

Fixing Data and Information Gaps for Water Planning and Management

DNR
Indiana Department
of Natural Resources

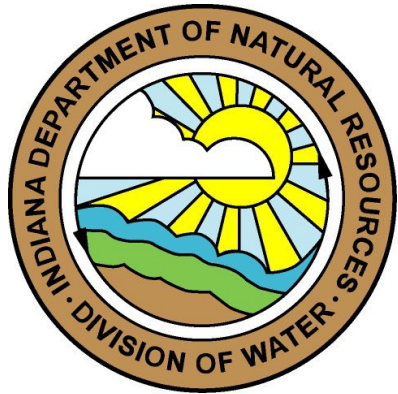


Indiana Water Summit
August 10, 2023

Garth Lindner – Division of Water

DNR Role – Division of Water

The Division of Water is a regulatory and public information agency, having diverse responsibilities associated with the evaluation of Indiana's water resources, and development near Indiana's waterways and lakes.



Resource Assessments

- [Monthly Water Resource Summary](#)
- [Water Shortage Plan](#)
- [Ground Water Basics](#)
- [Basin Studies](#)
- [Aquifer Systems Mapping](#)
- [Potentiometric Surface Mapping](#)
- [Water Availability](#)

<https://www.in.gov/dnr/water/>

Regulatory responsibilities:

- Floodway construction
- Floodplain hazard analysis
- Lakebed and shoreline alteration
- Dam safety
- Conservancy districts
- Water use
- Water well construction

Useful public information:

- Water availability
- Water use
- NFIP participation

Water resource information:

- Individual citizens
- Industry
- Environmental groups
- Government agencies

Programmatic responsibilities:

- Floodway construction
- Dam safety
- Flood hazard planning
- Flood plain regulations
- Conservancy districts
- Water well construction

