00	3.10	92.69	253	1.008	0.41	-4.2	
060606	PRESQISL	0.20	31.8	9.48	3.45	2.63	4.26	44.12	51.29	45.91	21.21	64.45	247	0.876	-6.62	0.6	
060606	PSUNADP	1.85	20.5	4.49	1.07	0.31	0.52	12.20	40.74	12.58	1.41	43.95	117	1.024	1.18	-3.5	
060606	SLOCUM	1.39	22.2	4.54	1.23	1.82	2.87	31.06	36.31	28.20	11.45	46.10	164	0.908	-4.85	-1.3	
060606	VALLFORG	1.94	29.5	1.90	0.90	1.02	1.96	26.77	53.70	25.42	3.13	56.10	171	1.019	0.94	-7.3	
060606	YOWOCRK	3.06	32.9	4.99	1.23	0.59	0.74	23.28	63.10	22.74	1.97	69.36	188	0.998	-0.08	-5.2	
060613	ALLEPORT	0.01															
060613	ARENDTSV	0.00															
060613	CROOKCRK	0.06															
060613	GODDARD	0.00															
060613	HILLSCRK	0.59															
060613	KANE	0.35															
060613	LAURHILL	0.11	29.1	37.38	6.83	5.24	7.26	30.27	41.69	39.42	12.86	68.16	249	1.068	3.30	-1.2	
060613	LEADRIDG	0.09	17.3	21.46	7.81	3.02	0.52	28.83	18.62	22.26	2.26	46.45	151	1.131	6.15	-9.8	
060613	LITTBUFF	0.59	8.7	8.43	2.96	5.29	5.22	18.85	6.31	12.85	4.18	28.14	92	1.042	2.06	-6.8	
060613	LITTPINE	0.39	15.6	11.33	3.62	3.02	8.13	26.35	23.99	17.21	9.48	37.16	140	1.197	8.97	5.4	
060613	MILFORD	1.10	4.8	2.00	1.32	3.78	0.26	12.20	0.68	5.81	0.56	7.71	34	1.437	17.93	-45.4	
060613	MILLERSV	0.25															
060613	PRESQISL	0.11	29.5	59.78	15.22	2.48	9.70	65.83	26.92	63.98	23.30	82.32	350	1.061	2.95	5.9	
060613	PSUNADP	0.30	25.0	11.98	4.03	1.36	0.52	17.74	44.67	14.19	3.10	59.16	157	1.050	2.45	-5.8	
060613	SLOCUM	0.64															
060613	VALLFORG	0.33	21.2	14.57	4.69	4.58	6.48	47.91	25.12	26.92	9.17	57.62	197	1.103	4.89	-1.5	
060613	YOWOCRK	0.12	19.9	13.47	3.70	2.61	1.35	28.27	27.54	18.23	3.39	49.99	149	1.075	3.60	-8.8	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060620	ALLEPORT	1.65	22.0	3.49	1.48	1.79	1.61	20.92	42.66	16.78	2.88	51.10	143	1.017	0.84	0.8	
060620	ARENDTSV	0.33	51.4	8.48	1.65	0.79	1.35	37.14	95.50	33.87	5.08	111.23	295	0.965	-1.79	-6.7	
060620	CROOKCRK	0.65	40.9	28.14	8.23	3.32	7.35	48.41	64.57	37.99	10.01	113.90	322	0.988	-0.58	-0.7	
060620	GODDARD	0.42	13.0	12.48	4.11	1.28	2.65	73.90	1.00	35.63	5.56	40.62	177	1.166	7.68	-0.9	
060620	HILLSCRK	0.65	20.1	2.10	0.82	1.05	1.91	7.86	41.69	9.57	2.31	42.45	110	1.020	0.99	-2.8	
060620	KANE	0.85	12.6	2.99	0.66	0.64	0.70	13.86	21.38	7.74	1.13	30.41	80	1.024	1.19	-7.2	
060620	LAURHILL	0.45	26.1	7.83	2.14	1.46	2.52	23.71	47.86	21.28	4.57	65.07	176	0.941	-3.06	-0.5	
060620	LEADRIDG	0.83	41.9	6.49	2.06	0.51	1.26	34.37	75.86	21.78	4.23	95.40	242	0.993	-0.36	-7.8	
060620	LITTBUFF	0.37	46.9	28.54	4.28	2.10	2.74	55.33	77.62	71.69	5.33	101.30	349	0.957	-2.21	-1.2	
060620	LITTPINE	0.50	53.5	18.46	4.20	1.84	6.05	33.56	100.00	35.35	11.00	124.00	334	0.963	-1.87	-3.4	
060620	MILFORD	0.10															
060620	MILLERSV	0.19	57.7	23.45	5.26	1.38	1.26	104.23	81.28	67.75	7.62	145.81	438	0.981	-0.98	-6.2	
060620	PRESQISL	0.44	22.8	4.54	1.48	2.53	3.22	15.99	39.81	26.49	4.32	42.06	140	0.927	-3.76	-7.3	
060620	PSUNADP	0.59	38.8	15.47	5.51	0.79	1.65	44.91	63.10	29.36	4.80	95.40	261	1.014	0.72	-6.7	
060620	SLOCUM	0.11	39.2	13.47	3.95	3.66	6.57	35.70	63.10	30.92	18.34	93.96	270	0.883	-6.22	-6.1	
060620	VALLFORG	0.62	49.8	11.68	5.51	2.20	4.00	57.97	85.11	71.83	10.69	98.61	348	0.919	-4.22	-2.3	
060620	YOWOCRK	0.64	40.7	3.49	0.90	0.33	1.52	10.53	83.18	14.19	3.95	85.19	203	0.967	-1.66	-6.8	
060627	ALLEPORT	2.49	22.3	10.08	5.26	4.88	5.05	22.20	36.31	22.71	3.89	57.59	168	0.995	-0.24	-1.8	
060627	ARENDTSV	5.31	9.7	1.00	0.49	0.10	0.91	6.65	17.38	6.61	1.41	18.12	53	1.015	0.74	-10.9	
060627	CROOKCRK	4.10															
060627	GODDARD	1.47	19.4	6.09	1.65	1.36	2.04	20.21	33.11	26.56	3.55	37.12	132	0.959	-2.11	-4.0	
060627	HILLSCRK	1.66	10.6	12.52	1.07	1.38	2.35	8.14	23.44	15.71	4.43	19.77	89	1.226	10.13	19.5	
060627	KANE	4.27	10.8	2.00	0.41	0.28	0.91	7.21	19.05	8.87	1.13	19.37	59	1.017	0.83	-11.4	
060627	LAURHILL	3.76	16.4	3.34	1.23	3.12	3.78	10.35	34.67	16.35	3.61	33.41	110	1.059	2.85	6.5	
060627	LEADRIDG	2.02	23.7	2.99	0.90	0.54	0.87	10.53	46.77	16.29	2.26	43.95	125	1.002	0.09	-6.9	
060627	LITTBUFF	3.95	16.2	3.44	1.23	3.15	3.39	17.28	26.30	18.78	2.51	33.22	109	1.005	0.26	-6.3	
060627	LITTPINE	1.74	23.0	2.89	1.23	3.35	3.26	12.14	40.74	23.92	3.58	42.37	133	0.910	-4.69	-9.0	
060627	MILFORD	3.75	13.0	1.50	2.22	0.36	10.18	4.99	20.89	10.97	12.13	18.12	81	0.974	-1.33	-11.9	
060627	MILLERSV	5.59	7.9	2.50	1.73	0.33	6.44	10.53	9.77	6.29	7.33	16.46	61	1.040	1.98	-11.6	
