



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

Natural Science Note No. 759-19

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

Annual Weather Summary for 2019

Part I: Summary of 124th Year: 2019

Records Taken this Year: 365

Total to Date = 45,268

Table 1. Annual Deviation from 123-Year Average

	123-year average 1896-2018	Actual This Year	Deviation from Average
Temperature (°F)	48.4	49.9	+1.5
Precipitation (in.)	49.18	51.53	+2.35
Snow (in.)	59.31	43.83	-15.48

Table 2. Monthly Deviation from 123-Year Average

	Temperature (°F)			Precipitation (in.)			Snow (in.)		
	1896-2018	2019	Deviation	1896-2018	2019	Deviation	1896-2018	2019	Deviation
January	24.9	25.1	+0.2	3.48	6.52	+3.04	14.89	14.70	-0.19
February	26.2	29.5	+3.3	3.35	2.66	-0.69	15.21	8.70	-6.51
March	35.0	35.9	+0.9	4.82	1.83	-2.99	11.11	5.10	-6.01
April	47.0	50.6	+3.6	4.11	4.63	+0.52	2.89	0.00	-2.89
May	58.2	57.6	-0.60	4.16	6.51	+2.35	0.14	0.00	-0.14
June	66.3	67.1	+0.8	4.16	3.38	-0.78	0.00	0.00	0.00
July	71.0	75.2	+4.2	4.56	2.94	-1.62	0.00	0.00	0.00
August	69.1	70.5	+1.4	4.43	5.55	+1.12	0.00	0.00	0.00
September	62.3	64.8	+2.5	4.41	1.56	-2.85	0.00	0.00	0.00
October	51.9	54.0	+2.1	3.98	7.45	+3.47	0.27	0.00	-0.27
November	40.4	37.3	-3.1	3.78	2.56	-1.22	3.30	0.01	-3.29
December	29.0	31.6	+2.6	3.94	5.94	+2.00	11.50	15.32	+3.82
Year	48.4	49.9	+1.5	49.18	51.53	+2.35	59.31	43.83	-15.48

Part II: Extremes for 2019

Temperature

Highest Maximum	93°F	July 21
Lowest Maximum	14°F	Jan. 31
Highest Minimum	75°F	July 20, 21
Lowest Minimum	-9°F	Jan. 31

Natalie Feldsine, Research Collections and Citizen Science Coordinator
Elizabeth Long, Director of Conservation Science



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Precipitation

Greatest Rainfall, 24 hrs.	2.79 in.	Oct. 17
Greatest Snowfall, 24 hrs.	6.0 in.	Jan. 29, Dec. 2
Greatest Snow on Ground	13 in.	Dec. 3
Average Annual Precipitation pH	4.67	(n=107)

Mohonk Lake

Lowest Surface pH:	5.70	May 30
Highest Surface pH:	7.50	June 9
Average Surface pH:	6.65	
Warmest Surface Temperature:	83°F	July 21
Ice Out	Apr. 2	<i>3.5 days later than average</i>
Ice Over for <u>2019</u>	N/A	<i>Did not ice over at the end of 2019</i>
Records Taken in Year	296	Total = 24,544

Frost

Last Frost:	April 27	3 days earlier than average
First Frost:	Nov. 8	17 days later than average
Length of Growing Season:	195 days	Average is 180 days

Highlights:

Temperature for the year was 1.5°F above average. Precipitation was 2.35 inches above average. Snowfall was 15.48 inches below average.

2019 was marked by three notable monthly extremes in our 123-year records:

- 10th Wettest January
- 8th Warmest July
- 10th Wettest October