

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2007 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): 33.11
 Valid Sample Precipitation: 32.57
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 41
 Number of Valid Samples: 41
 Number of Visits With Precipitation Events: 47
 Number of Valid Visits With Precipitation Events: 47
 Number of Anion Analyses: 38
 Number of Cation Analyses: 39

	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	6.710	4.83	2.984	3.225	5.428	0.000	0.000	0.000	0.000	3.464	0.813	0.030	1.485	0.160	40.88
Minimum	4.150	4.83	2.984	3.225	5.428	0.000	0.000	0.000	0.000	3.464	0.813	0.030	1.485	0.160	40.88

Precipitation Weighted Mean

1st Quarter	9.46	4.83	2.984	3.225	5.428	0.000	0.000	0.000	0.000	3.464	0.813	0.030	1.485	0.160	40.88
2nd Quarter	4.72	5.99	4.018	2.867	0.955	0.006	0.018	0.000	0.000	0.418	1.103	0.047	2.676	0.176	29.81
3rd Quarter	5.55	4.66	3.166	1.835	0.116	0.000	0.005	0.000	0.000	0.031	0.709	0.026	0.504	0.053	19.72
4th Quarter	13.38	4.79	1.740	1.358	0.358	0.000	0.003	0.000	0.000	0.201	0.362	0.028	0.244	0.028	14.67
Annual	33.11	4.83	2.622	2.176	1.872	0.001	0.005	0.000	0.000	1.118	0.648	0.031	0.966	0.089	25.14

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	3.606	716.929	774.855	1304.292	0.000	0.094	0.099	0.000	832.417	195.361	7.274	356.742	38.392
2nd Quarter	0.125	481.733	343.706	114.477	0.755	2.181	0.000	0.000	50.127	132.244	5.581	320.794	21.071
3rd Quarter	3.133	446.372	258.685	16.380	0.050	0.697	0.000	0.000	4.331	99.993	3.724	70.999	7.497
4th Quarter	5.516	591.235	461.412	121.596	0.000	1.010	0.000	0.000	68.282	123.091	9.493	82.898	9.515
Annual	12.380	2236.269	1838.658	1556.744	0.805	3.982	0.099	0.000	955.156	550.689	26.073	831.434	76.475