

New York State Department of Environmental Conservation
Bureau of Air Quality Surveillance
2006 Acid Deposition Annual Report

Station: New York Botanical Gardens
 County: Bronx
 Town: Bronx
 Location: New York Botanical Gardens
 Harding Laboratory
 200th St. & SE Blvd.
 Elevation: 24 meters

Site #: 709406
 AIRS #: 360050083
 Locality: Urban
 Zoning: Residential, Comm

Official Sampler

Total Precipitation (Inches of Rain): 53.13
 Valid Sample Precipitation: 53.13
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 40
 Number of Valid Samples: 40
 Number of Visits With Precipitation Events: 45
 Number of Valid Visits With Precipitation Events: 45
 Number of Anion Analyses: 36
 Number of Cation Analyses: 37
 Number of Conductivity Analyses: 39
 Number of pH 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	5.13	5.559	5.024	4.425	0.016	0.029	0.000	0.000	0.000	2.693	1.546	0.093	0.361	0.264	57.30
Minimum	3.91	0.581	0.201	0.046	0.000	0.000	0.000	0.000	0.000	0.005	0.071	0.000	0.000	0.007	6.11

Precipitation Weighted Mean

1st Quarter	7.12	4.77	2.244	1.127	2.059	0.004	0.000	0.000	0.000	1.051	0.270	0.039	0.148	0.114	21.98
2nd Quarter	17.58	4.42	2.304	1.498	0.597	0.000	0.000	0.000	0.000	0.191	0.465	0.020	0.054	0.034	23.42
3rd Quarter	13.64	4.24	2.934	1.991	1.032	0.000	0.000	0.000	0.000	0.480	0.595	0.028	0.154	0.070	33.79
4th Quarter	14.79	4.76	1.114	0.564	0.825	0.000	0.002	0.000	0.000	0.457	0.165	0.016	0.067	0.057	12.40
Annual	53.13	4.46	2.082	1.289	0.930	0.000	0.001	0.000	0.000	0.475	0.380	0.024	0.098	0.062	22.78

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	3.081								190.094	48.772	7.100	26.717	20.631
2nd Quarter	16.995	1028.950	668.821	266.440	0.000	0.000	0.000	0.000	85.432	207.788	8.840	24.067	15.067
3rd Quarter	20.277	1016.417	689.916	357.437	0.000	0.000	0.000	0.000	166.452	206.137	9.691	53.460	24.406
4th Quarter	6.564	418.644	211.915	309.760	0.000	0.666	0.000	0.000	171.852	62.160	6.031	25.025	21.260
Annual	46.916	2,869.871	1,774.403	1,305.987	0.807	0.666	0.000	0.000	613.830	524.856	31.662	129.268	81.364

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