

Daniel Smiley Research Center MOHONK PRESERVE

Mohonk Lake, New Paltz, NY 12561

Natural Science Note No. 823-2024

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

Weather Summary for December, 2024

	127-year average 1896-2023	Actual This Year	Deviation from Average
Temperature (°F)	29.2	28.9	-0.3
Precipitation (in.)	4.01	5.01	+1.0
Snow (in.)	11.36	11	-0.36

Highest temperature: 56°F on the 11th Lowest temperature: -1°F on the 22nd

Summary

Temperature for December was 28.9°F, 0.3°F below the 127-year average. Precipitation was 5.01 in., 1.0 inches above average. Monthly snowfall was 11 in., 0.36 in. below average. There were 16 recorded days of measurable precipitation (Average is 13).

Graph Explanation

The dotted red line is a trendline. Trendlines help us see patterns within data. The equation for this linear trendline is y=mx+b, where m=the slope and b=the intercept.

Graph 1 shows the average December temperature from 1896-2024. The slope for this data is 0.0412; meaning for this time period, on average, temperature increased about 0.0412°F per year.

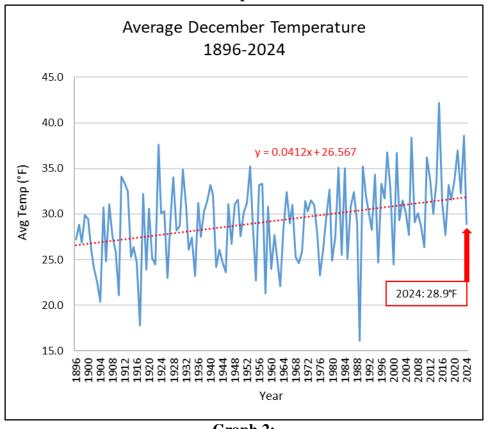
Graph 2 shows the average December temperature from 1984-2024. The slope for this data is 0.1112; meaning for this time period, on average, temperature increased about 0.1112°F per year, about 2.7 times faster than the 1896-2024 time period.

Graph 3 shows the average December temperature from 1896-1984. The slope for this data is 0.0199; meaning for this time period, on average, temperature increased about 0.0199°F per year, almost six times slower than the 1984-2024 time period.

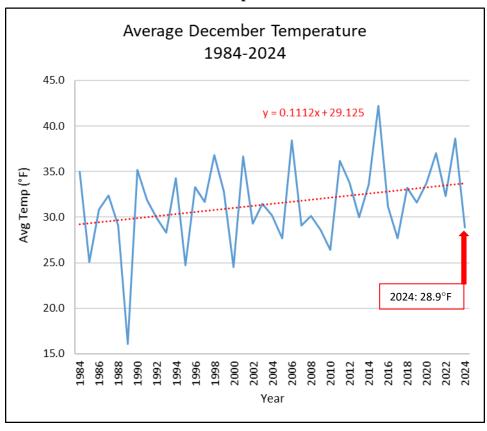
See pages 2-3 for graphs.

MOHONK LAKE COOPERATIVE WEATHER STATION

Graph 1:

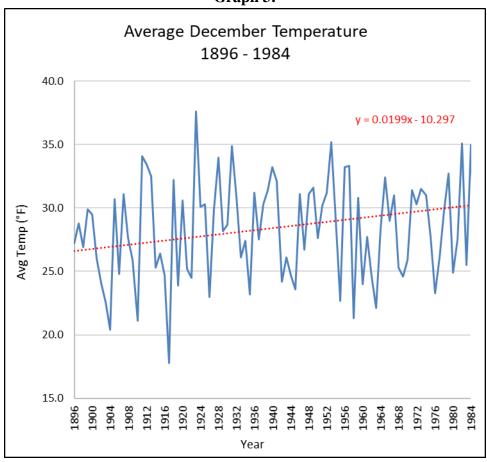


Graph 2:



MOHONK LAKE COOPERATIVE WEATHER STATION

Graph 3:



Penny Adler-Colvin, Community Science Coordinator Megan Napoli, Associate Director of Conservation Science and Research