

Research, Education, and Service

University of Iowa: IIHR—Hydrosience & Engineering

Iowa Nutrient Research Center: Work Completed by University of Iowa- IIHR

January 17, 2018



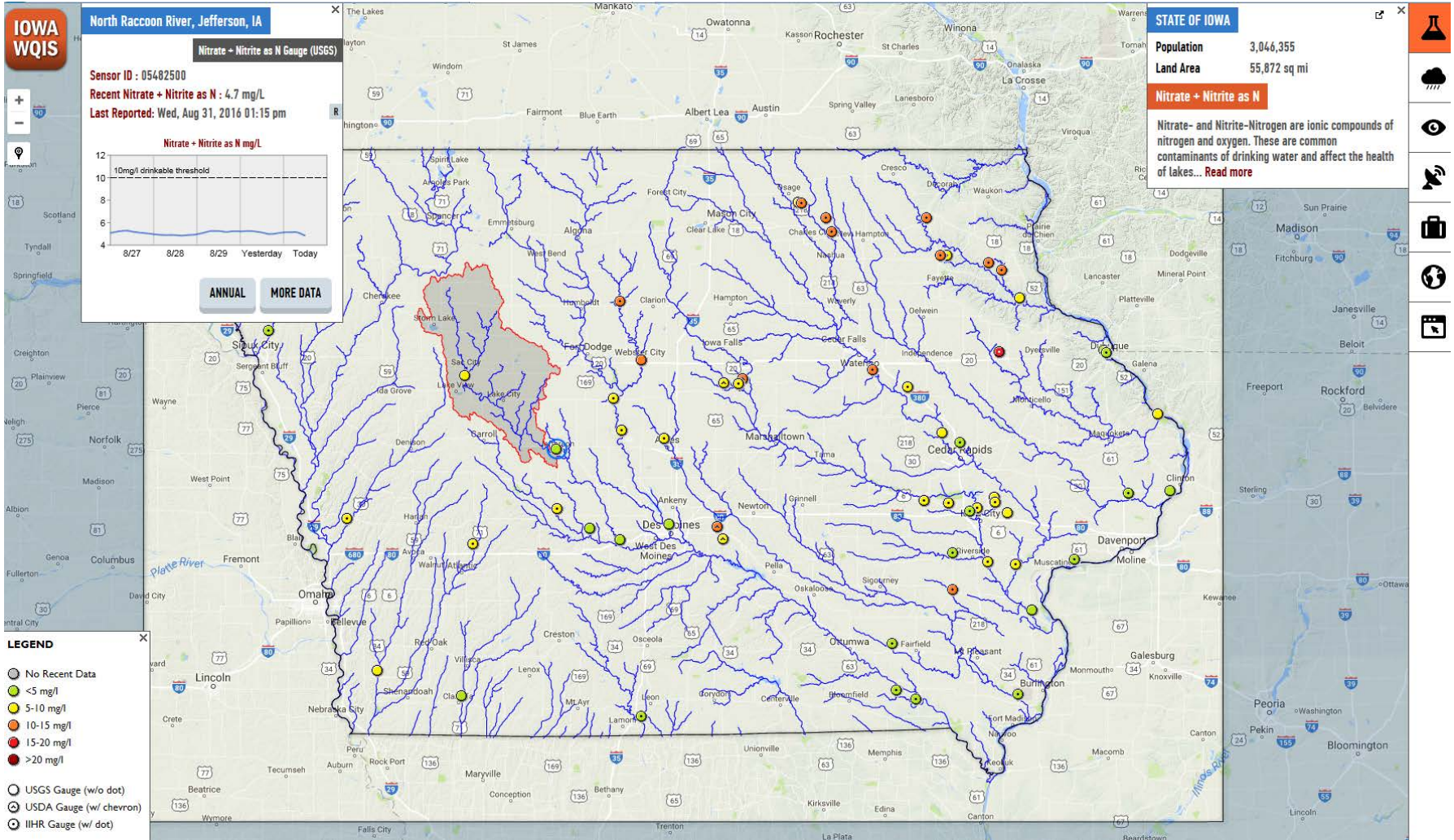
FY 2017 and 2018 Funding

Project	FY 2017	FY 2018
Roadside Ditches for Nutrient Processing*	\$50,000	
Giesler Farm Project*		\$60,000
Phosphorus Loading from Streambank Erosion*		\$80,000**
HUD/Iowa Watershed Approach Monitoring	\$270,000	
INRC-Iowa Nutrient Center	\$467,000	\$367,000
IDNR-Turbidity Monitoring		\$48,000
Total	\$787,000	\$555,000

