



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

**Natural Science Note No. 822- 2024**

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

**Weather Summary for November, 2024**

	<b>127-year average 1896-2023</b>	<b>Actual This Year</b>	<b>Deviation from Average</b>
<b>Temperature (°F)</b>	40.5	45.4	+4.9
<b>Precipitation (in.)</b>	3.77	5.25	+1.48
<b>Snow (in.)</b>	3.25	8.00	+4.75

Highest temperature: 79°F on the 6<sup>th</sup>

Lowest temperature: 24°F on the 30<sup>th</sup>

**Summary**

Temperature for November was 45.4°F, 4.9°F above the 127-year average. Precipitation was 5.25 in., 1.48 inches above average. Monthly snowfall was 8.00 in., 4.75 in. above average. There were 12 recorded days of measurable precipitation (Average is 12).

**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 November temperature from 1896-2024. The slope for this data is 0.0245; meaning for this time period, on average, **temperature increased about 0.0245°F per year.**

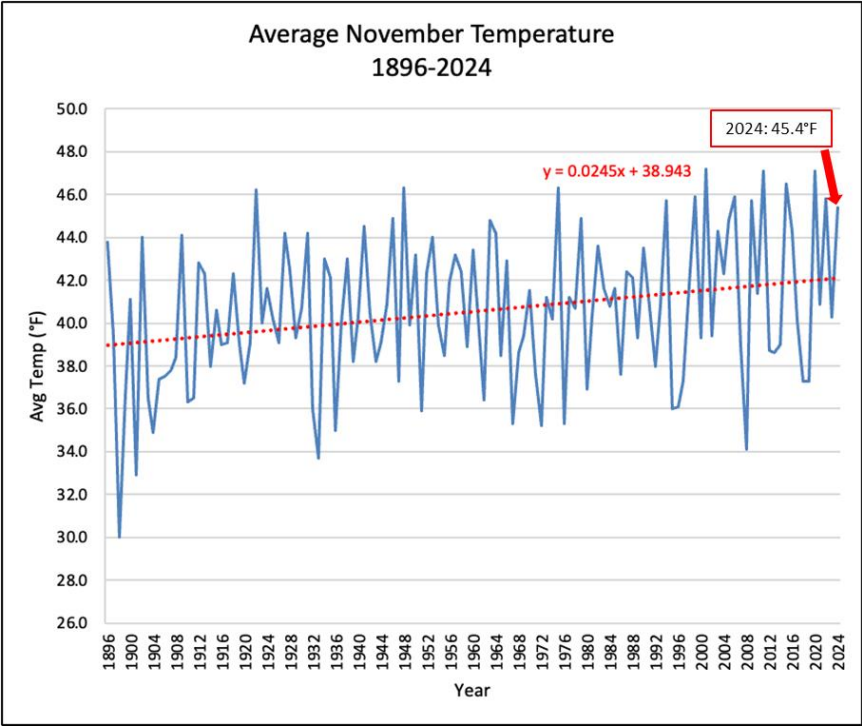
Graph 2 shows the average November temperature from 1984-2024. The slope for this data is 0.0513; meaning for this time period, on average, **temperature increased about 0.0513°F per year, just over two times faster than the 1896-2024 time period.**

Graph 3 shows the average November temperature from 1896-1984. The slope for this data is 0.027; meaning for this time period, on average, **temperature increased about 0.027°F per year, almost two times slower than the 1984-2024 time period.**

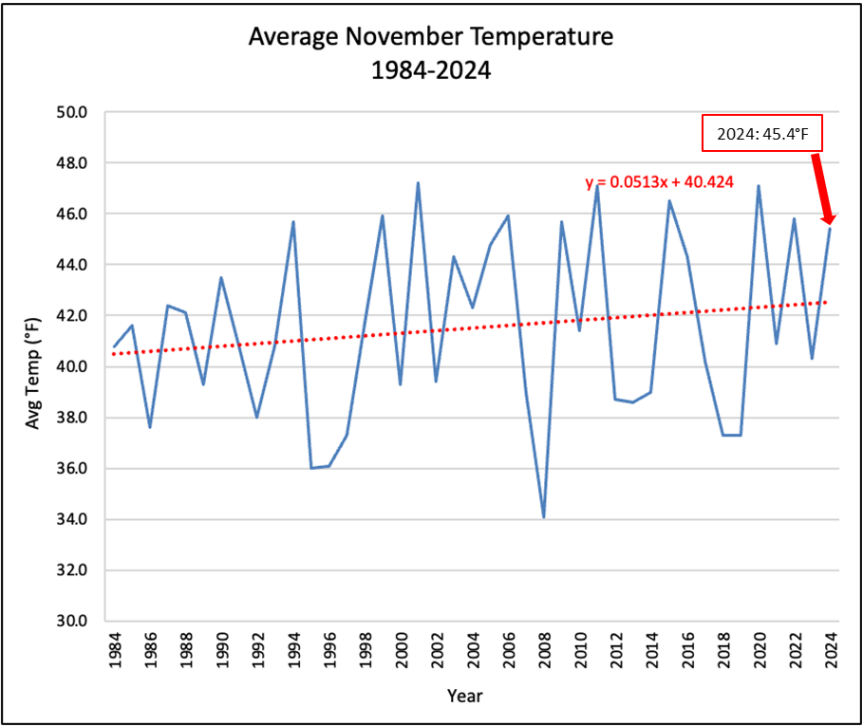
See pages 2-4 for graphs.

