



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

Natural Science Note No. 734-17
 From records of the Mohonk Lake Cooperative Weather Station
 Established January, 1896

Annual Weather Summary for 2017

Part I: Summary of 122nd Year: 2017

Records Taken this Year: 365

Total to Date = 44,538

Table 1. Annual Deviation from 121-Year Average

	121-year average 1896-2016	Actual This Year	Deviation from Average
Temperature (°F)	48.4	51.1	+2.7
Precipitation (in.)	49.04	43.59	-5.45
Snow (in.)	59.18	54.40	-4.81

Table 2. Monthly Deviation from 121-Year Average

	Temperature (°F)			Precipitation (in.)			Snow (in.)		
	1896- 2016	2017	Deviation	1896- 2016	2017	Deviation	1896- 2016	2017	Deviation
January	24.8	31.8	+7.0	3.46	4.14	+0.68	14.97	7.80	-7.17
February	26.0	36.0	10.0	3.31	2.85	-0.46	15.09	17.60	+2.51
March	35.0	33.4	-1.6	4.83	4.29	-0.54	10.90	20.30	+9.40
April	47.0	54.4	+7.4	4.10	4.68	+0.58	2.91	0.00	-2.91
May	58.2	57.3	-0.90	4.15	6.20	+2.05	0.14	0.00	-0.14
June	66.3	67.9	+1.6	4.19	3.10	-1.09	0.00	0.00	0.00
July	70.9	71.5	+0.6	4.53	3.76	-0.77	0.00	0.00	0.00
August	69.1	69.3	+0.2	4.43	3.14	-1.29	0.00	0.00	0.00
September	62.3	65.3	+3.0	4.36	2.33	-2.03	0.00	0.00	0.00
October	51.8	58.7	+6.9	3.96	6.18	+2.22	0.28	0.00	-0.28
November	40.5	40.2	-0.3	3.77	0.55	-3.22	3.27	0.00	-3.27
December	29.0	27.7	-1.3	3.95	2.37	-1.58	11.62	8.70	-2.92
Year	48.4	51.1	+2.7	49.04	43.59	-5.45	59.18	54.4	-4.81

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Part II: Extremes for 2017

Temperature

Highest Maximum	91°F	May 18
Lowest Maximum	16°F	Dec. 29, Dec. 31
Highest Minimum	81°F	July 19
Lowest Minimum	-4°F	Dec. 29

Precipitation

Greatest Rainfall, 24 hrs.	2.72 in.	Oct. 30
Greatest Snowfall, 24 hrs.	16.5 in.	Mar. 14
Greatest Snow on Ground	18 in.	Mar. 14
Average Annual Precipitation pH	4.86	(n=120)

Mohonk Lake

Lowest Surface pH:	5.35	Dec. 23
Highest Surface pH:	7.51	Aug. 11
Average Surface pH:	6.81	
Warmest Surface Temperature:	85°F	May 20
Ice Out	Apr. 7	<i>2 days later than average</i>
Ice Over for <u>2017</u>	Dec. 27	<i>4 days later than average</i>
Records Taken in Year	383	Total = 23,938

Frost

Last Frost:	May 10	16 days later than average
First Frost:	Nov. 8	17 days later than average
Length of Growing Season:	182 days	2 days longer than average

Highlights:

Temperature for the year was 2.72°F above average. This was the 11th warmest year on record. Precipitation was 5.45 inches below average. Snowfall was 4.81 inches below average.

2017 was marked by a number of notable monthly extremes in our 121-year records:

- 10th Warmest January
- 1st Warmest February
- 2nd Warmest April
- 4th Warmest October
- 2nd Driest November