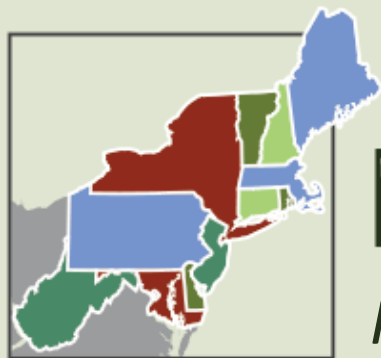




Northeast Regional Climate Center

Recent and historical weather data customized to meet your needs

Weather and Climate in the Tug Hill Region ***and Beyond***

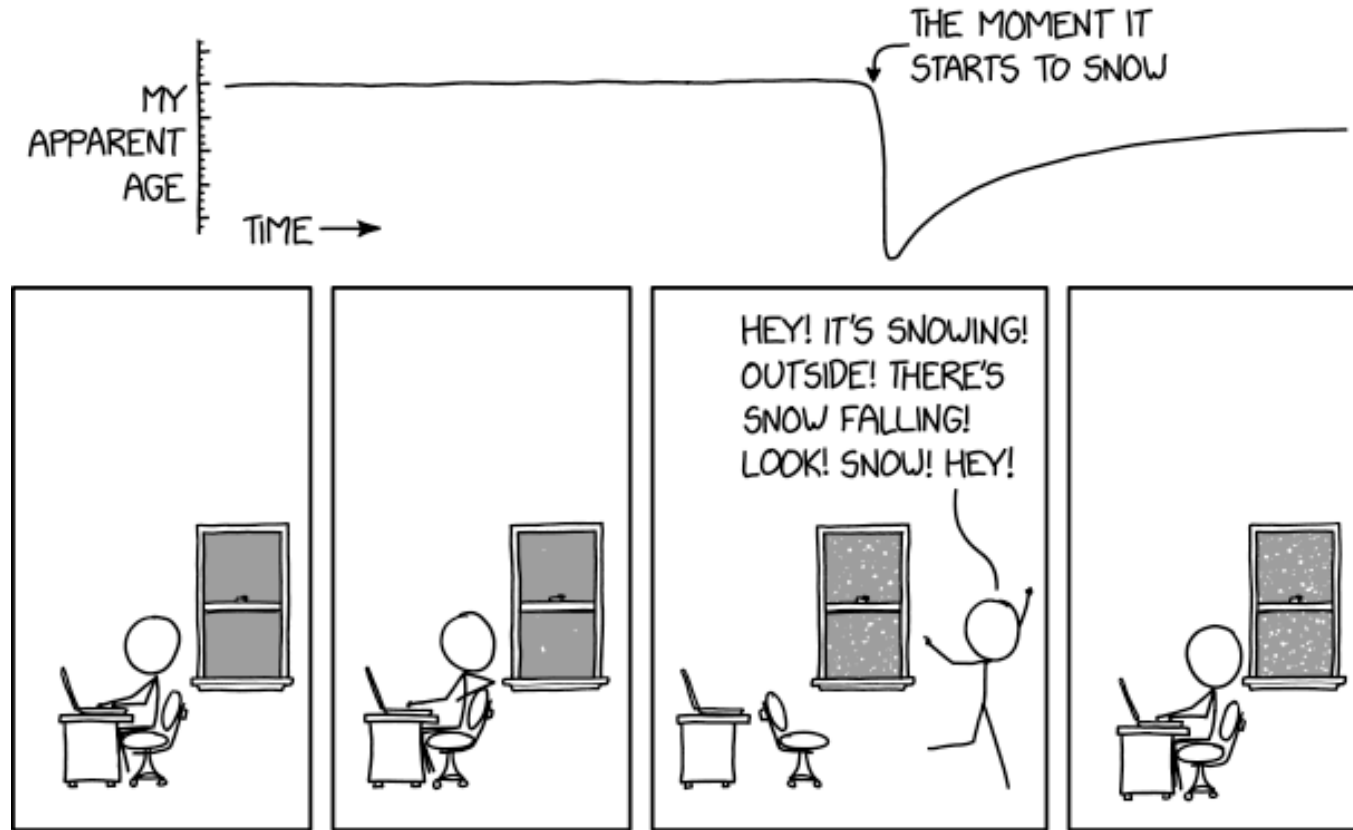
Natalie Umphlett, Ph.D.

