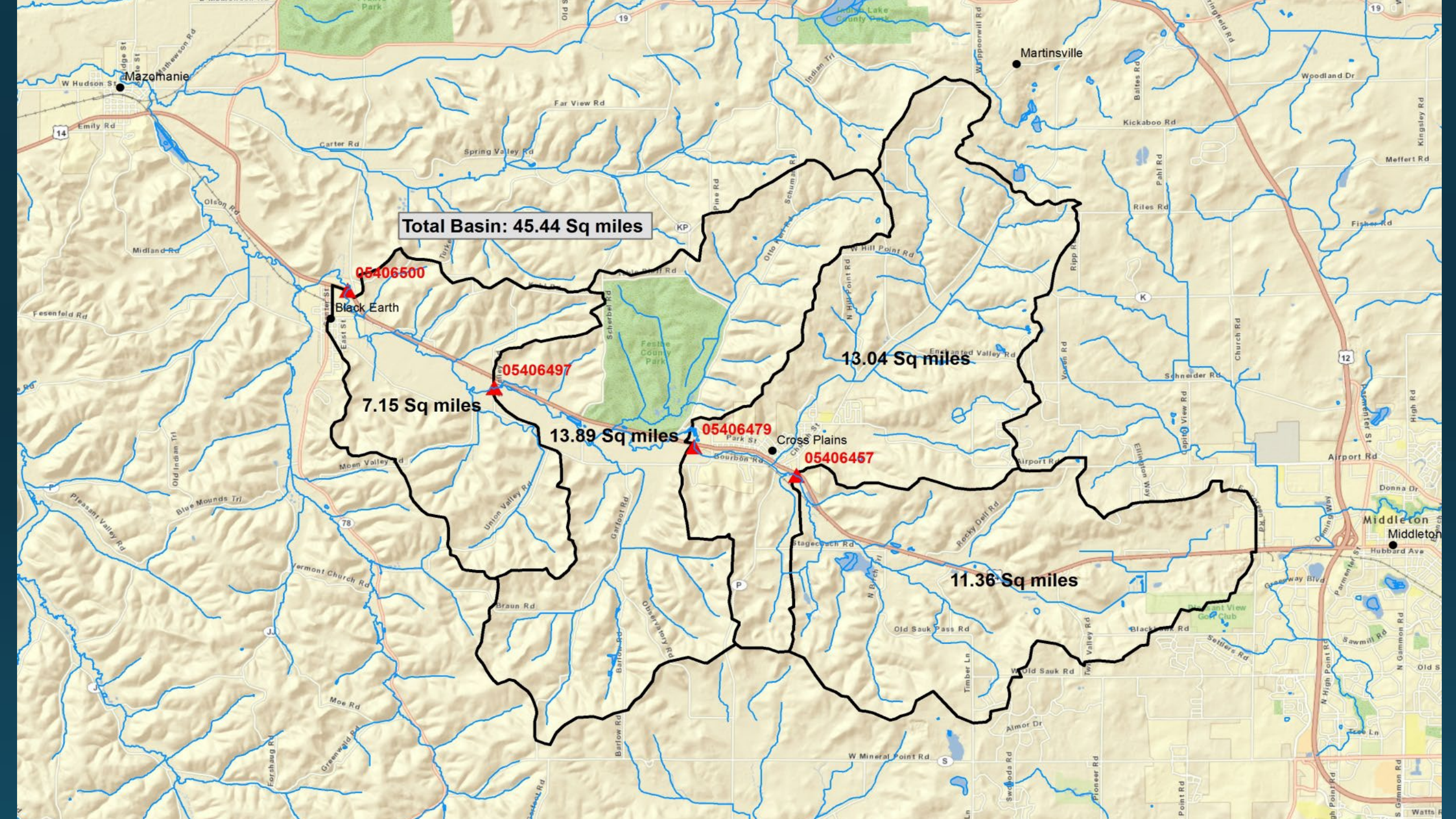


Black Earth Creek Watershed Monitoring



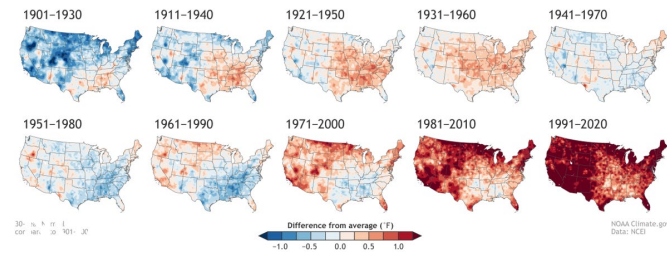


Challenges for the Black Earth Creek Watershed

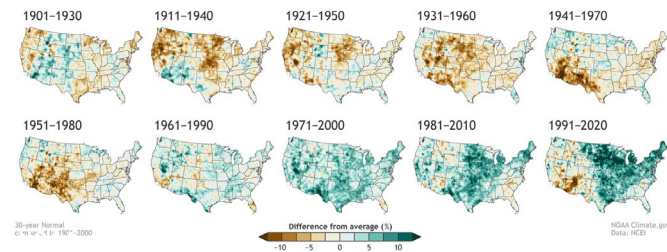
Changing Weather Patterns

- Increased average precipitation and temperature over the last 100 years
- Average precipitation and temperature predicted to continue to increase

