

Opportunities, Resources & Partnerships for Improving Water Quality

EMS Annual Conference
November 4, 2014

Presented by: Allen Bonini, Supervisor
DNR Watershed Improvement Section

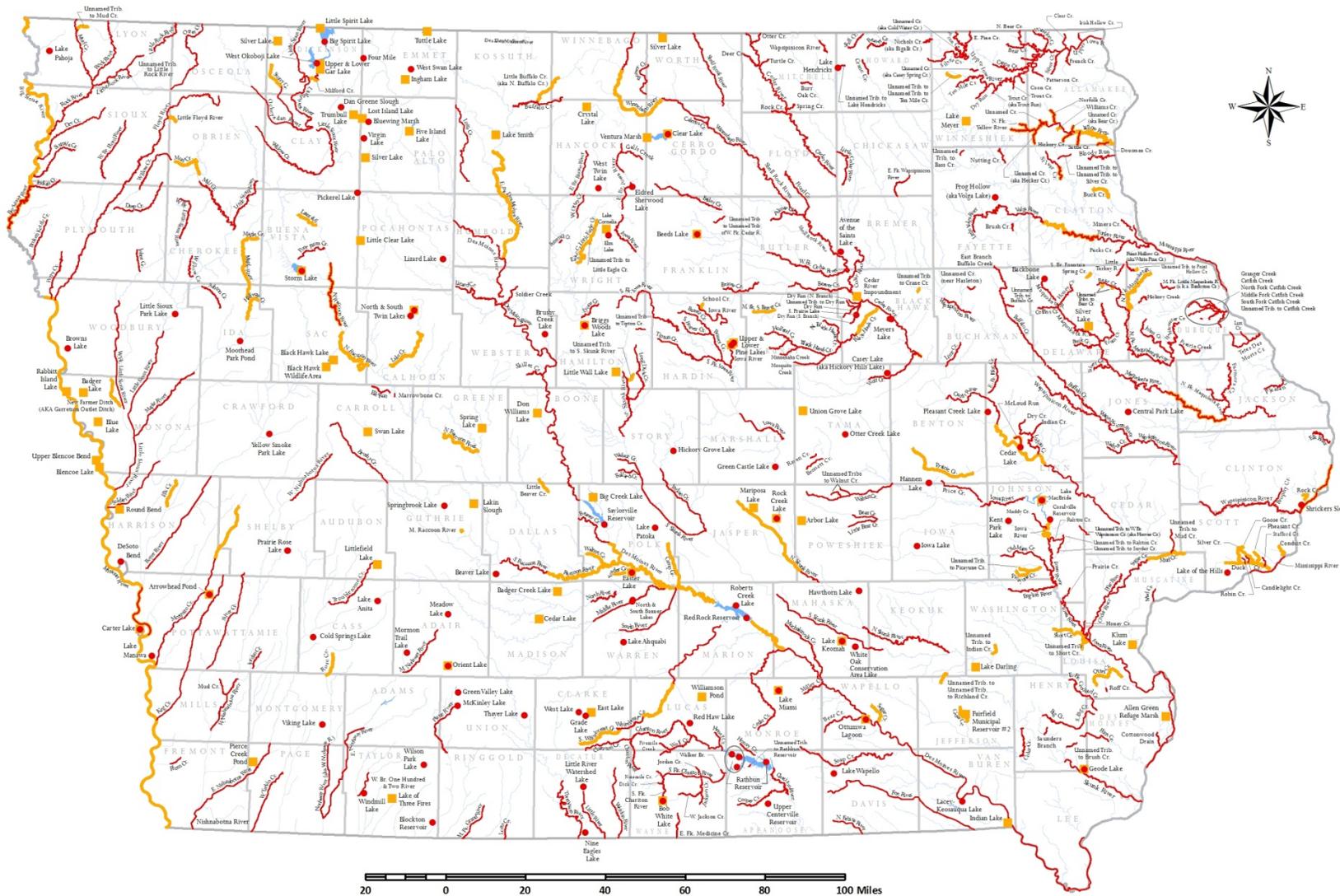


Water Quality Quiz

- How do you define “clean water”?
- How do you use Iowa’s water resources?
- What is your favorite “water asset” in Iowa? Why?
- What is a watershed?
- Why are watersheds so important to water quality?
- What % of Iowa land is used for agriculture?