060627	PRESQISL	1.56	23.9	4.79	1.56	3.50	3.44	15.35	38.90	27.13	4.26	41.56	140	0.926	-3.84	-12.7	
060627	PSUNADP	2.36	29.6	5.99	1.40	0.33	0.96	14.41	57.54	18.87	2.82	58.95	161	1.000	0.00	-6.6	
060627	SLOCUM	4.45	5.7	3.14	2.14	4.12	3.09	21.92	5.01	13.71	2.71	18.00	74	1.145	6.78	15.7	
060627	VALLFORG	4.02	15.0	2.99	2.47	3.25	9.44	10.99	24.55	15.99	11.14	28.70	110	0.961	-1.96	-3.3	
060627	YOWOCRK	1.54	9.8	2.00	0.82	1.36	0.39	9.42	16.60	10.32	1.41	17.50	60	1.046	2.27	-9.0	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060704	ALLEPORT	2.82	32.1	12.38	3.21	3.58	2.70	17.78	54.95	22.42	3.78	77.18	198	0.915	-4.44	-8.4	
060704	ARENDSV	2.55	16.9	2.99	0.90	0.20	2.09	7.21	31.62	9.19	3.10	32.70	90	1.000	0.02	-9.7	
060704	CROOKCRK	1.07	35.7	15.97	8.14	2.89	2.52	30.41	54.95	34.35	2.74	87.67	240	0.921	-4.12	-9.7	
060704	GODDARD	0.87	35.1	12.28	2.55	1.41	2.44	33.13	57.54	36.20	4.43	78.55	229	0.917	-4.31	-7.8	
060704	HILLSCRK	0.88	20.7	13.57	2.96	4.07	4.92	11.14	38.02	18.78	3.39	48.68	146	1.054	2.63	0.2	
060704	KANE	1.60	11.1	18.96	2.63	0.66	0.48	31.60	5.89	19.52	1.13	34.16	115	1.099	4.71	-13.5	
060704	LAURHILL	1.06	29.5	11.78	2.80	2.66	2.61	23.21	38.90	20.49	3.22	68.53	174	0.888	-5.90	-21.3	
060704	LEADRIDD	1.32	10.4	4.49	0.90	0.38	1.26	6.65	16.60	11.13	1.97	17.08	60	1.003	0.17	-14.5	
060704	LITTBUFF	3.33															
060704	LITTPINE	2.21	13.0	17.61	3.04	6.57	3.05	58.05	5.50	19.85	2.45	52.14	168	1.260	11.51	3.0	
060704	MILFORD	2.58	7.4	1.50	1.15	0.23	4.35	3.33	12.59	5.48	5.36	12.29	46	1.000	0.02	-9.0	
060704	MILLERSV	3.62	8.2	2.50	0.82	0.13	3.00	7.76	13.49	5.16	3.95	17.08	54	1.058	2.80	-7.7	
060704	PRESQISL	1.17	27.2	8.28	2.47	4.53	4.70	21.28	48.98	28.92	3.55	51.28	174	1.077	3.72	-4.4	
060704	PSUNADP	0.95	23.5	14.47	2.47	0.66	0.78	14.97	40.74	19.84	2.54	50.62	147	1.015	0.75	-7.6	
060704	SLOCUM	6.75															
060704	VALLFORG	2.71	8.5	7.44	4.77	3.63	12.48	6.14	11.22	10.14	11.71	18.66	86	1.128	6.00	4.3	
060704	YOWOCRK	1.03	16.8	6.99	1.15	1.00	0.61	13.86	28.84	16.78	1.69	31.45	102	1.051	2.46	-8.8	
060711	ALLEPORT	0.00															
060711	ARENDSV	0.25	32.4	2.50	0.66	0.36	0.35	14.97	64.57	21.61	2.26	60.82	168	0.985	-0.77	-6.8	
060711	CROOKCRK	0.68	16.6	4.04	1.56	2.43	3.22	5.14	35.48	11.21	3.72	33.93	101	1.062	2.99	2.7	
060711	GODDARD	2.93	19.2	7.49	1.81	1.48	1.57	26.84	33.88	16.57	1.30	46.49	137	1.135	6.34	0.4	
060711	HILLSCRK	0.77	44.0	14.12	4.28	3.07	3.39	33.91	95.50	25.99	7.00	108.42	296	1.091	4.35	8.6	
060711	KANE	0.59	37.6	7.49	1.56	0.69	0.70	23.28	72.44	21.78	3.39	81.03	212	1.000	-0.01	-5.6	
060711	LAURHILL	0.25	33.7	9.33	2.39	3.38	3.87	20.78	69.18	21.42	6.15	75.55	212	1.056	2.74	2.3	
060711	LEADRIDD	0.92															
060711	LITTBUFF	0.10	25.5	17.17	4.61	5.40	6.39	59.33	41.69	35.27	16.39	66.80	253	1.136	6.37	16.1	
060711	LITTPINE	0.24	81.4	21.86	5.68	4.24	2.87	62.11	165.96	44.27	5.92	221.01	534	0.969	-1.59	4.0	
060711	MILFORD	0.38	69.2	6.99	1.65	1.41	0.74	53.22	125.89	29.84	5.08	158.72	384	0.981	-0.98	-9.0	
060711	MILLERSV	0.74	38.3	7.98	1.65	0.77	0.48	40.47	64.57	30.32	3.39	84.15	234	0.983	-0.83	-8.9	
060711	PRESQISL	0.23	34.1	19.36	5.43	3.22	4.13	41.70	69.18	44.48	5.28	82.28	275	1.083	3.99	13.6	
060711	PSUNADP	0.28	36.0	7.49	2.14	1.48	0.30	8.32	67.61	29.68	3.10	62.07	182	0.921	-4.13	-11.4	
060711	SLOCUM	0.13	49.0	18.86	4.52	7.42	8.48	48.77	109.65	39.06	17.46	125.31	380	1.087	4.18	17.7	
060711	VALLFORG	1.27	24.9	2.35	1.40	3.61	3.22	19.92	41.69	25.49	1.38	47.37	146	0.972	-1.41	-11.1	
060711	YOWOCRK	1.33	63.7	6.99	1.73	0.56	0.30	21.07	128.82	26.13	6.77	129.56	322	0.982	-0.93	-7.0	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060718	ALLEPORT	0.60	65.1	25.45	17.11	17.75	8.61	153.44	85.11	44.06	21.86	264.44	638	0.931	-3.59	6.7	
060718	ARENDTSV	1.15	23.0	3.49	0.82	0.23	0.74	12.20	42.66	11.61	1.69	47.91	121	0.982	-0.89	-10.2	
060718	CROOKCRK	0.58	42.5	4.89	1.89	2.15	4.00	17.64	85.11	19.78	7.56	99.42	242	0.913	-4.57	-3.0	
060718	GODDARD	1.56	28.9	2.15	1.07	1.51	3.35	13.35	61.66	17.35	5.47	58.01	164	1.028	1.37	0.4	
060718	HILLSCRK	1.51	19.0	0.65	0.82	3.40	3.92	7.57	36.31	12.28	2.85	36.95	105	1.011	0.55	-7.2	
060718	KANE	2.60	34.3	3.99	0.90	0.41	1.09	15.52	67.61	18.07	2.82	69.99	180	0.985	-0.75	-7.0	
060718	LAURHILL	1.47	32.6	3.74	1.15	3.35	4.74	17.78	70.79	18.85	4.94	71.72	197	1.063	3.07	4.0	
060718	LEADRIDG	0.51	41.2	4.99	1.48	0.61	1.65	17.74	81.28	23.07	3.95	84.78	220	0.964	-1.84	-6.5	
