



Building Coalitions to Develop and Implement Solutions

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Coalition Building – Nexus of Art, Science, Business, and Policy

The Ingredients: One Water Approach and Operationalizing the Venn

- Water Quality
- Watershed Planning and Implementation
- Multi-scale systems thinking
- State/Federal Policy and Programs
- Nitrogen Management for Agronomy and Loss
- Water Management
- Research and Technology
- Agriculture and Urban Communities

Our Experiences and Examples in Iowa

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Key Ingredients: Driving Innovations Intentionally

- Invest in human resources to add capacity
- Entrepreneurial
- Quest for inquiry and discovery
- Build culture of collaboration
- Bridging disciplines via an integrated framework
- Seek impactful outcomes with value

Iowa Soybean Association

- Created 1964
- Headquarters in Ankeny, Iowa
- Elected volunteer board of 22 farmers
- 38,000 soybean farmers
- Production 500 million bu. on 10M acres annually



Water Challenges – Upstream



Water Challenges - State/Federal Response

Gulf Hypoxia – Mississippi River



Iowa Nutrient Reduction Strategy

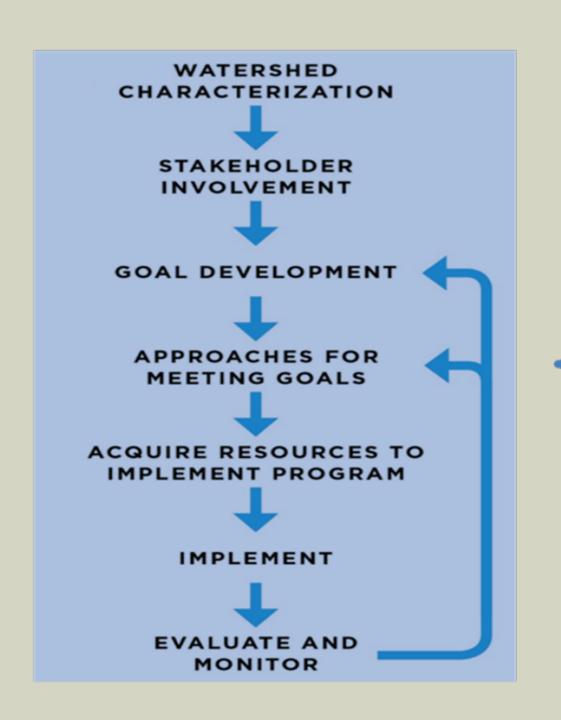


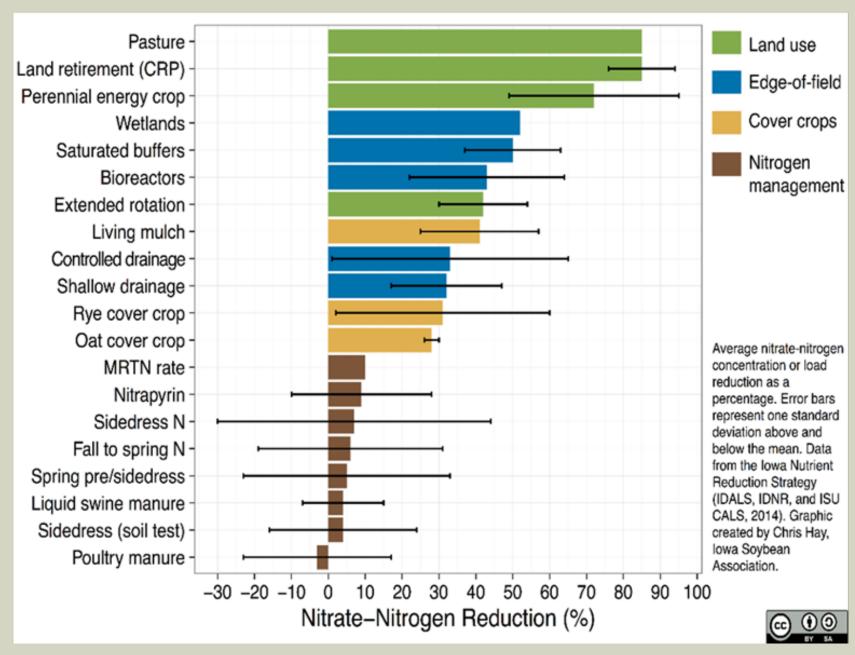


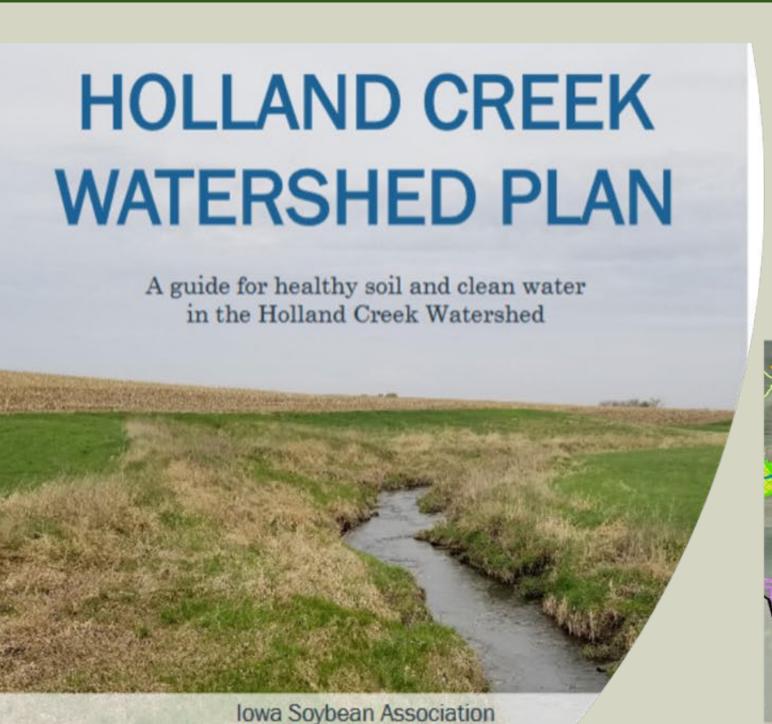
Innovating and Integrating Process and Practices for Outcomes and Scaling

