

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2005 Acid Deposition Annual Report

Station: Camp Georgetown
 County: Madison
 Town: Georgetown
 Location: Camp Georgetown
 Crumkill Road

Site #: 265501
 AIRS #: 360530006
 Locality: Rural
 Zoning:

Total Precipitation (Inches of Rain): 39.51
 Valid Sample Precipitation: 37.60
 Number of Visits: 43
 Number of Valid Visits: 43
 Number of Samples: 31
 Number of Valid Samples: 31
 Number of Visits With Precipitation Events: 40
 Number of Valid Visits With Precipitation Events: 40
 Number of Anion Analyses: 31
 Number of Cation Analyses: 31
 Number of Conductivity Analyses: 31
 Number of pH Analyses: 31

Elevation: 500 meters

Official Sampler

| | 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 | 6.18 | 4.58 | 10.448 | 5.912 | 2.135 | 0.038 | 0.064 | 0.190 | 0.173 | 1.341 | 2.787 | 1.313 | 0.369 | 0.064 | 46.60 |
| Minimum | 4.17 | 4.17 | 0.260 | 0.236 | 0.019 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.018 | 0.000 | 0.006 | 0.000 | 2.96 |

Precipitation Weighted Mean

| | | | | | | | | | | | | | | | |
|--------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1st Quarter | 3.98 | 4.58 | 0.682 | 1.060 | 0.186 | 0.010 | 0.049 | 0.001 | 0.000 | 0.110 | 0.168 | 0.005 | 0.087 | 0.012 | 10.94 |
| 2nd Quarter | 6.01 | 4.80 | 1.579 | 1.002 | 0.061 | 0.000 | 0.000 | 0.000 | 0.000 | 0.019 | 0.615 | 0.031 | 0.117 | 0.017 | 12.93 |
| 3rd Quarter | 12.56 | 4.42 | 2.516 | 1.950 | 0.088 | 0.003 | 0.003 | 0.000 | 0.000 | 0.022 | 0.894 | 0.019 | 0.098 | 0.017 | 20.04 |
| 4th Quarter | 16.96 | 4.79 | 0.635 | 0.706 | 0.124 | 0.002 | 0.003 | 0.007 | 0.018 | 0.071 | 0.160 | 0.049 | 0.059 | 0.015 | 7.96 |
| Annual | 39.51 | 4.62 | 1.417 | 1.189 | 0.105 | 0.003 | 0.005 | 0.003 | 0.008 | 0.049 | 0.478 | 0.033 | 0.083 | 0.016 | 12.96 |

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 | | | | | | | | | | | | | |
| 2nd Quarter | 2.440 | 241.024 | 153.026 | 9.356 | 0.000 | 0.000 | 0.000 | 0.000 | 2.907 | 93.888 | 4.753 | 17.852 | 2.528 |
| 3rd Quarter | 12.187 | 802.645 | 622.163 | 28.183 | 1.103 | 0.988 | 0.000 | 0.000 | 7.166 | 285.285 | 5.906 | 31.272 | 5.283 |
| 4th Quarter | 7.017 | 273.596 | 304.280 | 53.392 | 0.742 | 1.281 | 3.132 | 7.562 | 30.652 | 68.817 | 20.975 | 25.484 | 6.510 |
| Annual | 24.304 | 1,386.241 | 1,186.598 | 109.756 | 2.903 | 7.267 | 3.276 | 7.562 | 51.872 | 464.952 | 32.099 | 83.354 | 15.557 |

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