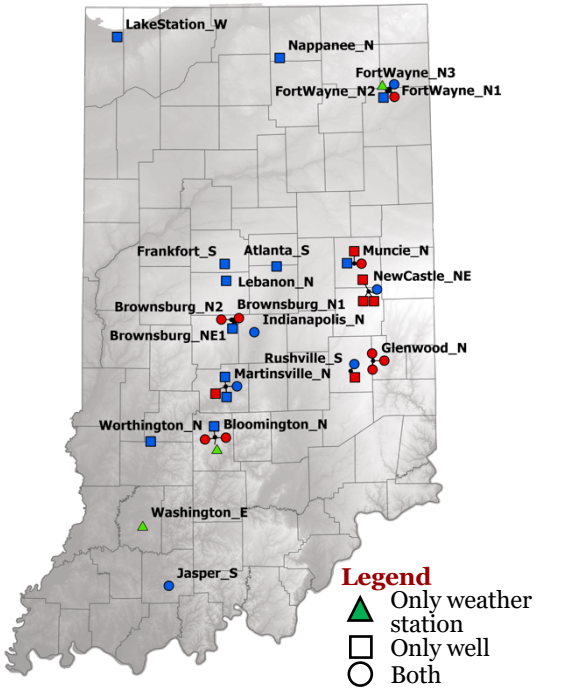
INDIANA GEOLOGICAL & WATER SURVEY
INDIANA UNIVERSITY

The Indiana Water Balance Network

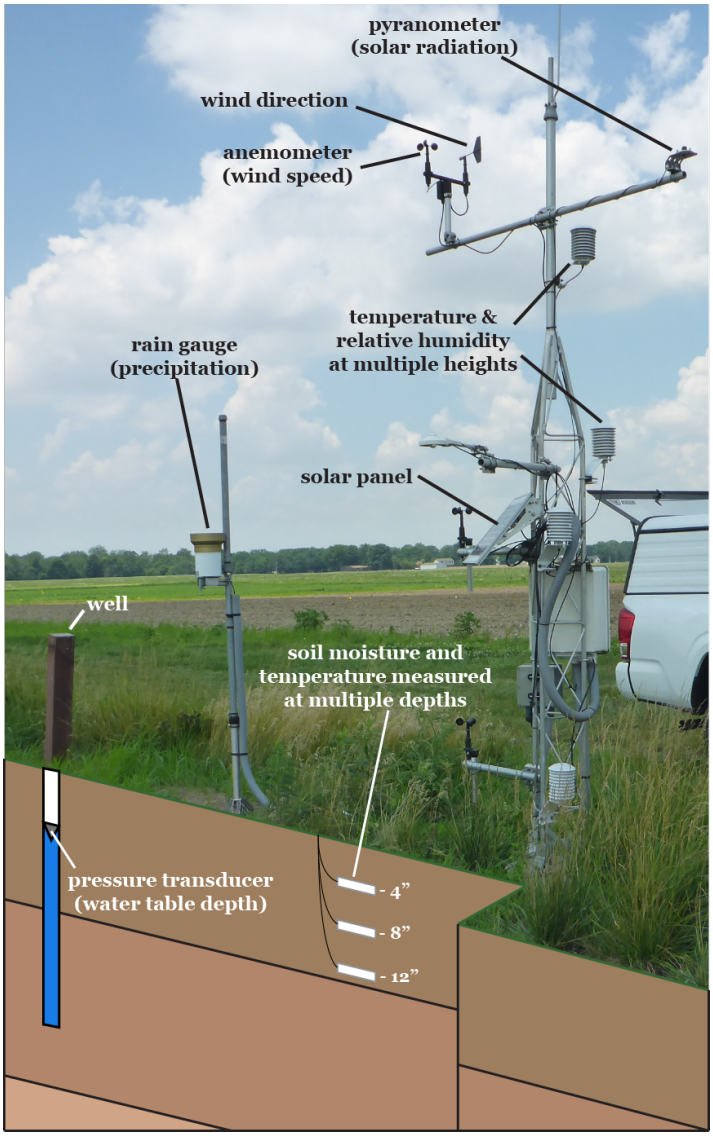
Our mission

- Monitor the status of Indiana's groundwater resources and their interactions with rock, sediment, soil, and atmosphere.
- Assess baseline conditions and long-term trends of the hydrologic cycle.
- Provide free and publicly available quality-assured data to fulfill Indiana's needs for water-resource planning.
- Support the National Groundwater Monitoring Network (NGWMN) in their efforts to study the nationwide status of groundwater resources.