060718	LITTBUFF	0.59	28.2	4.59	1.81	4.58	5.44	38.99	51.29	20.85	4.01	81.47	213	1.003	0.17	5.1	
060718	LITTPINE	1.57	45.0	4.39	1.89	3.15	9.13	21.13	95.50	27.49	5.22	99.05	267	1.026	1.29	1.7	
060718	MILFORD	0.31	36.0	4.99	1.15	0.74	0.78	8.32	72.44	29.36	2.82	61.45	182	0.944	-2.86	-7.5	
060718	MILLERSV	0.68	23.4	4.49	1.07	0.36	0.78	49.90	33.11	16.13	3.10	69.16	178	1.015	0.74	-5.2	
060718	PRESQISL	1.74	16.0	3.14	1.23	3.81	4.26	11.85	28.18	12.57	1.83	30.75	98	1.163	7.52	-7.6	
060718	PSUNADP	1.14	27.1	2.50	0.66	0.26	0.65	4.44	56.23	12.42	1.97	52.91	132	0.962	-1.95	-6.9	
060718	SLOCUM	1.92															
060718	VALLFORG	2.18	27.9	2.40	1.81	4.01	5.79	24.56	53.70	17.57	3.13	69.01	182	1.029	1.41	0.5	
060718	YOWOCRK	1.22	30.6	2.99	0.66	0.41	0.96	10.53	63.10	18.55	3.10	58.95	159	0.976	-1.23	-4.9	
060725	ALLEPORT	0.72	62.4	10.93	3.70	1.46	2.70	31.63	120.23	29.13	6.32	152.12	358	0.910	-4.73	-4.9	
060725	ARENDTSV	0.60	65.0	8.98	1.81	0.51	0.39	36.59	125.89	29.68	4.23	147.06	355	0.962	-1.91	-6.4	
060725	CROOKCRK	2.22	32.7	6.84	1.89	1.46	2.17	23.42	63.10	28.85	2.57	67.70	198	0.998	-0.12	-2.7	
060725	GODDARD	1.99	15.5	4.89	1.89	3.99	2.65	20.71	26.92	15.85	1.58	35.12	114	1.162	7.48	0.6	
060725	HILLSCRK	1.55	20.1	2.74	1.32	1.46	2.39	12.92	39.81	13.50	3.72	40.85	119	1.044	2.17	-2.4	
060725	KANE	2.95	19.3	2.50	0.41	0.23	0.26	15.52	36.31	11.45	1.13	42.49	110	1.003	0.14	-6.1	
060725	LAURHILL	0.28	68.1	13.32	3.37	2.97	4.87	29.49	134.90	31.49	15.88	181.24	418	0.826	-9.51	-0.6	
060725	LEADRIDG	0.73	48.1	3.49	0.58	0.31	0.39	18.30	102.33	19.36	2.82	100.19	248	1.025	1.22	-3.3	
060725	LITTBUFF	0.32	31.1	6.34	2.14	2.89	4.57	37.06	61.66	20.64	4.46	80.90	221	1.082	3.92	6.3	
060725	LITTPINE	1.09	64.8	5.84	1.97	3.81	3.87	36.06	131.83	34.20	3.75	146.41	368	0.995	-0.27	-2.2	
060725	MILFORD	1.60	44.2	5.99	0.99	0.33	0.87	31.60	85.11	27.10	3.10	90.82	246	1.032	1.57	-6.0	
060725	MILLERSV	1.20	39.3	14.47	3.21	0.74	0.61	54.89	63.10	25.16	4.23	106.65	273	1.007	0.35	-5.3	
060725	PRESQISL	0.81	18.1	15.02	4.69	4.76	5.79	26.56	30.20	34.49	2.09	39.31	163	1.147	6.83	9.0	
060725	PSUNADP	0.43	56.8	5.99	0.99	0.28	0.39	27.17	117.49	27.26	4.23	123.11	307	0.985	-0.75	-3.1	
060725	SLOCUM	1.34	48.4	5.29	1.81	2.76	4.18	30.77	100.00	25.78	5.02	114.73	290	0.995	-0.25	0.9	
060725	VALLFORG	0.88	53.0	14.82	6.25	5.14	7.31	40.55	102.33	34.63	7.76	132.29	351	1.010	0.49	1.1	
060725	YOWOCRK	1.91	45.9	2.99	0.66	0.38	0.35	24.39	87.10	40.49	5.64	44.99	207	1.272	11.96	-14.5	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060815	ALLEPORT	1.82	13.3	2.54	1.40	2.91	3.35	16.78	26.30	8.50	1.95	35.99	100	1.147	6.87	8.8	
060815	ARENDTSV	0.06															
060815	CROOKCRK	0.06	108.1	26.70	6.66	2.05	6.70	72.25	194.98	46.06	16.90	300.41	673	0.851	-8.03	-4.9	
060815	GODDARD	0.66	29.8	8.28	2.71	1.07	7.13	46.05	46.77	21.42	1.86	91.86	227	0.973	-1.37	-1.7	
060815	HILLSCRK	0.35	33.2	12.28	3.04	2.05	7.09	7.28	66.07	20.06	7.22	71.82	197	0.987	-0.66	-2.7	
060815	KANE	0.64	45.9	5.49	1.07	0.38	0.52	39.92	83.18	19.19	2.26	111.23	263	0.984	-0.81	-7.8	
060815	LAURHILL	0.15	46.2	9.88	2.14	1.92	6.66	29.56	89.13	27.42	7.96	128.60	303	0.849	-8.15	0.9	
060815	LEADRIDG	1.69	26.8	2.00	0.33	0.18	0.26	11.09	52.48	12.10	1.69	54.16	134	0.976	-1.20	-9.0	
060815	LITTBUFF	0.73	27.6	3.59	1.07	3.45	6.57	21.28	57.54	14.49	4.06	64.20	176	1.130	6.10	3.9	
060815	LITTPINE	0.50	27.1	5.24	3.95	17.44	11.61	52.76	1.35	15.71	9.53	70.26	188	0.967	-1.68	-49.4	
060815	MILFORD	0.93	20.0	3.49	0.66	0.28	0.57	8.87	42.66	14.19	1.41	38.54	111	1.044	2.16	-0.7	
060815	MILLERSV	0.00															
060815	PRESQISL	0.01							8.71								
060815	PSUNADP	0.40	25.2	2.99	0.58	0.23	0.26	12.20	53.70	19.36	1.69	49.78	141	0.988	-0.62	-0.2	
060815	SLOCUM	0.24	18.3	7.73	2.30	4.83	8.13	17.35	34.67	17.49	5.87	46.89	145	1.068	3.29	8.6	
060815	VALLFORG	0.05	44.0	38.17	17.52	17.46	35.67	52.12	52.48	39.63	54.47	133.10	441	0.939	-3.13	2.1	
060815	YOWOCRK	0.50	23.7	3.49	0.66	0.41	0.22	12.20	45.71	10.48	1.97	51.45	127	0.981	-0.97	-7.6	
060822	ALLEPORT	0.77	20.8	7.49	1.89	1.79	4.00	13.42	41.69	10.92	2.48	50.64	134	1.097	4.64	1.9	
060822	ARENDTSV	0.13	40.3	15.97	3.13	0.72	5.18	41.03	69.18	33.07	6.49	94.78	270	1.006	0.32	-4.5	
060822	CROOKCRK	2.12	18.0	3.14	0.74	0.92	3.00	7.78	34.67	6.86	3.24	42.60	103	0.954	-2.36	-5.3	
060822	GODDARD	0.61	39.1	5.49	1.73	1.48	4.18	20.71	77.62	22.35	10.32	91.28	235	0.897	-5.42	-1.3	
