



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

Natural Science Note No. 666-12

Annual Weather Summary for 2012

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

Part I: Summary of 117th Year: 2012

Table 1. Annual Deviation from 116-Year Average.

	116-year average 1896-2010	Actual This Year	Deviation from Average
Temperature (°F)	48.4	52.6	+4.2
Precipitation (in.)	48.22	47.66	-0.56
Snow (in.)	59.5	37.0	-22.5

Table 2. Monthly Deviation from 116-Year Average

	Temperature (°F)			Precipitation (in.)			Snow (in.)		
	1896- 2011	2012	Deviation	1896- 2011	2012	Deviation	1896- 2011	2012	Deviation
January	24.8	30.0	5.2	3.47	3.54	0.07	15.2	8.3	-6.9
February	26.0	35.0	9.0	3.31	1.66	-1.65	14.9	11.5	-3.4
March	34.9	47.9	13.0	4.08	1.68	-2.40	11.1	2.3	-8.8
April	46.9	50.3	3.4	4.13	2.94	-1.19	2.9	0.0	-2.9
May	58.0	63.6	5.6	4.17	5.29	1.12	0.1	0.0	-0.1
June	66.3	67.8	1.5	4.07	3.54	-0.53	0.0	0.0	0.0
July	70.8	75.1	4.3	4.47	5.04	0.57	0.0	0.0	0.0
August	69.0	72.2	3.2	4.47	4.37	-0.10	0.0	0.0	0.0
September	62.2	62.8	0.6	4.37	7.43	3.06	0.0	0.0	0.0
October	51.7	53.4	1.7	3.95	5.51	1.56	0.3	0.0	-0.3
November	40.4	38.7	-1.7	3.79	0.96	-2.83	3.2	2.4	-0.8
December	28.8	33.8	5.0	3.91	5.7	1.79	11.6	12.5	0.9
Year	48.4	52.6	4.2	48.22	47.66	-0.56	59.5	37	-22.5

PART II: Extremes for 2012

Temperature

Highest Maximum	94°F	21 June
Lowest Minimum	5°F	4, 15, and 16 January

Precipitation

Greatest Rainfall , 24 hrs.	2.54 in.	28 August
Greatest Snowfall , 24 hrs.	7.2 in.	27 December
Greatest Snow on Ground	11 in.	29, 30 December
Average Annual pH =	5.01	(n=103)

Mohonk Lake

Ice Out	16 March	74-yr. average	7 April
Ice Over		70-yr. average	1 January
Height of Lake: Highest	-8 1/2 in.	3 March and 5 May	
Lowest	-26 in.	1 December	

Frost

Last Frost: 28 April	(31°F)	115-yr. average	25 April
First Frost: 5 November	(29°F)	115-yr. average	22 October
Length of Growing Season: 190 days		113-yr. average	180 days

Highlights

The year 2012 was the warmest on record. February, March, May, July, and August each ranked within the top 10 warmest months on record.

November ranked as the 6th driest on record.

13 daily temperature records (highest minimum, highest maximum, lowest minimum, lowest maximum) and 1 daily precipitation record were set or tied. (See February, March, June, and September summaries for details).

John E. Thompson, Director of Conservation Science
Ethan M. Pierce, Conservation Specialist

Top Ten Warmest Years

Year	Temperature (°F)
2012	52.6
1998	52.2
2006	52.0
1999	51.6
2001	51.6
2002	51.6
2010	51.5
1990	51.3
2011	51.3
1991	51.2