



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

Natural Science Note No. 621-09

Annual Weather Summary for 2009

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

Part I: Summary of 114th Year : 2009

Table 1. Annual Deviation from 114-Year Average.

	113-year average 1896-2008	Actual This Year	Deviation from Average
Temperature (°F)	48.3	49.3	+1.0
Precipitation (in.)	47.85	60.99	+13.14
Snow (in.)	59.1	47.6	-11.5

Table 2. Monthly Deviation from 114-Year Average.

	Temperature (°F)			Precipitation (in.)			Snow (in)		
	1896- 2008	2009	Deviation	1896- 2008	2009	Deviation	1896- 2008	2009	Deviation
Jan	24.8	20.5	-4.3	3.49	3.46	-0.03	15.2	19.1	+3.9
Feb	25.9	30.0	+4.1	3.29	1.33	-1.96	14.6	7.6	-7.0
Mar	34.9	38.2	+3.3	4.02	3.42	-0.60	11.3	2.3	-9.0
Apr	46.7	51.6	+4.9	4.14	3.00	-1.14	3.0	T	-3.0
May	58.0	59.3	+1.3	4.17	5.43	+1.26	0.1	0.0	-0.1
Jun	66.2	65.5	-0.7	4.07	13.66	+9.59	-	-	-
Jul	70.8	68.9	-1.9	4.52	7.68	+3.16	-	-	-
Aug	68.9	71.6	+2.7	4.36	8.02	+3.66	-	-	-
Sep	62.2	61.3	-0.9	4.32	2.04	-2.28	-	-	-
Oct	51.8	49.5	-2.3	3.91	5.14	+1.23	0.1	1.3	+1.2
Nov	40.3	45.7	+5.4	3.79	1.51	-2.28	3.3	0.0	-3.3
Dec	28.8	28.6	-0.2	3.90	6.30	+2.4	11.6	17.3	+5.7
YEAR	48.3	49.3	+1.0	47.85	60.99	+13.14	59.1	47.6	-11.5

PART II: Extremes for 2009

Temperature

Highest Maximum	91°F	25 April
Lowest Minimum	-2°F	17 January

Precipitation

Greatest Rainfall , 24 hrs.	2.72 in.	30 July
Greatest Snowfall , 24 hrs.	7.6 in.	9 December
Greatest Snow on Ground	19 in.	3, 4 February
Average Annual pH =	4.63	(n=114)

Mohonk Lake

Ice Out	30 March	73-yr. average	7 April
Ice Over	none	70-yr. average	1 January
Height of Lake : Highest	+1 ¾ in.		14 June
Lowest	-12 ¾ in.		25-27 January

Frost

Last Frost: 13 April	(27°F)	113-yr. average	25 April
First Frost: 15 October	(31°F)	113-yr. average	21 October
Length of Growing Season: 185 days		113-yr. average	180 days

Highlights

Average daily temperature for the year, 49.3°F, was 1.0°F above normal. Two months ranked as some of the warmest on record: April was the 9th warmest on record and November was the 8th warmest. The two warmest days of 2009 occurred in April, the 25th at 91°F and the 28th at 90°F. Highest daily maximum temperature readings were set on: February 11th (56°F), April 25th (91°F), April 26th (88°F), and April 28 (90°F).

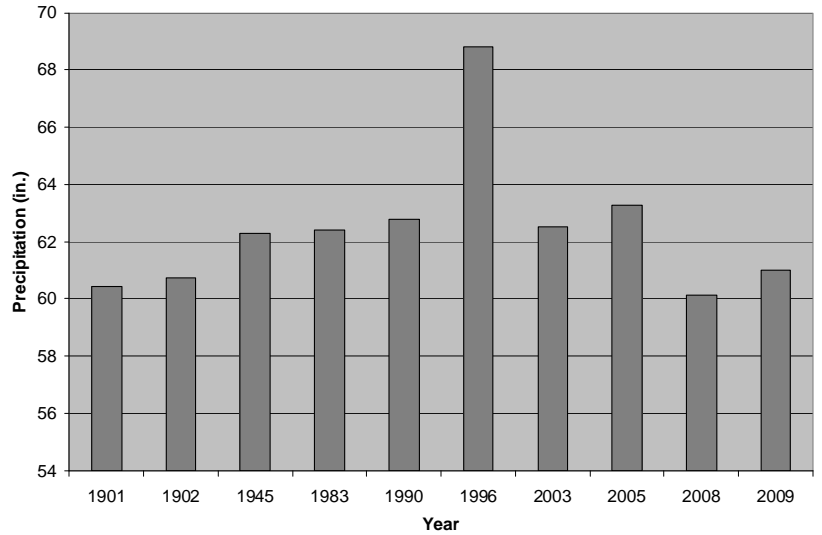
Although six months of the year recorded below average rainfall (including the 9th driest February), total precipitation for the year, 60.99 in., ranked this as the 7th wettest year in the 114 years of record (see table and graph on Page 3). The wettest June on record (13.66 in.), was the 6th wettest when compared to all months in the 114 years of record. June-August precipitation was 29.36 in., 129% above average, ranking this the wettest summer on record (see table and graph on Page 3). Daily rainfall records were set on four days, June 15th with 2.53 in., June 18th with 2.51 in., August 23rd with 2.41 in., and December 27th with 1.26 in.

Rare measurable October snowfall on October 15th (0.7 in.) and October 16th (0.6 in.) was followed by a total lack of frozen precipitation during November, one of only 13 snowless Novembers on record.

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

Highest Yearly Precipitation

Year	Precipitation (in.)	Rank
1996	68.80	1
2005	63.26	2
1990	62.79	3
2003	62.53	4
1983	62.41	5
1945	62.29	6
2009	60.99	7
1902	60.75	8
1901	60.43	9
2008	60.12	10



Highest Summer Precipitation

Year	Precipitation (in.)	Rank
2009	29.36	1
1903	27.71	2
1928	26.9	3
1938	23.06	4
1945	20.82	5
1897	19.22	6
1990	18.93	7
1915	18.83	8
1902	18.18	9
1975	18.13	10

