

# PURDUE MESONET

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



## Our Mission

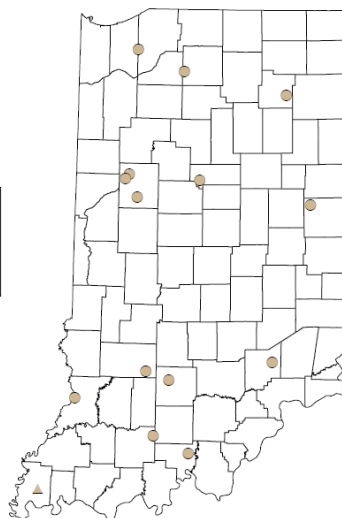
- Monitor and assess Indiana weather and climate conditions and impacts to increase community safety, prosperity, and preparedness for extreme conditions
- Provide free, research-grade weather and climate data, derived information, data summaries, and decision-support tools
- Improve spatial coverage 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

## About the Purdue Mesonet

- **Maintain weather monitoring stations across Indiana, measuring real-time**
  - Air temperature (0.5 m, 1.5 m, and 3 m)
  - Soil temperature, moisture (depths of 2, 4, 8 and 20 inches)
  - Solar radiation
  - Relative humidity
  - 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**
- **Partner with the Indiana Water Balance Network (IWBN)** to promote their weather station network



## Purdue Mesonet Stations



### Legend

- Purdue Mesonet (Active - 14)
- ▲ Purdue Mesonet (Planned - 1)

## Contact Us

### Indiana State Climate Office

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[purduemesonet.org](http://purduemesonet.org)

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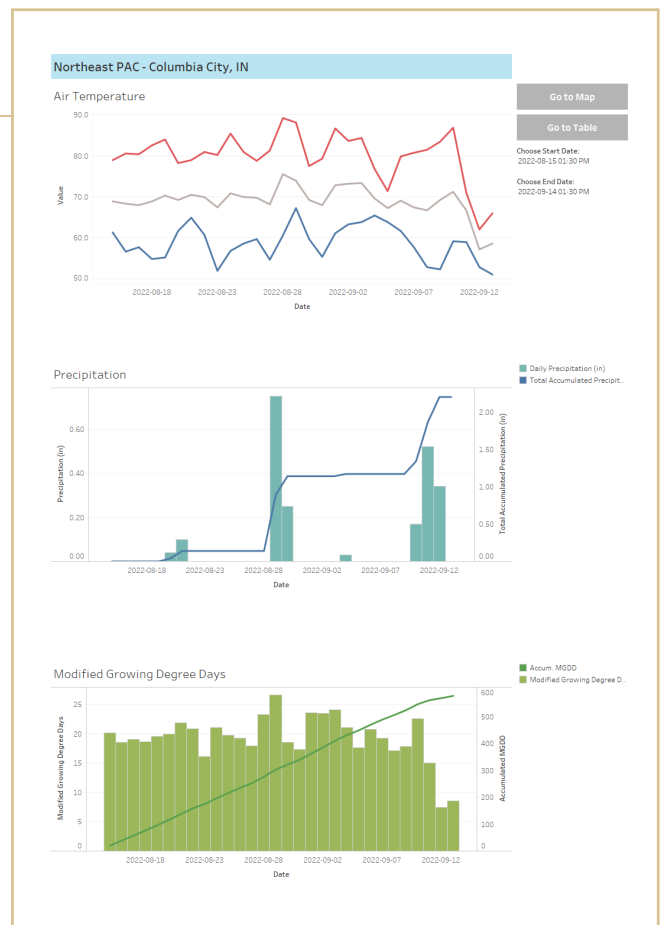


## Purdue Mesonet Dashboard

- Compare real-time weather conditions through the **Purdue Mesonet Data Hub** home page and the Indiana state map
- Access 30-minute, hourly, and daily station graphs and tabular data from each Mesonet station in Indiana
- Monitor real-time or historical data for:
  - 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



Purdue Mesonet Data Hub



## Future of the Purdue Mesonet

- Continue expanding the number of stations across the state of Indiana
- Develop temperature inversion climatology for the state
- Establish a statewide Mesonet Advisory Board to provide guidance on new station locations, online value-added tools, funding support opportunities, etc.
- Develop additional monitoring and climate tools such as heat index, wind chill, potential evapotranspiration

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