Northeast Regional Climate Center, Cornell University

Snow Place Like Tug Hill Workshop Series

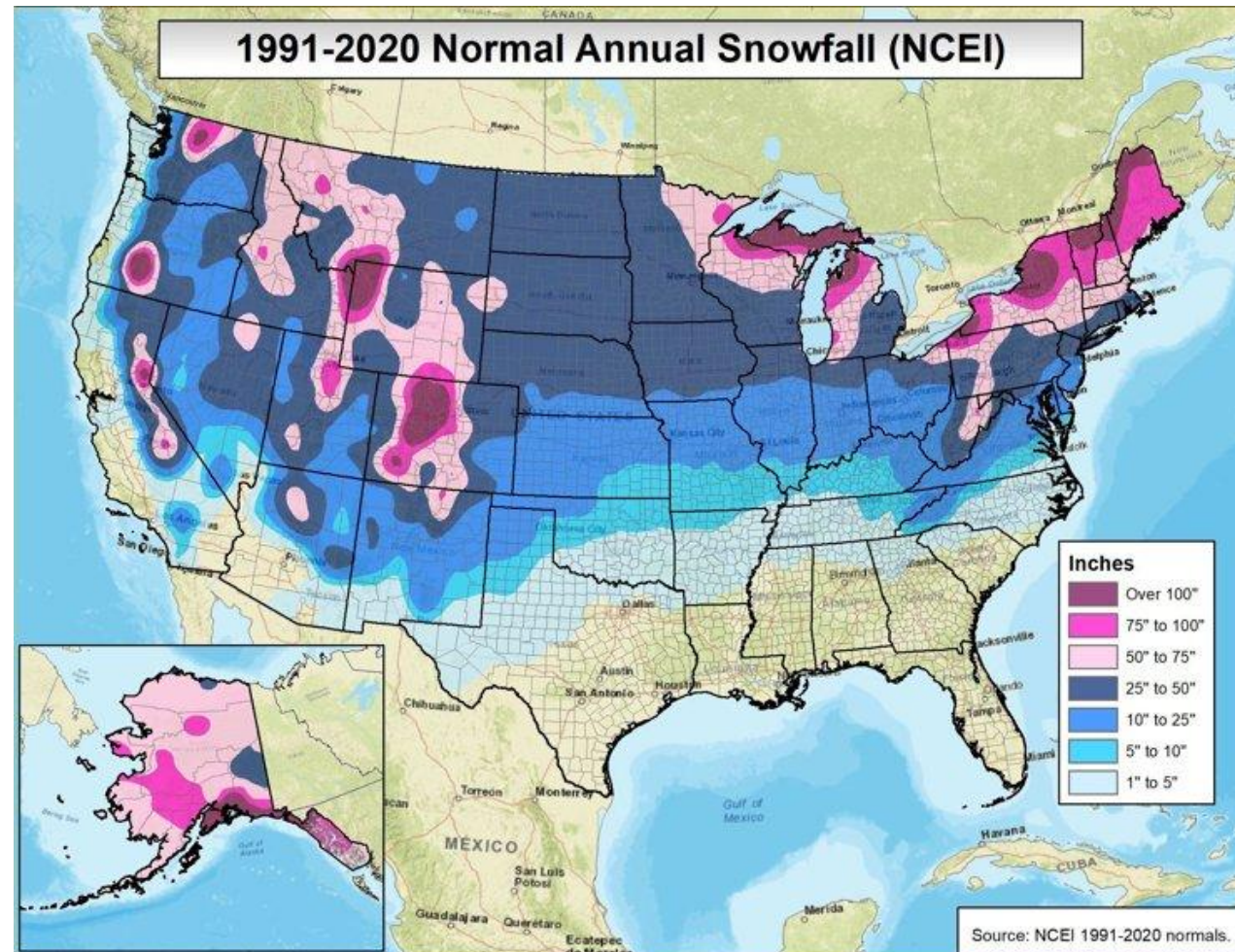
Glenfield, NY | November 6, 2025

Disclaimer – Milk and Bread Alert!