Watershed Management Planning Framework

Nitrogen Loss Reduction Varies By Practice



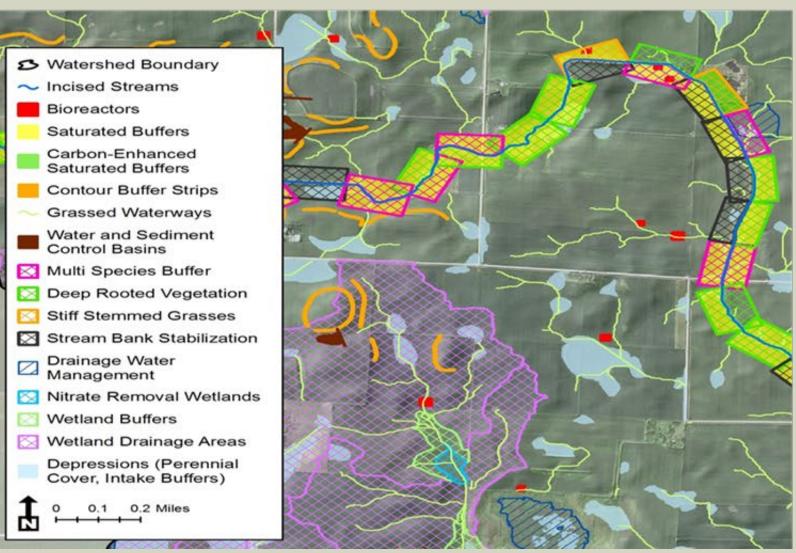




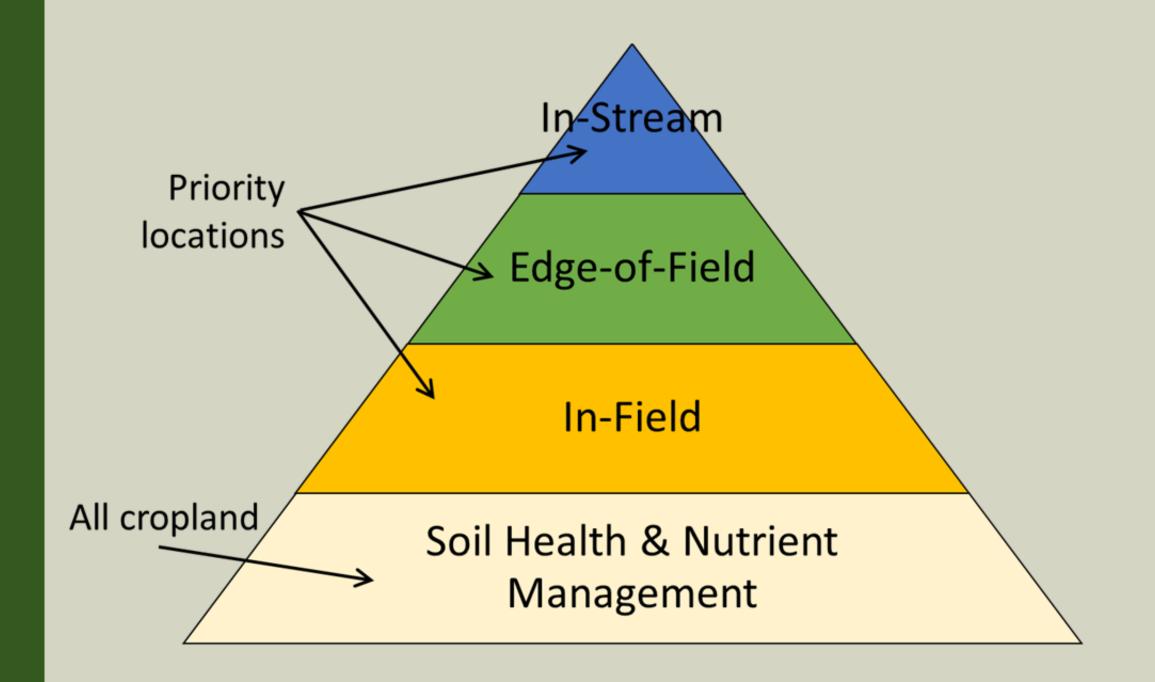
Environmental Programs & Services

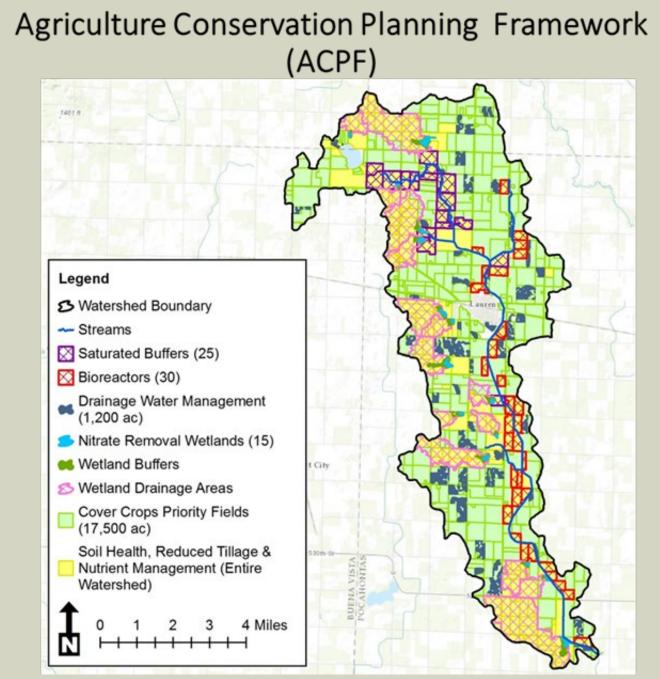
Environmental Programs & Services

A watershed plan identifies goals and the best approaches to achieve them



