



Daniel Smiley Research Center
MOHONK PRESERVE
 Mohonk Lake, New Paltz, NY 12561

Natural Science Note No. 624-10

Weather: February, 2010

From records of the Mohonk Lake Cooperative Weather Station
 Established January, 1896

	114-year average 1896-2009	Actual This Year	Deviation from Average
Temperature (°F)	26.0	22.1	-3.9
Precipitation (in.)	3.27	6.38	+3.11
Snow (in.)	14.6	52.8	+38.2

- Highest temperature: 41°F on the 20th
- Lowest temperature: 9°F on the 7th
- Fog: 6 days (16th, 23rd-25th, 27th, 28th)
- Ice Pellets: 1 day (26th)
- Glaze: 1 day (26th)
- Misting: 1 day (24th)
- Haze: 5 days (2nd, 3rd, 5th, 19th, 22nd)
- Rime: 3 days (16th, 24th, 25th)
- Solar Halo: 2 days (5th, 18th [partial])
- Sun Dog: 3 days (1st, 5th, 11th)
- Lake Ice: 10-11 ½ in. thick on the 5th.
- Snow on Ground: 1 in. on the 1st, to 2 in. on the 3rd, to 4 in. on the 10th, to 2 in. on the 15th, increased to 7 in. on the 16th, decreased to 4 in. on the 20th, increased to 39 in. on the 26th, decreased to 36 in. on the 28th.
- Precipitation pH: 4.90 (n=4)

Summary

Temperature for the month was 3.9°F below the 114 year average. Precipitation for the month was 6.38 in., 95% above normal, ranking this **4th wettest February** on record (see table on Page 2). Snowfall for the month was 52.8 in., 260% above normal, ranking this the **snowiest February** on record (see table on Page 2). A significant snowfall event from the 23rd to the 27th, ranks as the **largest snowstorm** on record (see table on Page 3). Daily records were set on three days, the 24th, 26th and 27th. On the 24th, 9.6 in. of snow was a record (previous high was 6.4 in. in 1963). On the 26th three records were set: precipitation, 2.24 in. (previous high was 1.00 in. in 1929), snowfall 17.9 in. (previous high was 6.0 in. set in 1927 and 1933, this also ranks as the 8th snowiest day on record, see table on Page 3), and snow on ground 39 in. (previous high was 29 in. in 1978). On the 27th, 38 in. of snow on ground set a record for that date (previous high was 29 in. in 1978).

Paul C. Huth, Director of Research
 John E. Thompson, Natural Resources Specialist

Highest Monthly Precipitation: February

Year	Precipitation (in.)	Rank
2008	10.09	1
1910	7.06	2
1981	6.69	3
2010	6.38	4
1926	6.33	5
1909	6.28	6
1900	6.00	7
1971	5.74	8
1920	5.70	9
1903	5.56	10

Greatest Snowfall: February

Year	Snowfall (in.)	Rank
2010	52.8	1
1972	35.9	2
1962	29.5	3
1920	29.1	4
1931	28.0	5
1940	27.3	6
1902	27.0	7
1934	27.0	8
1964	27.0	9
1967	26.7	10

Largest Snow Storms

Date Range	Snowfall (in.)	Rank
2/23-2/27/2010	43.5	1
3/18-3/23/1977	31.7	2
3/28-3/31/1984	24.6	3
12/30-31/2000	24.5	4
12/14/1915	24.0	5
12/6-12/8/1996	24.0	6
12/15-12/18/1981	23.0	7
1/24-1/25/1905	22.0	8
3/5-3/7/1967	20.5	9
1/15/1927	20.0	10

Greatest Daily Snowfall

Date	Snowfall (in.)	Rank
12/14/1915	24.0	1
3/29/1984	21.6	2
1/25/1905	20.0	3
1/15/1927	20.0	4
2/4/1926	19.0	5
12/30/2000	19.0	6
3/2/1914	18.0	7
2/26/2010	17.9	8
11/25/1971	17.5	9
4/8/1956	17.0	10

MOHONK LAKE COOPERATIVE WEATHER STATION

Summary for February 2010

Compiled by the MOHONK PRESERVE, Mohonk Lake, New Paltz, NY 12561

	Months	114-year Average (1896-2009)	Actual this Year	Deviation from Average
Temperature (°F)				
Month		26.0	22.1	-3.9
Season	Nov-Feb	30.0	30.6	+0.6
Precipitation (in.)				
Month		3.27	6.38	+3.11
Season	Nov-Feb	14.45	16.89	+2.44
Snowfall (in.)				
Month		14.6	52.8	+38.2
Season	Nov-Feb	44.7	80.2	+35.5

Highest temperature: 41°F on the 20th

Lowest temperature: 9°F on the 7th

This month last year:

Temperature 30.0°F

Precipitation 1.33 in. (9th driest)

Snow 7.6 in.