

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2005 Acid Deposition Annual Report

Station: Belleayre Mt.
 County: Ulster
 Town: Shandaken
 Location: Belleayre Mountain Cross Cou
 Ski Area

Site #: 556503
 AIRS #: 361111005
 Locality: Rural
 Zoning: Commercial

Total Precipitation (Inches of Rain): 49.96
 Valid Sample Precipitation: 49.96
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 40
 Number of Valid Samples: 40
Official Sampler
 Number of Visits With Precipitation Events: 49
 Number of Valid Visits With Precipitation Events: 49
 Number of Anion Analyses: 39
 Number of Cation Analyses: 39
 Number of Conductivity Analyses: 39
 Number of pH Analyses: 40

Elevation: 619 meters

	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	5.47	4.68	5.765	6.608	1.787	0.088	0.198	0.146	0.084	1.157	2.405	0.120	0.909	0.163	54.60
Minimum	4.09	4.09	0.104	0.105	0.000	0.000	0.000	0.000	0.000	0.002	0.009	0.000	0.000	0.000	2.11

Precipitation Weighted Mean

1st Quarter	9.61	4.68	0.905	1.355	0.159	0.024	0.059	0.012	0.001	0.117	0.204	0.028	0.144	0.014	14.64
2nd Quarter	11.89	4.74	1.080	0.929	0.077	0.001	0.001	0.000	0.004	0.036	0.342	0.021	0.099	0.017	11.65
3rd Quarter	10.19	4.45	1.226	2.098	0.100	0.006	0.000	0.000	0.000	0.060	0.341	0.022	0.072	0.030	20.58
4th Quarter	18.27	4.90	0.547	0.675	0.290	0.002	0.002	0.006	0.000	0.180	0.103	0.026	0.035	0.021	8.37
Annual	49.96	4.70	0.881	1.156	0.176	0.007	0.012	0.005	0.001	0.109	0.228	0.024	0.078	0.020	12.84

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	5.160	220.843	330.633	38.906	5.784	14.521	3.034	0.228	28.481	49.840	6.827	35.075	3.361
2nd Quarter	5.490	326.092	280.454	23.317	0.191	0.172	0.000	1.229	10.811	103.320	6.207	29.797	5.122
3rd Quarter	9.239	317.280	542.920	25.932	1.564	0.000	0.000	0.000	15.624	88.347	5.745	18.558	7.743
4th Quarter	5.920	253.615	313.379	134.792	0.974	1.011	2.922	0.000	83.414	47.877	11.901	16.052	9.559
Annual	25.810	1,117.830	1,467.386	222.947	8.513	15.703	5.955	1.457	138.331	289.383	30.682	99.482	25.785

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