Floodplain mapping and permitting

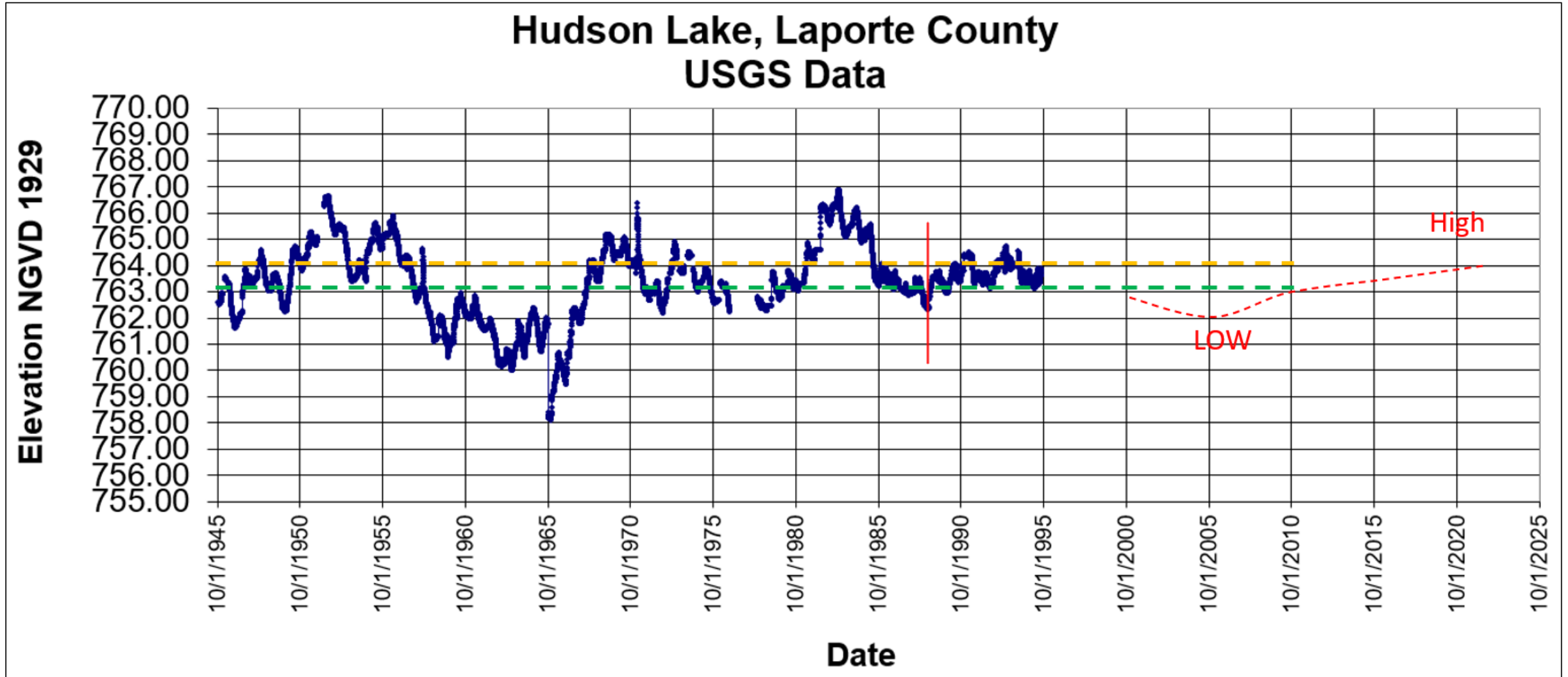
- Stream gages



Best Available showing floodway and reducing