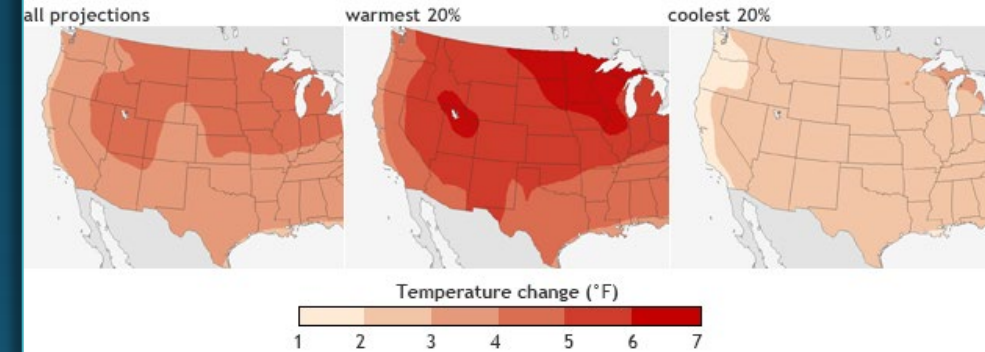
U.S. ANNUAL TEMPERATURE COMPARED TO 20th-CENTURY AVERAGE



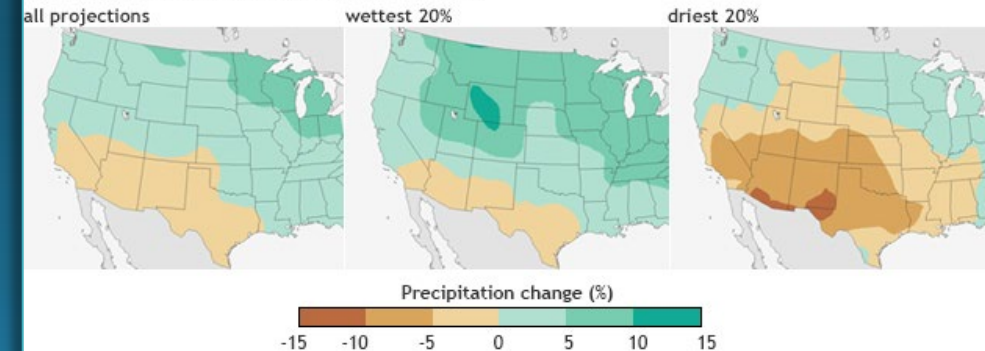