060822	HILLSCRK	0.63	36.1	6.29	1.81	3.35	7.70	13.64	85.11	21.49	8.72	83.42	232	1.038	1.84	11.6	
060822	KANE	0.40															
060822	LAURHILL	0.40	51.9	11.18	2.14	2.58	5.18	31.27	109.65	27.49	8.15	130.27	328	0.976	-1.19	4.4	
060822	LEADRIDG	0.26	42.8	11.48	2.06	0.31	1.44	12.75	89.13	31.94	4.23	81.86	235	0.993	-0.37	-2.6	
060822	LITTBUFF	0.29	16.7	12.48	2.47	3.86	7.53	18.28	32.36	19.85	9.42	37.87	144	1.146	6.82	14.1	
060822	LITTPINE	0.54	50.1	14.77	5.59	10.97	14.96	104.17	74.13	42.41	10.18	165.81	443	1.028	1.40	4.6	
060822	MILFORD	0.09	38.9	16.47	5.26	0.56	7.22		75.86	44.03	9.03	60.82					
060822	MILLERSV	0.00															
060822	PRESQISL	1.65	42.8	10.23	3.37	2.89	4.78	47.70	87.10	30.49	3.30	120.56	310	1.011	0.55	8.9	
060822	PSUNADP	0.19	55.7	11.48	1.89	0.26	1.26	15.52	117.49	32.91	5.08	110.19	296	0.998	-0.09	-3.0	
060822	SLOCUM	0.32	29.1	9.33	3.21	3.50	11.70	31.63	58.88	26.28	17.46	72.03	234	1.021	1.06	13.5	
060822	VALLFORG	0.02															
060822	YOWOCRK	0.59	49.2	7.49	1.56	0.66	1.96	27.17	93.33	27.10	4.23	107.69	271	0.951	-2.53	-7.3	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060829	ALLEPORT	1.25	24.7	7.88	4.44	5.73	3.96	84.90	26.30	25.21	6.46	84.15	249	1.150	6.98	2.4	
060829	ARENDSV	0.45	35.7	5.49	3.62	0.61	13.40	39.92	60.26	28.39	12.98	79.99	245	1.016	0.79	-4.2	
060829	CROOKCRK	2.03	37.1	4.14	1.07	1.23	3.00	24.13	67.61	18.49	5.11	87.24	212	0.913	-4.55	-7.9	
060829	GODDARD	3.60	21.9	2.74	0.99	1.18	3.70	16.21	36.31	14.14	2.48	48.60	126	0.937	-3.24	-12.4	
060829	HILLSCRK	3.09	25.0	10.13	2.55	10.13	18.27	25.06	42.66	17.57	18.56	59.95	205	1.132	6.21	4.8	
060829	KANE	3.31	24.0	2.00	0.33	0.15	0.26	11.09	50.12	10.48	1.13	51.66	127	1.011	0.53	-3.3	
060829	LAURHILL	0.49	43.4	5.64	1.73	2.51	5.61	23.71	87.10	24.71	8.97	97.59	258	0.962	-1.93	-1.3	
060829	LEADRIDG	1.89	42.0	4.99	1.23	0.36	1.00	32.16	81.28	27.26	3.10	90.82	242	0.999	-0.07	-4.3	
060829	LITTBUFF	0.86	62.7	17.27	4.44	2.43	6.26	78.97	117.49	57.98	11.31	174.41	471	0.931	-3.58	6.2	
060829	LITTPINE	1.85	15.4	4.84	2.71	5.47	2.87	42.77	15.85	16.64	2.93	46.20	140	1.133	6.23	-5.9	
060829	MILFORD	3.38	27.0	2.50	0.99	0.31	2.61	21.07	52.48	20.97	4.80	52.91	159	1.016	0.80	-3.4	
060829	MILLERSV	0.66															
060829	PRESQISL	2.91	21.1	3.49	1.07	1.89	3.52	16.35	43.65	15.99	2.68	44.66	133	1.105	4.98	3.0	
060829	PSUNADP	2.54	41.1	5.49	1.40	0.33	0.83	32.16	74.13	26.13	3.67	88.32	232	0.968	-1.63	-8.8	
060829	SLOCUM	1.26	47.7	11.48	3.87	6.21	4.83	44.05	97.72	49.13	8.43	109.21	335	1.008	0.41	7.5	
060829	VALLFORG	4.19	29.9	8.93	3.62	1.97	6.09	30.49	64.57	28.49	7.50	71.32	223	1.078	3.74	13.3	
060829	YOWOCRK	1.80															
060905	ALLEPORT	3.11	4.7	1.50	1.65	3.17	1.78	18.92	4.57	7.43	2.51	14.94	56	1.270	11.90	13.7	
060905	ARENDSV	2.07	5.5	0.50	0.16	0.08	0.39	2.77	10.96	3.87	0.85	8.96	29	1.087	4.18	-7.0	
060905	CROOKCRK	1.76	5.0	1.55	0.74	0.95	2.35	0.43	9.77	6.14	2.40	5.98	30	1.087	4.17	-4.0	
060905	GODDARD	0.93	3.0	1.65	1.81	1.61	2.52	3.93	1.20	6.00	2.17	5.12	26	0.957	-2.22	-30.4	
060905	HILLSCRK	3.22	3.3	3.19	0.99	3.09	5.65	5.21	3.47	5.28	5.16	13.39	45	0.906	-4.91	22.8	
060905	KANE	2.60	4.2	0.50	0.08	0.03	0.09		9.12	1.61	0.28	6.46					
060905	LAURHILL	2.13	4.0	1.75	0.66	1.10	2.35	1.21	8.51	5.43	1.89	7.60	30	1.044	2.16	13.0	
060905	LEADRIDG	2.57	5.9	1.00	0.33	0.20	0.09		11.48	3.87	0.56	8.75					
060905	LITTBUFF	4.96	3.7	1.65	0.49	1.28	2.44	2.28	6.17	5.43	1.95	5.96	28	1.073	3.53	-1.6	
060905	LITTPINE	5.14	5.3	0.85	0.41	1.13	1.83	1.79	7.76	5.07	2.40	5.98	27	1.023	1.15	-22.6	
060905	MILFORD	1.75	12.4	1.00	0.90	0.28	3.35	3.88	26.30	11.45	3.95	18.75	70	1.046	2.24	-0.8	
060905	MILLERSV	1.95	9.4	2.00	1.15	0.38	3.52	24.39	11.22	10.32	4.80	25.00	83	1.064	3.08	-3.6	
060905	PRESQISL	1.09	3.8	3.34	1.40	1.82	2.52	2.36	4.57	6.14	2.14	6.48	31	1.084	4.04	-11.5	
060905	PSUNADP	3.64	3.8	2.00	1.15	3.02	0.30	12.20	1.45	3.55	1.13	7.08	32	1.710	26.21	-29.8	
060905	SLOCUM	2.47	7.5	5.04	2.22	3.99	3.00	20.71	5.13	11.14	2.48	23.48	77	1.081	3.87	-8.2	
060905	VALLFORG	3.73	11.0	3.84	3.29	2.12	10.96	10.07	15.49	10.35	10.66	22.25	89	1.058	2.82	-5.3	
060905	YOWOCRK	4.41	4.3	1.00	0.49	1.84	0.26	13.31	2.75	3.23	1.13	12.91	37	1.138	6.46	-19.8	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
060926	ALLEPORT	0.20	29.0	14.62	5.10	1.56	4.61	22.85	46.77	27.56	9.25	70.41	203	0.891	-5.77	-5.8	
060926	ARENDSV	0.04	38.0	20.96	4.85	1.46	8.61	12.75	66.07	28.87	10.72	89.36	244	0.889	-5.85	-6.7	
