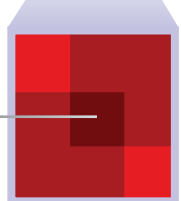
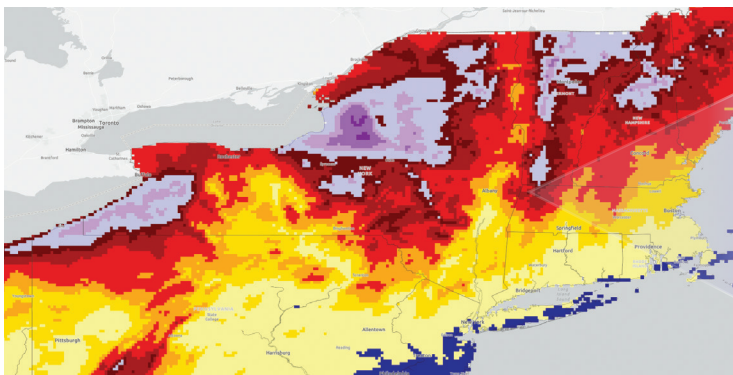


NGSA: NOHRSC National Gridded Snowfall Analysis

The National Gridded Snowfall Analysis (NGSA) is a comprehensive snowfall measurement and mapping system developed by the National Operational Hydrologic Remote Sensing Center (NOHRSC), part of the National Weather Service (NWS) under NOAA. NGSA provides daily estimates of snowfall accumulation across the continental United States using a blend of ground-based observations, radar data, and numerical weather prediction models. This system has been used since 2015, with data as far back as the winter of 2008–2009.



NGSA snowfall data is mapped onto a national grid system, with each grid cell representing approximately 4 km x 4 km.

Snowfall estimates are calculated by integrating multiple data sources, including observer reports, automated weather stations, and radar-derived precipitation types, to produce a consistent and high-resolution snowfall analysis. Each grid cell receives a single snowfall value for a daily, 24-hour time period, allowing for easy comparison and integration with other datasets. NGSA is widely used for:

- Hydrologic modeling
- Transportation planning
- Insurance and risk assessment
- Climate and weather research

Preliminary snowfall estimates are typically available within 24 hours of the event, with updates and refinements occurring as additional observations are received. Final values may be adjusted for up to 7 days to ensure accuracy and consistency.

For more information, please visit nohrsc.noaa.gov/snowfall



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