U.S. ANNUAL PRECIPITATION COMPARED TO 20th-CENTURY AVERAGE



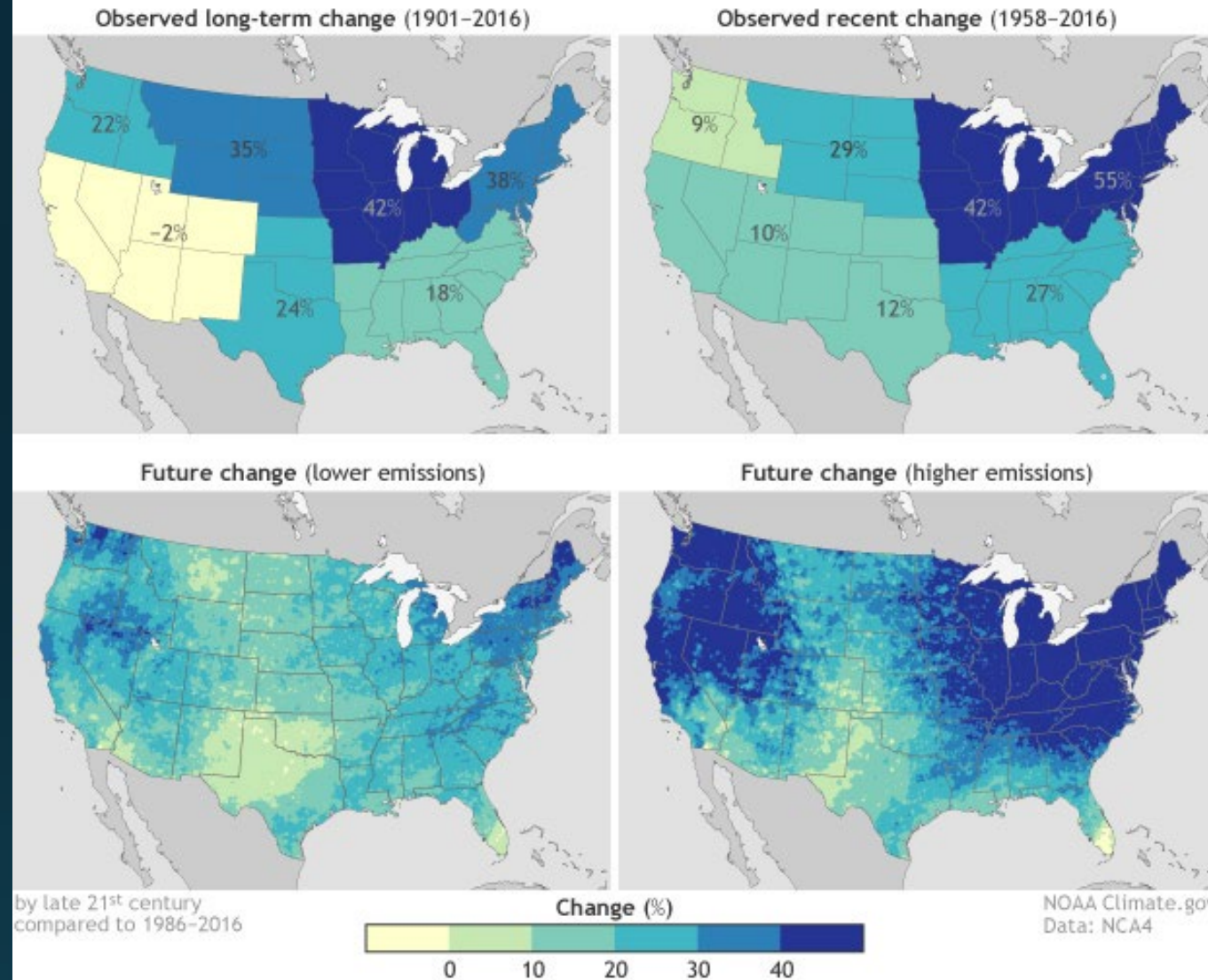
Projected annual temperature change by 2050