060926	CROOKCRK	0.16	18.6	9.13	2.63	5.96	6.18	21.06	28.84	18.21	11.48	40.76	144	1.048	2.32	-2.1	
060926	GODDARD	0.48	11.0	8.08	6.00	0.72	1.70	19.99	17.78	15.42	3.07	42.14	115	0.895	-5.54	18.3	
060926	HILLSCRK	0.18	16.6	15.37	15.30	9.05	7.48	15.14	11.75	19.78	14.36	48.85	157	0.893	-5.66	-16.3	
060926	KANE	0.55	22.1	6.49	1.15	1.00	1.65	24.95	40.74	18.87	3.10	52.28	150	1.023	1.14	0.2	
060926	LAURHILL	0.52	10.8	5.44	2.22	0.92	3.65	6.92	23.44	10.35	5.70	25.31	84	1.030	1.48	15.0	
060926	LEADRIDG	0.06	21.8	22.95	5.68	6.80	5.44	21.07	30.20	29.36	7.33	56.66	185	0.987	-0.65	-2.6	
060926	LITTBUFF	0.19	31.9	9.73	4.28	2.74	7.96	23.63	52.48	32.70	16.93	67.16	218	0.863	-7.34	-5.8	
060926	LITTPINE	0.20															
060926	MILFORD	0.21	43.8	5.49	1.40	0.61	1.70	39.92	85.11	27.10	3.67	100.40	265	1.023	1.15	-1.9	
060926	MILLERSV	0.03	23.5	25.95	9.38	2.97	26.36	61.54	10.72	44.20	27.08	69.99	278	0.969	-1.57	-6.3	
060926	PRESQISL	1.15	21.0	11.23	4.03	2.12	2.26	35.42	31.62	44.20	3.98	47.51	182	0.906	-4.94	3.5	
060926	PSUNADP	0.07	31.4	27.94	4.36	1.48	5.48	33.26	46.77	33.87	8.46	81.65	243	0.962	-1.93	-4.4	
060926	SLOCUM	0.20	23.7	13.62	5.02	11.35	10.66	46.63	30.90	34.85	12.36	66.43	232	1.040	1.96	5.2	
060926	VALLFORG	0.09	29.6	16.27	9.79	5.04	29.36	31.27	38.02	41.13	38.68	71.84	281	0.856	-7.78	1.2	
060926	YOWOCRK	0.17	27.0	8.48	1.89	1.02	3.87	33.26	45.71	25.65	4.80	64.78	189	0.990	-0.52	-2.6	
061003	ALLEPORT	0.38	28.8	20.46	6.33	2.38	1.61	21.63	50.12	25.92	6.54	75.82	211	0.947	-2.73	-0.2	
061003	ARENDSV	0.07	28.3	15.97	2.63	0.87	0.65	41.03	44.67	25.16	1.97	76.65	210	1.020	0.97	-3.2	
061003	CROOKCRK	0.83	19.7	8.03	1.32	0.46	1.65	15.28	33.11	17.28	3.30	43.16	124	0.939	-3.14	-8.5	
061003	GODDARD	2.02	7.1	4.14	1.07	0.56	12.53	10.28	11.22	10.85	5.16	18.81	75	1.143	6.67	15.2	
061003	HILLSCRK	0.45	19.2	9.03	2.30	3.45	1.96	11.85	33.11	20.06	4.51	39.74	126	0.959	-2.07	-5.5	
061003	KANE	1.78	17.0	6.99	0.90	0.28	0.30	17.74	30.20	15.16	1.69	36.87	110	1.050	2.45	-4.1	
061003	LAURHILL	0.44	9.2	17.27	7.07	26.00	14.09	2.43	4.37	17.71	9.37	32.24	131	1.201	9.13	6.9	
061003	LEADRIDG	0.93	21.6	26.45	13.49	32.68	0.52	3.88	25.70	27.10	2.82	63.74	196	1.097	4.62	-4.9	
061003	LITTBUFF	0.88	22.1	12.87	2.06	1.05	2.09	37.63	35.48	29.78	4.12	55.89	181	1.016	0.77	2.8	
061003	LITTPINE	0.63	20.9	9.28	1.89	1.10	1.57	34.48	32.36	28.49	2.62	50.18	162	0.992	-0.38	-1.5	
061003	MILFORD	1.27	23.8	4.49	2.39	0.51	7.61	18.30	41.69	27.26	8.75	40.83	152	0.976	-1.22	-6.0	
061003	MILLERSV	3.12	20.6	3.99	0.82	0.28	0.83	19.96	38.02	15.16	1.97	45.62	127	1.018	0.90	-4.2	
061003	PRESQISL	2.54	11.5	5.54	1.23	1.23	1.87	13.07	20.89	15.28	2.20	24.70	86	1.039	1.91	3.6	
061003	PSUNADP	0.68	21.3	10.48	1.48	0.69	0.39	31.60	34.67	25.32	1.69	49.58	156	1.036	1.75	-2.3	
061003	SLOCUM	2.33	16.5	9.08	2.96	1.43	2.52	25.56	26.92	20.85	2.79	40.14	132	1.074	3.55	1.8	
061003	VALLFORG	1.02	12.0	1.90	1.07	0.77	2.74	15.78	19.95	12.64	4.49	25.73	85	0.985	-0.76	-2.8	
061003	YOWOCRK	0.34	30.0	20.46	2.55	2.76	0.78	44.35	46.77	42.42	3.10	69.99	233	1.019	0.93	-1.4	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
061010	ALLEPORT	0.45	28.2	14.67	3.87	2.76	3.57	31.70	51.29	28.13	8.15	72.63	217	0.990	-0.49	5.2	
061010	ARENDTSV	0.37	16.6	4.49	1.07	0.20	0.52	27.72	26.30	34.36	1.41	25.20	121	0.989	-0.55	-3.4	
061010	CROOKCRK	0.10	65.4	14.37	4.52	6.47	8.61	30.13	120.23	59.98	8.18	139.35	392	0.888	-5.91	-6.0	
061010	GODDARD	0.03	20.0	35.53	8.47	3.22	11.70	47.41	9.55	41.49	14.89	53.39	226	1.056	2.71	-10.2	
061010	HILLSCRK	0.43	27.3	7.53	1.56	1.28	2.48	21.99	50.12	25.13	3.92	56.74	171	0.990	-0.49	-4.1	
061010	KANE	0.20	38.9	24.95	4.52	0.97	4.52	43.24	63.10	49.04	6.21	84.78	281	1.009	0.46	-3.8	
061010	LAURHILL	0.46	27.0	11.43	2.47	2.25	2.48	29.13	38.90	32.99	3.86	57.22	181	0.921	-4.10	-12.2	
061010	LEADRIDG	0.36	36.8	11.98	2.63	0.97	1.65	39.36	64.57	41.45	5.36	75.40	243	0.991	-0.43	-3.7	
061010	LITTBUFF	0.53	22.8	8.03	1.73	1.71	2.22	24.92	39.81	30.20	3.33	48.99	161	0.950	-2.55	-0.9	
061010	LITTPINE	0.17	50.1	22.60	5.51	2.63	13.88	44.77	81.28	50.55	20.45	111.29	353	0.936	-3.29	-5.1	
061010	MILFORD	0.20	28.6	5.99	1.07	0.41	1.13	25.50	53.70	25.00	1.97	61.66	176	0.991	-0.47	-3.2	
061010	MILLERSV	0.45	13.1	7.49	1.81	0.38	1.57	24.39	18.62	27.26	2.26	23.54	107	1.023	1.12	-2.4	
061010	PRESQISL	1.27	49.6	16.27	3.29	2.63	4.39	29.84	97.72	55.62	7.39	102.13	319	0.933	-3.44	0.8	
