



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

Natural Science Note No. 648-11

Weather: October, 2011

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

	115-year average 1896-2010	Actual This Year	Deviation from Average
Temperature (°F)	51.8	52.3	+0.5
Precipitation (in.)	3.93	6.38	+2.45
Snow (in.)	0.1	17.3	+17.2

Highest temperature: 77°F on the 9th and 10th

Lowest temperature: 27°F on the 30th

Fog: 7 days (4th, 13th, 14th, 19th, 20th, 27th, 29th)

Glaze: 1 day (27th)

Thunder: 2 days (2nd, 14th)

Misting: 2 days (13th, 14th)

Haze: 11 days (4th, 8th-12th, 21st, 23rd-25th, 31st)

Rainbow: 1 day (4th) double rainbow

Solar Halo: 1 day (10th) partial

Sun Dog: 2 days (10th, 23rd)

Lunar Halo: 1 day (10th)

Precipitation pH: 5.06 (n=12)

Summary

Temperature for the month was 2.4°F above the 115 year average. First frost occurred on the 27th, 6 days later than the 115 year average. The 2011 growing season was 187 days, 6 days longer than the 115 year average. Precipitation for the month was 6.38 in., 62% above normal. On October 20th, the year-to-date precipitation total surpassed the previous mark of 68.60 in. set in 1996. The 70.94 in. of precipitation ranks **2011 as the wettest in 116 years of record**. Snowfall for the month was 17.3 in., **17,200% above normal**, ranking this **the snowiest October on record** (see table and graph on Page 2).

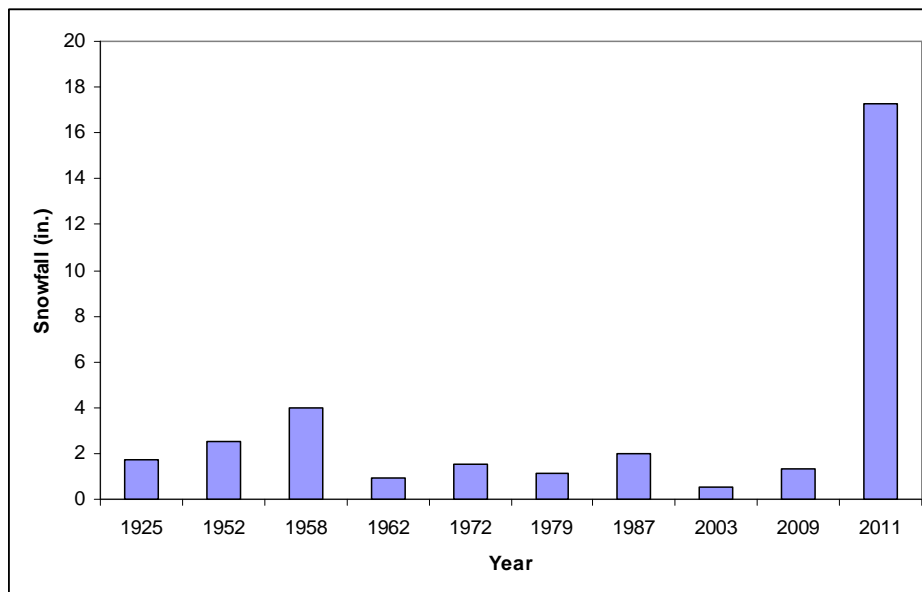
MOHONK LAKE COOPERATIVE WEATHER STATION

Actually, 17.3 inches of snowfall is 2.1 inches greater than the average snowfall for January (the month of the year with the highest average snowfall)! Sixteen days of measureable precipitation were recorded (73 year average is 9 days). Daily snowfall record was set on three days: the 28th, 1.9 inches (previous high was 0.2 inches in 1952); 29th, 4.8 inches (previous high was 2.3 inches in 1952) and the 30th, 10.6 inches (previous high was 1.7 inches in 1925). Daily snow on ground records were broken on four days: 28th, 1 inch (previous high was merely a trace); 29th, 6 inches (previous high was merely a trace); 30th, 13 inches (first measurable snow on ground ever recorded) and the 31st, 7 inches (first measurable snow on ground ever recorded).

Shanan F. Smiley, Conservation Biologist/Collections Manager
John E. Thompson, Director of Conservation Science

Highest Monthly Snowfall: October

Year	Snowfall	Rank
2011	17.3	1
1958	4	2
1952	2.5	3
1987	2	4
1925	1.7	5
1972	1.5	6
2009	1.3	7
1979	1.1	8
1962	0.9	9
2003	0.5	10



MOHONK LAKE COOPERATIVE WEATHER STATION

Summary for October 2011

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

	Months	115-year Average (1896-2010)	Actual this Year	Deviation from Average
Temperature (°F)				
	Month	51.8	52.3	+0.5
Season	Jan-Oct	51.0	53.1	+2.1
Precipitation (in.)				
	Month	3.93	6.38	+2.45
Season	Jan-Oct	40.26	70.94	+30.68
Snow				
	Month	0.1	17.3	+17.2
Season	Oct	0.1	17.3	+17.2

Highest temperature: 77°F on the 9th and 10th

Lowest temperature: 27°F on the 30th

This month last year:

Temperature 52.9°F

Precipitation 6.20 in.