

New York State Department of Environmental Conservation

Bureau of Air Quality Surveillance

2005 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): 47.06
 Valid Sample Precipitation: 47.06
 Number of Visits: 50
 Number of Valid Visits: 50
 Number of Samples: 42
 Number of Valid Samples: 42
Official Sampler
 Number of Visits With Precipitation Events: 42
 Number of Valid Visits With Precipitation Events: 42
 Number of Anion Analyses: 42
 Number of Cation Analyses: 41
 Number of Conductivity Analyses: 42
 Number of pH Analyses: 42

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	5.67	8.654	6.538	1.075	0.176	0.205	0.172	0.038	0.698	1.741	0.239	0.368	0.099	64.00	
Minimum	3.98	0.025	0.050	0.000	0.000	0.000	0.000	0.000	0.005	0.023	0.000	0.000	0.000	1.93	

Precipitation Weighted Mean

1st Quarter	8.55	4.34	1.132	2.162	0.420	0.037	0.062	0.007	0.000	0.240	0.368	0.061	0.108	0.015	21.47
2nd Quarter	6.73	4.71	1.239	1.031	0.090	0.001	0.012	0.017	0.007	0.040	0.452	0.033	0.088	0.015	12.97
3rd Quarter	13.23	4.52	1.213	1.516	0.057	0.000	0.000	0.000	0.000	0.019	0.556	0.016	0.114	0.015	14.06
4th Quarter	18.55	4.76	0.774	0.788	0.096	0.010	0.002	0.012	0.005	0.054	0.168	0.015	0.050	0.011	9.68
Annual	47.06	4.58	1.029	1.277	0.143	0.011	0.014	0.009	0.003	0.082	0.332	0.028	0.081	0.013	13.52

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	9.948	245.932	469.425	91.140	7.930	13.527	1.581	0.000	52.112	79.917	13.345	23.483	3.232
2nd Quarter	3.353	211.763	176.231	15.399	0.128	2.099	2.850	1.135	6.774	77.210	5.648	15.028	2.559
3rd Quarter	10.201	407.763	509.483	19.032	0.000	0.000	0.000	0.000					
4th Quarter	8.327	364.585	371.506	45.077	4.839	0.952	5.730	2.452	25.667	79.368	7.206	23.700	5.034
Annual	31.830	1,230.043	1,526.646	170.648	12.896	16.577	10.161	3.587	91.064	423.436	31.713	100.449	15.700

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