

New York State Department of Environmental Conservation
Bureau of Air Quality Surveillance
2007 Acid Deposition Annual Report

Station: Loudonville CAM Primary
 County: Albany
 Town: Albany
 Location: Albany City Reservoir
 Albany-Shaker Road
 (near Pilgrim Drive)
 Elevation: 101 meters

Site #: 010133
 AIRS #: 360010012
 Locality: Suburban
 Zoning: Residential

Primary Sampler

Total Precipitation (Inches of Rain): 42.98
 Valid Sample Precipitation: 40.78
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 41
 Number of Valid Samples: 41
 Number of Visits With Precipitation Events: 49
 Number of Valid Visits With Precipitation Events: 49
 Number of Anion Analyses: 40
 Number of Cation Analyses: 40

	Precipitation <i>(Inches of Rain)</i>	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		6.070	9.393	4.617	1.286	0.005	0.024	0.000	0.000	0.718	2.002	0.306	0.475	0.136	83.50
Minimum		3.820	0.357	0.371	0.038	0.000	0.000	0.000	0.000	0.007	0.057	0.000	0.009	0.001	4.22
<u>Precipitation Weighted Mean</u>															
1st Quarter	5.56	4.50	1.361	1.455	0.368	0.000	0.001	0.000	0.000	0.214	0.228	0.006	0.149	0.013	17.87
2nd Quarter	11.26	4.61	1.548	0.992	0.087	0.000	0.002	0.000	0.000	0.031	0.380	0.031	0.118	0.016	14.52
3rd Quarter	13.44	4.49	2.382	1.221	0.071	0.001	0.002	0.000	0.000	0.024	0.517	0.014	0.113	0.011	19.37
4th Quarter	12.72	4.70	1.080	0.921	0.128	0.000	0.005	0.000	0.000	0.065	0.202	0.003	0.046	0.009	12.13
Annual	42.98	4.58	1.602	1.094	0.133	0.000	0.003	0.000	0.000	0.065	0.338	0.014	0.097	0.012	15.94

Total Deposition

	H+ mg/m2	SO4 mg/m2	NO3 mg/m2	CL mg/m2	F mg/m2	NO2 mg/m2	Br mg/m2	HPO4 mg/m2	Na mg/m2	NH4 mg/m2	K mg/m2	Ca mg/m2	Mg mg/m2
1st Quarter	4.510	192.152	205.502	51.939	0.000	0.079	0.000	0.000	30.252	32.231	0.854	20.996	1.790
2nd Quarter	7.097	442.593	283.716	24.957	0.000	0.479	0.000	0.000	8.848	108.750	8.935	33.613	4.711
3rd Quarter	11.263	813.151	416.880	24.240	0.247	0.552	0.000	0.000	8.119	176.637	4.710	38.527	3.693
4th Quarter	6.473	348.806	297.527	41.221	0.000	1.565	0.000	0.000	21.100	65.287	0.922	14.741	2.767
Annual	29.343	1796.703	1203.625	142.358	0.247	2.675	0.000	0.000	68.319	382.905	15.421	107.876	12.961