<https://xkcd.com/2866/>

Winter Wonderland



Source: UNL Lincoln Weather and Climate

Winter Wonderland



Streamflow

Transportation

Timber Operations

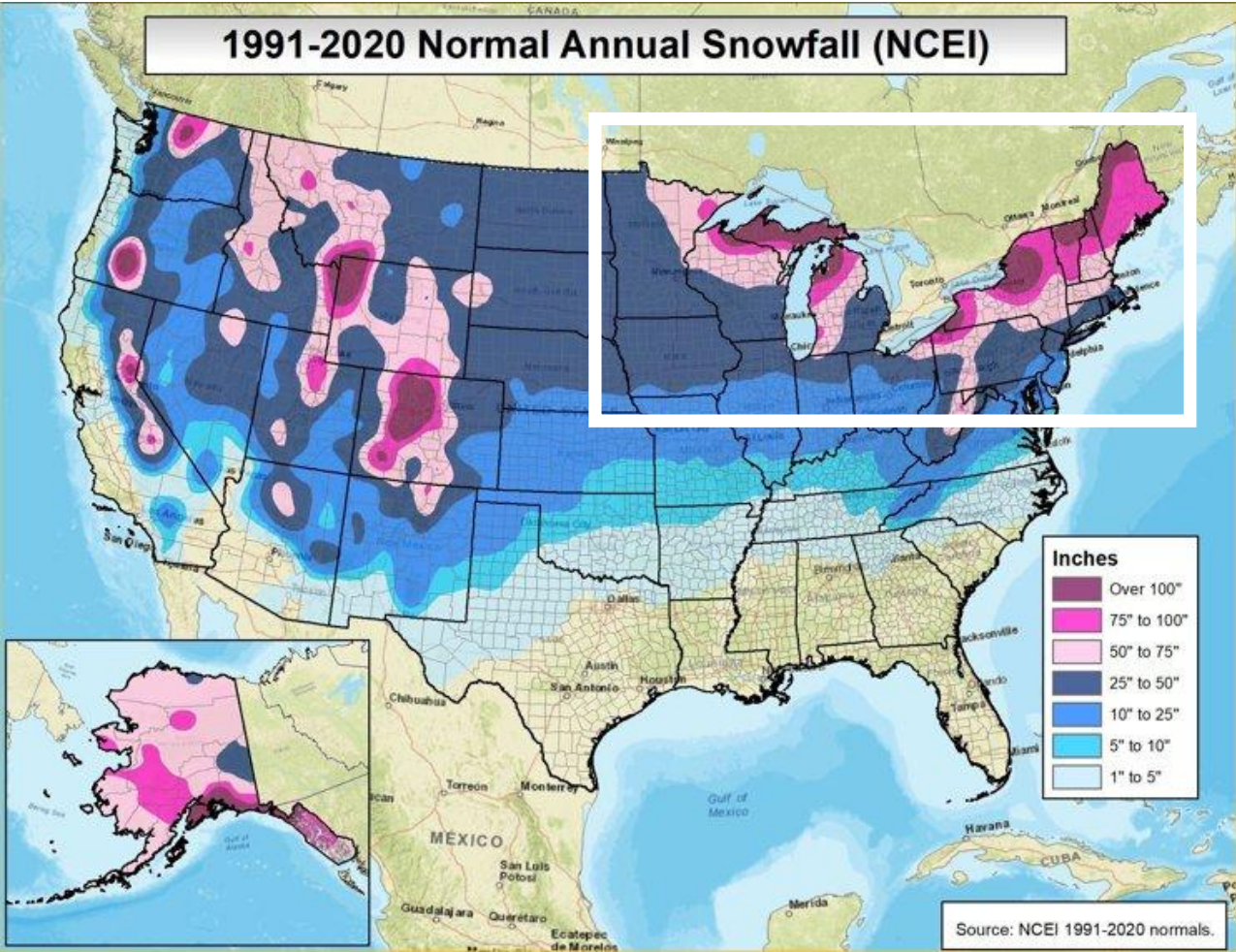
Recreation and Tourism

Culture

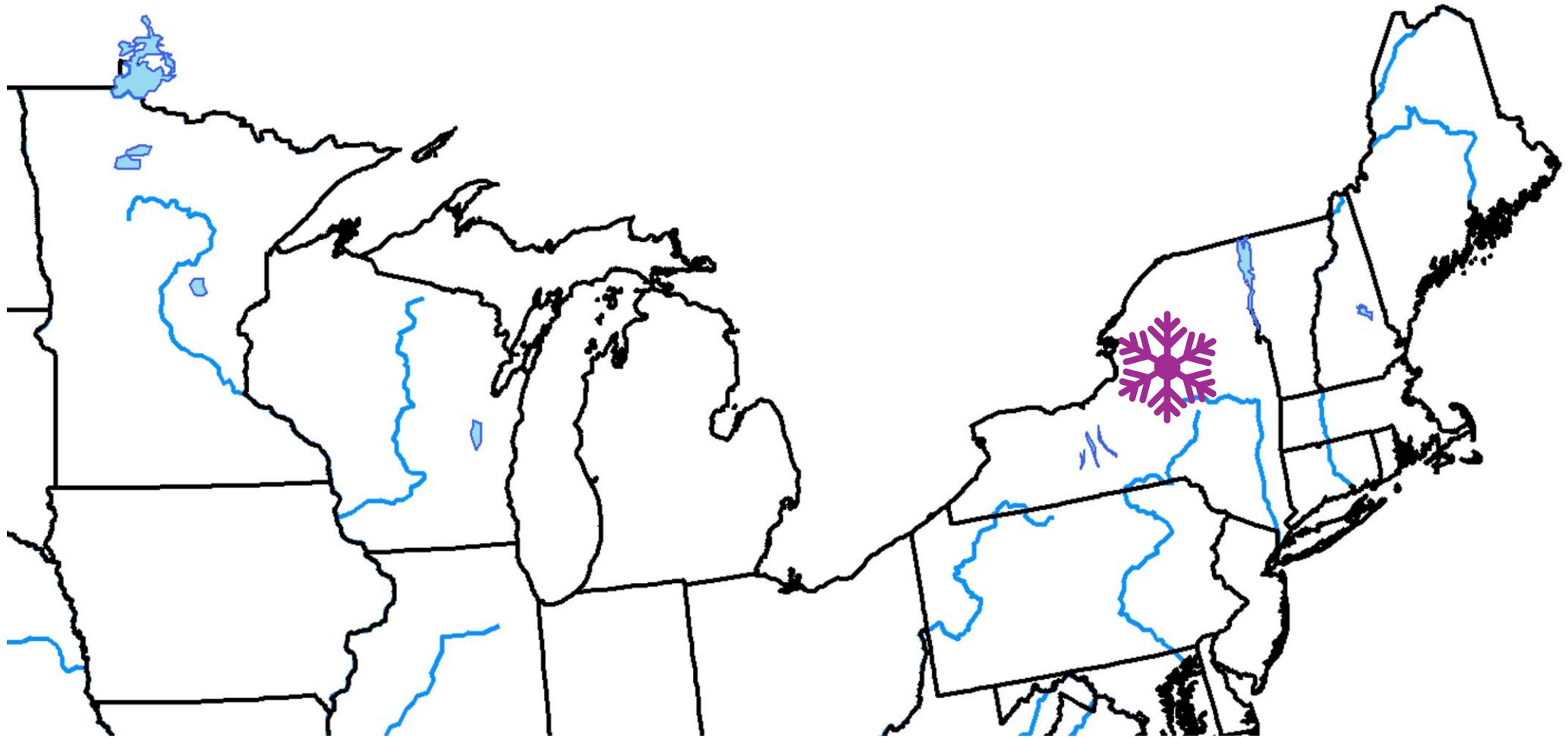
Plants

Soil Moisture Recharge

Wildlife



Heard Around the Region



Heard Around the Region

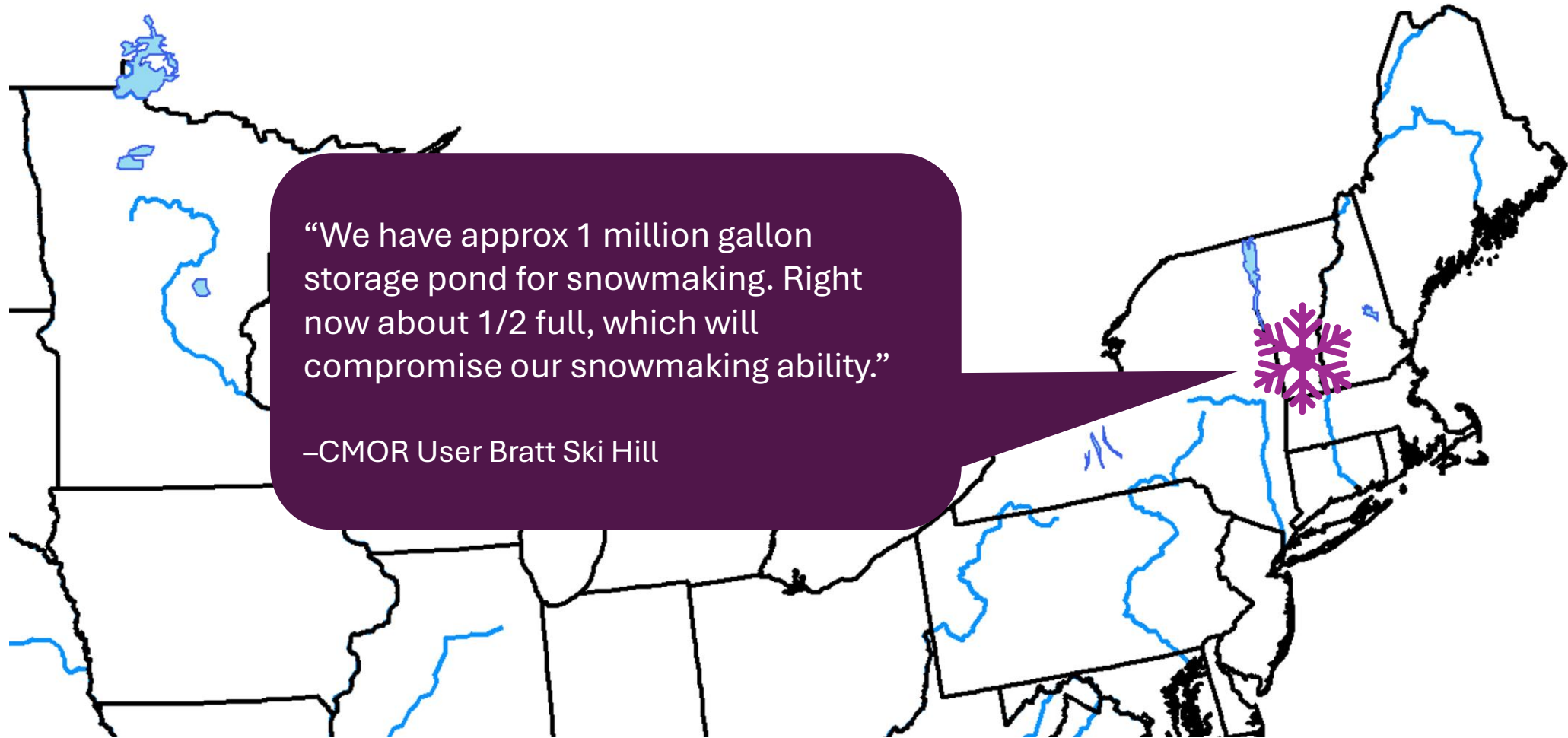


“It’s really really hard for a father to tell his son that we can’t go on a trip ... because Mother Nature is not cooperating.”

