

THE INDIANA STATE CLIMATE OFFICE

The **Indiana State Climate Office**, hosted at Purdue University, serves as the primary scientific Extension resource for weather and applied climate science for Indiana through climate monitoring, resources, and outreach.



Our Mission

- Monitor and assess Indiana climate conditions and impacts
- Provide unbiased climate data, derived information, and data summaries
- Translate observational data into value-added information for decision makers
- Manage a research-grade weather observation network across Indiana for monitoring, research, and public safety
- Conduct applied research on climate-related issues that impact Indiana

We Serve

- Agriculture
- Construction
- Educators
- Human health
- Insurance
- Legal
- Local, state, and federal government
- Media
- Natural resources
- Recreation
- Researchers
- Risk management
- Urban planning
- Utilities
- Water resources



Indiana State Climate Office **Products**

- **Purdue Mesonet Data Hub** - <https://purdue.ag/purduemesonet>
Access archived and real-time weather observations from around the state
- **INformer Newsletter**
https://mailimages.purdue.edu/Subscribe/purdue-coa_isco/ClimateINformer.html
Receive quarterly newsletters highlighting climate summaries, tools, and special events
- **Climate Maps**
<https://ag.purdue.edu/indiana-state-climate/climate-maps/>
Auto-generated maps for monitoring temperature, precipitation, frost/freeze probabilities, growing season length, and growing degree days
- **Climatologies**
<https://ag.purdue.edu/indiana-state-climate/tools/miscellaneous-climate-tools/>
Summarized historical data of Indiana tornado trends, first freeze, growing degree days, wind, chilling hours, solar radiation, and cold snaps
- **Weekly Articles**
<https://ag.purdue.edu/indiana-state-climate/resources/>
Provide weekly climate articles to Pest & Crop, Facts for Fancy Fruit, and the Veggie Crops Hotline (Purdue Extension) through the growing season
- **Farming for a Better Climate**
<https://ag.purdue.edu/indiana-state-climate/research/farming-for-a-better-climate/>
Series of articles to help the agricultural community slow climate change and benefit economically

Contact Us

Indiana State Climate Office

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Indiana State Climate Office Director: Dr. Beth Hall



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indianaclimate.org

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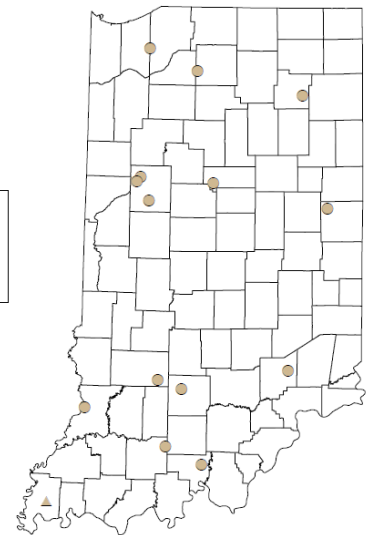
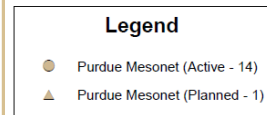
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Research-grade Weather and Soils Monitoring

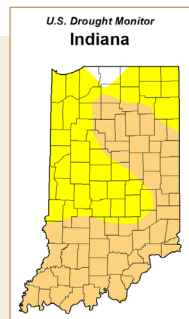
- **Maintain weather stations** (Purdue Mesonet) across Indiana, collecting sub-hourly air temperature (0.5 m, 1.5 m, and 3 m), soil temperature (2", 4", 8", and 20"), solar radiation, relative humidity, wind speed, and wind direction. All are monitored real-time and communicated to the Purdue Mesonet Dashboard
- **Part of the National Weather Service's National Mesonet Program**
- **Pursue and solicit new site locations**, perform quality control and assurance on data, maintain equipment, and provide free online data access and monitoring
- **Partner with the Indiana Water Balance Network (IWBN)** to co-monitor their weather network

Purdue Mesonet



Indiana Drought Taskforce Coordination

- Lead weekly discussions concerning local drought (and flooding) impacts
- Manage weekly Extension Educator County Drought Impacts Survey
- Provide Indiana drought recommendations to the national U.S. Drought Monitor, which releases a map weekly here: <https://droughtmonitor.unl.edu>



Drought Conditions (Percent Area)	None					D1					D2					D3					D4				
	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Current	1.71	96.25	25.43	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Last Week	0.00	100.00	86.38	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
3 Months Ago	72.82	25.38	10.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Year of Onset	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Start of Week	82.82	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
One Year Ago	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

Severity:
 None (White), D1 Moderate Drought (Light Yellow), D2 Severe Drought (Yellow), D3 Extreme Drought (Orange), D4 Exceptional Drought (Red)

The Drought Monitor focuses on meso-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <http://droughtmonitor.unl.edu/drought.aspx>

Author:
 Brian F. Watts
 National Drought Mitigation Center

Reports issued weekly, example is from November 2012

USDA, NRCS, NIDM, NIDM, NIDM, NIDM
droughtmonitor.unl.edu

Indiana's CoCoRaHS Leader

- Co-coordinate 600+ active volunteers across Indiana participating in the Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS)
- Facilitate volunteer training events, webinars, and recruitment activities for new volunteers
- Develop monthly newsletters communicating climate information and precipitation observation techniques

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