Funded Research on non-point source nutrients FY '17-18

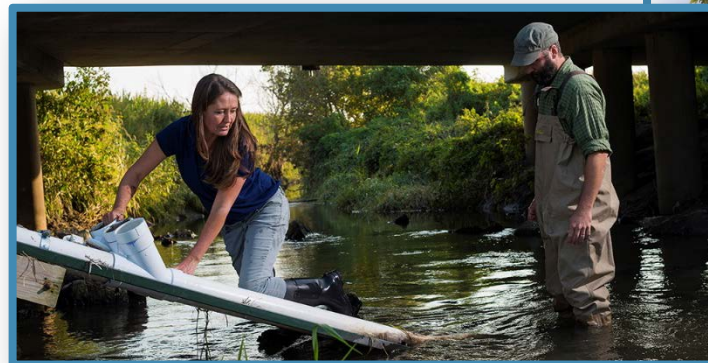
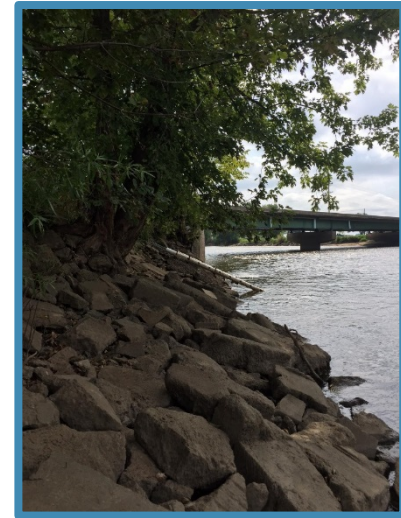
- Giesler Farm-Calhoun County
- Roadside Ditches for Nutrient Processing
- Phosphorus Loads from Streambank Erosion





IIHR Sensors

- ~65 sites in 2018
- Collaborators
 - Agricultural Research Service (USDA-ARS)
 - Coe College
 - Grinnell College
 - Iowa DNR
 - Iowa State
 - Drake Univ.
 - Buena Vista Univ.



Sensor Network Projects: Urban Projects

- Cedar Rapids WWTP: Nitrate and Phosphorous Monitoring
- Coralville Storm Sewer
- Cedar Rapids Storm Sewer
- Iowa City Wastewater Treatment Plant



Sensor Network Projects: Practice Assessment

- Slough Creek Wetland
- Grinnell College (CERA)
- Water Quality Initiative (WQI) projects (IDALS)
- Rapid Creek (Johnson County)
- Restored Oxbow

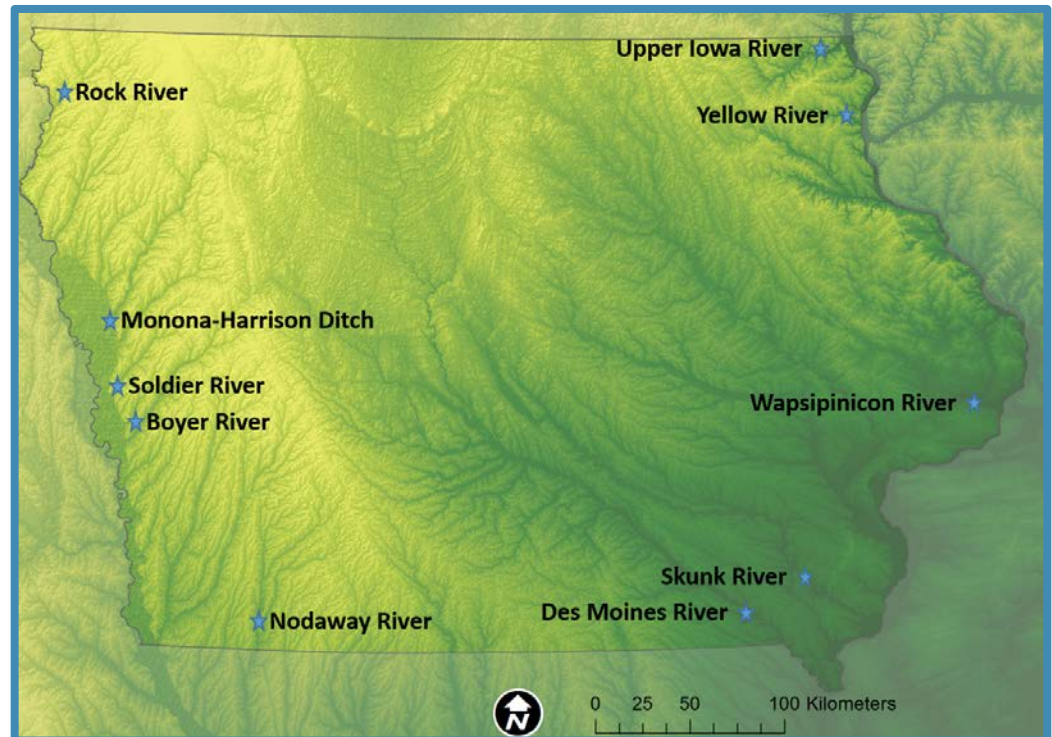


Sensor Network Projects: Iowa DNR Turbidity

Quantify Phosphorus and Sediment Loading using Turbidity Data

- 5 Mississippi River Tributaries
- 5 Missouri River Tributaries

Des Moines R. at Keosauqua



Published Research: 2017-2018

- **Wetland Research: 5 papers**
- **Nitrate dynamics within streams and reservoirs: 3 papers**
- **Farm Practice Assessment: 3 papers**
- **Hydrograph Separation: 1 paper**
- **Phosphorus Transport: 3 papers**
- **Golf Course Nutrients: 2 papers**
- **Statewide Nitrate Loading: 1 paper**
- **Policy: 2 papers**

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