061010	PSUNADP	0.29	29.4	10.98	2.80	0.54	1.13	22.18	53.70	28.23	3.67	61.45	185	0.978	-1.09	-4.3	
061010	SLOCUM	0.37	29.9	11.38	2.14	1.82	3.39	19.56	53.70	27.78	4.26	63.80	188	0.960	-2.05	-5.3	
061010	VALLFORG	0.53	14.4	3.84	4.03	1.61	13.83	14.71	23.44	19.42	19.78	23.39	124	0.982	-0.90	5.0	
061010	YOWOCRK	0.18															
061017	ALLEPORT	1.15															
061017	ARENDTSV	0.86	10.9	3.99	0.90	0.61	1.61	13.86	18.20	7.74	4.51	25.83	77	1.029	1.41	-2.8	
061017	CROOKCRK	2.65	10.5	2.84	1.23	2.89	3.87	4.21	24.55	10.50	1.30	20.02	71	1.245	10.91	12.9	
061017	GODDARD	1.85	17.1	5.44	1.73	2.25	3.26	7.28	31.62	16.71	2.29	33.97	105	0.974	-1.32	-5.2	
061017	HILLSCRK	0.15	29.7	9.58	3.29	5.86	7.39	27.85	47.86	36.84	12.21	63.49	214	0.905	-5.00	-3.8	
061017	KANE	3.53	25.2	2.99	0.82	0.49	1.22	19.40	48.98	18.87	2.26	51.03	146	1.024	1.19	-3.9	
061017	LAURHILL	1.41	12.7	10.08	2.22	9.33	7.92	8.64	22.39	13.92	3.19	27.64	105	1.354	15.02	6.2	
061017	LEADRIDG	0.93	20.7	2.99	0.82	0.28	1.96	14.41	40.74	21.61	3.10	35.83	122	1.011	0.54	-2.9	
061017	LITTBUFF	0.10	29.7	7.29	4.20	5.65	9.66	32.63	53.70	44.63	12.55	62.66	233	0.944	-2.88	6.2	
061017	LITTPINE	0.18	55.2	16.02	5.51	2.63	7.87	51.55	83.18	70.62	8.43	107.17	353	0.895	-5.51	-12.5	
061017	MILFORD	0.50	5.1	11.98	4.69	7.67	1.91		1.86	5.81	3.95	6.87					
061017	MILLERSV	0.02															
061017	PRESQISL	1.86	10.0	7.39	2.47	3.91	3.44	12.35	9.55	14.71	1.92	21.39	77	1.029	1.41	-19.9	
061017	PSUNADP	0.72	20.6	3.99	1.23	0.92	1.74	14.41	39.81	22.90	2.82	36.45	124	0.999	-0.05	-2.9	
061017	SLOCUM	0.18	21.8	6.19	2.06	6.96	6.09	32.70	36.31	29.06	7.05	46.95	173	1.087	4.17	3.2	
061017	VALLFORG	0.42	6.0	3.74	1.89	3.86	4.92	6.28	1.17	9.07	2.40	10.89	44	0.978	-1.11	-45.0	
061017	YOWOCRK	0.18	53.2	13.47	3.54	0.97	4.57	19.96	104.71	56.94	6.21	88.32	299	0.972	-1.42	-5.1	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
061024	ALLEPORT	2.17	18.0	12.57	6.83	3.76	2.52	10.07	29.51	15.57	1.83	45.58	128	1.036	1.78	-5.0	
061024	ARENDSV	1.03	19.8	2.00	0.41	0.28	0.44	17.19	38.02	18.07	1.13	39.58	117	0.992	-0.38	-3.6	
061024	CROOKCRK	1.71	19.4	2.94	0.82	1.53	3.13	10.14	33.88	18.64	1.64	34.64	107	0.955	-2.29	-11.8	
061024	GODDARD	2.75	17.2	3.04	1.15	0.56	1.70	12.28	30.20	16.64	1.44	33.85	101	0.942	-2.96	-9.0	
061024	HILLSCRK	2.79	14.0	2.54	0.82	1.33	1.83	10.14	26.92	14.49	1.66	25.77	86	1.039	1.93	-2.7	
061024	KANE	3.65	18.4	2.50	0.41	0.08	0.44	3.88	40.74	14.68	1.41	29.79	94	1.047	2.30	-1.5	
061024	LAURHILL	2.21															
061024	LEADRIDG	1.91	16.4	2.50	0.41	0.23	0.26	12.75	31.62	16.45	0.85	28.95	94	1.033	1.62	-4.8	
061024	LITTBUFF	1.29	11.8	11.18	12.75	4.88	4.31	11.85	14.79	13.85	5.73	33.04	112	1.136	6.36	-1.1	
061024	LITTPINE	2.36	13.6	1.80	1.65	4.86	1.57	14.07	21.38	14.57	1.27	26.95	88	1.059	2.86	-9.7	
061024	MILFORD	1.70															
061024	MILLERSV	0.86															
061024	PRESQISL	1.16	19.6	12.38	4.20	2.05	2.04	17.92	33.11	28.56	2.31	40.79	143	1.001	0.03	-1.7	
061024	PSUNADP	3.75	17.5	2.00	0.25	0.23	0.26	11.64	34.67	13.87	0.85	33.12	97	1.025	1.25	-4.7	
061024	SLOCUM	1.99	15.9	4.29	1.07	5.01	8.18	12.14	29.51	18.14	1.35	28.72	108	1.249	11.05	-0.5	
061024	VALLFORG	1.79	12.9	4.24	1.89	1.15	2.61	7.93	22.39	12.42	2.62	27.14	82	0.953	-2.40	-6.5	
061024	YOWOCRK	2.92	14.7	1.00	0.25	0.38	0.26	9.98	29.51	13.71	1.13	25.41	82	1.028	1.38	-3.8	
061031	ALLEPORT	1.08	13.5	8.78	4.44	12.38	2.83	1.00	19.95	14.92	5.56	30.41	100	0.970	-1.51	-7.6	
061031	ARENDSV	2.17	9.0	1.50	0.25	0.20	0.09	6.65	17.78	9.03	0.85	13.96	50	1.111	5.24	-4.6	
061031	CROOKCRK	2.09	12.8	2.20	0.82	1.79	3.05	4.42	20.42	14.28	2.20	18.33	68	0.939	-3.14	-18.2	
061031	GODDARD	2.01	11.8	2.84	0.99	0.54	1.57	6.14	35.48	14.35	2.45	22.75	87	1.202	9.19	36.5	
061031	HILLSCRK	0.63	8.8	2.35	0.66	0.69	1.70	4.50	16.22	11.21	2.54	14.62	54	0.920	-4.16	-4.4	
061031	KANE	2.02	13.2	2.00	0.33	0.15	0.30	6.65	27.54	12.58	1.13	21.66	72	1.045	2.22	-2.3	
061031	LAURHILL	1.50	13.6	3.84	1.07	1.66	2.61	8.57	24.55	16.85	1.64	22.83	84	1.024	1.17	-5.9	
061031	LEADRIDG	1.13	10.7	2.00	0.66	0.23	0.17	6.65	19.50	13.71	1.13	15.83	60	0.952	-2.44	-9.0	
061031	LITTBUFF	1.39	7.5	1.40	0.41	0.36	1.65	4.07	14.45	8.21	1.30	13.31	45	0.979	-1.06	-3.6	
061031	LITTPINE	0.95	9.2	1.30	0.41	0.46	1.17	4.93	14.79	11.85	1.30	13.83	50	0.855	-7.83	-16.1	
061031	MILFORD	2.25	5.5	0.50	0.16	0.10	0.17	2.22	12.02	5.81	0.28	6.87	28	1.171	7.88	-2.2	
061031	MILLERSV	1.65	5.2	1.00	0.25	0.41	0.30	10.53	7.94	4.84	0.56	12.50	38	1.142	6.61	-4.0	