–Jon Royle, avid skier

Source: Interlochen Public Radio
Warmer Temperatures Affect Snow Totals Around Great Lakes

Heard Around the Region



Source: Condition Monitoring Observer Reports (CMOR)
CMOR User Bratt Ski Hill

Heard Around the Region



“Some of our early winter events, like Hurley’s Red Light Snowmobile Rally, once allowed the area to ‘capture’ the market because of its reliable early snowfalls. This event has not happened for many years due to lack of consistent snow. We have also seen more winter precipitation come as rain rather than snow. Thanks to being in the Lake Superior ‘snowbelt,’ we are still getting enough snow to support winter recreation and tourism when other areas of the state lack snow, but the winter is changing.”

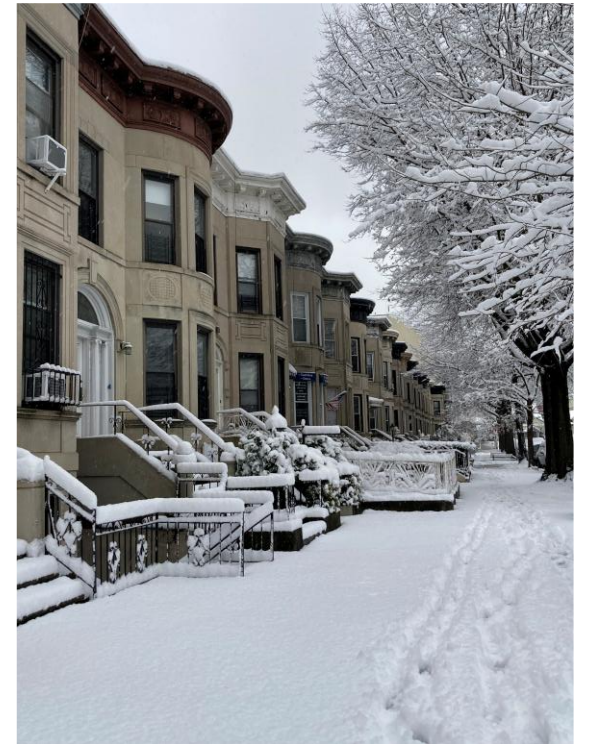
–Cathy Techtman, Environmental Outreach Specialist, UW-Madison Division of Extension

Bottom Line Up Front

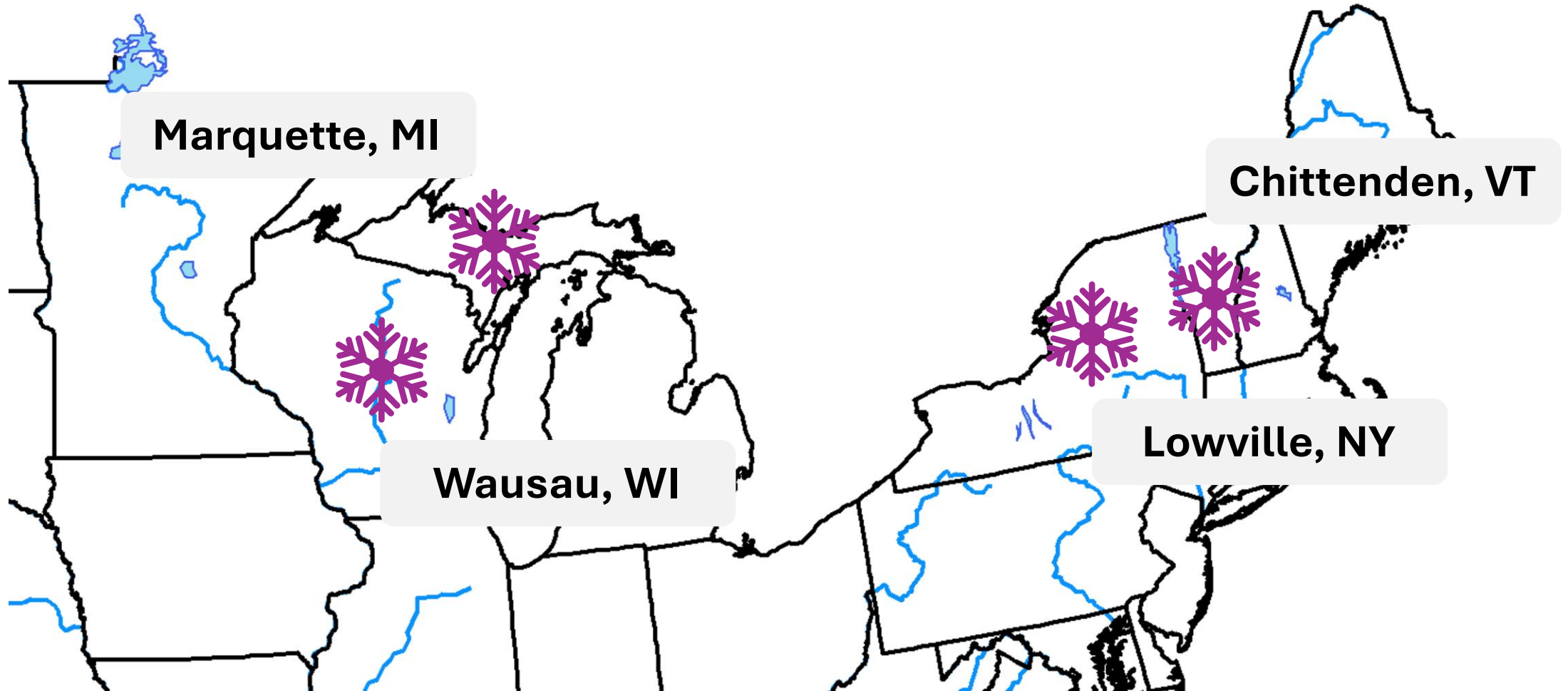


Snow is complicated!

But, let's take a look at a few examples for comparison.

