

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2006 Acid Deposition Annual Report

Station: Elmira	Site #: 070105	Total Precipitation (Inches of Rain): 36.10
County: Chemung	AIRS #: 360150003	Valid Sample Precipitation: 32.95
Town: Elmira	Locality: Urban, City	Number of Visits: 50
Location: WaterTreatment Plant Sullivan Street	Zoning: Commercial	Number of Valid Visits: 49
		Number of Samples: 29
		Number of Valid Samples: 29
	Official Sampler	Number of Visits With Precipitation Events: 44
Elevation: 262 meters		Number of Valid Visits With Precipitation Events: 43
		Number of Anion Analyses: 26
		Number of Cation Analyses: 26
		Number of Conductivity Analyses: 27
		Number of pH Analyses: 28

	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	5.28	5.988	4.221	1.853	0.000	0.013	0.000	0.000	0.000	1.395	1.271	0.325	0.753	0.172	53.30
Minimum	3.96	0.264	0.134	0.019	0.000	0.000	0.000	0.000	0.000	0.005	0.051	0.000	0.000	0.000	3.21

Precipitation Weighted Mean

1st Quarter	5.10	4.62	2.263	1.883	0.425	0.000	0.000	0.000	0.000	0.259	0.437	0.017	0.285	0.049	21.09
2nd Quarter	11.10	4.69	1.572	1.110	0.128	0.000	0.000	0.000	0.000	0.068	0.342	0.047	0.102	0.036	12.83
3rd Quarter	12.81	4.27	2.373	1.703	0.087	0.000	0.000	0.000	0.000	0.016	0.448	0.010	0.104	0.011	26.75
4th Quarter	7.09	4.54	1.432	1.120	0.098	0.000	0.002	0.000	0.000	0.041	0.209	0.006	0.201	0.010	14.99
Annual	36.10	4.45	1.952	1.462	0.158	0.000	0.000	0.000	0.000	0.072	0.373	0.019	0.153	0.023	20.18

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	3.142	293.200	243.949	55.034	0.000	0.000	0.000	0.000	33.532	56.565	2.259	36.870	6.383
2nd Quarter													
3rd Quarter	17.642	772.225	553.981	28.429	0.000	0.000	0.000	0.000	5.110	145.630	3.342	33.721	3.658
4th Quarter	5.209	257.848	201.663	17.572	0.000	0.350	0.000	0.000	7.429	37.643	1.159	36.167	1.781
Annual	31.811	1,766.504	1,312.552	137.244	0.000	0.350	0.000	0.000	65.138	336.240	20.110	135.456	21.935

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