Projected annual precipitation change by 2050



Change in extreme precipitation across the United States

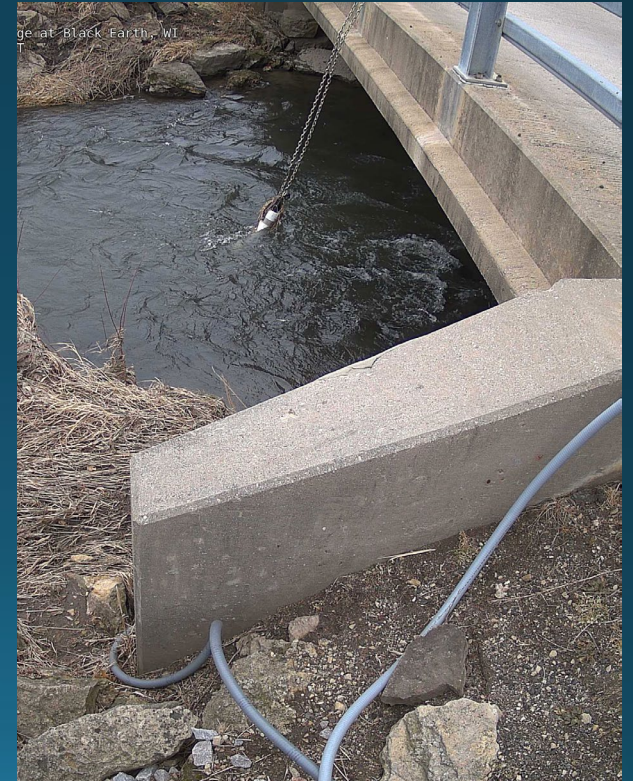


Changing Weather Patterns

- Predicted increases in extreme precipitation

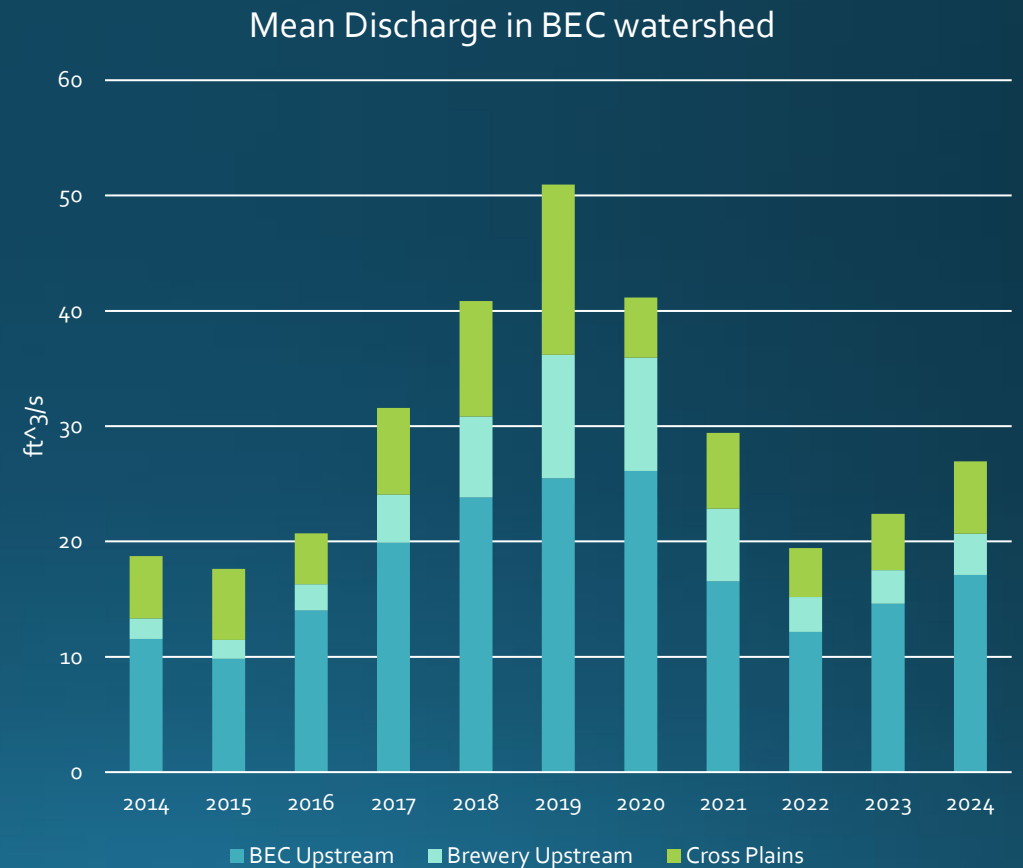
Data Collection

- Water Quality
- Sediment
- Nutrients
- Discharge