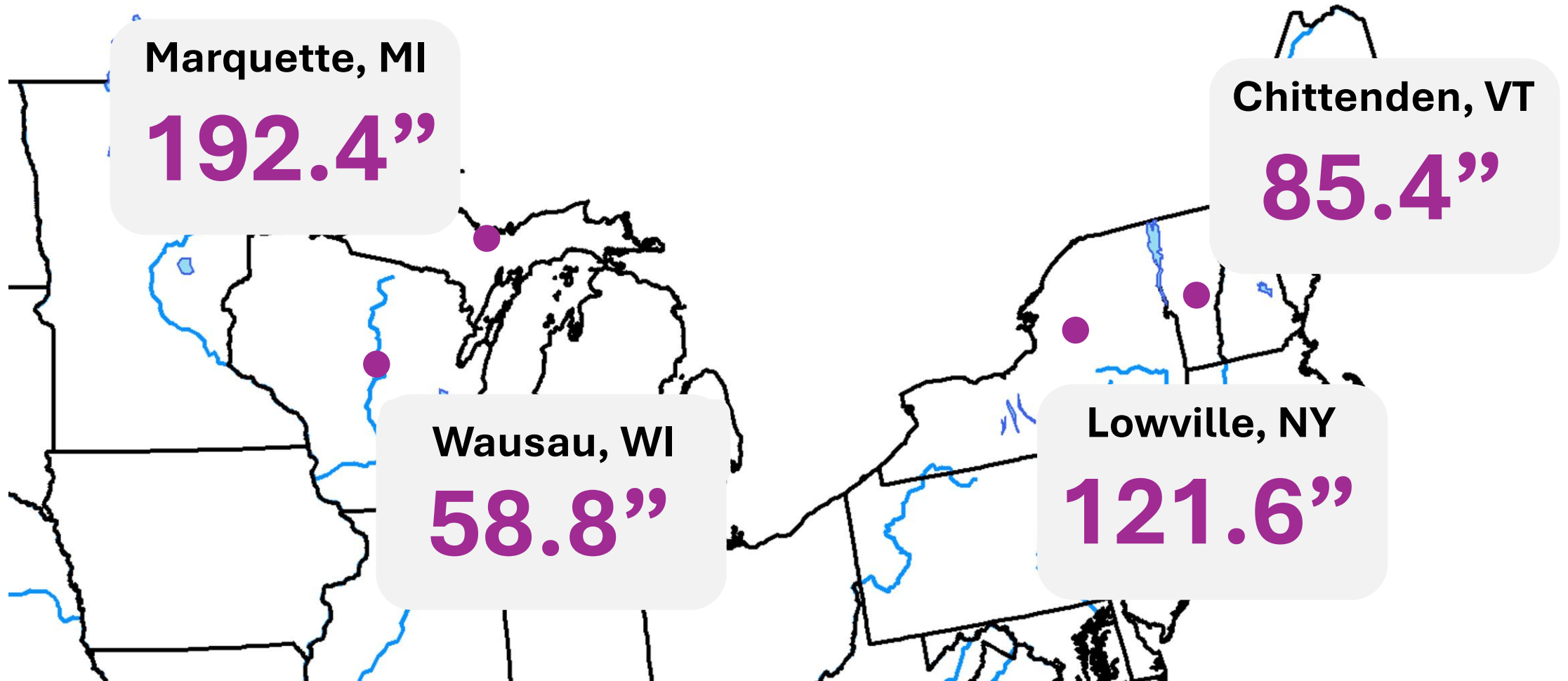


Comparison Locations



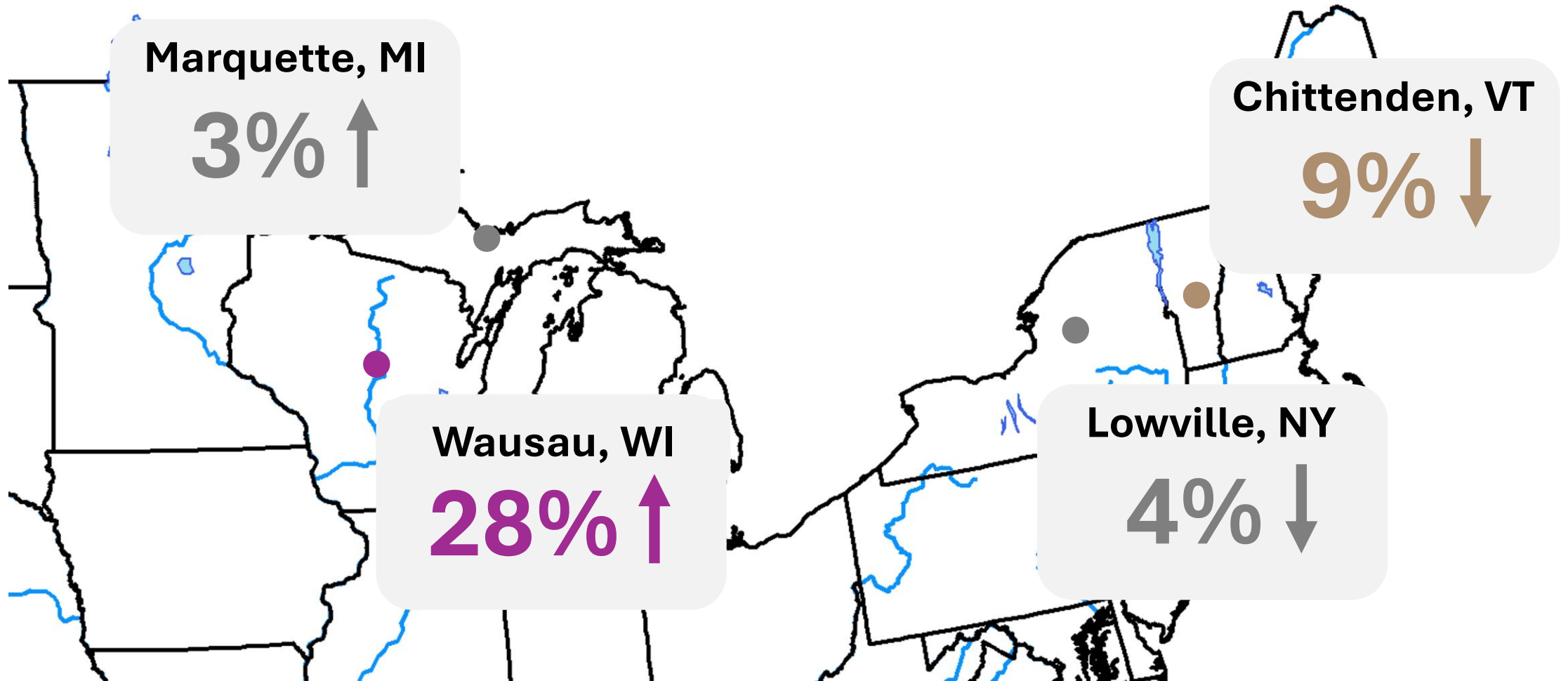
Marquette WFO, MI, Wausau, WI, Lowville, NY, and Chittenden, VT; 1974-2024
Data retrieved from the Applied Climate Information System