**Graph 1:**

# MOHONK LAKE COOPERATIVE WEATHER STATION

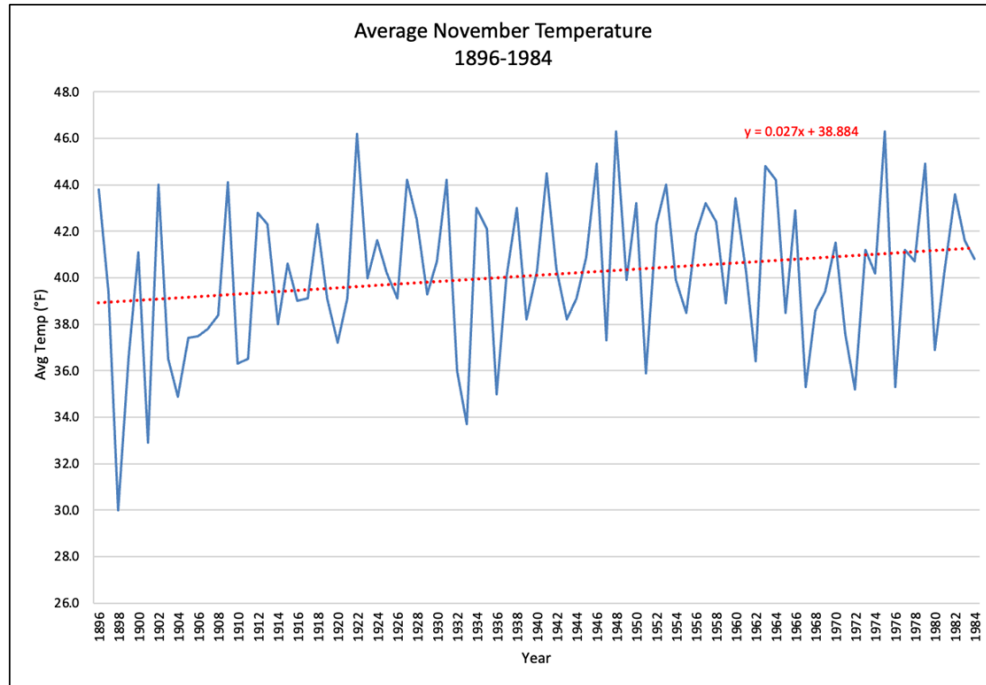


Graph 2:



Graph 3:

# MOHONK LAKE COOPERATIVE WEATHER STATION



## Weather Summary for Fall (September, October, November), 2024

	127-year average 1896-2023	Actual This Year	Deviation from Average
<b>Temperature (°F)</b>	51.7	54.1	+2.4
<b>Precipitation (in.)</b>	12.29	8.26	-4.03
<b>Snow (in.)</b>	3.44	8.00	+4.56

