

New York State Department of Environmental Conservation
Bureau of Air Quality Surveillance
2006 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): 56.59
 Valid Sample Precipitation: 56.59
 Number of Visits: 52
 Number of Valid Visits: 52
 Number of Samples: 39
 Number of Valid Samples: 39
 Number of Visits With Precipitation Events: 51
 Number of Valid Visits With Precipitation Events: 51
 Number of Anion Analyses: 36
 Number of Cation Analyses: 36
 Number of Conductivity Analyses: 38
 Number of pH Analyses: 39

	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
Maximum	5.20	5.603	3.406	4.609	0.033	0.000	0.000	0.000	0.000	2.827	0.980	0.102	0.567	0.286	54.50
Minimum	3.03	0.160	0.124	0.015	0.000	0.000	0.000	0.000	0.000	0.007	0.013	0.000	0.000	0.003	3.29

Precipitation Weighted Mean

1st Quarter	11.27	4.00	1.440	1.222	1.684	0.000	0.000	0.000	0.000	0.881	0.191	0.036	0.108	0.090	20.63
2nd Quarter	18.39	4.50	1.296	1.003	0.283	0.000	0.000	0.000	0.000	0.170	0.316	0.030	0.072	0.030	17.14
3rd Quarter	12.29	4.31	1.749	1.694	0.181	0.001	0.000	0.000	0.000	0.078	0.323	0.018	0.088	0.021	23.12
4th Quarter	14.64	4.77	0.764	0.545	0.349	0.000	0.000	0.000	0.000	0.188	0.117	0.013	0.071	0.026	9.36
Annual	56.59	4.35	1.277	1.071	0.529	0.000	0.000	0.000	0.000	0.309	0.233	0.024	0.084	0.040	17.12

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
1st Quarter	28.783	412.330	349.791	481.998	0.000	0.000	0.000	0.000	252.084	54.541	10.347	30.995	25.850
2nd Quarter	14.858	605.583	468.729	132.302	0.000	0.000	0.000	0.000					
3rd Quarter	15.236	546.084	528.711	56.638	0.346	0.000	0.000	0.000	24.419	100.696	5.691	27.562	6.448
4th Quarter	6.306	284.230	202.835	129.791	0.000	0.000	0.000	0.000	70.079	43.652	4.956	26.375	9.697
Annual	65.182	1,848.227	1,550.067	800.729	0.346	0.000	0.000	0.000	426.050	346.449	35.033	118.657	56.215

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