

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2006 Acid Deposition Annual Report

Station: Piseco Lake
 County: Hamilton
 Town: Arrietta
 Location: Piseco Lake Airport

Site #: 205001
 AIRS #: 360410005
 Locality: Rural
 Zoning: Commercial

Total Precipitation (Inches of Rain): 66.83
 Valid Sample Precipitation: 66.83
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 39
 Number of Valid Samples: 39
Official Sampler
 Number of Visits With Precipitation Events: 51
 Number of Valid Visits With Precipitation Events: 51
 Number of Anion Analyses: 34
 Number of Cation Analyses: 35
 Number of Conductivity Analyses: 37
 Number of pH Analyses: 38

Elevation: 519 meters

	Precipitation (Inches of Rain)	Lab pH	SO4 IPPM	NO3 IPPM	CL IPPM	F IPPM	NO2 IPPM	Br IPPM	HPO4 IPPM	Na IPPM	NH4 IPPM	K IPPM	Ca IPPM	Mg IPPM	Lab Conductivity Micro s/cm
Maximum	5.37	4.75	3.558	3.278	0.451	0.000	0.000	0.000	0.000	0.437	0.904	0.058	0.365	0.086	33.30
Minimum	4.15	4.75	0.163	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	2.94

Precipitation Weighted Mean

1st Quarter	9.81	4.75	1.199	1.376	0.200	0.000	0.000	0.000	0.000	0.088	0.194	0.013	0.115	0.015	15.10
2nd Quarter	19.40	4.91	0.641	0.584	0.053	0.000	0.000	0.000	0.000	0.013	0.279	0.014	0.027	0.006	7.74
3rd Quarter	16.61	4.61	1.775	0.693	0.133	0.000	0.000	0.000	0.000	0.054	0.390	0.004	0.068	0.010	13.13
4th Quarter	21.01	4.79	0.652	0.491	0.055	0.000	0.000	0.000	0.000	0.032	0.098	0.002	0.057	0.007	7.76
Annual	66.83	4.76	0.983	0.691	0.093	0.000	0.000	0.000	0.000	0.042	0.234	0.007	0.062	0.009	10.32

Total Deposition

	H+	SO4	NO3	CL	F	NO2	Br	HPO4	Na	NH4	K	Ca	Mg
	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2
1st Quarter	4.466	298.681	342.858	49.851	0.000	0.000	0.000	0.000	21.821	48.310	3.275	28.680	3.814
2nd Quarter	6.118	315.691	287.675	25.889	0.000	0.000	0.000	0.000					
3rd Quarter	10.437	748.959	292.222	56.052	0.000	0.000	0.000	0.000	22.872	164.437	1.524	28.501	4.170
4th Quarter	8.766	347.718	262.157	29.210	0.000	0.000	0.000	0.000	16.944	52.077	0.941	30.551	3.885
Annual	29.787	1,711.049	1,184.912	161.002	0.000	0.000	0.000	0.000	67.837	402.464	12.435	101.019	14.829

NOTE: DEPOSITION SHOWN MEETS 1) FOR QUARTERS, A MINIMUM OF 75% DATA CAPTURE AND
 2) FOR ANNUAL, A MINIMUM OF 75% DATA CAPTURE WITH EACH QUARTER >50% DATA CAPTURE
 DATA CAPTURE = VALID SAMPLES WITH VALID PRECIPITATION FOR THE PERIOD / TOTAL PRECIPITATION FOR PERIOD