List of Iowa's Impaired Waterbodies (2012)



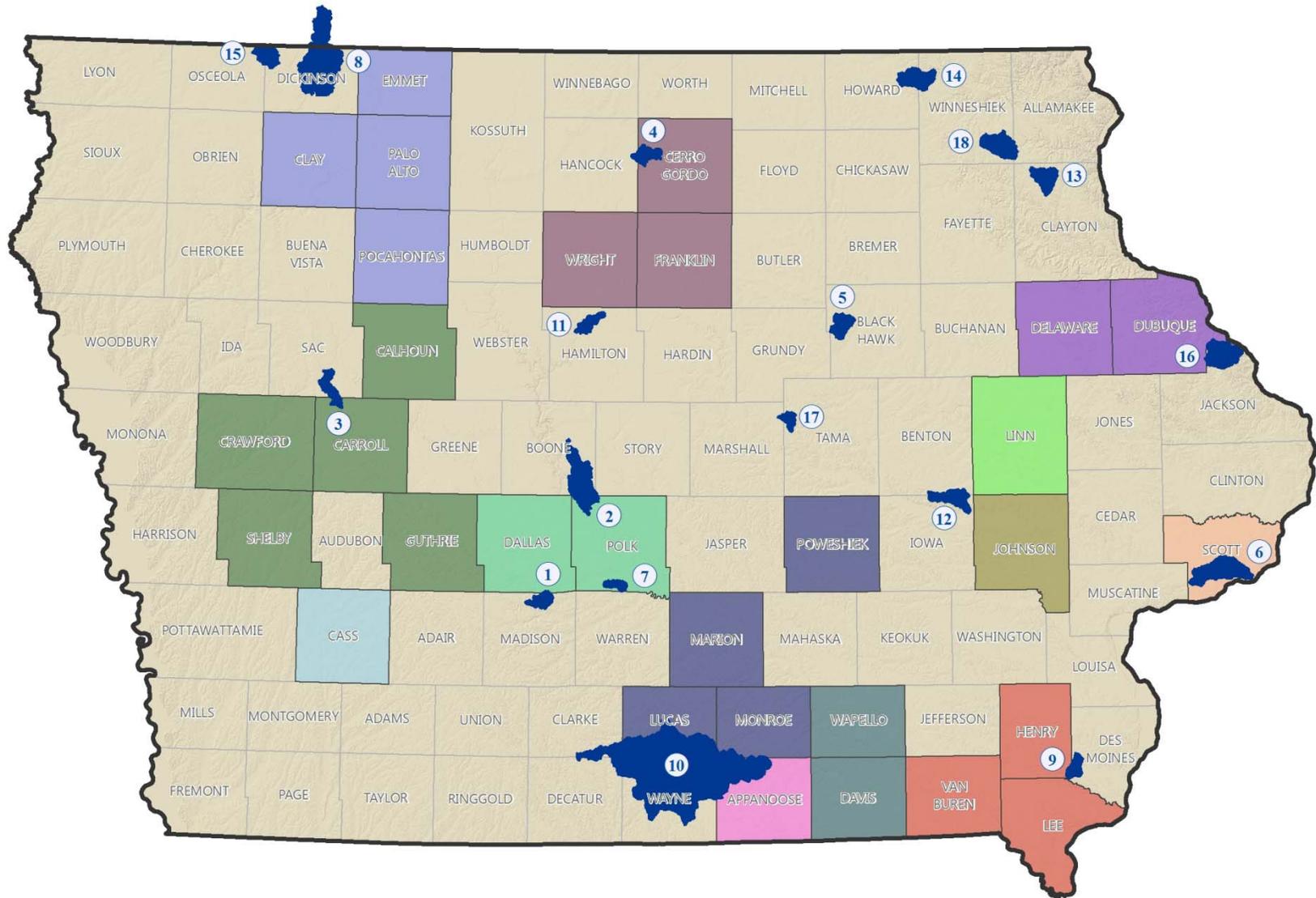
Impaired Lakes (141 Lakes/234 Impairments)

- Category 5 Impairment - TMDL Required (93 Lakes/161 Impairments)
- Category 4 Impairment - TMDL Not Needed (66 Lakes/73 Impairments)

