

# New York State Department of Environmental Conservation

## Bureau of Air Quality Surveillance

### 2005 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): 59.57  
 Valid Sample Precipitation: 59.57  
 Number of Visits: 52  
 Number of Valid Visits: 52  
 Number of Samples: 41  
 Number of Valid Samples: 41  
 Number of Visits With Precipitation Events: 49  
 Number of Valid Visits With Precipitation Events: 49  
 Number of Anion Analyses: 41  
 Number of Cation Analyses: 39  
 Number of Conductivity Analyses: 41  
 Number of pH Analyses: 41

	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
<b>Maximum</b>	6.21	4.196	8.517	3.562	0.531	0.191	0.151	0.650	2.188	3.105	1.560	0.612	0.191	60.80	
<b>Minimum</b>	3.93	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0.016	0.000	0.000	0.000	2.54	

**Precipitation Weighted Mean**

<b>1st Quarter</b>	13.82	4.49	1.109	1.875	0.306	0.035	0.039	0.006	0.002	0.199	0.328	0.043	0.127	0.025	19.18
<b>2nd Quarter</b>	11.35	4.47	2.218	2.026	1.090	0.022	0.012	0.020	0.011	0.602	0.564	0.118	0.179	0.088	26.83
<b>3rd Quarter</b>	10.20	4.41	1.626	2.103	0.347	0.007	0.001	0.000	0.000	0.177	0.479	0.032	0.082	0.035	23.23
<b>4th Quarter</b>	24.20	4.98	0.548	0.627	0.636	0.017	0.002	0.000	0.035	0.427	0.177	0.105	0.063	0.036	8.78
<b>Annual</b>	59.57	4.60	1.181	1.436	0.596	0.020	0.012	0.005	0.017	0.369	0.338	0.082	0.102	0.043	17.11

**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
<b>1st Quarter</b>	11.557	389.269	658.121	107.345	12.137	13.839	2.228	0.673	69.879	115.261	15.133	44.696	8.603
<b>2nd Quarter</b>	9.877	639.489	584.051	314.330	6.470	3.323	5.755	3.083	173.679	162.548	33.967	51.472	25.381
<b>3rd Quarter</b>	10.072	421.380	544.953	89.797	1.715	0.260	0.000	0.000	45.890	124.063	8.178	21.211	8.957
<b>4th Quarter</b>	6.555	336.855	385.590	390.968	10.391	0.979	0.000	21.786	262.167	108.720	64.594	38.505	21.831
<b>Annual</b>	38.062	1,786.993	2,172.714	902.440	30.713	18.400	7.983	25.542	551.614	510.592	121.872	155.884	64.772

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