floodplain fringe



Lake permitting – Lake gages



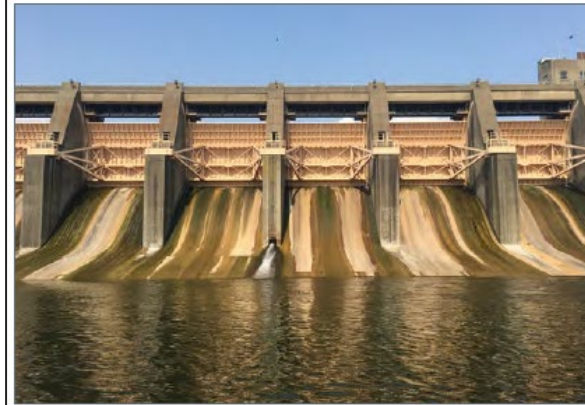
Dam permitting and operations

- Lake and stream gages



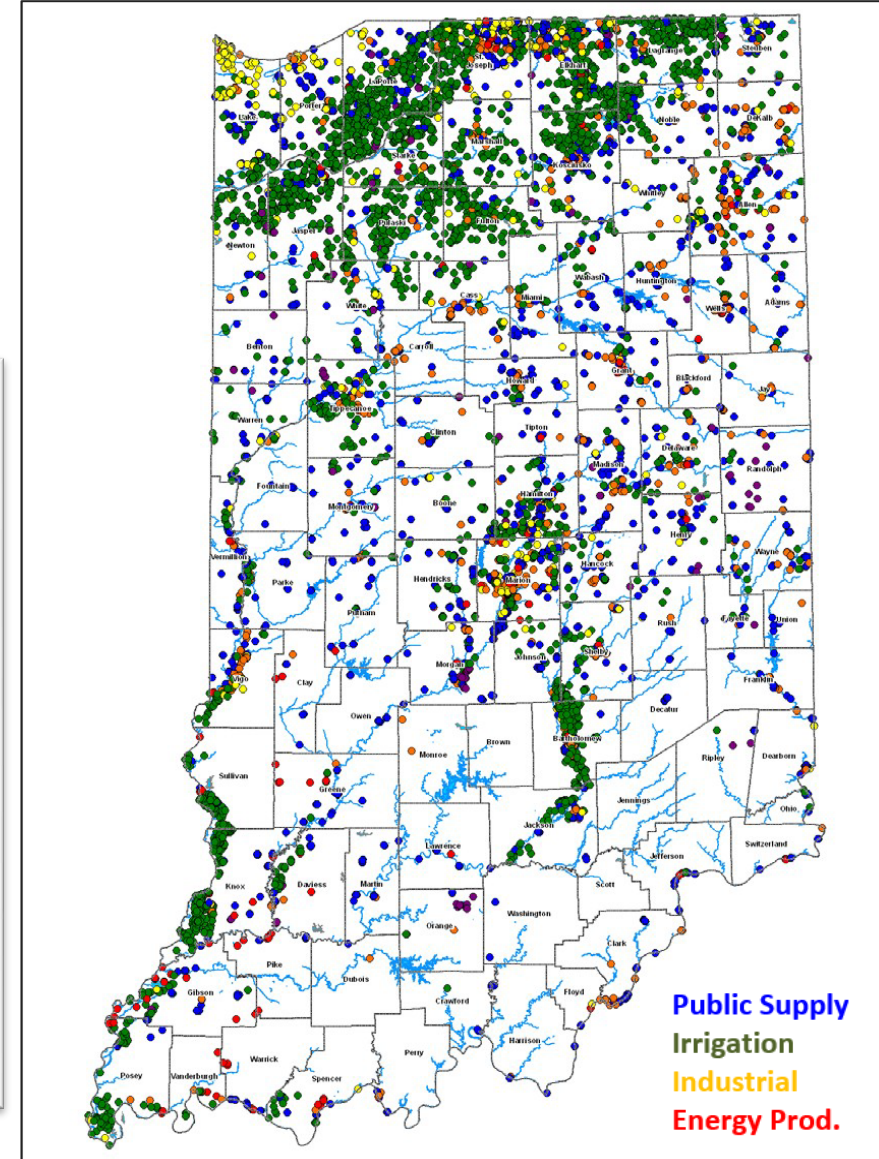
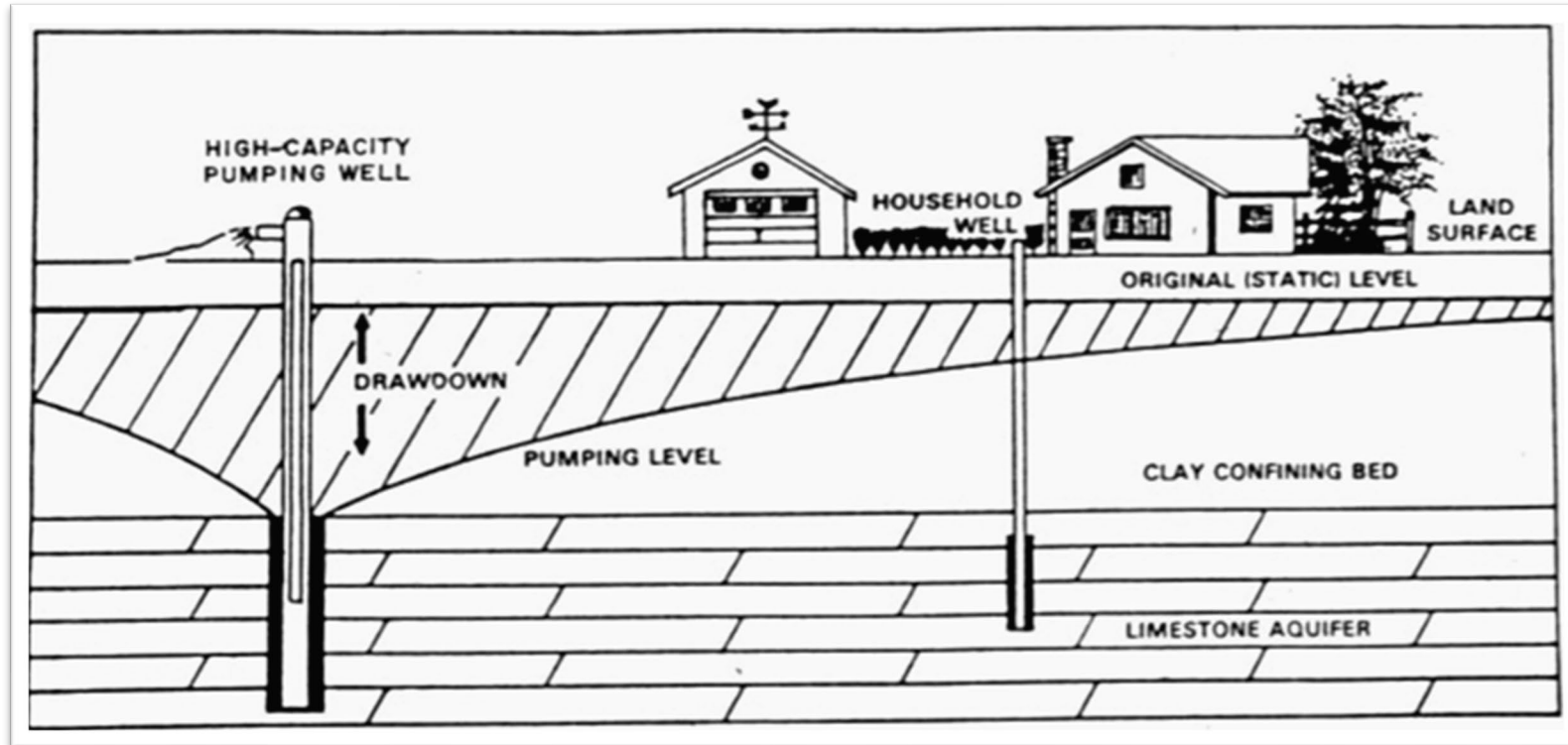
EAGLE CREEK RESERVOIR DAM (49-12)