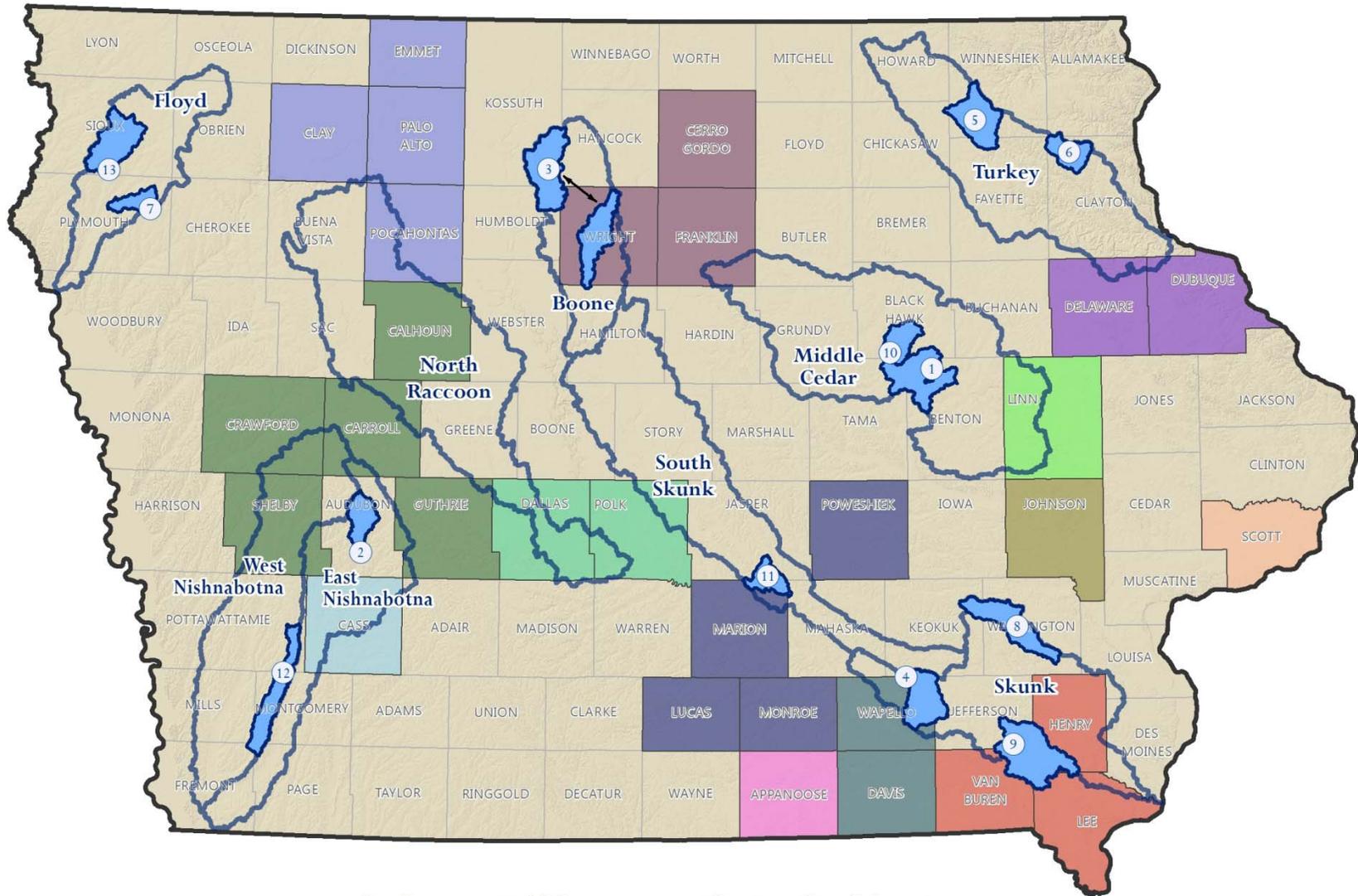
Impaired Stream Segments (480 Segments/599 Impairments)

- Category 5 Impairment - TMDL Required (391 Segments/488 Impairments)
- Category 4 Impairment - TMDL Not Needed (107 Segments/111 Impairments)