- Rainfall

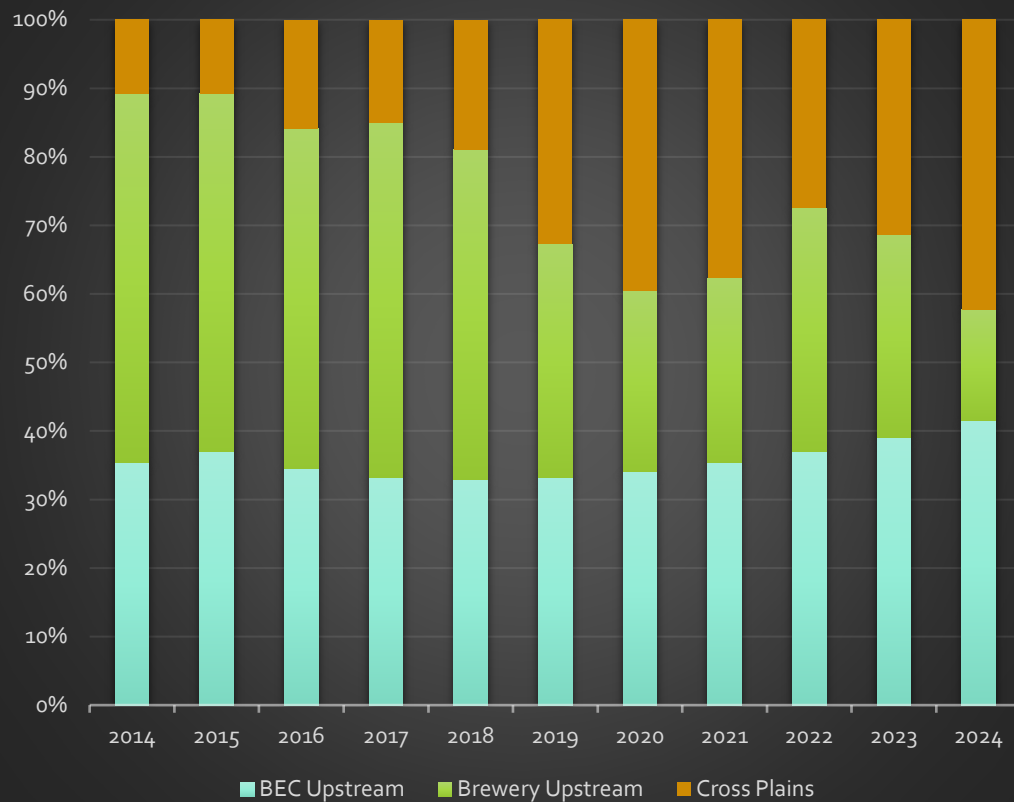


Data uses

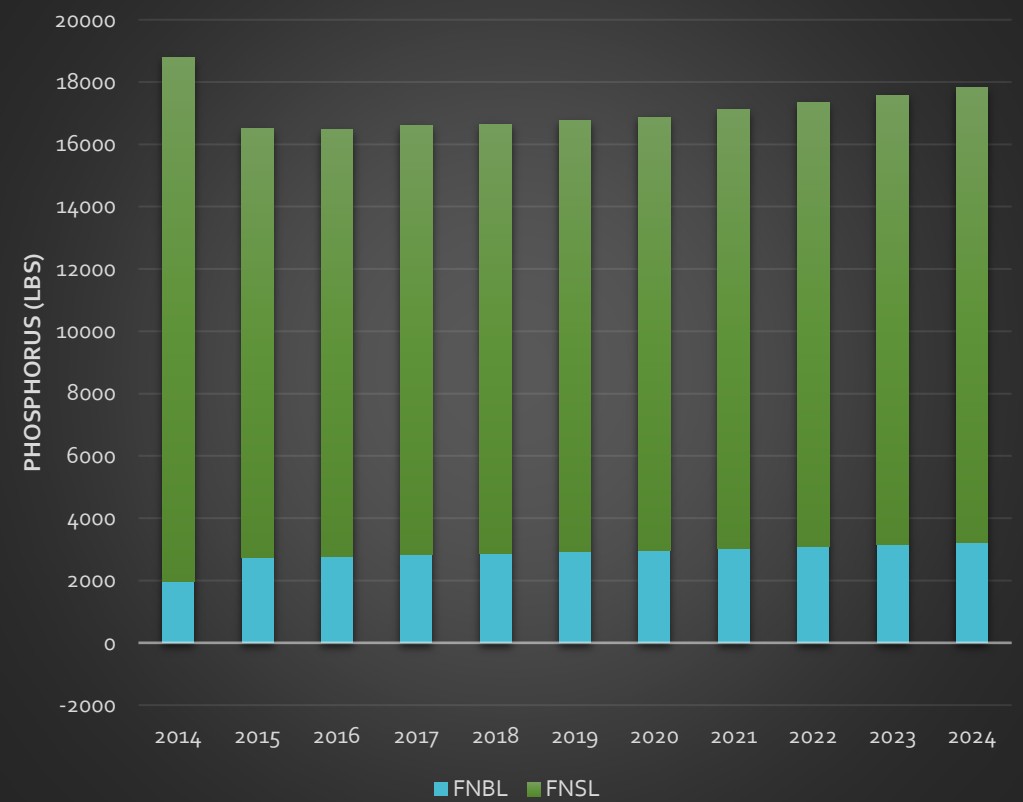
- Publicly available
- Fishery Management
- Flood Protection
- Watershed trends
 - Changes over time in discharge, nutrient loading, and water quality
 - Drivers of changes
 - Modeling future water quality trends



