

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

Station: Buffalo CAM
 County: Erie
 Town: Buffalo
 Location: NYS Thruway
 Bridge Maintenance Fac.
 185 Dingens St (near weiss)
 Elevation: 185 meters

Site #: 140118
 AIRS #: 360290005
 Locality: Urban, City Center
 Zoning: Commercial, Indust

Official Sampler

Total Precipitation (Inches of Rain): 38.16
 Valid Sample Precipitation: 38.16
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 40
 Number of Valid Samples: 40
 Number of Visits With Precipitation Events: 47
 Number of Valid Visits With Precipitation Events: 47
 Number of Anion Analyses: 34
 Number of Cation Analyses: 36
 Number of Conductivity Analyses: 39
 Number of pH Analyses: 40

	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	7.43	7.197	11.576	27.796	0.046	0.016	0.034	0.000	15.438	2.103	0.097	8.071	0.999	124.00	
Minimum	4.05	0.550	0.249	0.044	0.000	0.000	0.000	0.000	0.006	0.069	0.000	0.000	0.008	3.69	
<u>Precipitation Weighted Mean</u>															
1st Quarter	4.84	5.31	3.683	4.154	6.098	0.014	0.000	0.000	0.000	3.305	0.875	0.027	1.955	0.218	41.37
2nd Quarter	6.52	5.05	2.697	1.829	0.235	0.000	0.000	0.000	0.000	0.211	0.476	0.031	0.408	0.269	14.86
3rd Quarter	11.55	4.56	2.196	1.510	0.075	0.000	0.000	0.000	0.000	0.021	0.370	0.011	0.640	0.041	18.62
4th Quarter	15.25	4.78	1.775	1.484	0.135	0.000	0.003	0.000	0.000	0.059	0.337	0.011	0.984	0.056	15.20
Annual	38.16	4.76	2.276	1.871	0.855	0.002	0.001	0.000	0.000	0.494	0.438	0.016	0.921	0.103	19.53

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	0.605	452.751	510.658	749.704	1.777	0.000	0.000	0.000	406.298	107.526	3.312	240.346	26.836
2nd Quarter	1.494	446.598	302.826	38.882	0.000	0.000	0.000	0.000	34.981	78.843	5.188	67.524	44.518
3rd Quarter	8.218	644.175	443.034	21.937	0.000	0.000	0.000	0.000	6.022	108.530	3.165	187.795	12.041
4th Quarter	6.526	687.580	574.924	52.171	0.094	0.994	0.179	0.000	22.844	130.715	4.334	381.307	21.531
Annual	16.842	2,231.104	1,831.442	862.694	1.871	0.994	0.179	0.000	470.144	425.613	15.999	876.972	104.926

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