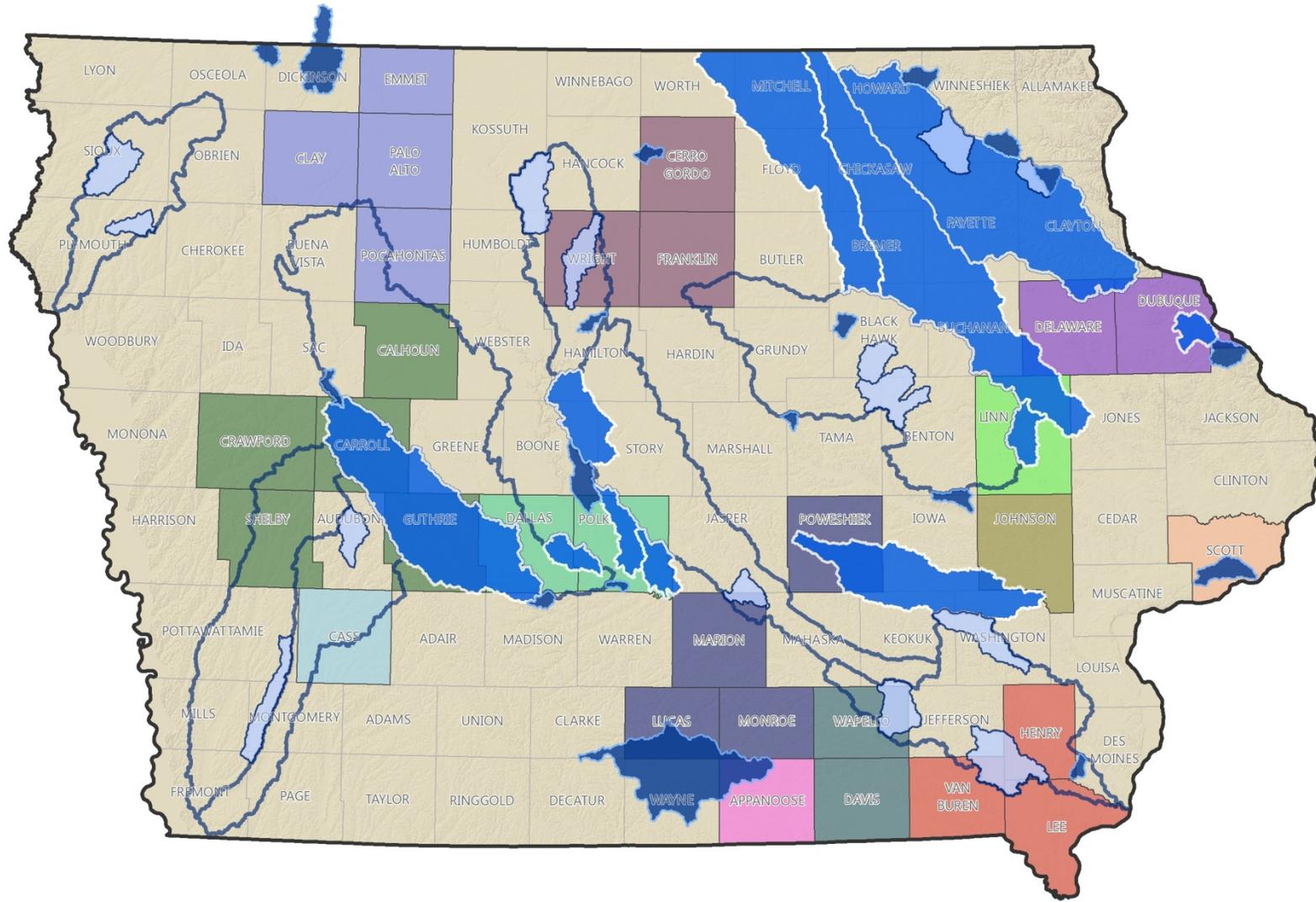
Environmental Management System Participants & Active Section 319 Project Areas



Environmental Management System Participants & Iowa's Water Quality Initiative (WQI)



Environmental Management System Participants & Watershed Initiatives



- + Air Quality
- + Land Stewardship
- Water Quality
 - Regulatory Assistance
 - Iowa Water Plan
 - Lake Restoration
- + Source Water Protection
- **Watershed Improvement**
 - + Watershed Basics
 - + Watershed Planning
 - + Resources for Local Groups
 - + Watershed Research, Data
 - Watershed News
 - Watershed Successes
 - Contact
 - Watershed Staff
- + Watershed Management Authorities
- + Water Monitoring
- Water Summary Update
- Water Web

Watershed Improvement

[Watershed Basics](#)

Learn what a watershed is and how you can help water quality.

[Local Group Resources](#)

Get a local effort started with these tools and grants.

[Watershed Planning](#)

Taking a strategic approach to improving Iowa's water.

[Research and Data](#)

Improvement plans, impaired waters and more data.

Get Involved

Learn how communities can come together to reduce flood risk and improve water quality by forming a [Watershed Management Authority](#).

Planning for Water Quality

Learn more about Iowa's [Nonpoint Source Management Plan](#)

Watershed News

- [Clean Water Starts With Us](#) e-newsletter
- [Upcoming public meetings](#)

Iowa Watershed Successes

Learn about how Iowans are improving the land for better water quality, including projects to improve trout fishing, to protect mussels, to give new life to well-loved recreational lakes and rivers, and more in our annual booklet, [Working for Clean Water](#).