Flow Normalized Phosphorus Load

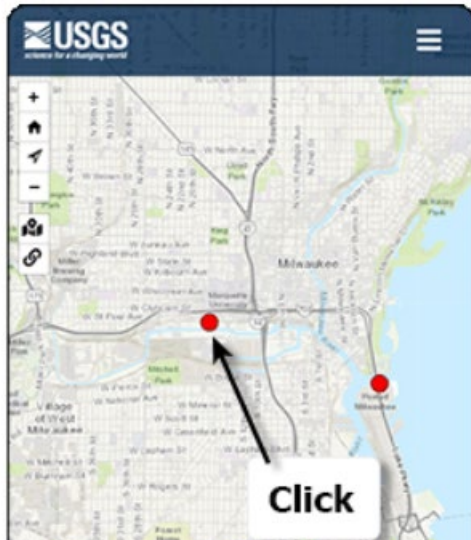


Downstream Black Earth Creek



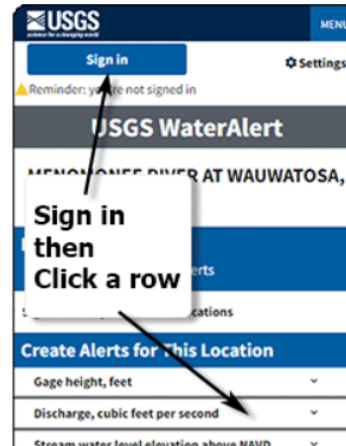
1 Find a monitoring location.

Use [National Water Dashboard](#).



3 Select a water condition in which you have an interest.

In WaterAlert, sign in then click one of the water conditions rows - which water conditions are available is dependent on the sensors at the selected monitoring location.



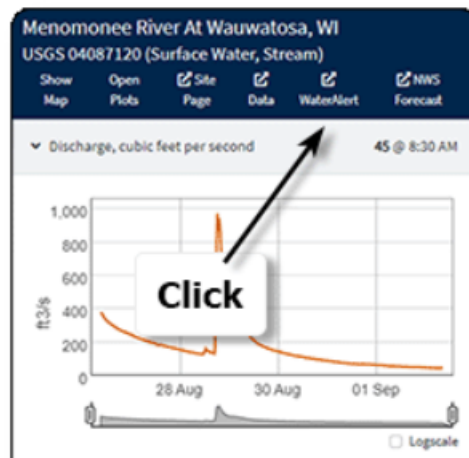
<https://accounts.waterdata.usgs.gov/wateralert/>

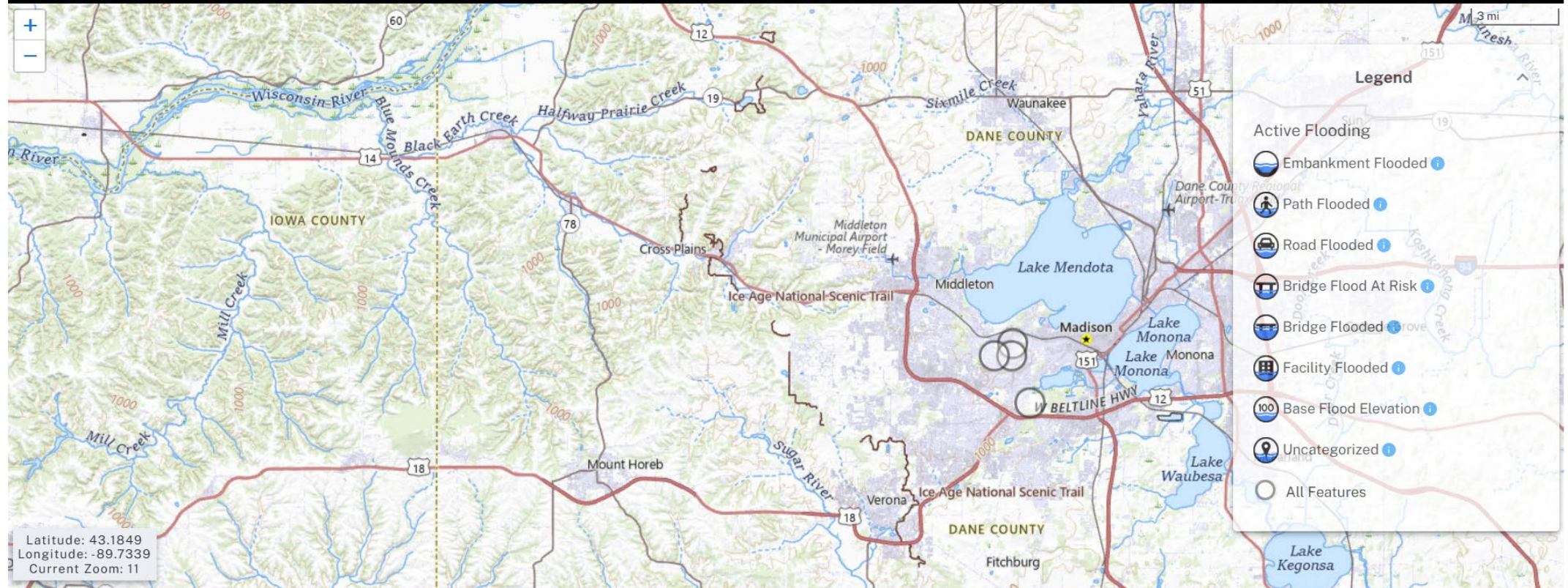
4 Set your thresholds.