Seasonal Snowfall Comparison



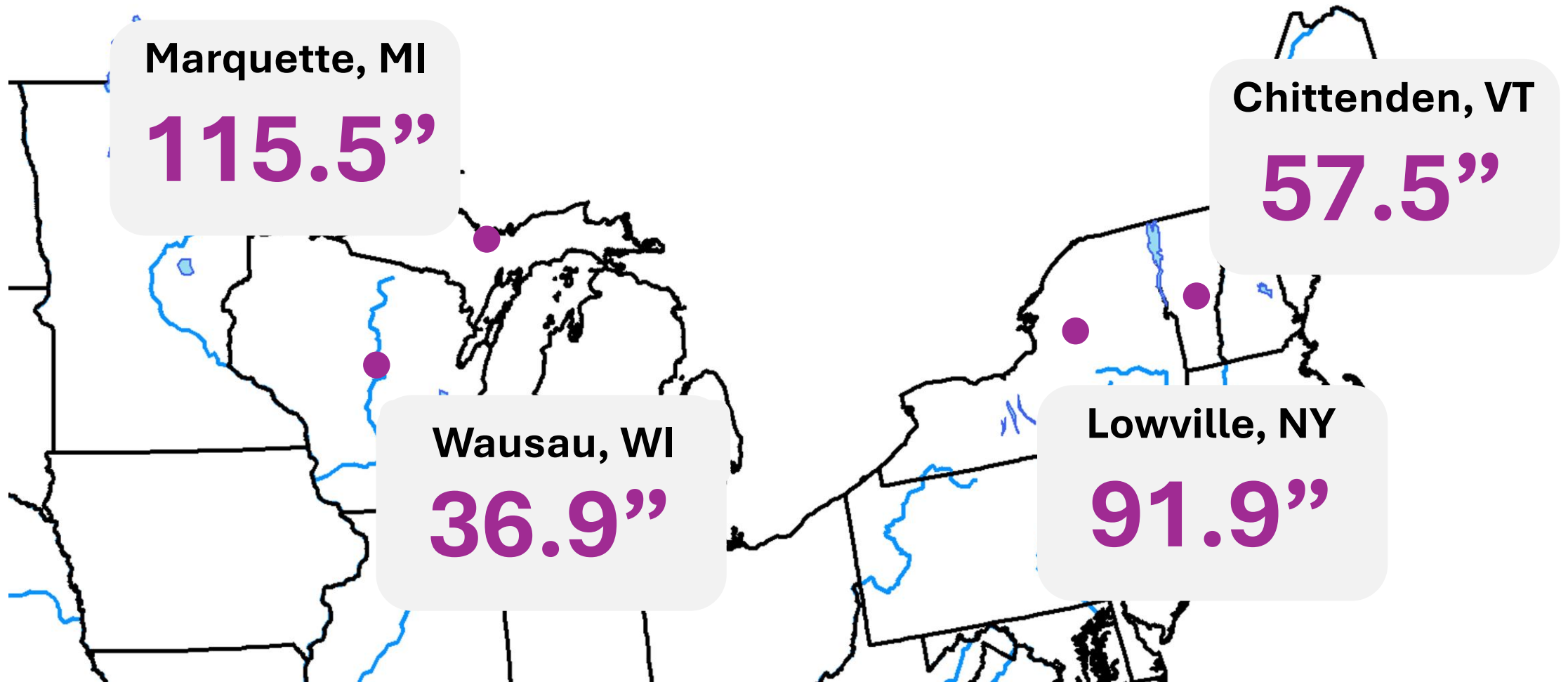
Marquette WFO, MI, Wausau, WI, Lowville, NY, and Chittenden, VT; 1974-2024
Data retrieved from the Applied Climate Information System

Seasonal Snowfall Trends



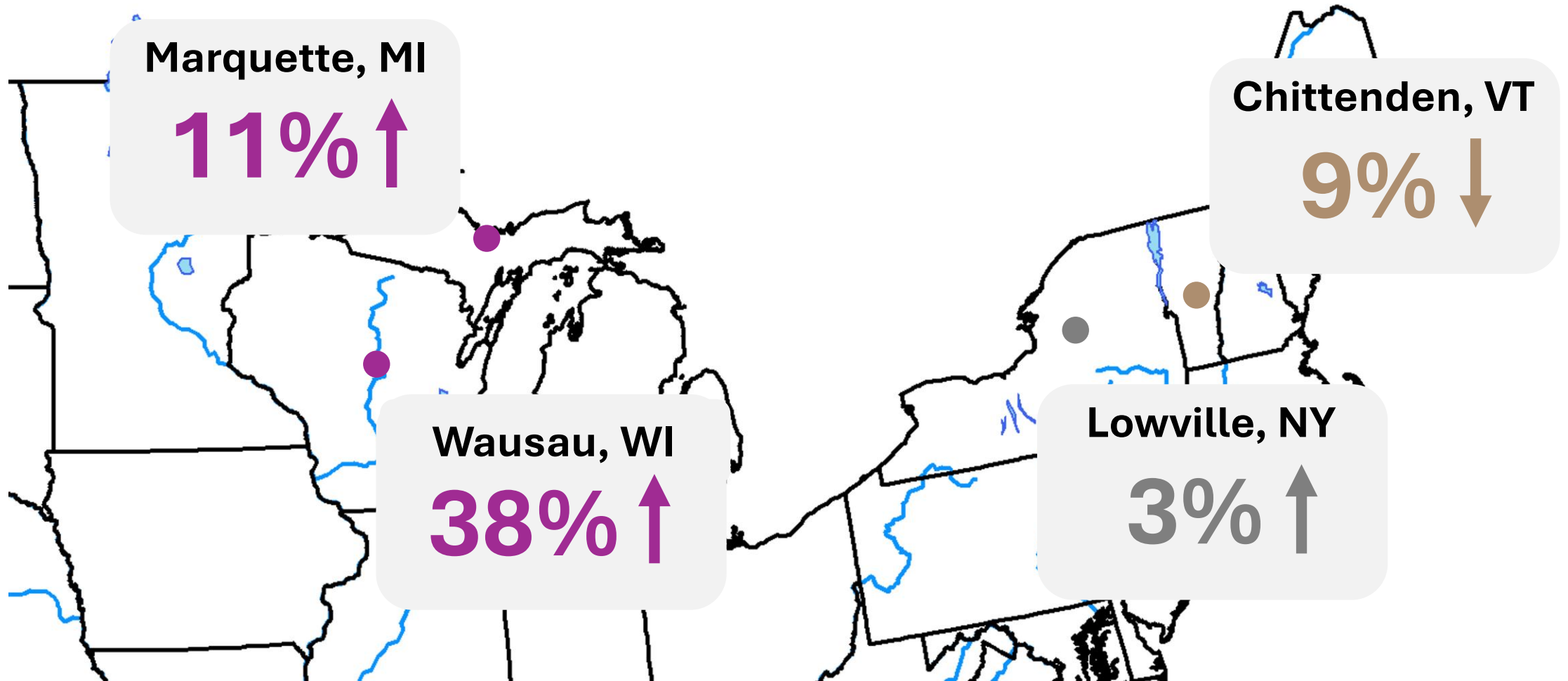
Marquette WFO, MI, Wausau, WI, Lowville, NY, and Chittenden, VT; 1974-2024
Data retrieved from the Applied Climate Information System

