

New York State Department of Environmental Conservation
Bureau of Air Quality Surveillance
2007 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): 53.97
 Valid Sample Precipitation: 53.69
 Number of Visits: 53
 Number of Valid Visits: 53
 Number of Samples: 42
 Number of Valid Samples: 42
 Number of Visits With Precipitation Events: 49
 Number of Valid Visits With Precipitation Events: 49
 Number of Anion Analyses: 39
 Number of Cation Analyses: 41

	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		5.490	6.713	4.403	3.572	0.027	0.029	0.025	0.000	1.899	1.835	0.083	0.787	0.160	58.20
Minimum		3.990	0.326	0.208	0.119	0.000	0.000	0.000	0.000	0.029	0.071	0.000	0.024	0.011	3.45
<u>Precipitation Weighted Mean</u>															
1st Quarter	9.20	4.64	1.506	0.845	0.668	0.000	0.000	0.005	0.000	0.351	0.248	0.018	0.118	0.038	15.63
2nd Quarter	17.48	4.75	1.314	0.677	0.601	0.000	0.002	0.000	0.000	0.331	0.234	0.016	0.076	0.040	13.09
3rd Quarter	14.19	4.36	2.945	1.388	0.360	0.005	0.000	0.000	0.000	0.172	0.432	0.013	0.100	0.024	26.81
4th Quarter	13.10	4.60	1.861	1.254	1.070	0.000	0.004	0.000	0.000	0.568	0.278	0.033	0.093	0.062	22.77
Annual	53.97	4.56	1.879	1.018	0.664	0.001	0.002	0.001	0.000	0.346	0.300	0.019	0.094	0.040	19.45

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	5.359	351.907	197.374	156.023	0.000	0.000	1.221	0.000	82.088	58.000	4.109	27.605	8.973
2nd Quarter	7.968	583.345	300.755	266.947	0.000	0.980	0.000	0.000	147.030	104.104	7.161	33.854	17.592
3rd Quarter	15.794	1061.332	500.249	129.835	1.976	0.000	0.000	0.000	61.977	155.542	4.641	36.080	8.684
4th Quarter	8.506	619.065	417.339	356.093	0.000	1.473	0.000	0.000	189.026	92.407	11.004	31.051	20.782
Annual	37.626	2615.649	1415.718	908.898	1.976	2.454	1.221	0.000	480.120	410.052	26.914	128.590	56.031