



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

Natural Science Note No. 709-16
From records of the Mohonk Lake Cooperative Weather Station
Established January, 1896

Weather Summary for January, 2016

	120-year average 1896-2015	Actual This Year	Deviation from Average
Temperature (°F)	24.8	28.1	+3.3
Precipitation (in.)	3.47	2.34	-1.13
Snow (in.)	15.08	0.8	-14.28

Highest temperature: 55°F on the 31st

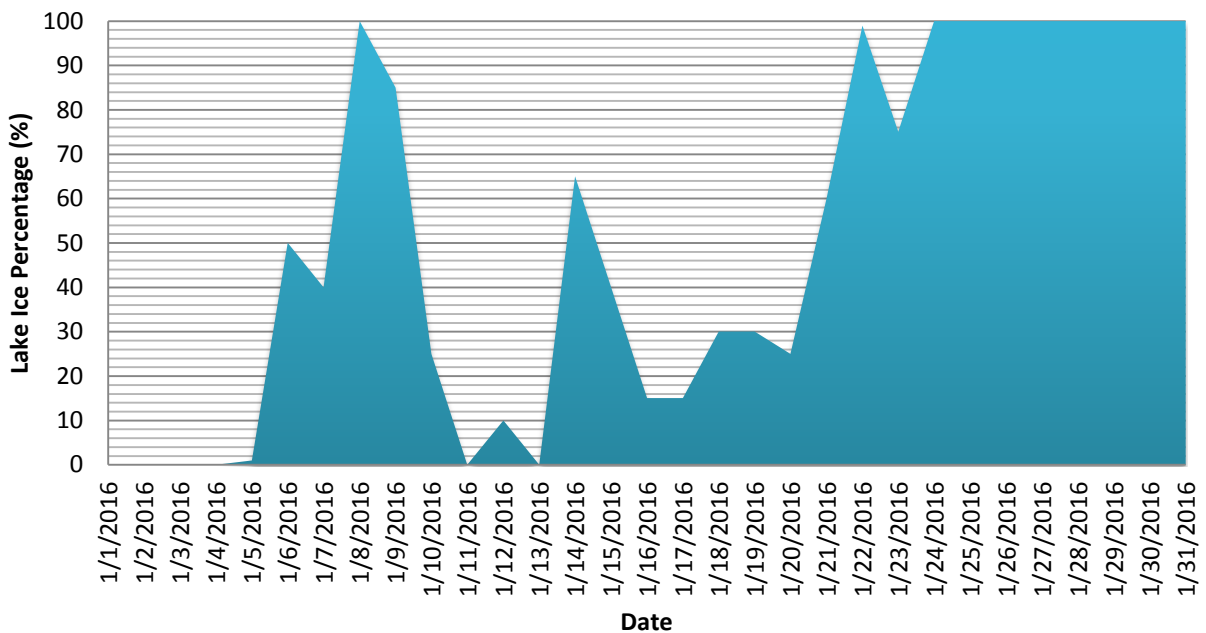
Lowest temperature: 1°F on the 5th

Fog: 2 days (9th-10th)

Thunder: 1 day (10th)

Lake Ice: 0% from the 1st-4th, 50% on the 5th, 40% on the 6th, 100% on the 8th, 85% on the 9th, 25% on the 10th, 0% on 11th, 10% on the 12th, 0% on the 13th, 65% on the 14th, 40% on the 15th, 15% from the 16th-17th, 30% from the 18th-19th, 25% on the 20th, 60% on the 21st, 99% on the 22nd, 75% on the 23rd, and 100% from the 24th-31st.