Enter a threshold value, click *Create alert* and you're done! WaterAlert will send you a notification when water conditions match your thresholds. In the meantime, check out the [User Guide](#).

2 Tell WaterAlert which monitoring location.

Use [National Water Dashboard](#) to connect with WaterAlert.

A screenshot of the "Create Alerts for This Location" form in the USGS WaterAlert app. The form shows the selected condition "Discharge, cubic feet per second" with a latest value of 253 ft³/s on Fri, 27 May 2022 15:45:00 GMT UTC. The user has set a threshold of 15000 ft³/s. The form includes options for alert frequency (Once per day) and a summary of the alert conditions. An arrow points to the "Create Alert" button.





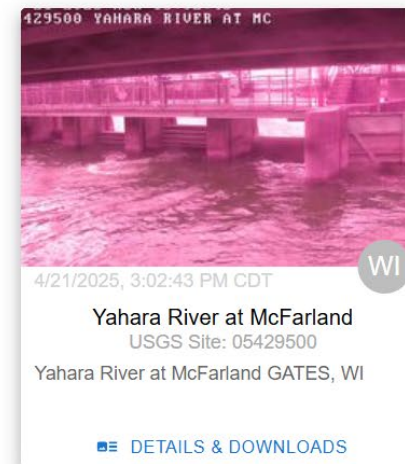
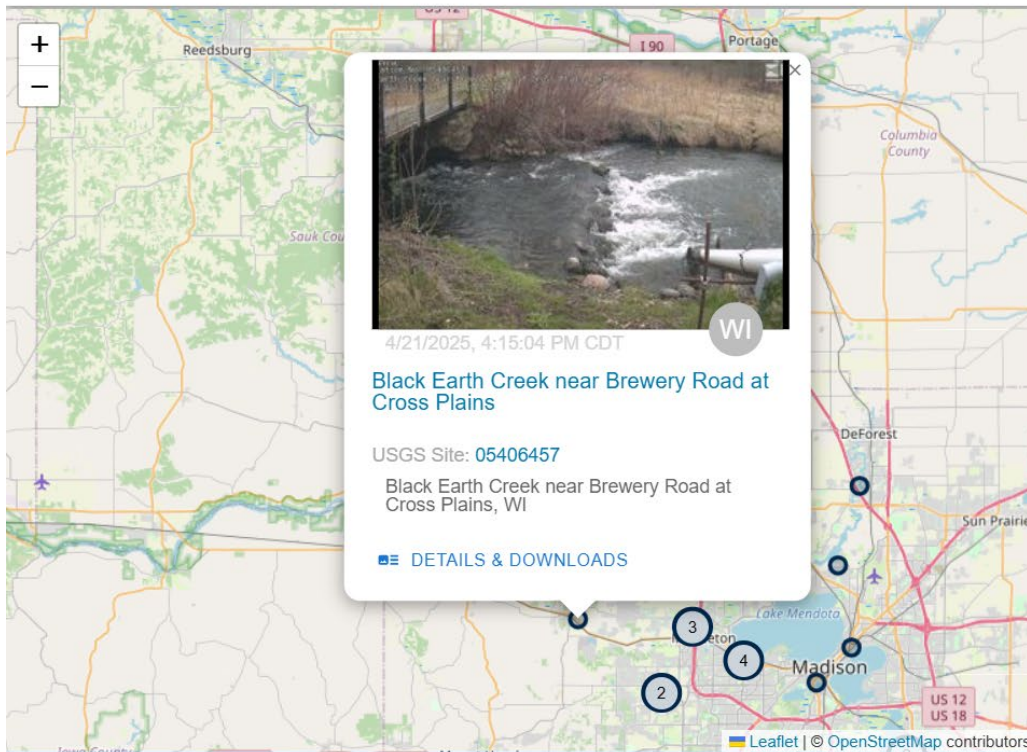
HIVIS