About our stations

- The IWBN maintains multiple well, soil, and atmospheric water balance stations across Indiana.
- Data loggers are programmed to collect data and perform calculations that are relayed to IGWS researchers and populate a public database.
- Stations monitor various components of the hydrologic cycle with the instruments illustrated below:



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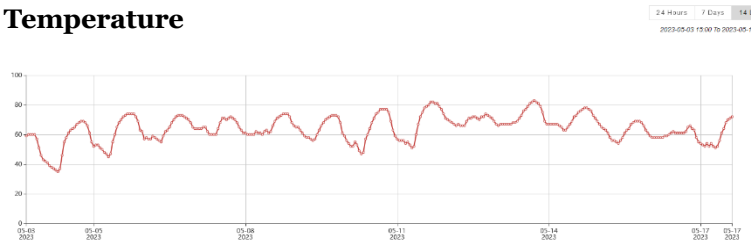
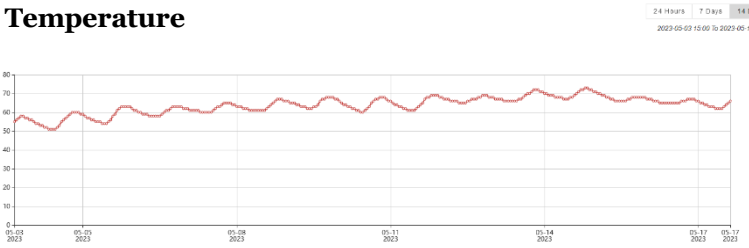
IWBN dashboard

- Enables free, public access to well station data through the Indiana Geological & Water Survey (IGWS) website
- Provides real-time data and averages over 24-hour, 7-day, and 14-day periods.
- Displays hourly graphs over 24-hour, 7-day, and 14-day periods.
- Allows users to view and access data for the following:
  - Soil moisture (m^3/m^3)
    - Monitored at 4 in – 6 ft depth
  - Soil temperature (°F)
  - Groundwater levels (ft)
  - Precipitation (mm)
  - Solar radiation (mJ/m^2)
  - Air temperature (°F)
  - Relative humidity (%)
  - Wind direction (°)
  - Wind speed (mph)

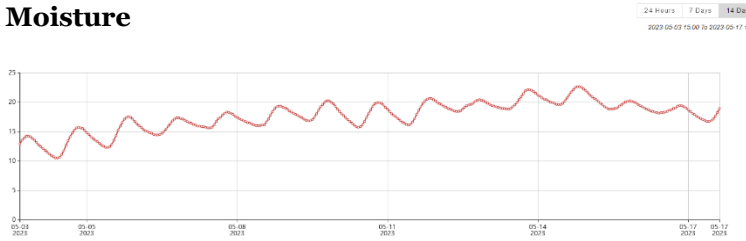
Air Temperature



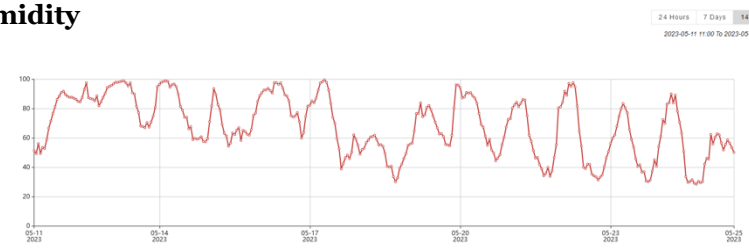
Soil Temperature



Soil Moisture



Humidity



Contact IWBN

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IGWS website

IWBN dashboard

Future work

- Expand well network to increase coverage of Indiana.
- Monitor a greater diversity of landscapes' water cycles.
- Perform water quality considerations for current stations.