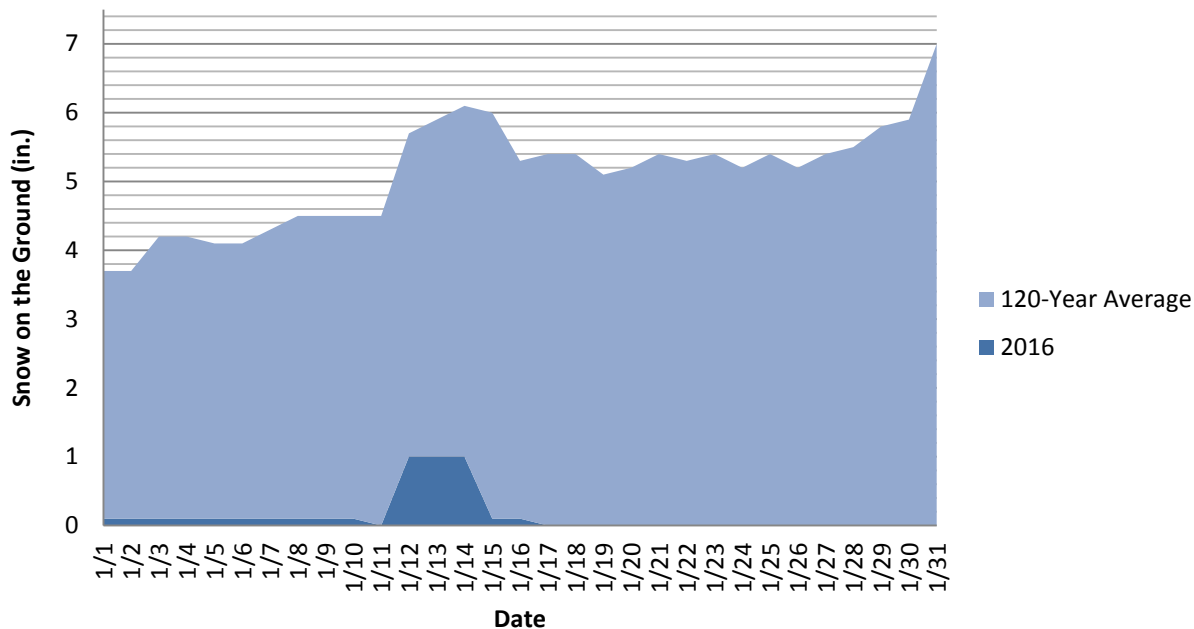
Mohonk Lake Ice Coverage for January 2016



MOHONK LAKE COOPERATIVE WEATHER STATION

Snow on Ground: T from the 1st-10th, 0 inches on the 11th, 1 inch from the 12th-14th, T from the 15th-16th, 0 inches from the 17th-31st

Snow on the Ground



Precipitation pH: 5.26 (n= 5 storms)

Summary

2016 has proven to be an El Niño Year so far. Temperature for January was 3.3°F above the 120-year average. **One daily temperature record was tied on the 31st at 55°F (tied with 2013).** Precipitation was 2.34 in., 1.13 inches below normal. There were 5 recorded days of measurable precipitation (Average is 10.8).

Monthly snowfall was 0.8 in., 14.28 inches below normal. **This January ranked 2nd lowest monthly snowfall on record. The least snowy January was in 1980 with 0.3 inches of snowfall.** See Table 1 on the next page for the Top 10 Least Snowy Januarys.

The lake started to freeze on the 5th. It became 100% covered (frozen over) on 8th. It melted to 0% on the 11th and gained 100% cover again on the 24th, which remained through the 31st of January. **100% Cover on the 24th for January 2016 is the 2nd latest freeze-over date since ice records began in 1932 for Mohonk Lake.** The latest date for Mohonk Lake to freeze completely was on January 30th, 1995. The average date for Mohonk Lake to freeze over in 84-years of recorded history is January 1st. Since then, Mohonk Lake has frozen over 11 times in the month of January, starting in 1983. See Table 2 for the Top 11 January Dates for Mohonk Lake to freeze over.

MOHONK LAKE COOPERATIVE WEATHER STATION

Table 1. Top 10 Least Snowy Januarys

Year	Snowfall (in.)	Rank
1980	0.3	1
2016	0.8	2
1913	1.0	3
1933	1.0	4
1911	1.3	5
1955	1.4	6
2007	2.0	7
1906	3.0	8
1916	3.0	9
1921	3.0	10

Table 2. Top 11 January Dates for Mohonk Lake to Freeze Over

Year	January Date	Rank
1995	January 30 th	1
2016	January 24th	2
2007	January 23 rd	3
2005	January 16 th	4
1983	January 14 th	5
1993	January 11 th	6
1991	January 10 th	7
2004	January 8 th	8
2010	January 8 th	9
1985	January 5 th	10
2013	January 3 rd	11

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