

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2006 Acid Deposition Annual Report

Station: Niagara Falls CAM - Current
 County: Niagara
 Town: Niagara Falls
 Location: Frontier Ave & 55th Street

Site #: 310225
 AIRS #: 360632008
 Locality: Urban, City Center
 Zoning: Residential, Comm

Total Precipitation (Inches of Rain): 30.94
 Valid Sample Precipitation: 30.40
 Number of Visits: 45
 Number of Valid Visits: 45
 Number of Samples: 37
 Number of Valid Samples: 37
 Official Sampler
 Number of Visits With Precipitation Events: 44
 Number of Valid Visits With Precipitation Events: 44
 Number of Anion Analyses: 32
 Number of Cation Analyses: 34
 Number of Conductivity Analyses: 35
 Number of pH Analyses: 37

Elevation: 176 meters

	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	7.64	7.982	5.975	2.947	0.165	0.000	0.000	0.000	1.017	2.510	0.133	9.765	0.569	75.80	
Minimum	4.15	0.299	0.126	0.065	0.000	0.000	0.000	0.000	0.000	0.061	0.000	0.000	0.010	2.48	

Precipitation Weighted Mean

1st Quarter	4.68	4.78	2.233	2.216	0.839	0.016	0.000	0.000	0.000	0.358	0.341	0.013	0.986	0.077	23.86
2nd Quarter	5.03	5.22	4.391	2.793	0.764	0.025	0.000	0.000	0.000	0.196	0.922	0.061	1.748	0.231	30.99
3rd Quarter	13.59	4.64	1.594	1.576	0.197	0.003	0.000	0.000	0.000	0.033	0.410	0.007	0.408	0.046	15.56
4th Quarter	7.64	4.60	1.945	1.194	0.357	0.000	0.000	0.000	0.000	0.073	0.296	0.008	0.413	0.042	16.17
Annual	30.94	4.70	2.270	1.774	0.450	0.008	0.000	0.000	0.000	0.113	0.422	0.014	0.642	0.069	18.86

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	1.994	265.487	263.472	99.792	1.908	0.000	0.000	0.000	42.569	40.504	1.490	117.265	9.101
2nd Quarter	0.771	561.058	356.782	97.655	3.155	0.000	0.000	0.000					
3rd Quarter	8.012								11.238	141.469	2.382	140.946	15.837
4th Quarter	4.885	377.412	231.777	69.227	0.000	0.000	0.000	0.000	14.171	57.512	1.469	80.100	8.205
Annual	15.662	1,754.306	1,395.924	334.819	6.012	0.000	0.000	0.000	93.048	357.293	13.137	561.666	62.645

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