

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2006 Acid Deposition Annual Report

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

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

Total Precipitation (Inches of Rain): 51.97
 Valid Sample Precipitation: 49.45
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 39
 Number of Valid Samples: 39
Official Sampler
 Number of Visits With Precipitation Events: 47
 Number of Valid Visits With Precipitation Events: 47
 Number of Anion Analyses: 34
 Number of Cation Analyses: 36
 Number of Conductivity Analyses: 37
 Number of pH Analyses: 38

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	5.38	5.489	3.362	0.503	0.000	0.000	0.000	0.000	0.000	0.288	0.917	0.157	0.324	0.042	48.50
Minimum	3.99	0.061	0.063	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	2.22

Precipitation Weighted Mean

1st Quarter	8.96	4.91	1.090	0.935	0.258	0.000	0.000	0.000	0.000	0.133	0.143	0.022	0.091	0.013	11.26
2nd Quarter	18.09	4.78	1.010	0.643	0.088	0.000	0.000	0.000	0.000	0.046	0.189	0.029	0.027	0.008	9.39
3rd Quarter	11.94	4.49	1.154	1.013	0.114	0.000	0.000	0.000	0.000	0.047	0.220	0.052	0.085	0.011	16.03
4th Quarter	12.98	4.77	0.817	0.577	0.155	0.000	0.000	0.000	0.000	0.090	0.129	0.019	0.034	0.012	9.27
Annual	51.97	4.71	1.001	0.755	0.140	0.000	0.000	0.000	0.000	0.076	0.171	0.031	0.057	0.011	11.40

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	2.820	248.089	212.816	58.683	0.000	0.000	0.000	0.000	30.246	32.581	4.898	20.750	2.848
2nd Quarter	7.628	464.044	295.272	40.317	0.000	0.000	0.000	0.000					
3rd Quarter	9.825	349.908	307.333	34.551	0.000	0.000	0.000	0.000	14.218	66.776	15.644	25.850	3.208
4th Quarter	5.612	269.358	190.153	51.224	0.000	0.000	0.000	0.000	29.554	42.691	6.327	11.328	4.075
Annual	25.884	1,331.399	1,005.574	184.774	0.000	0.000	0.000	0.000	95.246	228.877	40.383	70.188	13.999

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