

# New York State Department of Environmental Conservation

## Bureau of Air Quality Surveillance

### 2006 Acid Deposition Annual Report

Station: Paul Smith's College  
 County: Franklin  
 Town: Brighton  
 Location: Paul Smith's College  
 Rts 86 & 30  
 518-327-6042  
 Elevation: 490 meters

Site #: 165501  
 AIRS #: 360330004  
 Locality: Rural, Recreational  
 Zoning: Residential, Comm

Total Precipitation (Inches of Rain): 50.14  
 Valid Sample Precipitation: 50.14  
 Number of Visits: 52  
 Number of Valid Visits: 52  
 Number of Samples: 38  
 Number of Valid Samples: 38  
 Number of Visits With Precipitation Events: 52  
 Number of Valid Visits With Precipitation Events: 52  
 Number of Anion Analyses: 36  
 Number of Cation Analyses: 34  
 Number of Conductivity Analyses: 38  
 Number of pH Analyses: 38

#### Official Sampler

	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
<b>Maximum</b>		5.74	2.904	3.079	0.450	0.000	0.017	0.000	0.000	0.205	1.262	0.111	0.861	0.068	23.90
<b>Minimum</b>		4.38	0.158	0.187	0.027	0.000	0.000	0.000	0.000	0.002	0.032	0.000	0.000	0.002	2.41

#### Precipitation Weighted Mean

<b>1st Quarter</b>	8.74	4.82	1.071	1.445	0.149	0.000	0.000	0.000	0.000	0.080	0.199	0.015	0.143	0.022	13.72
<b>2nd Quarter</b>	12.78	4.88	0.871	0.735	0.053	0.000	0.000	0.000	0.000	0.010	0.304	0.045	0.046	0.010	7.61
<b>3rd Quarter</b>	12.98	4.75	1.393	1.256	0.083	0.000	0.001	0.000	0.000	0.034	0.556	0.016	0.158	0.013	11.93
<b>4th Quarter</b>	15.64	4.74	0.847	0.776	0.155	0.000	0.000	0.000	0.000	0.021	0.239	0.002	0.146	0.007	9.66
<b>Annual</b>	50.14	4.79	1.025	0.995	0.109	0.000	0.000	0.000	0.000	0.033	0.332	0.017	0.129	0.012	10.43

#### 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
<b>1st Quarter</b>	3.373	237.765	320.723	33.144	0.000	0.000	0.000	0.000	17.668	44.093	3.261	31.729	4.927
<b>2nd Quarter</b>	4.349	282.656	238.717	17.334	0.000	0.000	0.000	0.000					
<b>3rd Quarter</b>	5.878	459.362	414.116	27.309	0.000	0.298	0.000	0.000	11.334	183.306	5.275	52.205	4.383
<b>4th Quarter</b>	7.359	336.440	308.096	61.480	0.000	0.000	0.000	0.000	8.193	94.830	0.866	58.110	2.858
<b>Annual</b>	20.960	1,316.223	1,281.652	139.267	0.000	0.298	0.000	0.000	40.399	420.885	23.951	156.898	15.399

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