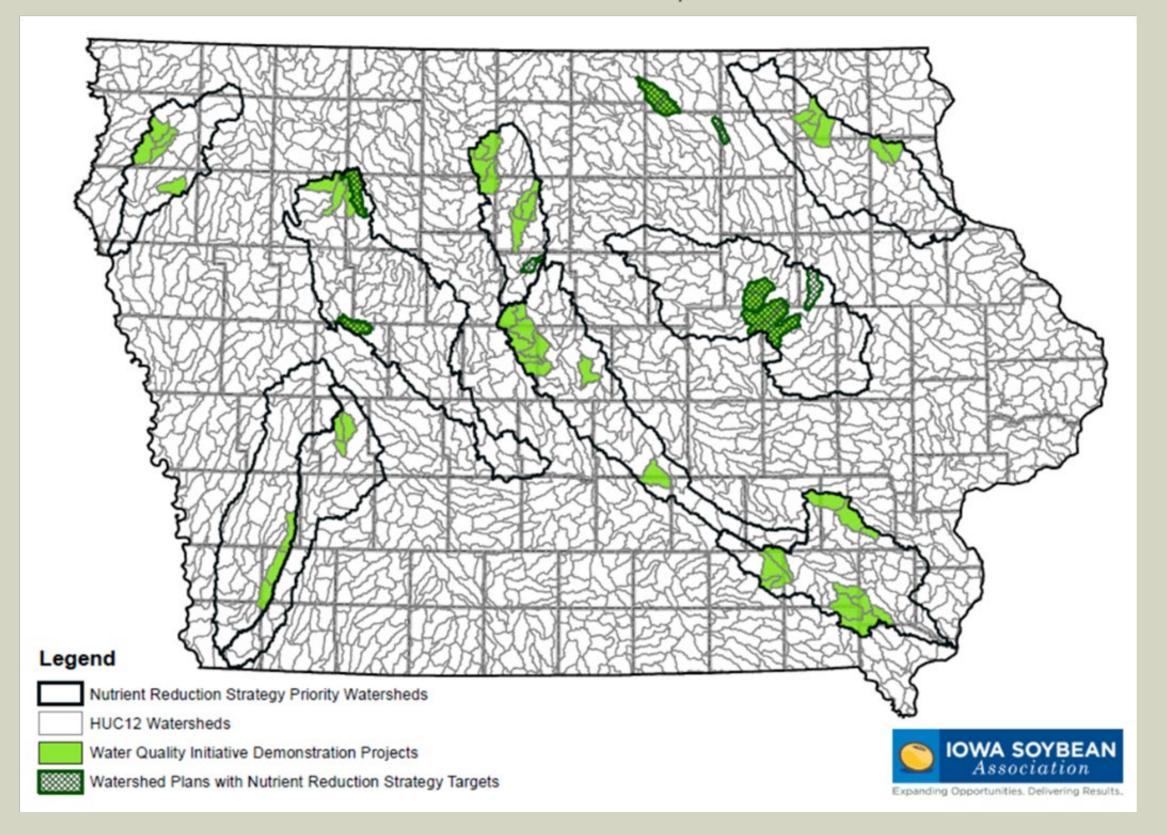
The Conservation Pyramid – Scale and Geography Matters





SCALING UP

Taking the Iowa Nutrient Reduction Strategy from the demonstration phase to full scale implementation



- 2015 -2020 ISA staff developed 25 small scale watershed plans
- Meets EPA's Nine Step Plan requirements and aligns with USDA programs
- ISA secured \$900K to development of plans
