

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2005 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): 29.29
 Valid Sample Precipitation: 29.29
 Number of Visits: 50
 Number of Valid Visits: 50
 Number of Samples: 36
 Number of Valid Samples: 36
Official Sampler
 Number of Visits With Precipitation Events: 46
 Number of Valid Visits With Precipitation Events: 46
 Number of Anion Analyses: 36
 Number of Cation Analyses: 36
 Number of Conductivity Analyses: 36
 Number of pH Analyses: 36

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		6.59	6.663	6.143	1.308	0.034	0.208	0.000	0.000	0.854	2.045	0.410	1.984	0.322	62.00
Minimum		3.99	0.151	0.441	0.012	0.000	0.000	0.000	0.000	0.000	0.059	0.000	0.013	0.004	4.00

Precipitation Weighted Mean

1st Quarter	6.75	4.62	1.238	1.863	0.587	0.014	0.051	0.000	0.000	0.314	0.332	0.006	0.234	0.041	19.12
2nd Quarter	5.34	4.64	2.271	1.615	0.304	0.010	0.067	0.000	0.000	0.080	0.760	0.027	0.469	0.094	19.42
3rd Quarter	9.29	4.79	1.600	1.581	0.171	0.003	0.005	0.000	0.000	0.039	0.451	0.049	0.310	0.073	14.67
4th Quarter	7.91	4.74	1.102	1.680	0.260	0.002	0.007	0.000	0.000	0.118	0.311	0.018	0.365	0.060	13.62
Annual	29.29	4.70	1.505	1.679	0.315	0.006	0.027	0.000	0.000	0.131	0.442	0.027	0.337	0.066	16.28

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	4.161	212.340	319.450	100.604	2.425	8.669	0.000	0.000	53.802	56.917	1.095	40.170	7.058
2nd Quarter	3.141	308.066	219.016	41.237	1.331	9.031	0.000	0.000	10.854	103.135	3.615	63.608	12.775
3rd Quarter	3.893	377.503	373.140	40.405	0.666	1.183	0.000	0.000	9.304	106.488	11.467	73.181	17.198
4th Quarter	3.648	221.506	337.581	52.271	0.391	1.407	0.000	0.000	23.674	62.472	3.671	73.392	12.018
Annual	14.842	1,119.415	1,249.188	234.517	4.813	20.290	0.000	0.000	97.634	329.012	19.848	250.350	49.049

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