

# New York State Department of Environmental Conservation

## Bureau of Air Quality Surveillance

### 2005 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): 39.46  
 Valid Sample Precipitation: 39.46  
 Number of Visits: 52  
 Number of Valid Visits: 52  
 Number of Samples: 39  
 Number of Valid Samples: 39  
 Number of Visits With Precipitation Events: 48  
 Number of Valid Visits With Precipitation Events: 48  
 Number of Anion Analyses: 37  
 Number of Cation Analyses: 39  
 Number of Conductivity Analyses: 39  
 Number of pH Analyses: 39

	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
<b>Maximum</b>	6.68	4.48	5.008	8.427	1.255	0.520	0.189	0.126	0.037	0.949	5.201	0.250	0.442	0.127	49.80
<b>Minimum</b>	3.92	4.86	0.192	0.121	0.000	0.000	0.000	0.000	0.000	0.005	0.052	0.000	0.000	0.000	2.25

#### Precipitation Weighted Mean

<b>1st Quarter</b>	6.73	4.48	0.994	1.397	0.343	0.027	0.043	0.013	0.000	0.241	0.267	0.005	0.088	0.015	18.79
<b>2nd Quarter</b>	4.86	4.62	1.757	1.434	0.145	0.014	0.001	0.006	0.009	0.070	0.772	0.039	0.158	0.032	18.42
<b>3rd Quarter</b>	12.35	4.55	1.318	2.665	0.081	0.000	0.011	0.003	0.000	0.041	0.955	0.017	0.114	0.041	19.85
<b>4th Quarter</b>	15.52	4.86	0.435	0.457	0.181	0.024	0.007	0.006	0.010	0.123	0.138	0.008	0.042	0.036	8.00
<b>Annual</b>	39.46	4.64	0.976	1.424	0.175	0.016	0.014	0.006	0.005	0.111	0.494	0.014	0.086	0.033	14.83

#### 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
<b>1st Quarter</b>	5.751	169.994	238.735	58.619	4.591	7.376	2.277	0.000	41.276	45.658	0.859	14.971	2.496
<b>2nd Quarter</b>	2.976	216.891	177.025	17.900	1.727	0.183	0.765	1.103	8.596	95.348	4.802	19.519	3.940
<b>3rd Quarter</b>	8.931	413.396	836.118	25.518	0.000	3.524	0.909	0.000	12.902	299.577	5.453	35.721	12.818
<b>4th Quarter</b>	5.527	171.358	180.016	71.200	9.269	2.704	2.207	4.139	48.317	54.579	3.298	16.401	14.292
<b>Annual</b>	23.185	971.640	1,431.894	173.237	15.587	13.788	6.158	5.242	111.091	495.161	14.412	86.612	33.547

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