- Local partners secured over \$38 MM is state, federal and philanthropic support for implementation

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Middle Cedar Partnership Project (MCPP)



Collaboration and Coalition

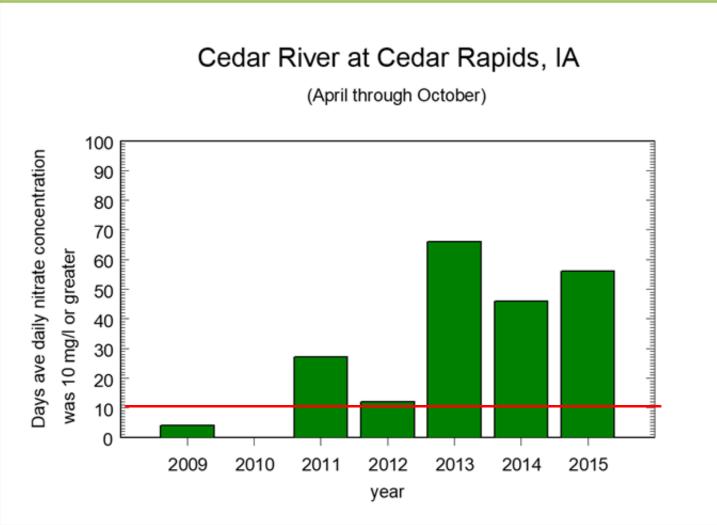
- Connecting

 Upstream and
 Downstream
 Stakeholders on mutual
 concerns and
 values
- Urban and Rural