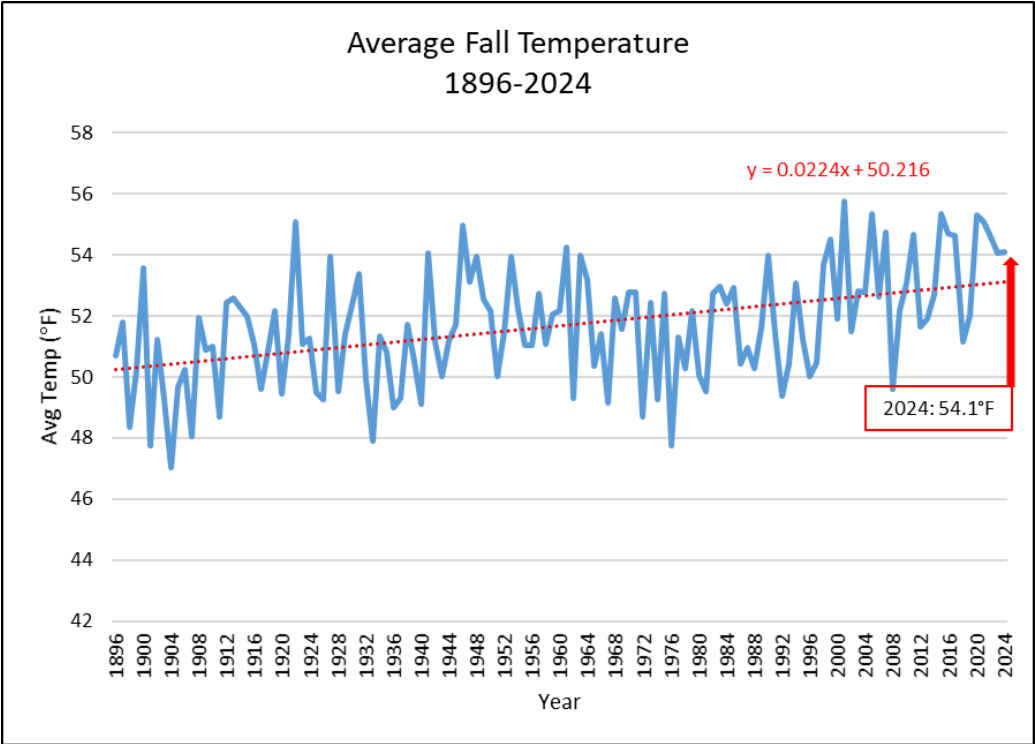
Highest Fall Temperature: 81°F on October 22<sup>nd</sup>  
 Lowest Fall Temperature: 24°F on November 30<sup>th</sup>

## Summary

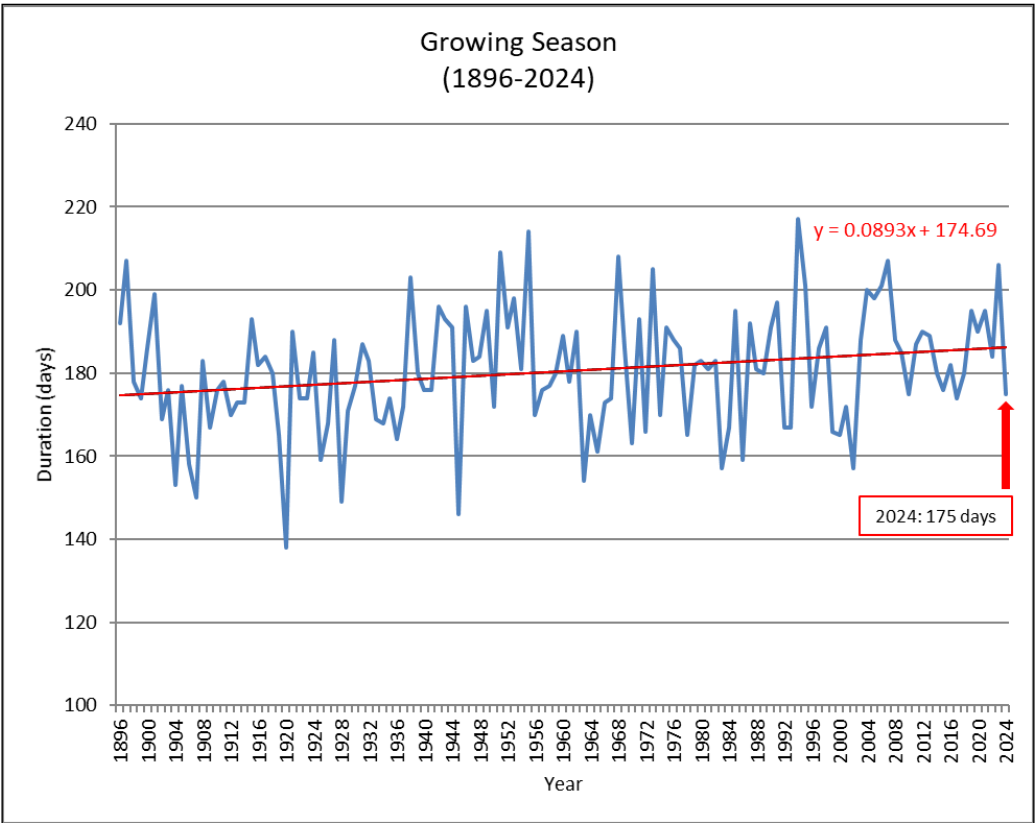
Temperature for fall was 54.1°F, 2.4°F above the 127-year average (Graph 4). Precipitation was 8.26 in., 4.03 inches below average. Snowfall was 8.00 in., 4.56 inches above average. First frost occurred on October 17<sup>th</sup> (average is October 22<sup>nd</sup>). The growing season was 175 days (Graph 5; average is 180).

**Graph 4:**

# MOHONK LAKE COOPERATIVE WEATHER STATION



Graph 5:



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