Winter (DJF) Snowfall Comparison



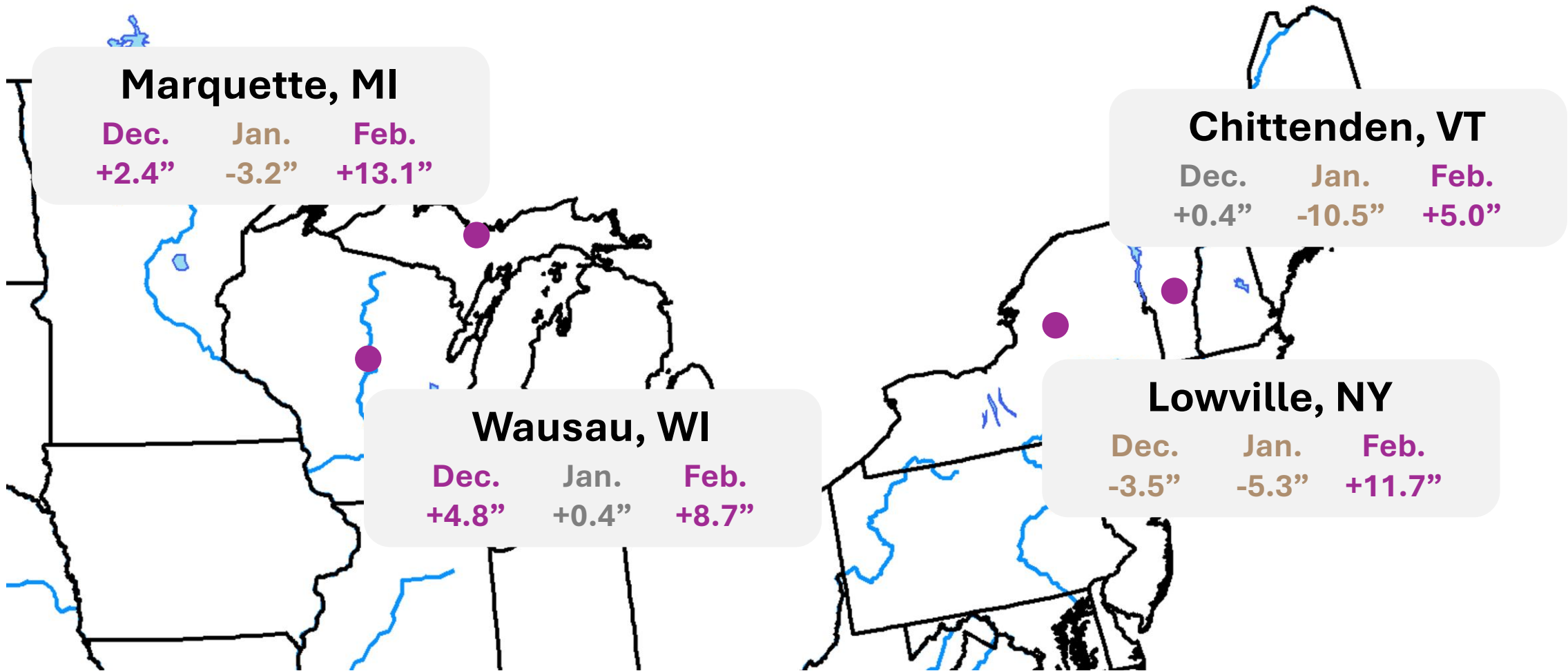
Marquette WFO, MI, Wausau, WI, Lowville, NY, and Chittenden, VT; 1974-2024
Data retrieved from the Applied Climate Information System

Winter (DJF) Snowfall Trends



Marquette WFO, MI, Wausau, WI, Lowville, NY, and Chittenden, VT; 1974-2024
Data retrieved from the Applied Climate Information System

