

COST SHEET



MESONET

Indiana State Climate Office
Indiana Geological & Water Survey

INDIANAMESONET.ORG



Why Support

The Indiana Mesonet is creating a statewide network of observation stations to monitor Indiana weather, soil and water conditions. Our aim is to provide real-time data and resources to enhance Indiana's decision-support tools.

BE WEATHER & WATER READY

Installation Costs

Full Station Cost - \$135,000

Materials, sensors, installation, power, and security

Weather Monitoring - \$45,000

Tower, sensors, communication, power, and security

Soil Monitoring - \$15,000

Soil column, sensors, communication, and site control

Water Table Monitoring - \$15,000

Shallow Well Piezometer, sensors, and site control

Runoff Monitoring - \$15,000

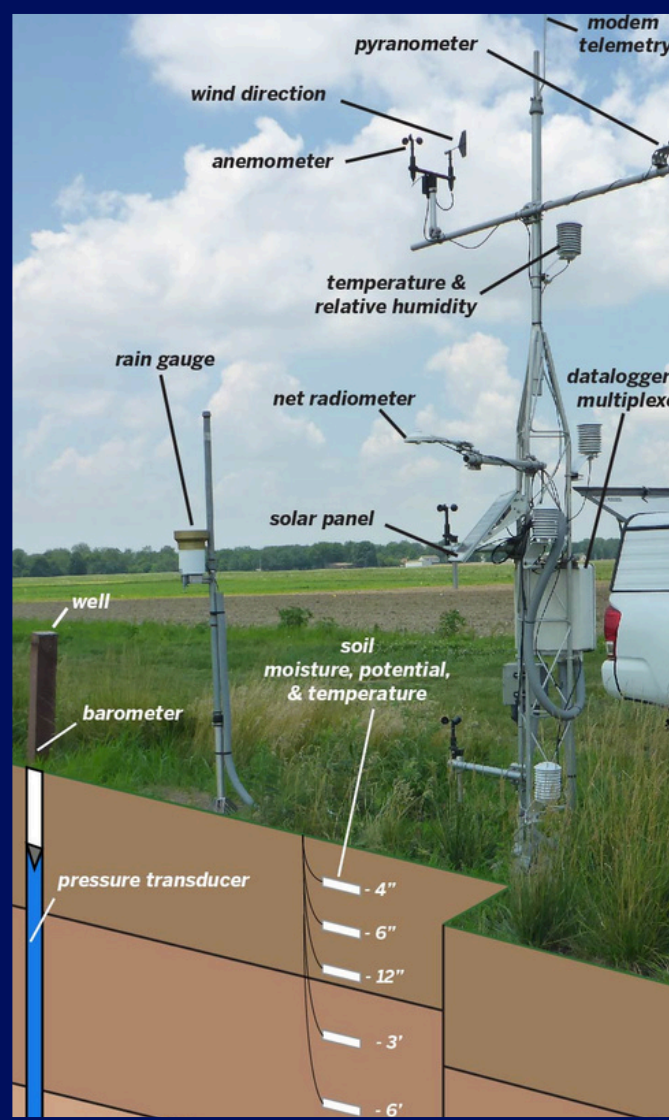
Stream flow weir, sensors, power, and security

Aquifer Monitoring - \$45,000

Water Well, sensors, communication, and security

One-time Investment of \$9.2 M

68 more stations to cover Indiana with one per county



Full Station Specifications

Monitoring system	Sensors	Materials	Installation	Power	Site Control
Atmosphere - Weather	Temperature, humidity, wind, solar, and rain	Tower, fence, modem, datalogger, and antenna	Tower and concrete	Solar & battery	Fence, strong box
Soil - Moisture Movement	Temperature, moisture, movements	Pole datalogger, transmitter	Soil pit	Solar & battery	Strong box
Water - Groundwater, Runoff, Streamflow	Water levels, flow, temperature	Casing, Riprap, Datalogger, Transmitter	Well -Drill or probe Runoff - weir or flume	Solar & battery	Steel cover, box, or fence

Network Sustainability

- Our Partnership allows leverage of expertise and resources to sustain a holistic network of quality data.
- To sustain the stations and expertise we require sustainable funding to support our technicians, database managers, developers, and program specialists.

Annual operating costs 92 stations - \$1.6M

- Personnel = \$996,000
- Sensor replacement = \$200,000
- Calibrations = \$40,000
- Administration = \$434,000

Site Requirements

To accurately monitor weather events, better prepare for droughts and floods in our landscape, stations require paired tower weather, soil installations, groundwater wells, and stream flow measurements that are equipped with regularly checked sensors, real-time communications, resilient power supplies, and site security.



Ideal sites-

15' x 15' tower, soil, and well site collocated with open area surrounding.