

New York State Department of Environmental Conservation
Bureau of Air Quality Surveillance
2006 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): 41.29
 Valid Sample Precipitation: 41.29
 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: 39
 Number of Cation Analyses: 37
 Number of Conductivity Analyses: 40
 Number of pH Analyses: 41

	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		5.91	4.621	5.195	2.002	0.000	0.057	0.000	0.000	1.220	1.278	0.114	0.867	0.121	39.90
Minimum		4.14	0.125	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.000	0.000	2.08

Precipitation Weighted Mean

1st Quarter	7.23	4.79	1.171	1.101	0.662	0.000	0.000	0.000	0.000	0.310	0.201	0.019	0.104	0.029	15.26
2nd Quarter	13.69	4.71	1.271	0.828	0.071	0.000	0.000	0.000	0.000	0.019	0.313	0.018	0.072	0.014	10.47
3rd Quarter	10.94	4.46	2.054	0.916	0.087	0.000	0.001	0.000	0.000	0.025	0.428	0.010	0.108	0.010	17.72
4th Quarter	9.43	4.75	0.753	0.616	0.128	0.000	0.000	0.000	0.000	0.069	0.132	0.002	0.049	0.013	8.55
Annual	41.29	4.65	1.318	0.836	0.174	0.000	0.000	0.000	0.000	0.094	0.277	0.012	0.084	0.016	12.92

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	2.971	214.975	202.098	121.510	0.000	0.000	0.000	0.000	57.014	36.983	3.513	19.073	5.356
2nd Quarter	6.883	441.996	287.995	24.581	0.000	0.000	0.000	0.000					
3rd Quarter	9.605	570.686	254.494	24.095	0.000	0.377	0.000	0.000	6.987	119.016	2.793	29.952	2.908
4th Quarter	4.335	180.338	147.491	30.593	0.000	0.000	0.000	0.000	16.597	31.559	0.478	11.740	3.152
Annual	23.794	1,407.995	892.078	200.778	0.000	0.377	0.000	0.000	87.271	296.232	13.194	85.802	16.444

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