



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

Natural Science Note No. 820–2024  
From records of the Mohonk Lake Cooperative Weather Station  
Established January, 1896

**Weather Summary for September, 2024**

	<b>127-year average 1896-2023</b>	<b>Actual This Year</b>	<b>Deviation from Average</b>
<b>Temperature (°F)</b>	62.5	61.6	-0.9
<b>Precipitation (in.)</b>	4.46	2.19	-2.27

Highest temperature: 78°F on the 1<sup>st</sup>

Lowest temperature: 46°F on the 2<sup>nd</sup> and 7<sup>th</sup>

**Summary**

Average temperature for September was 61.6 °F, 0.9 °F below the 127-year average. Total precipitation was 2.19 in., 2.27 inches above average. There were 8 recorded days of measurable precipitation (Average is 11).

**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 September temperature from 1896-2024. The slope for this data is 0.0235; meaning for this time period, on average, temperature increased about 0.0235°F per year.

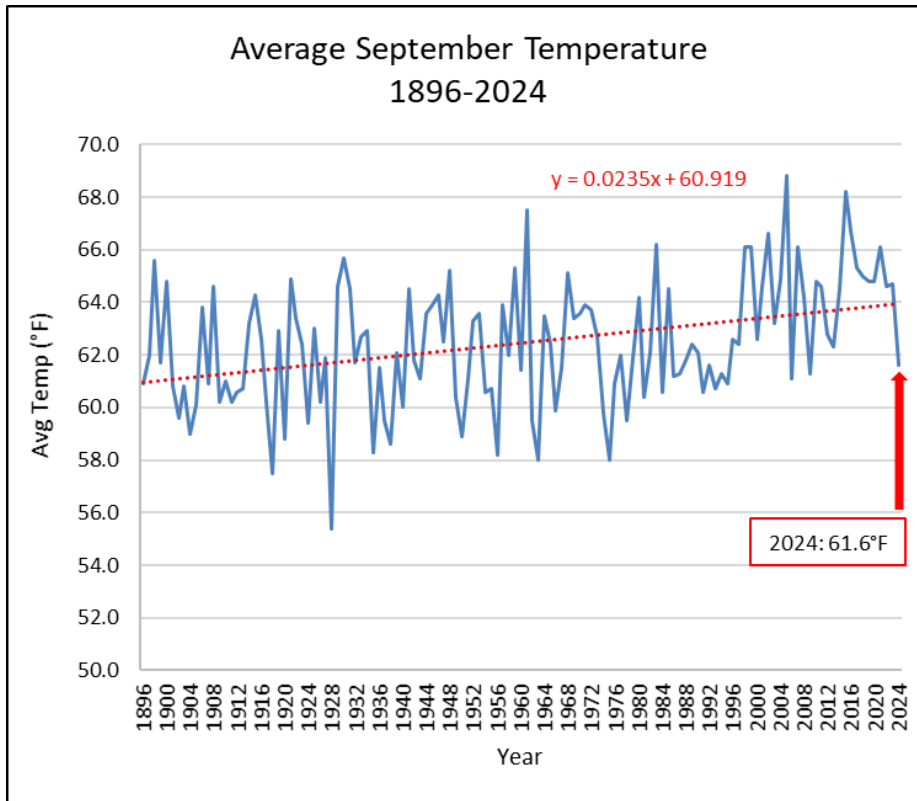
Graph 2 shows the average September temperature from 1984-2024. The slope for this data is 0.0926; meaning for this time period, on average, temperature increased about 0.0926°F per year, almost four times faster than the 1896-2024 time period.

Graph 3 shows the average September temperature from 1896-1984. The slope for this data is 0.0068; meaning for this time period, on average, temperature increased about 0.0068°F per year, about four times slower than the 1896-2024 time period, and almost fourteen times slower than the 1984-2024 time period.