2020 Dam Safety Inspection Report
Marion County, IN | October 2021
Inspection Date: August 2020



Water Conflicts

- Groundwater gages (wells)

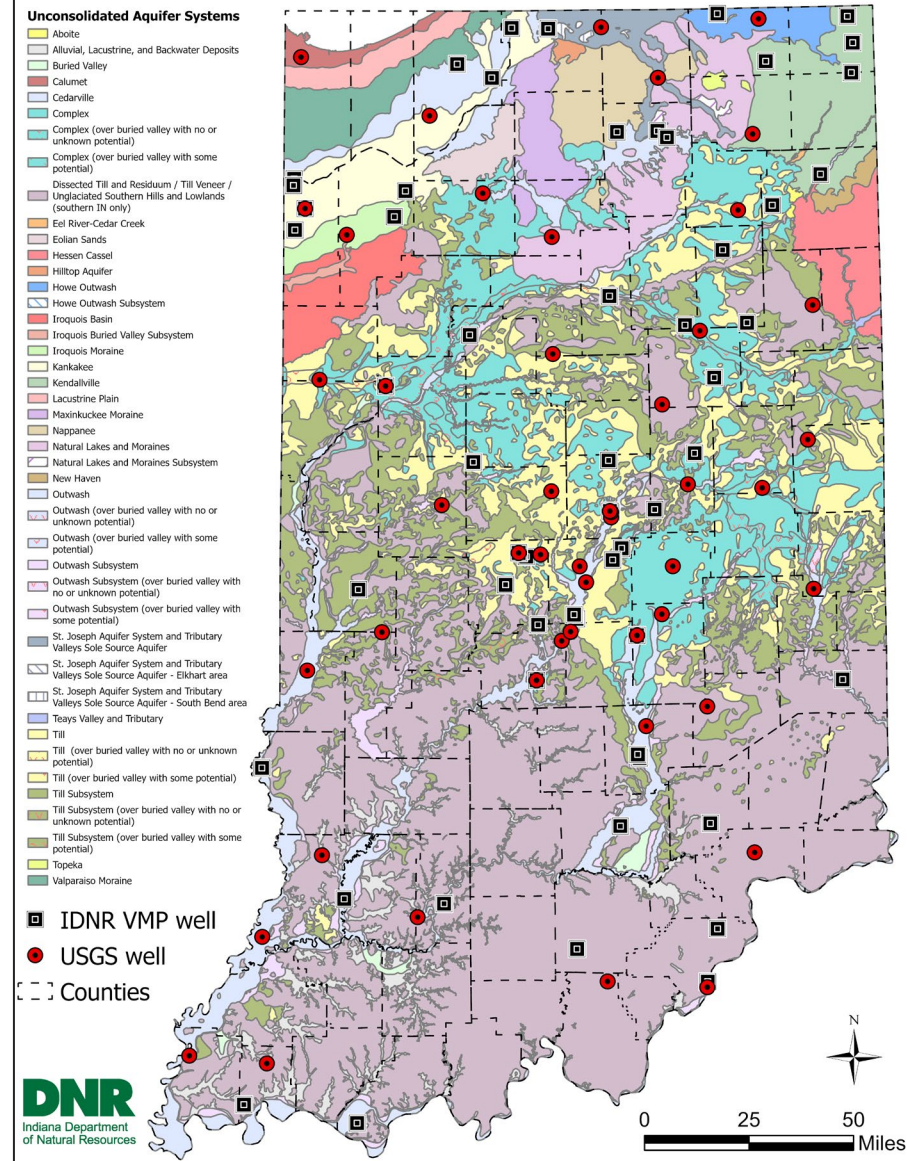
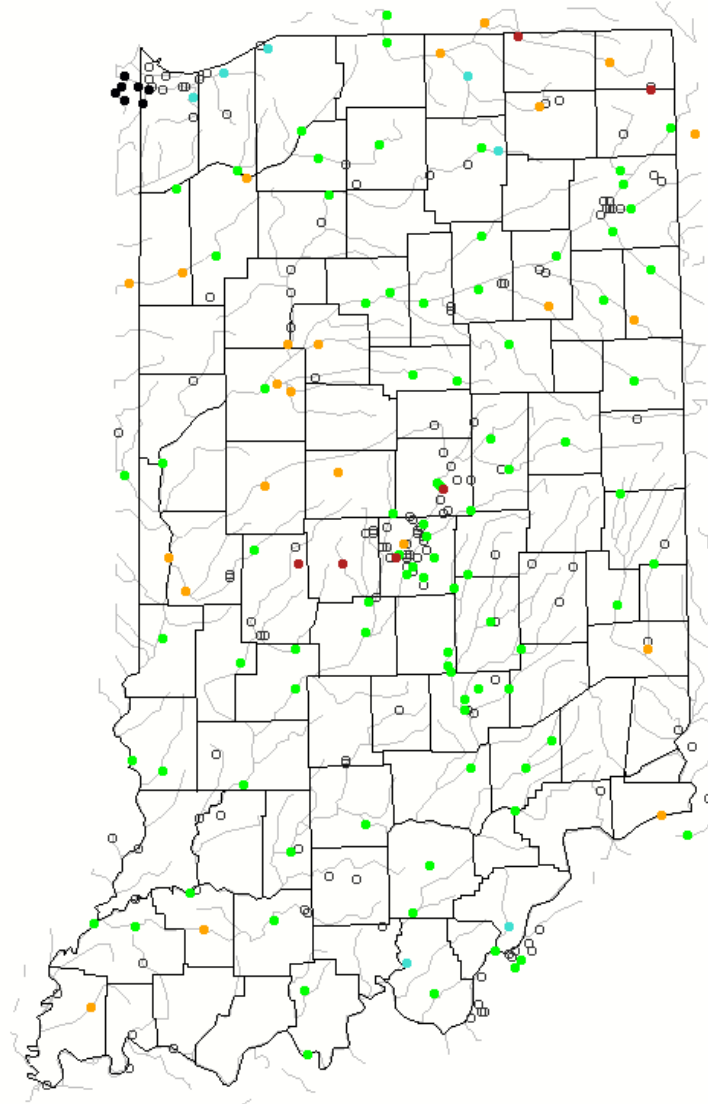


Division of Water - Monitoring

46 streamgages

~100 groundwater wells

4 lake level gages



The state received 0.5" to 2.0" of rainfall during the week of July 6-13. Heavier amounts were received in the central portion of the state.

Mean temperatures for the week of July 6-13 were below normal ranging from 69.4°F in northern Indiana to 77.5°F in southern Indiana. Departure from normal temperature ranges from -4.9°F to +2.1°F.