061031	PRESQISL	1.99	8.1	32.73	12.34	7.31	9.27	53.55	2.14	101.39	11.14	33.18	263	0.805	-10.79	128.7	
061031	PSUNADP	1.16	9.2	1.00	0.41	0.15	0.09	6.10	18.62	10.81	0.85	13.75	52	1.038	1.87	-3.0	
061031	SLOCUM	1.96	3.9	1.70	0.41	0.28	1.17	1.00	8.32	4.28	1.41	7.06	26	1.010	0.48	4.9	
061031	VALLFORG	1.94															
061031	YOWOCRK	1.23	10.2	2.00	0.49	0.23	0.35	6.10	21.38	13.23	1.13	15.83	61	1.012	0.59	1.2	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
061107	ALLEPORT	0.34	29.3	14.02	4.69	0.89	3.35	12.28	54.95	35.13	11.34	57.95	195	0.864	-7.31	-0.9	
061107	ARENDSV	0.41	36.5	8.98	1.81	0.89	2.09	30.49	64.57	54.04	4.23	54.37	221	0.966	-1.72	-7.3	
061107	CROOKCRK	0.15	31.5	11.98	2.88	0.72	5.52	5.64	53.70	28.70	25.59	39.87	175	0.854	-7.86	-13.4	
061107	GODDARD	0.30	23.3	11.38	2.06	0.64	2.31	36.13	34.67	33.63	3.22	50.80	175	0.995	-0.27	-5.1	
061107	HILLSCRK	0.20	12.6	4.79	1.32	1.46	3.09	10.71	22.91	17.57	4.91	20.25	87	1.036	1.78	-0.6	
061107	KANE	0.31	21.0	14.97	9.21	6.03	1.52	29.94	30.20	43.71	3.10	43.53	182	1.017	0.84	0.6	
061107	LAURHILL	0.43	23.8	8.68	1.81	0.64	2.61	8.43	46.77	21.85	7.19	45.18	143	0.929	-3.69	-2.5	
061107	LEADRIDG	0.41	28.7	6.49	1.97	0.28	0.57	9.98	61.66	28.71	2.82	49.58	162	0.998	-0.10	0.3	
061107	LITTBUFF	0.74	36.8	9.78	2.06	0.77	2.00	35.05	67.61	59.12	3.41	55.28	235	0.995	-0.23	-3.1	
061107	LITTPINE	0.32	13.4	5.14	1.65	1.25	2.17	8.35	28.18	18.78	1.72	22.75	90	1.081	3.90	6.0	
061107	MILFORD	0.51	24.2	3.99	0.82	0.28	0.30	16.08	48.98	36.45	1.41	33.74	142	0.984	-0.81	-1.4	
061107	MILLERSV	0.51	21.7	2.99	0.66	0.41	0.70	38.25	32.36	29.36	1.97	42.08	149	1.027	1.32	-8.7	
061107	PRESQISL	0.58	51.9	242.51	79.79	12.43	5.57	46.26	0.28	66.19	11.71	278.46	743	1.086	4.10	-9.0	
061107	PSUNADP	0.43	23.9	5.49	1.23	0.18	0.61	6.65	47.86	23.23	1.97	37.70	125	0.986	-0.70	-6.8	
061107	SLOCUM	0.70	19.3	5.19	1.15	1.79	2.61	13.21	41.69	25.78	2.48	32.41	126	1.082	3.93	6.8	
061107	VALLFORG	0.59	25.3	3.39	1.15	0.79	2.04	23.06	45.71	32.13	2.43	42.62	153	0.987	-0.67	-6.0	
061107	YOWOCRK	0.13	14.0	5.99	1.15	0.49	1.35	6.65	26.92	19.19	1.13	23.95	87	0.961	-2.00	-2.6	
061114	ALLEPORT	1.63	5.7	1.50	0.82	0.56	3.18	3.43	10.72	7.00	4.77	11.37	43	0.873	-6.78	5.0	
061114	ARENDSV	2.19	12.9	2.00	0.58	0.15	1.39	8.32	23.44	8.87	2.26	24.16	71	1.017	0.82	-9.7	
061114	CROOKCRK	0.61	28.1	15.22	4.85	1.84	3.13	10.14	43.65	21.78	19.15	50.18	170	0.865	-7.22	-14.3	
061114	GODDARD	0.60	24.6	4.39	1.23	0.56	2.74	14.85	50.12	19.71	6.07	48.41	148	0.996	-0.19	-0.2	
061114	HILLSCRK	1.73	10.4	2.15	0.82	0.41	2.22	5.71	20.89	12.64	1.78	19.50	66	0.949	-2.59	1.0	
061114	KANE	0.87	26.2	3.99	0.90	0.36	2.22	11.09	51.29	20.00	4.23	50.62	145	0.933	-3.46	-5.7	
061114	LAURHILL	1.11	17.8	4.24	1.15	0.59	3.18	8.14	38.90	16.49	2.45	34.93	110	1.043	2.11	5.1	
061114	LEADRIDG	0.91	21.1	8.98	1.56	0.38	2.65	19.96	37.15	27.10	3.39	41.24	142	0.986	-0.73	-3.0	
061114	LITTBUFF	1.48	13.1	2.30	0.90	0.46	2.78	13.85	24.55	17.21	2.74	24.75	90	1.003	0.17	1.2	
061114	LITTPINE	1.35	19.6	2.84	0.90	0.54	2.48	13.07	37.15	21.49	2.29	35.45	116	0.962	-1.93	-4.9	
061114	MILFORD	1.87	5.0	1.00	0.41	0.10	1.78	1.11	10.00	5.65	2.54	4.79	27	1.110	5.22	-5.8	
061114	MILLERSV	2.57															
061114	PRESQISL	0.50	30.8	7.73	1.81	0.54	3.92	24.35	51.29	32.77	5.90	59.34	188	0.914	-4.47	-10.0	
061114	PSUNADP	0.98	20.7	5.49	1.15	0.82	3.18	14.97	41.69	22.74	4.23	37.49	132	1.044	2.14	1.5	
061114	SLOCUM	1.38	11.5	2.15	0.99	1.05	3.57	5.07	20.42	14.64	4.85	18.23	71	0.881	-6.32	-6.9	
061114	VALLFORG	3.08	7.4	1.95	1.65	0.33	5.87	6.85	14.13	9.07	6.04	14.85	61	1.027	1.35	10.1	
061114	YOWOCRK	1.42	16.6	2.50	0.49	0.20	1.22	9.98	33.88	16.94	1.97	27.91	95	1.031	1.53	-1.9	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
061219	ALLEPORT	0.19	94.8	42.42	13.24	5.80	41.41	60.26	138.04	131.81	46.43	156.60	636	0.899	-5.29	-12.8	
061219	ARENDTSV	0.22	39.4	6.49	1.73	0.38	5.96	31.05	75.86	47.58	11.85	61.87	243	1.001	0.07	-2.2	
061219	CROOKCRK	0.12	62.7	20.11	4.36	1.79	12.57	76.40	85.11	86.18	32.67	107.55	427	0.885	-6.11	-13.7	
061219	GODDARD	0.37	33.2	15.82	2.47	1.18	5.57	43.27	41.69	57.91	7.87	61.55	237	0.864	-7.31	-14.4	
061219	HILLSCRK	0.16	44.8	11.48	2.71	6.72	12.53	54.84	60.26	72.76	12.58	69.07	303	0.962	-1.94	-14.5	
061219	KANE	0.35	34.1	5.49	1.07	0.43	1.91	26.06	63.10	52.42	3.10	42.70	196	0.998	-0.09	-7.1	
061219	LAURHILL	0.14	26.9	17.66	2.39	2.40	6.70	19.78	38.90	36.77	11.17	48.33	184	0.912	-4.58	-11.9	
