

PURDUE MESONET

The **Purdue Mesonet**, managed by the *Indiana State Climate Office*, is a statewide network of automated weather stations that monitors Indiana weather and delivers climate data, tools, data visualizations, and resources to enhance Indiana's prosperity and decision-support needs.



Our Mission

- Monitor and assess Indiana weather and climate conditions and impacts to increase community safety, prosperity, and preparedness for extreme conditions
- Provide free, research-grade weather and climate data, derived information, data summaries, and decision-support tools
- Improve spatial coverage of a wide range of weather data in Indiana to enhance science, planning, and safety
- Increase the visibility and understanding of the value of weather and climate data and monitoring through community outreach

Purdue Mesonet Stations



About the **Purdue Mesonet**

- Maintain weather monitoring stations across Indiana, measuring real-time
 - Air temperature (0.5, 1.5, 2, and 3 meters)
 - Wet bulb globe temperature, heat index, and wind chill
 - Soil temperature, moisture (depths of 2, 4, 8 and 20 inches)
 - 7-day soil temperature average
 - Temperature inversion strength
 - Solar radiation
 - Relative humidity
 - Dew point temperature
 - Precipitation
 - Wind speed and direction
- Part of the National Weather Service's National Mesonet Program, which provides partial program support to enhance forecast data needs
- Identifying additional Indiana sites for instrument installation

Contact Us

Indiana State Climate Office

915 Mitch Daniels Blvd. 765-494-8060 West Lafayette, IN 47907 in-sco@purdue.edu

Indiana State Climate Office Director: Dr. Beth Hall



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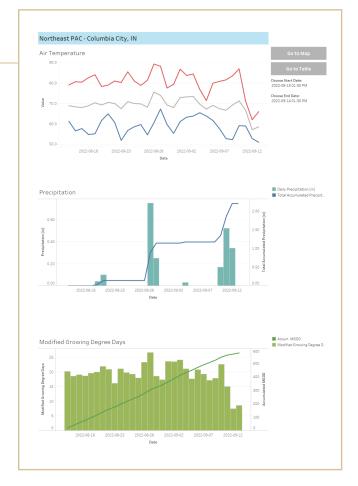
Purdue Mesonet Dashboard

- Compare real-time weather and shallow soil conditions across Indiana
- Access 5-minute, 30-minute, hourly, and daily station graphs and tabular data from each station
- Available measurements:
 - Air temperature
 - Humidity
 - Soil temperature
 - Soil moisture
 - Precipitation
 - Solar radiation
 - Wind speed and direction
 - Modified growing degree days
 - Low-level inversion monitoring
- Free data access for all historical weather data from the Mesonet

Data Hub

Future of the Purdue Mesonet

- Continue expanding the number of stations across the state of Indiana
- Develop additional monitoring and climate tools such as heat index, wind chill, potential evapotranspiration, and Wet Bulb Globe Temperature (WBGT)
- Develop value-added decision support tools such as pest and disease monitoring, departures from climatology, and integrated forecasting



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