



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

Natural Science Note No. 636-10

Annual Weather Summary for 2010

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

Part I: Summary of 115th Year: 2010

Table 1. Annual Deviation from 114-Year Average.

	114-year average 1896-2008	Actual This Year	Deviation from Average
Temperature (°F)	48.4	51.2	+2.8
Precipitation (in.)	47.95	48.66	+0.71
Snow (in.)	59.1	79.9	+20.8

Table 2. Monthly Deviation from 114-Year Average.

	Temperature (°F)			Precipitation (in.)			Snow (in)		
	1896- 2009	2010	Deviation	1896- 2009	2010	Deviation	1896- 2009	2010	Deviation
Jan	24.8	25.9	1.1	3.49	2.70	-0.79	15.2	10.1	-5.1
Feb	26.0	22.1	-3.9	3.27	6.38	3.11	14.6	52.8	+38.2
Mar	34.9	42.7	7.8	4.02	8.25	4.23	11.2	2.3	-8.9
Apr	46.8	55.4	8.6	4.13	2.01	-2.12	3.0	T	-3.0
May	58.0	63.4	5.4	4.17	2.43	-1.74	0.1	0.1	-0.1
Jun	66.0	70.5	4.5	4.07	3.11	-0.96	–	–	–
Jul	70.7	76.7	6.0	4.52	1.49	-3.03	–	–	–
Aug	69.0	71.6	2.6	4.36	5.30	0.94	–	–	–
Sep	62.1	64.8	2.7	4.32	3.44	-0.88	–	–	–
Oct	51.8	52.9	1.1	3.91	6.20	2.29	0.1	T	-0.1
Nov	40.3	41.4	1.1	3.79	3.26	-0.53	3.3	0.1	-3.2
Dec	28.8	26.4	-2.4	3.90	4.09	0.19	11.6	14.5	2.9
YEAR	48.4	51.2	2.8	47.95	48.66	0.71	59.1	79.9	20.8

PART II: Extremes for 2010

Temperature

Highest Maximum	100°F	6, 7 July
Lowest Minimum	0°F	30 January

Precipitation

Greatest Rainfall , 24 hrs.	3.61 in.	1 October
Greatest Snowfall , 24 hrs.	17.9 in.	26 February
Greatest Snow on Ground	39 in.	26 February
Average Annual pH =	4.89	(n=89)

Mohonk Lake

Ice Out	30 March	74-yr. average	7 April
Ice Over	8 January and 19 December	70-yr. average	1 January
Height of Lake : Highest	-2 in.		26, 27 February
Lowest	-30 ½ in.		25-27 September

Frost

Last Frost: 10 May	(32°F)	115-yr. average	25 April
First Frost: 1 November	(28°F)	115-yr. average	22 October
Length of Growing Season: 175 days		113-yr. average	180 days

Highlights

Average daily temperature for the year, 51.2°F, was 2.8°F above normal, the 7th warmest year on record (see table and graph on Page 2). April ranked as the warmest April on record, and four other months ranked in the top ten warmest on record. March was the 4th warmest, May was the 4th warmest, June was the 6th warmest, and July was the 2nd warmest. Daily high temperature readings were set on 10 days: March 19th (67°F), April 7th (86°F), April 8th (85°F), May 1st (85°F), May 26th (94°F), May 27th (91°F), May 31st (88°F), July 5th (97 °F), July 6th (100°F), July 7th (100°F) One highest minimum temperature reading was set, June 5th (80°F).

Precipitation for the year was close to average (1% above), with 6 months wetter than average and 6 months drier than average. February ranked as the 4th wettest and March was the 7th wettest. Daily high precipitation records were set on February 26th (2.24 in.) and October 1st (3.61 in.). July was the 9th driest July on record.

The largest snowstorm on record hit on February 23rd-27th, dropping 43.5 in. of snow. February ranked as the snowiest on record with 52.8 in. of snow and daily snowfall records were set on two days: February 24th (9.6 in. of snow) and February 27th (17.9 in.). Snow on ground records were set on February 26th (39 in.), February 27th (38 in.) and March 1st (32 in.).

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

Highest Yearly Temperature

Year	Temperature (°F)	Rank
1998	52.0	1
2006	51.9	2
1999	51.5	3
2001	51.5	4
2002	51.5	5
1990	51.2	6
2010	51.2	7
1949	51.1	8
1991	51.1	9
1953	50.7	10