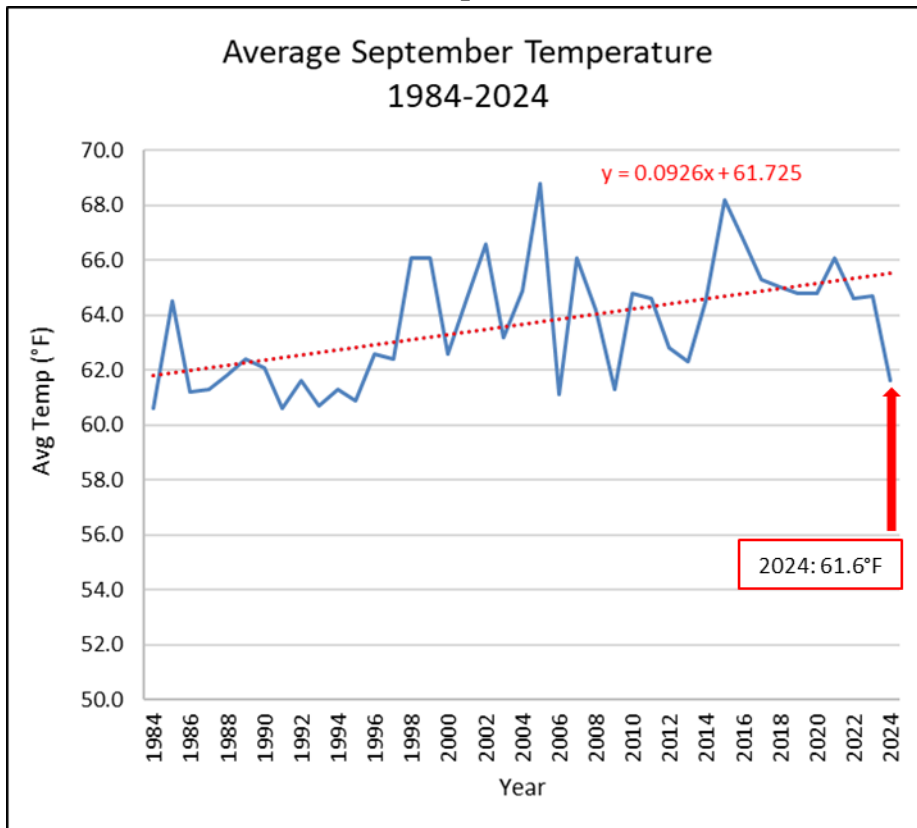
See pages 2 and 3 for graphs.

# MOHONK LAKE COOPERATIVE WEATHER STATION

**Graph 1:**

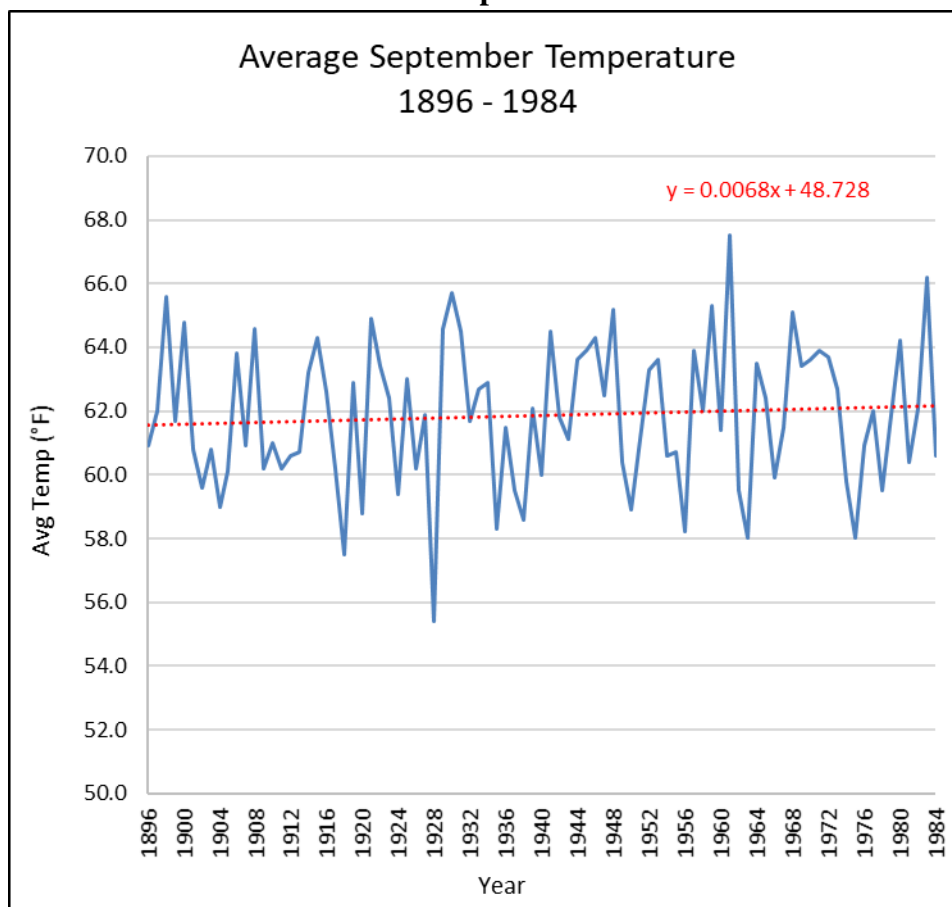


**Graph 2:**



# MOHONK LAKE COOPERATIVE WEATHER STATION

**Graph 3:**



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