



# MESONET

Indiana State Climate Office  
Indiana Geological & Water Survey

[INDIANAMESONET.ORG](http://INDIANAMESONET.ORG)

## COST SHEET

Facilitating better weather safety, water management, and economic prosperity across Indiana

## Why Support

The Indiana Mesonet is a comprehensive network of observation stations that monitors weather, soil, and water conditions across the state. Our goal is to deliver real-time, high-quality data and resources that will improve Indiana's decisions.

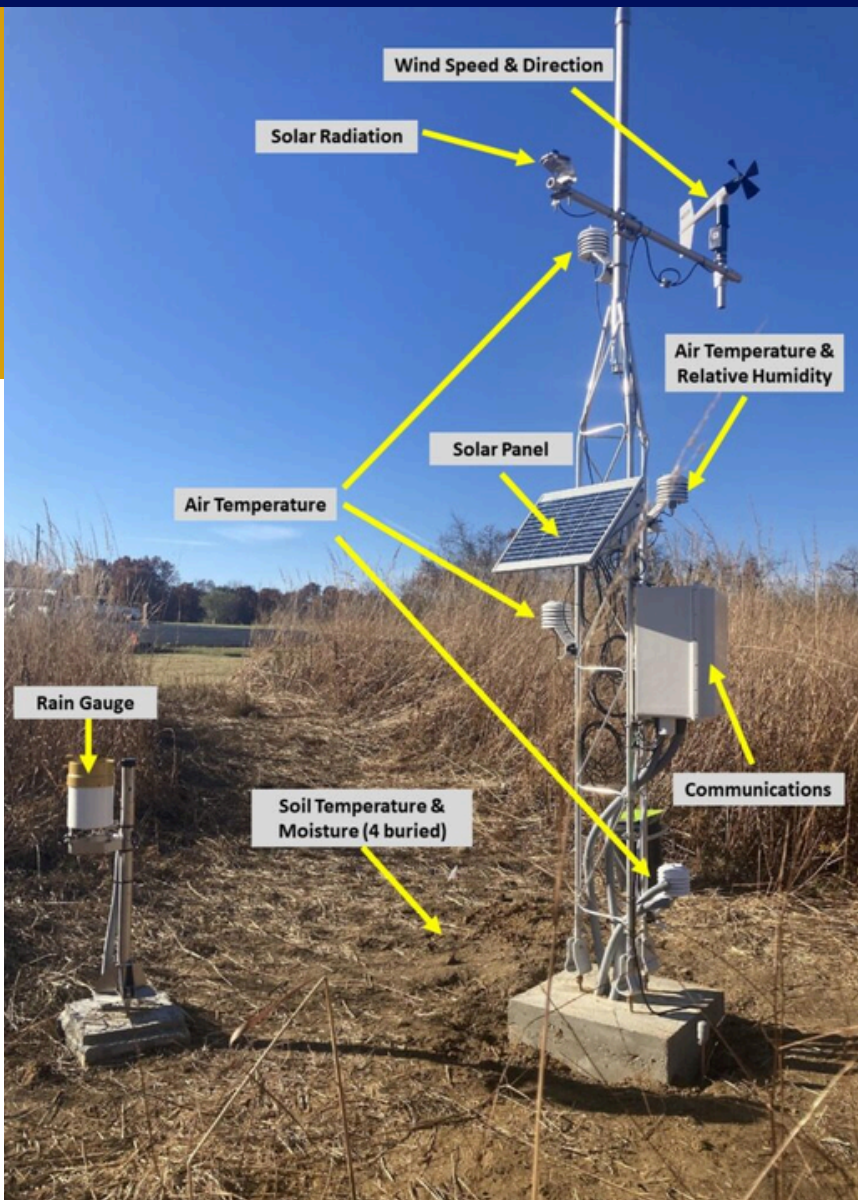
## Installation Costs

- Weather Station - \$35,000
- Personnel - \$5,000
- Security Fencing (optional) - \$5,000

## Network Sustainability

To maintain an operational network, sustainable funding is essential. The annual costs to support a network of 92 stations (one per county) total approximately \$1.05 million, averaging about \$11,400 per station, which includes:

- Personnel - \$730,000
- Sensor Replacement - \$150,000
- Calibrations - \$40,000
- Travel - \$70,000
- General Supplies - \$60,000



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& WATER SURVEY  
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## Full Station Specifications

| Monitoring System       | Sensors                                      | Materials                                    | Installation       | Power             | Site Control             |
|-------------------------|--|--|--------------------|-------------------|--------------------------|
| Atmosphere<br>- Weather | Temperature, Humidity, Wind, Solar, and Rain | Tower, fence, modem, datalogger, and antenna | Tower and concrete | Solar and Battery | Fence, Weather-proof Box |
| Shallow Soil            | Temperature and Moisture                     | Datalogger, transmitter, Conduit             | Soil Pit           | Solar and Battery | Weather-proof Box        |



## Stations

To effectively monitor weather events and better prepare for droughts and floods, stations need paired weather and soil installations with reliable, regularly checked sensors. Stations feature real-time communication, resilient power supplies like solar panels, and strong site security to ensure continuous, accurate data collection and transmission for timely decision-making.

## The Ideal Site

A weather station should be contained within a 32x32-foot area that is situated within a wide open (at least 60x60 feet), flat, grassy location. It should be free of tall objects, maintaining a clearance of at least twice their height to reduce wind interference, and accurately reflect the surrounding landscape.



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