Trends Vary By Month



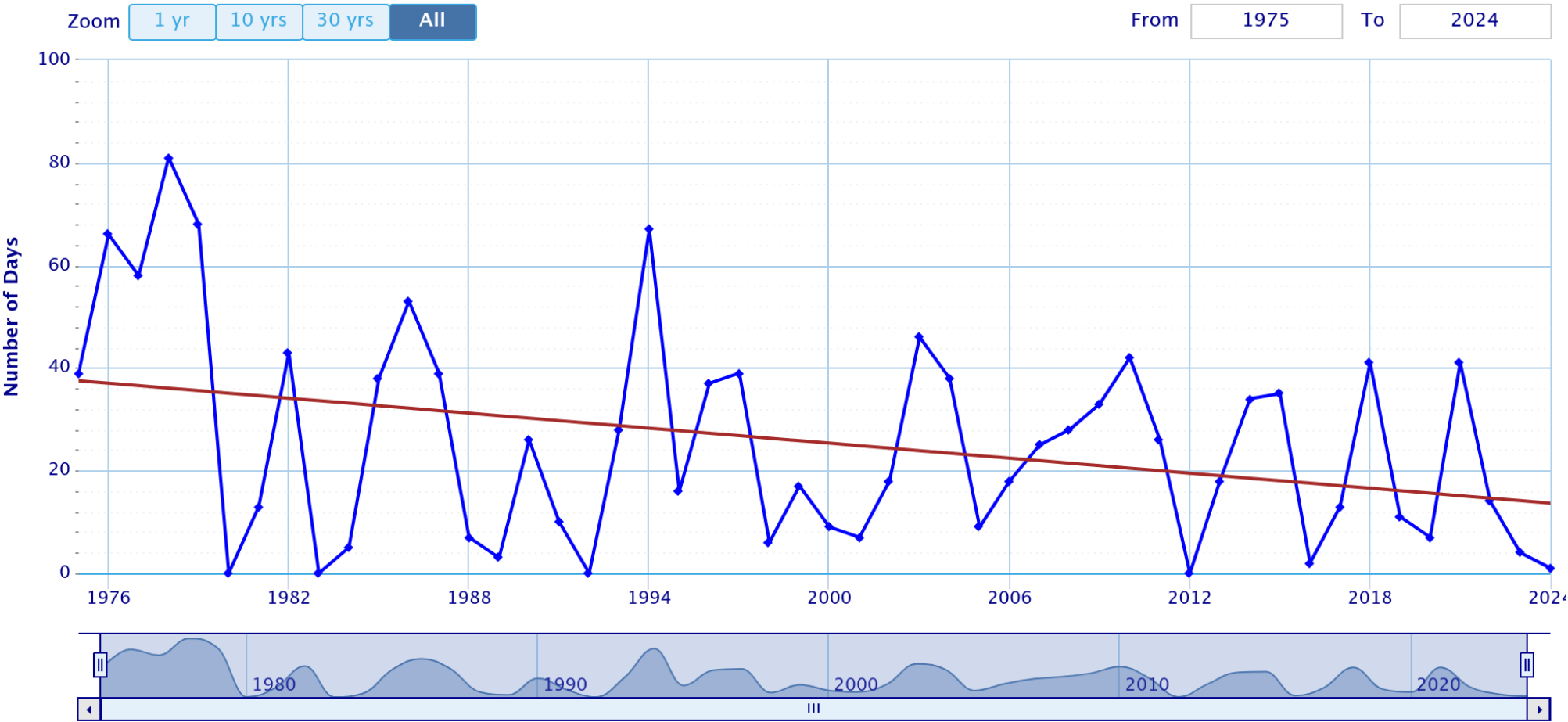
Marquette WFO, MI, Wausau, WI, Lowville, NY, and Chittenden, VT; 1974-2024
 Data retrieved from the Applied Climate Information System

To Pique Your Interest



Number of Days Snow Depth ≥ 12 – Dec through Feb – LOWVILLE, NY

Use navigation tools above and below chart to change displayed range



Powered by ACIS

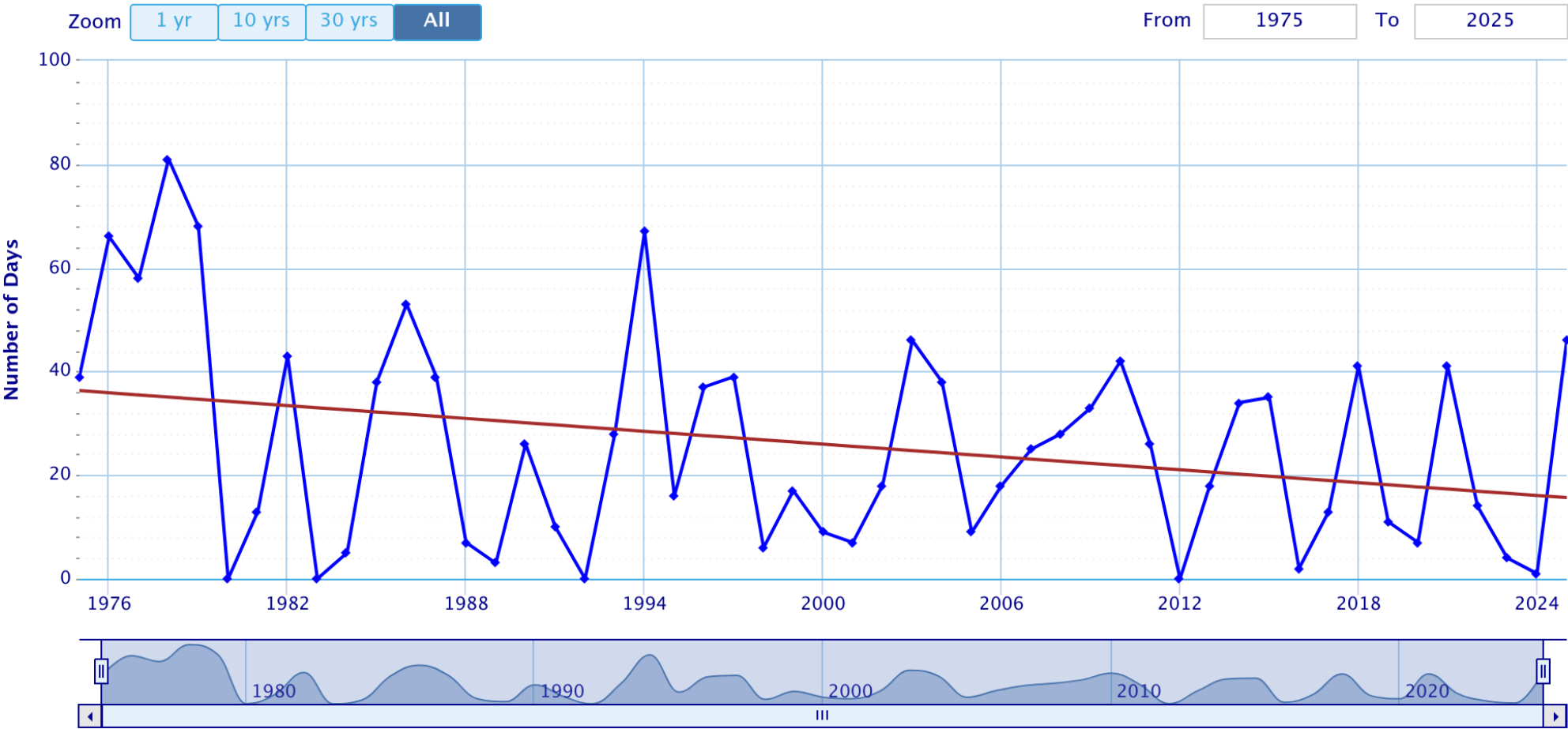
Retrieved from the Applied Climate Information System

To Pique Your Interest



Number of Days Snow Depth ≥ 12 – Dec through Feb – LOWVILLE, NY

Use navigation tools above and below chart to change displayed range



Powered by ACIS

Retrieved from the Applied Climate Information System

The more I dug...



...the more I wanted to keep digging! (into the data)



Question to consider:

What types of snow data are most important to you?

- Date of first/last “big” snow?
- Timing of first snow and soil freeze up?
- Number of days with snow depth above a certain amount?
- Persistence of snowpack?

Do you shovel or scoop the snow?!