

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2005 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): 55.81
 Valid Sample Precipitation: 55.81
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 38
 Number of Valid Samples: 38
Official Sampler
 Number of Visits With Precipitation Events: 50
 Number of Valid Visits With Precipitation Events: 50
 Number of Anion Analyses: 38
 Number of Cation Analyses: 38
 Number of Conductivity Analyses: 37
 Number of pH Analyses: 38

	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	5.44	4.51	3.703	4.687	19.331	0.175	0.183	0.056	1.074	13.146	1.436	5.720	0.586	0.136	77.60
Minimum	4.25	4.76	0.156	0.000	0.026	0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.025	0.000	3.06

Precipitation Weighted Mean

1st Quarter	7.96	4.51	1.124	2.034	1.490	0.033	0.049	0.016	0.001	1.004	0.385	0.048	0.104	0.024	21.48
2nd Quarter	10.01	4.74	1.196	1.401	0.068	0.004	0.052	0.007	0.318	0.035	0.487	0.068	0.209	0.030	18.18
3rd Quarter	20.60	4.61	1.261	1.623	0.088	0.002	0.000	0.000	0.000	0.039	0.475	0.044	0.081	0.016	16.17
4th Quarter	17.24	4.76	0.680	0.580	0.250	0.000	0.003	0.000	0.005	0.035	0.152	0.251	0.058	0.014	8.17
Annual	55.81	4.66	1.050	1.319	0.334	0.006	0.017	0.004	0.059	0.175	0.364	0.113	0.100	0.019	14.99

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	6.239	227.203	411.145	301.340	6.598	9.907	3.323	0.212	203.019	77.859	9.741	21.036	4.799
2nd Quarter	4.658	303.964	356.217	17.401	0.952	13.312	1.835	80.733	8.984	123.810	17.168	53.245	7.703
3rd Quarter	12.982	659.777	849.052	45.875	1.289	0.240	0.000	0.000	20.468	248.367	22.819	42.196	8.313
4th Quarter	7.627	297.833	253.949	109.432	0.000	1.286	0.000	2.376	15.271	66.361	109.882	25.609	6.261
Annual	31.505	1,488.777	1,870.362	474.049	8.839	24.745	5.158	83.320	247.742	516.398	159.610	142.087	27.075

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