061219	LEADRIDG	0.29	42.0	15.97	4.11	0.89	5.44	28.27	77.62	63.39	10.16	60.82	267	0.985	-0.77	-3.6	
061219	LITTBUFF	0.25	39.8	12.23	3.45	1.56	10.61	38.99	54.95	51.27	15.60	71.99	261	0.877	-6.55	-15.1	
061219	LITTPINE	0.37	39.0	7.83	1.89	1.00	4.57	26.49	61.66	60.05	7.11	50.78	221	0.877	-6.55	-15.4	
061219	MILFORD	0.26	35.6	4.99	6.09	0.97	22.36	18.30	64.57	42.10	25.67	54.57	240	0.959	-2.12	-2.5	
061219	MILLERSV	0.09	26.1	4.49	2.22	0.61	7.79	38.81	40.74	26.78	15.52	54.78	192	0.975	-1.26	-3.9	
061219	PRESQISL	0.34	47.7	16.57	2.22	1.23	3.78	86.04	61.66	83.04	13.46	90.67	359	0.916	-4.37	-10.0	
061219	PSUNADP	0.26	41.9	10.48	2.71	0.72	4.05	24.95	81.28	59.52	10.16	56.87	251	0.981	-0.94	-3.3	
061219	SLOCUM	0.25	30.6	7.49	1.32	2.33	5.70	19.70	47.86	35.13	13.12	47.80	180	0.879	-6.46	-14.4	
061219	VALLFORG	0.17							69.18								
061219	YOWOCRK	0.38	33.0	5.49	1.07	0.51	2.44	26.61	64.57	50.65	4.51	43.33	199	1.022	1.10	-2.1	
061226	ALLEPORT	0.89	18.4	3.49	1.15	0.97	2.74	14.35	29.51	21.85	5.90	32.91	113	0.861	-7.47	-11.3	
061226	ARENDTSV	2.18	17.2	1.50	0.49	0.15	2.04	12.20	35.48	11.94	4.23	31.45	99	1.089	4.27	-0.7	
061226	CROOKCRK	1.45	17.3	1.05	0.41	0.77	2.44	5.64	30.90	15.42	5.90	25.16	88	0.886	-6.02	-13.7	
061226	GODDARD	1.31	18.3	1.55	0.25	0.15	1.61	10.28	37.15	14.71	3.98	28.58	98	1.079	3.79	-4.6	
061226	HILLSCRK	1.10	22.0	1.15	0.33	0.72	2.00	5.21	22.91	8.78	4.34	18.41	64	1.025	1.21	-50.1	
061226	KANE	1.76	18.1	1.00	0.25	0.13	0.57	6.65	39.81	15.32	1.97	28.33	94	1.061	2.95	-1.1	
061226	LAURHILL	1.60	13.9	1.95	0.58	0.77	2.83	8.93	22.91	13.92	4.54	22.14	79	0.935	-3.38	-13.5	
061226	LEADRIDG	1.01	19.5	2.50	0.49	0.23	0.87	9.42	40.74	15.48	3.10	33.54	106	1.041	2.00	-2.4	
061226	LITTBUFF	1.81	13.1	1.45	0.33	0.92	2.26	11.14	21.38	11.14	4.99	17.98	72	1.099	4.70	-15.2	
061226	LITTPINE	1.16	19.4	1.70	0.33	0.66	1.96	7.57	35.48	18.35	4.68	25.70	96	0.979	-1.08	-13.3	
061226	MILFORD	1.13	14.3	2.00	0.74	0.18	3.13	6.10	30.90	17.42	4.23	17.50	82	1.100	4.74	1.1	
061226	MILLERSV	1.88	7.7	1.00	0.58	0.15	2.65	22.18	8.71	7.90	4.23	20.21	68	1.090	4.33	-5.1	
061226	PRESQISL	1.03	16.3	1.60	0.49	0.51	2.13	6.78	34.67	21.49	4.54	22.37	95	0.954	-2.35	0.9	
061226	PSUNADP	1.02	19.4	2.00	0.49	0.13	0.70	6.65	39.81	12.58	2.82	32.08	97	1.048	2.36	-6.6	
061226	SLOCUM	1.76	11.4	1.20	0.41	0.61	2.52	4.93	20.42	12.35	3.67	16.21	62	0.934	-3.42	-11.3	
061226	VALLFORG	1.65	10.9	2.00	1.73	1.23	6.70	11.28	16.22	13.28	8.35	18.54	79	0.975	-1.29	-7.5	
061226	YOWOCRK	1.34	19.3	1.00	0.25	0.15	0.70	6.65	39.81	17.26	2.82	28.12	97	1.007	0.37	-6.2	

Weekly Precipitation Chemistry Observations: Micro-equivalent Concentrations and Balances

Date	Site	Precip	Cond	Cations						Anions				TIS	+/-	Ion Diff.	Cond. Balance
				Ca	Mg	K	Na	NH ₄	H	NO ₃	Cl	SO ₄					
070102	ALLEPORT	0.36	28.0	9.93	3.45	2.28	15.66	23.27	44.67	32.27	23.08	46.53	201	0.974	-1.30	-5.3	
070102	ARENDSV	0.95	13.1	1.50	0.58	0.20	2.44	8.87	25.70	12.42	3.95	21.25	77	1.044	2.17	-3.2	
070102	CROOKCRK	0.51	12.2	1.30	0.66	0.87	2.74	4.42	17.78	11.92	4.20	20.64	65	0.755	-13.94	-21.6	
070102	GODDARD	0.55	13.0	1.80	0.58	0.56	3.83	12.92	21.38	14.14	5.33	23.16	84	0.963	-1.87	-8.2	
070102	HILLSCRK	0.23	12.6	2.89	0.99	1.69	3.57	7.78	18.62	10.14	7.98	20.52	74	0.920	-4.18	-17.0	
070102	KANE	0.59	16.3	2.00	0.33	0.41	0.74	13.86	29.51	17.26	1.69	27.70	94	1.004	0.20	-8.1	
070102	LAURHILL	0.53	13.8	2.15	0.49	1.07	1.74	9.78	19.95	14.92	3.70	22.27	76	0.861	-7.49	-20.1	
070102	LEADRIDG	0.51	20.7	2.00	0.66	0.26	1.13	12.75	42.66	20.00	2.54	33.33	115	1.064	3.11	-2.3	
070102	LITTBUFF	0.65	15.6	1.50	0.90	1.43	4.48	12.71	21.88	15.28	6.52	24.54	89	0.926	-3.85	-20.1	
070102	LITTPINE	0.28	21.6	0.70	0.49	0.59	2.26	12.50	36.31	22.49	4.91	31.56	112	0.896	-5.47	-15.8	
070102	MILFORD	0.90	11.2	1.50	0.82	0.26	4.35	0.55	19.95	11.61	4.80	16.46	60	0.835	-9.01	-12.5	
070102	MILLERSV	0.94	6.5	1.00	0.90	0.13	3.05	7.76	10.00	5.32	3.67	12.91	45	1.043	2.08	-8.4	
070102	PRESQISL	0.33	21.4	4.39	1.73	1.61	3.83	23.42	27.54	27.42	13.20	38.56	142	0.790	-11.76	-16.7	
070102	PSUNADP	0.35	22.6	2.00	0.58	0.38	1.00	13.31	41.69	20.16	2.26	35.62	117	1.016	0.78	-11.2	
070102	SLOCUM	0.70	12.9	1.25	0.49	1.43	2.57	5.43	19.95	13.21	3.98	17.98	66	0.885	-6.10	-20.2	
070102	VALLFORG	1.48	11.2	1.25	1.32	0.92	5.70	8.07	18.20	9.28	6.66	21.75	73	0.941	-3.06	-8.6	
070102	YOWOCRK	0.41	17.4	2.00	0.41	0.23	0.65	11.64	34.67	19.68	1.69	24.58	96	1.080	3.83	-4.8	