



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

Natural Science Note No. 588-07

Annual Weather Summary for 2007

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

Part I: Summary of 112th Year : 2007

Table 1. Annual Deviation from 111-Year Average.

	111-year average 1896-2006	Actual This Year	Deviation from Average
Temperature (F)	48.3	50.1	+1.8
Precipitation (in.)	47.77	51.14	+3.40
Snow (in.)	59.0	63.3	+4.3

Table 2. Monthly Deviation from 111-Year Average.

	Temperature (F)			Precipitation (in.)			Snow (in)		
	1896- 2006	2007	Deviation	1896- 2006	2007	Deviation	1896- 2006	2007	Deviation
Jan	24.7	30.9	+6.2	3.50	3.66	+0.16	15.3	2.0	-13.3
Feb	25.9	21.5	-4.4	3.23	2.80	-0.43	14.5	17.4	+2.9
Mar	34.8	35.6	+0.8	3.96	5.66	+1.70	11.3	18.3	+7.0
Apr	46.7	45.0	-1.7	4.11	8.33	+4.22	3.0	2.1	-0.9
May	58.0	62.2	+4.2	4.25	0.71	-3.54	0.1	0.0	-0.1
Jun	66.2	69.9	+3.7	4.01	3.01	-1.00	-	-	-
Jul	70.7	71.7	+1.0	4.49	4.44	-0.05	-	-	-
Aug	68.9	71.5	+2.6	4.34	4.79	+0.45	-	-	-
Sep	62.1	66.1	+4.0	4.35	1.33	-3.02	-	-	-
Oct	51.6	59.1	+7.5	3.88	5.75	+1.87	0.1	0.0	-0.1
Nov	40.4	39.0	-1.4	3.83	3.75	-0.08	3.3	1.9	-1.4
Dec	28.8	29.1	+1.3	3.82	6.91	+3.09	11.4	21.6	+10.2
YEAR	48.3	50.1	+1.8	47.77	51.14	+3.40	59.0	63.3	+4.3

PART II: Extremes for 2007

Temperature

Highest Maximum	95 F	26 June
Lowest Minimum	-2 F	9 March

Precipitation

Greatest Rainfall , 24 hrs.	3.61 in.	16 April
Greatest Snowfall , 24 hrs.	9.6 in.	17 March
Greatest Snow on Ground	16 in.	20 March
Average Annual pH =	4.55	(n=103)

Mohonk Lake

Ice Out	16 April	73-yr. average	7 April
Ice Over	23 January	70-yr. average	1 January
Height of Lake : Highest	+1 ¾ in.		16 April
Lowest	-37 ½ in.		19-26 October

Frost

Last Frost: 15 April	(31 F)	110-yr. average	25 April
First Frost: 8 November	(29 F)	110-yr. average	21 October
Length of Growing Season: 207 days		110-yr. average	179 days

Highlights

Average daily temperature for the year, 50.1°F, was 1.8°F above normal. May was the 10th warmest on record. June was the 6th warmest on record, with the highest maximum temperature on June 26th was set at 95 F (previous high was 93 F in 2003 and 2005). September was the 10th warmest on record. October was the 3rd warmest on record. The growing season was 207 days long, the 6th longest growing season on record.

April was the 6th wettest on record, with 8.33 in. of precipitation. May was the driest on record, with 0.71 in. of rain.

The first measurable snowfall of the 2006-07 winter occurred on the 19th, the latest first measurable snowfall on record (previous latest snowfall was 1 January, which occurred in 1899). Mohonk Lake ice over occurred on the 23rd, 22 days later than the 70 year average, the second latest ice over date, the latest being on 30 January 1994.

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