

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2007 Acid Deposition Annual Report

Station: Mount Ninham
 County: Putnam
 Town: Kent
 Location: NYSDEC Region 3 Field Head
 Gypsy Trail Road
 (2 Miles West of Carmel)
 Elevation: 178 meters

Site #: 395101
 AIRS #: 360790005
 Locality: Rural, Recreational
 Zoning:

Official Sampler

Total Precipitation (Inches of Rain): 45.51
 Valid Sample Precipitation: 44.37
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 38
 Number of Valid Samples: 38
 Number of Visits With Precipitation Events: 48
 Number of Valid Visits With Precipitation Events: 48
 Number of Anion Analyses: 36
 Number of Cation 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		5.090	4.420	4.564	3.934	0.000	0.012	0.000	0.000	2.092	0.670	0.066	0.378	0.190	52.40
Minimum		3.990	0.186	0.281	0.029	0.000	0.000	0.000	0.000	0.009	0.002	0.000	0.009	0.003	3.67
<u>Precipitation Weighted Mean</u>															
1st Quarter	8.28	4.41	1.429	1.603	0.356	0.000	0.000	0.000	0.000	0.209	0.277	0.022	0.194	0.035	21.96
2nd Quarter	12.92	4.75	1.065	0.759	0.435	0.000	0.000	0.000	0.000	0.236	0.194	0.016	0.072	0.030	11.40
3rd Quarter	11.77	4.34	2.441	1.596	0.180	0.000	0.000	0.000	0.000	0.066	0.360	0.021	0.076	0.014	24.71
4th Quarter	12.54	4.70	1.025	0.940	0.711	0.000	0.003	0.000	0.000	0.387	0.146	0.016	0.048	0.040	14.01
Annual	45.51	4.53	1.477	1.155	0.437	0.000	0.001	0.000	0.000	0.229	0.238	0.018	0.088	0.030	17.60

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	8.317								43.904	58.171	4.657	40.714	7.449
2nd Quarter	5.828	349.660	249.165	142.785	0.000	0.000	0.000	0.000	77.420	63.508	5.241	23.760	9.811
3rd Quarter	13.865	729.858	477.158	53.865	0.000	0.000	0.000	0.000	19.816	107.596	6.417	22.762	4.236
4th Quarter	6.463	326.426	299.365	226.329	0.000	0.812	0.000	0.000	123.295	46.364	5.069	15.180	12.673
Annual	34.473	1706.419	1362.903	497.829	0.000	0.812	0.000	0.000	264.435	275.640	21.383	102.416	34.170