

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2006 Acid Deposition Annual Report

Station: Nick's Lake
 County: Herkimer
 Town: Webb
 Location: Nick's Lake Campground

Site #: 216703
 AIRS #: 360430005
 Locality: Rural
 Zoning: Agricultural

Total Precipitation (Inches of Rain): 58.16
 Valid Sample Precipitation: 58.16
 Number of Visits: 51
 Number of Valid Visits: 51
 Number of Samples: 45
 Number of Valid Samples: 45
Official Sampler
 Number of Visits With Precipitation Events: 50
 Number of Valid Visits With Precipitation Events: 50
 Number of Anion Analyses: 40
 Number of Cation Analyses: 41
 Number of Conductivity Analyses: 43
 Number of pH Analyses: 44

Elevation: 525 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	5.62	4.67	3.857	5.124	0.721	0.036	0.017	0.000	0.000	0.509	1.007	0.165	0.716	0.119	63.50
Minimum	3.84	4.75	0.118	0.169	0.013	0.000	0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	2.41

Precipitation Weighted Mean

1st Quarter	12.26	4.67	1.231	1.771	0.254	0.004	0.000	0.000	0.000	0.147	0.224	0.040	0.158	0.024	17.86
2nd Quarter	13.01	4.66	0.805	0.680	0.062	0.000	0.000	0.000	0.000	0.012	0.274	0.017	0.060	0.011	11.63
3rd Quarter	15.00	4.62	1.195	0.852	0.047	0.000	0.000	0.000	0.000	0.014	0.286	0.010	0.099	0.007	12.11
4th Quarter	17.89	4.75	0.872	0.775	0.062	0.000	0.001	0.000	0.000	0.030	0.173	0.006	0.062	0.009	9.65
Annual	58.16	4.67	1.021	0.997	0.101	0.001	0.000	0.000	0.000	0.049	0.237	0.017	0.094	0.013	12.62

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	6.699	383.281	551.405	79.241	1.120	0.000	0.000	0.000	45.670	69.613	12.346	49.357	7.545
2nd Quarter	7.261	266.135	224.553	20.632	0.000	0.000	0.000	0.000	4.087	90.380	5.546	19.777	3.716
3rd Quarter	9.305	455.148	324.535	17.808	0.000	0.000	0.000	0.000	5.250	109.100	3.977	37.632	2.829
4th Quarter	8.096	396.407	352.097	28.274	0.000	0.377	0.000	0.000	13.442	78.706	2.636	28.293	4.249
Annual	31.361	1,500.971	1,452.590	145.955	1.120	0.377	0.000	0.000	68.449	347.800	24.504	135.058	18.338

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