Nitrate concentrations in the Cedar River 2009-2015



WHY AGRICULTURE IS IMPORTANT TO CEDAR RAPIDS



















World's Grain Capital

- #1 in corn
 processing, using
 roughly 3% of all the
 corn produced in the
 country
- Industries use 20%
 of the world's oat
 crop
- Approximately 1.3
 million bushels of
 corn are hauled to
 CR daily.

MCPP

PARTNERING FOR SUCCESS MIDDLE CEDAR PARTNERSHIP PROJECT

NRCS through
Regional
Conservation
Partnership
Program (RCPP)
contributing \$2.0M

Primarily financial,

some technical

assistance



16 MCPP partners contributing \$2.3M

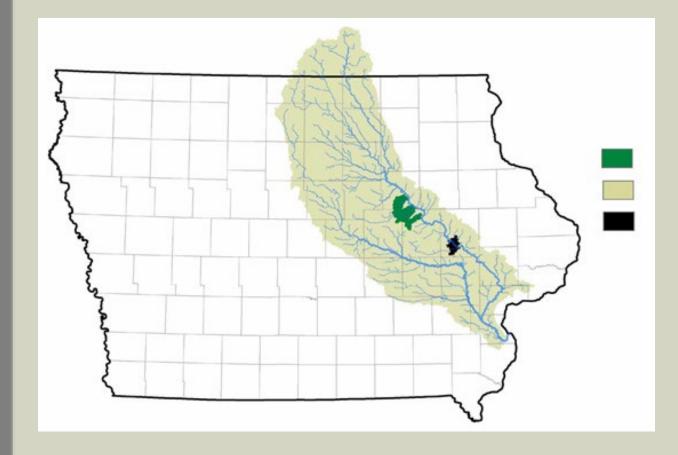
Primarily technical, some financial assistance



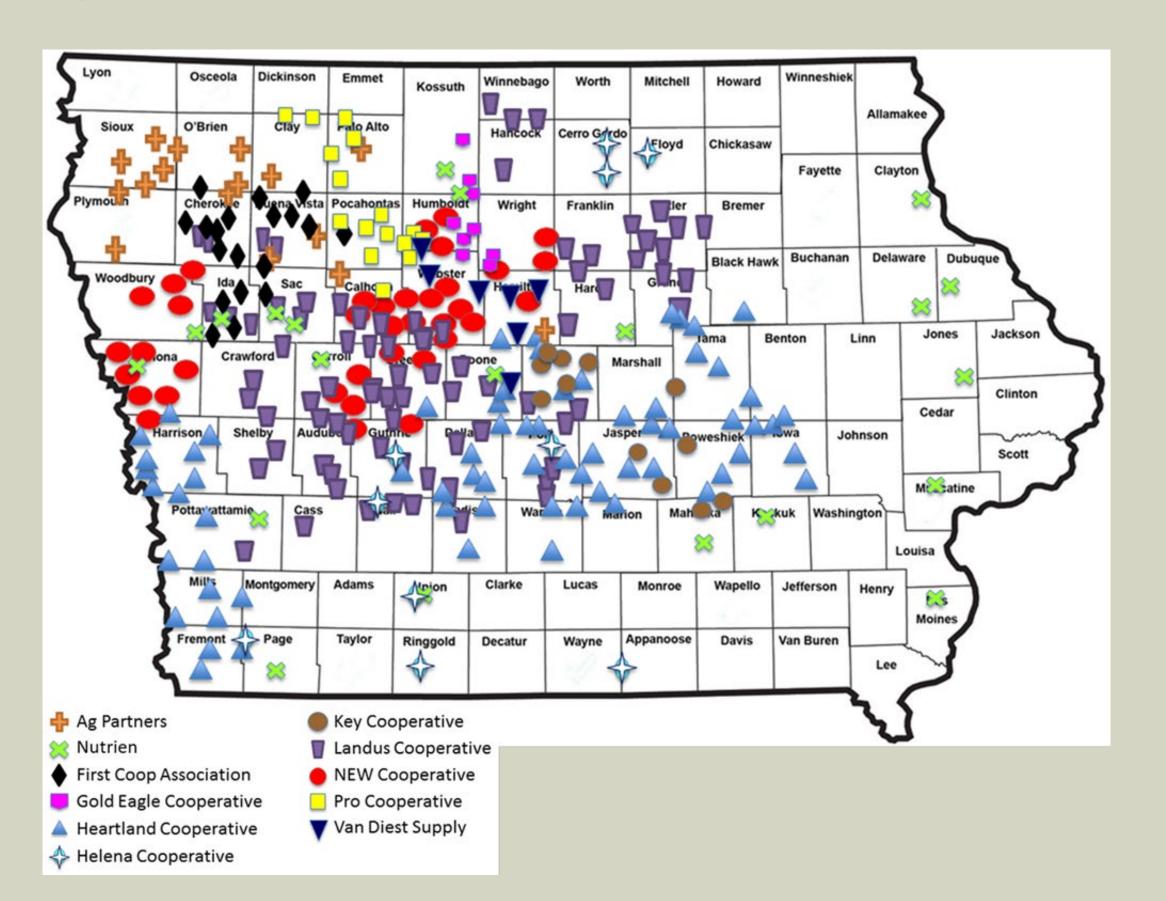
\$4.3M available over the next five years



