

# New York State Department of Environmental Conservation

## Bureau of Air Quality Surveillance

### 2007 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

**Official Sampler**

Total Precipitation (Inches of Rain): 49.07  
 Valid Sample Precipitation: 45.64  
 Number of Visits: 51  
 Number of Valid Visits: 51  
 Number of Samples: 37  
 Number of Valid Samples: 37  
 Number of Visits With Precipitation Events: 50  
 Number of Valid Visits With Precipitation Events: 50  
 Number of Anion Analyses: 32  
 Number of Cation Analyses: 31

	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
<b>Maximum</b>	6.170	3.363	2.748	1.268	0.006	0.017	0.000	0.000	0.000	0.889	2.183	0.302	1.002	0.124	30.20
<b>Minimum</b>	4.290	0.104	0.217	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.000	0.005	0.000	3.36

**Precipitation Weighted Mean**

<b>1st Quarter</b>	10.19	4.68	0.901	1.351	0.205	0.000	0.000	0.000	0.000	0.051	0.267	0.000	0.095	0.009	12.05
<b>2nd Quarter</b>	11.07	4.74	1.175	0.870	0.176	0.000	0.001	0.000	0.000	0.052	0.533	0.031	0.154	0.021	13.90
<b>3rd Quarter</b>	10.31	4.78	1.491	0.876	0.042	0.001	0.005	0.000	0.000	0.009	0.575	0.014	0.166	0.027	11.39
<b>4th Quarter</b>	17.50	4.79	0.836	0.715	0.035	0.000	0.001	0.000	0.000	0.020	0.154	0.003	0.038	0.003	7.77
<b>Annual</b>	49.07	4.75	1.059	0.907	0.101	0.000	0.002	0.000	0.000	0.032	0.331	0.011	0.097	0.012	11.11

**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
<b>1st Quarter</b>	5.391	233.296	349.557	53.012	0.000	0.000	0.000	0.000	13.165	69.189	0.000	24.621	2.361
<b>2nd Quarter</b>	5.184	330.267	244.549	49.472	0.000	0.226	0.000	0.000	14.749	149.941	8.604	43.294	5.791
<b>3rd Quarter</b>	4.421	390.571	229.369	11.096	0.247	1.247	0.000	0.000					
<b>4th Quarter</b>	7.187	371.605	317.989	15.385	0.000	0.492	0.000	0.000	8.851	68.497	1.493	17.064	1.208
<b>Annual</b>	22.183	1325.739	1141.465	128.964	0.247	1.966	0.000	0.000	39.114	438.278	13.777	128.430	16.368