Hydrologic Imagery Visualization and Information System

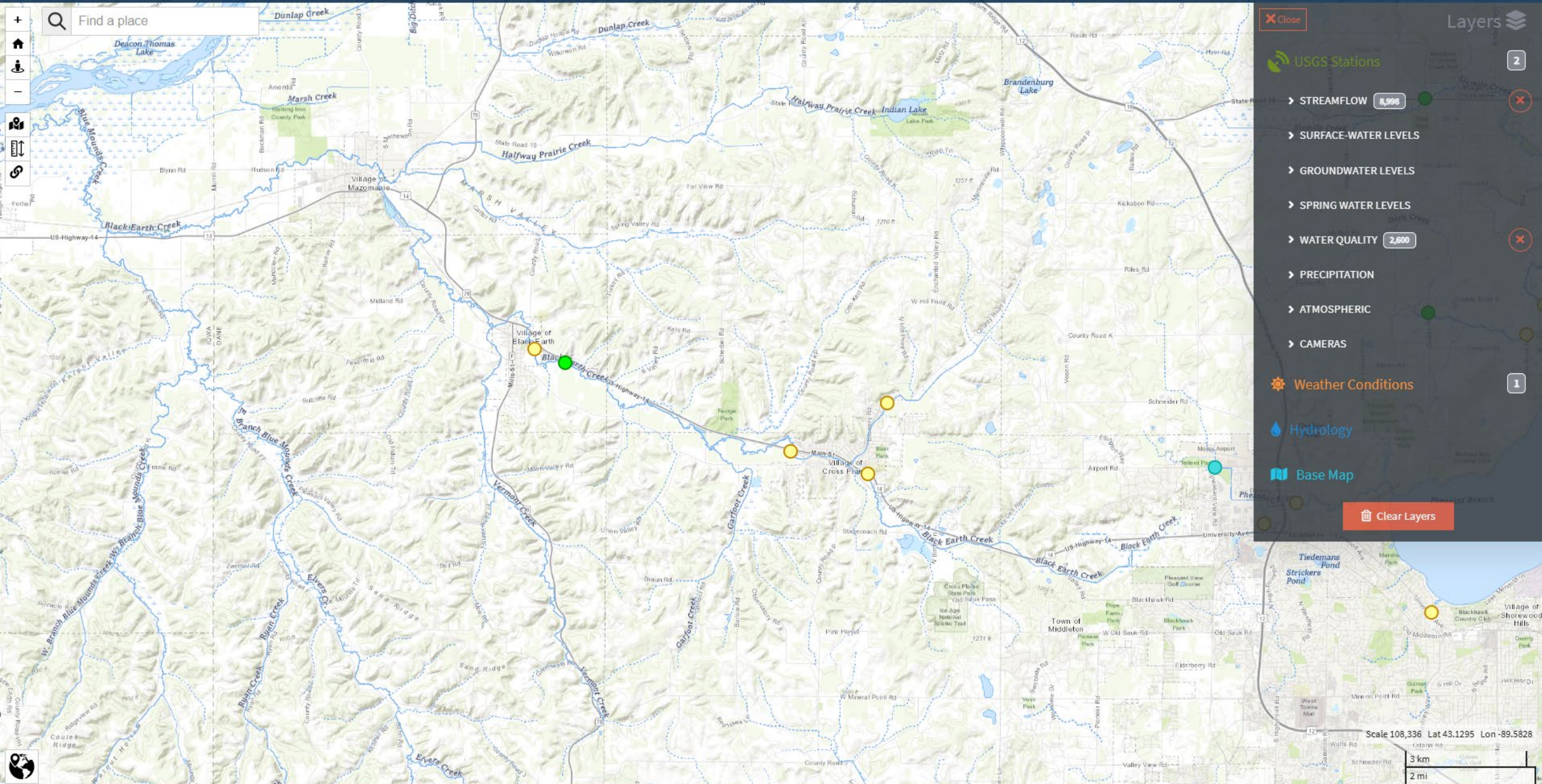
State
WI

Text Search

233 Cameras



apps.usgs.gov/hivis/



Questions?