4" soil water content from the Purdue Mesonet Data Hub on July 13, 2023, indicates a range of 14.5% available water in northern Indiana to 34.2% in southern Indiana with a statewide average of 26.9%.

Soil moisture data from the NASA SPORT Real-time 3km Land Information System is currently unavailable due to a technical outage.

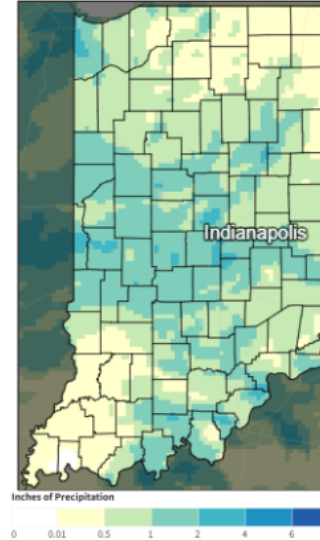


Figure 1. Accumulated Precipitation (in.) for July 7-13 from NOAA

USDM for the State of Indiana

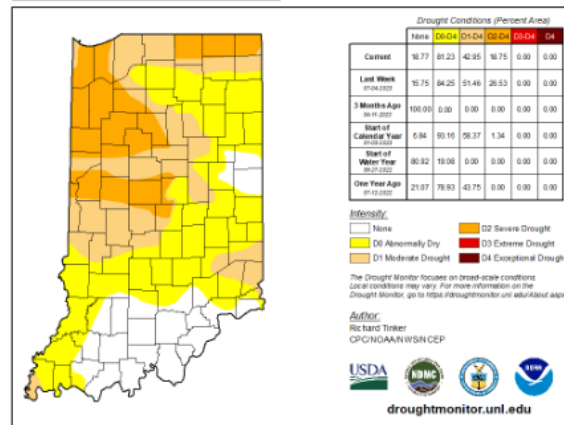


Figure 2. US Drought Monitor for the State of Indiana on July 11, 2023

Hydrologic summaries

June 2023 Water Resource Summary

Assessment of Precipitation, Streamflow, Groundwater Levels, and Reservoir Levels for the State of Indiana