[More Iowa watershed successes](#) from the U.S. EPA

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 - Contact Watershed Staff**
- + Watershed Management Authorities
- + Water Monitoring
 - Water Summary Update
 - Water Web
- + Climate Change
- + Forestry

Contact Watershed Staff

If you're interested in learning more about improving water quality in your area, contact your Basin Coordinator:

Kyle Ament, Interim Upper Des Moines and Raccoon River Basin Coordinator
515-242-6196 or Kyle.Ament@dnr.iowa.gov

James Martin
Southeast Iowa
1805 W Jefferson, STE 2
Fairfield, Iowa 52556
641-472-8411 ext 111 or James.Martin@iowaagriculture.gov

Jeff Tisl
Northeast Iowa
120 N Industrial Pkwy #4
West Union, Iowa
563-422-6201 or Jeff.Tisl@iowaagriculture.gov

Bob Waters
Western Iowa
3302 18th St. STE 2
Spirit Lake, Iowa
712-336-3782 or Bob.Waters@iowaagriculture.gov



- + Air Quality
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- **Watershed Management Authorities**
- Forming a WMA
- Iowa WMAs
- + Water Monitoring
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- + Climate Change
- + Forestry
- + Geology & Mapping

Watershed Management Authorities in Iowa



In 2010, Iowa lawmakers passed legislation authorizing the creation of Watershed Management Authorities. A Watershed Management Authority (WMA) is a mechanism for cities, counties, Soil and Water Conservation Districts (SWCDs) and stakeholders to cooperatively engage in watershed planning and management.

[Map of WMAs in Iowa](#) PDF

[List of active Iowa WMAs](#)

The WMA is formed by a Chapter 28E Agreement by two or more eligible political subdivisions within a specific eight-digit hydrologic unit code watershed. A board of directors governs the WMA, which may undertake the following activities:

- Assess and reduce flood risk;
- Assess and improve water quality;
- Monitor federal flood risk planning and activities;
- Educate residents of the watershed regarding flood risks and water quality; and
- Allocate moneys made available to the Authority for purposes of water quality and flood mitigation.

[Learn more about forming a WMA](#)

DNR Contacts for WMA technical assistance:

Kyle Ament : kyle.ament@dnr.iowa.gov

Mary Beth Stevenson: marybeth.stevenson@dnr.iowa.gov



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- + Geology & Mapping
- + Household Hazardous Materials
- + REAP
- + Threatened & Endangered
- + Wildlife Stewardship

Current Iowa Watershed Management Authorities

Catfish Creek

- www.catfishcreekwatershed.org
- 28e agreement
- Contact: Eric Schmechel - Urban Conservationist with the Dubuque Soil and Water Conservation District, eschmechel@dubuqueswcd.org or Dean Mattoon - Engineering Technician with the City of Dubuque, dmattoon@cityofdubuque.org

Turkey River

- <http://turkeyriver.org>
- [28e agreement](#)
- [By-laws](#)
- Contact: Lora Friest, 563-864-7112

Upper Cedar

- www.floydcoia.org/departments/boardofsupervisors/watershed_management_auth
- [28e agreement](#)
- [By-laws](#)

Indian Creek

- <http://indiancreekwatershed.weebly.com/>
- [28e agreement](#)
- [By-laws](#) PDF

English River

- www.englishriverwma.org
- [28e agreement](#)
- [By-laws](#) PDF

Middle/South Raccoon

- [28e agreement](#)

Fourmile Creek

- [28e agreement](#)

Squaw Creek

- [28e agreement](#)



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PRECIPITATION...EVAPORATION...CONDENSATION...

APPRECIATION!

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donate to help Water Rocks!



check out our YouTube channel



DIVE IN
get informed and get involved

ROCK YOUR WATERSHED
game of choice and chance

VIDEOS
tune in and spread the message

TEST THE WATERS
meet the experts

WATER AND THE ARTS
reflections on all things water

CATCH THE WAVE
education and outreach



WELCOME TO WATER ROCKS!

CREATING A **NEW PUBLIC AWARENESS** TOWARD THE MANY **ISSUES SURROUNDING WATER.**

LATEST NEWS

New Music Videos Available



Potential Partnerships

- DNR – WIS, WMA, Fisheries, Wildlife, Parks
- IDALS-DSC – WQI, WIRB, WPF, WSPF
- USDA-NRCS
- IDOT – stream mitigation
- IEDA
- Local SWCDs
- WMAs
- Cities, Counties, Water/Waste Water Utilities
- ISU – Extension, ILF, WaterRocks!
- NGOs – TNC, TF, TU, PF, IRR
- Commodity groups (ISA, ICGA, ICA, IFB)



Time

**Project
Paradigm**

\$\$\$

Quality



Bottom Line

Questions/Discussion

