

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

Natural Science Note No. 785-21

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

Annual Weather Summary for 2021

Part I: Summary of 126th Year: 2021
Records Taken this Year:

Records Taken this Year: 365 Total to Date = 45,999

Table 1. Annual Deviation from 125-Year Average

	125-year average 1896-2020	Actual This Year	Deviation from Average
Temperature (°F)	48.5	52.30	+3.8
Precipitation (in.)	48.27	59.03	+10.76
Snow (in.)	58.73	33.51	-25.22

Table 2. Monthly Deviation from 125-Year Average

	Temperature (°F)		Precipitation (in.)			Snow (in.)			
	1896-	2021	Deviation	1896-	2021	Deviation	1896-	2021	Deviation
	2020			2020			2020		
January	25.0	27.9	+2.9	3.49	2.10	-1.39	14.80	6.51	-8.29
February	26.3	27.4	+1.1	3.30	4.98	+1.68	14.94	25.00	+10.06
March	35.1	40.9	+5.8	4.78	4.39	-0.39	11.00	0.00	-11.00
April	47.0	52.1	+5.1	4.11	2.58	-1.53	2.84	0.00	-2.84
May	58.2	60.4	+2.2	4.16	6.57	+2.41	0.14	0.00	-0.14
June	66.4	70.8	+4.4	4.14	2.50	-1.64	0.0	0.0	0.0
July	71.1	72.0	+0.09	4.55	7.61	+3.06	0.0	0.0	0.0
August	69.2	73.9	+4.70	4.25	8.46	+4.21	0.0	0.0	0.0
September	62.4	66.1	+3.7	4.49	7.95	+3.46	0.0	0.0	0.0
October	51.9	58.2	+6.3	4.34	7.42	+3.08	0.39	0.00	-0.39
November	40.5	40.9	+0.4	4.04	2.16	-1.88	3.80	T	-3.80
December	29.1	37.0	+7.9	3.97	2.31	-1.66	11.58	2.00	-9.58
Year	48.5	52.3	+3.8	48.27	59.03	+10.76	58.73	33.51	-25.22



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Part II: Extremes for 2021

Temperature

Highest Maximum	94°F	June 29
Lowest Maximum	20°F	February 13
Highest Minimum	75°F	June 29

Lowest Minimum 5°F January 29, January 31, February 12

Precipitation

Greatest Rainfall, 24 hrs.	3.48 in.	August 23
Greatest Snowfall, 24 hrs.	8 in.	February 2

Greatest Snow on Ground 18 in. February 9, 10, 11, 19, 22, 23

Mohonk Lake

Ice Out	March 27	9 days earlier than average
Ice Over	N/A	Did not ice over in 2021

Records Taken in Year 52 Lake data for 2021 were collected in

collaboration with SUNY New Paltz.

Frost

Last Frost:
April 23
Pirst Frost:
November 4
Length of Growing Season:
April 23
November 4
13 days later than average
15 days longer than average

Highlights:

Temperature for the year was 3.8°F above average, marking this the 3rd warmest year on record (**Table 3**). Precipitation was 10.76 inches above average, marking this the 15th wettest year in our recorded history. Snowfall was 25.22 inches below average, marking this the 14th least snowy year in our recorded history.



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2021 was also marked by notable monthly and seasonal extremes in our 125-year records:

- 6th warmest April
- 5th Warmest Spring
- 4th Least Snowy Spring
- 5th Warmest June
- 4th Warmest August
- 10th Rainiest August

- 8th Warmest Summer
- 10th Warmest September
- 5th Warmest October
- 6th Warmest Fall
- 4th Warmest December

Table 3. Top 10 Warmest Years

Year	Temperature (°F)	Rank	
2020	52.98	1	
2012	52.53	2	
2021	52.30	3	
1998	52.06	4	
2016	51.93	5	
2006	51.88	6	
2001	51.53	7	
2010	51.51	8	
1999	51.48	9	
2002	51.48	10	