Completed by the Resource Assessment Section Staff

July 7, 2023

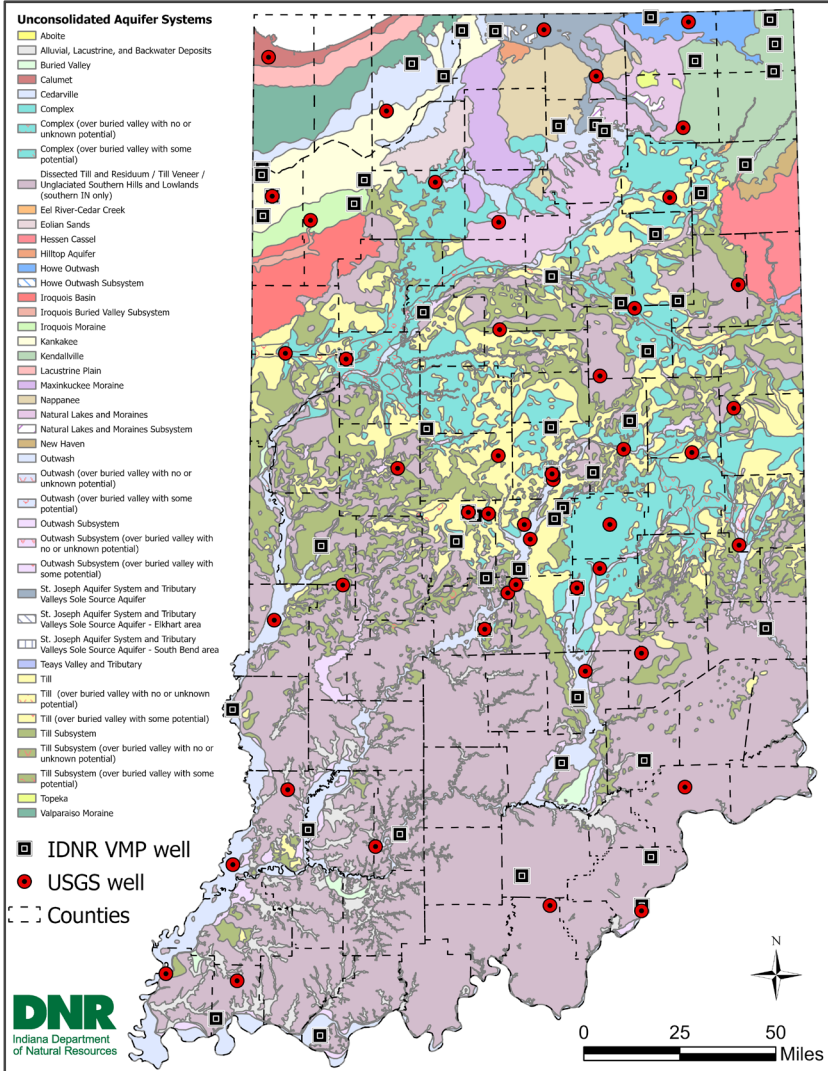
INDIANA'S WATER SHORTAGE PLAN

INDIANA DEPARTMENT OF NATURAL RESOURCES, DIVISION OF WATER

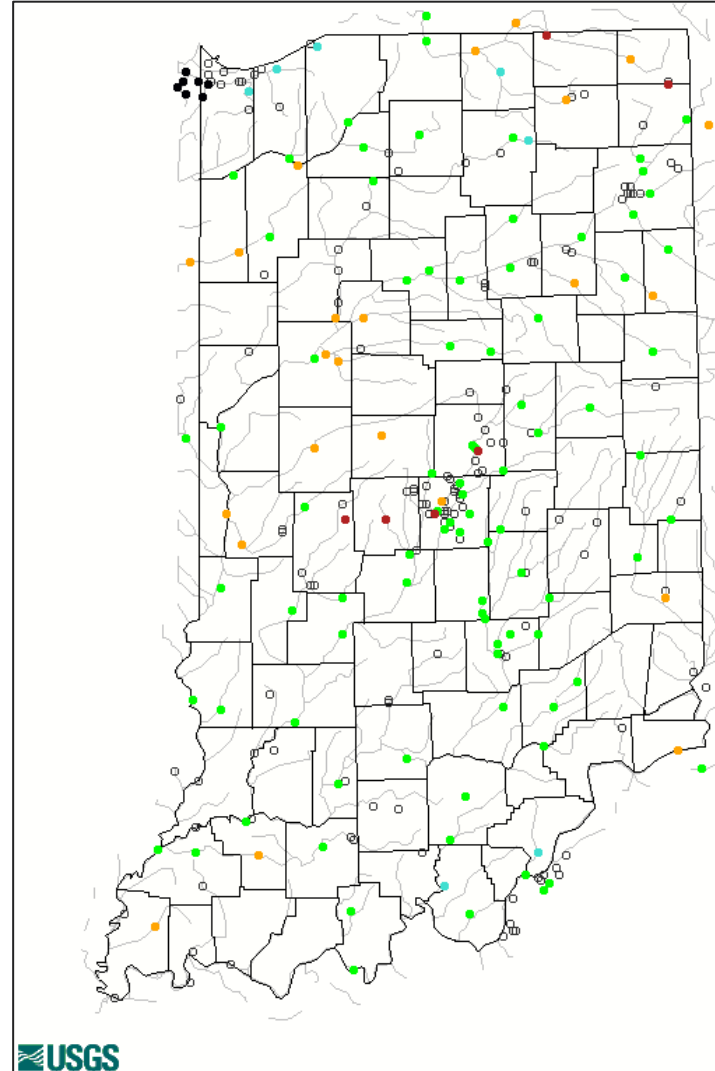
March 20, 2015

Interagency drought team

Network complementarity and underserved areas



Groundwater



Stream gages



Multi-sensor mesonet stations

Thank you

DNR
Indiana Department
of Natural Resources



Indiana Water Summit
August 10, 2023

Garth Lindner – Division of Water