Clock started June 5, 2015



Agriculture's Clean Water Alliance Member Footprint



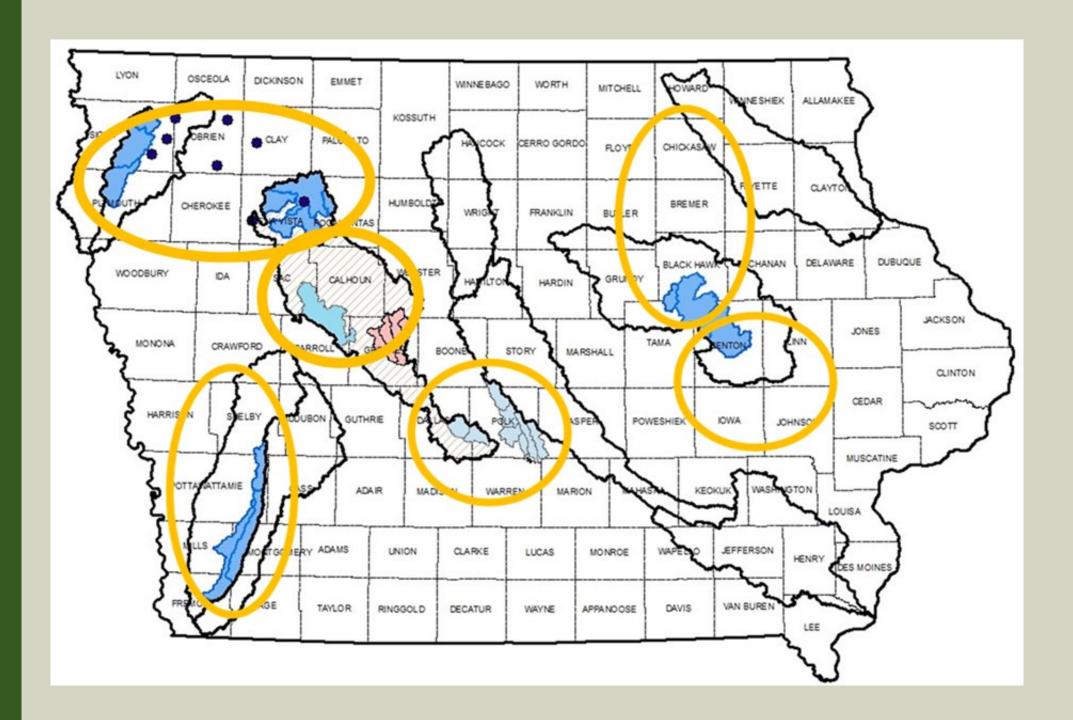
Collaboration and Coalition

Group of 17 Agriculture
Retailers and Associate
members with common
mission to identify and
advance solutions that
reduce nutrient loss, build
healthier soils and improve
lowa's waters.

Supports:

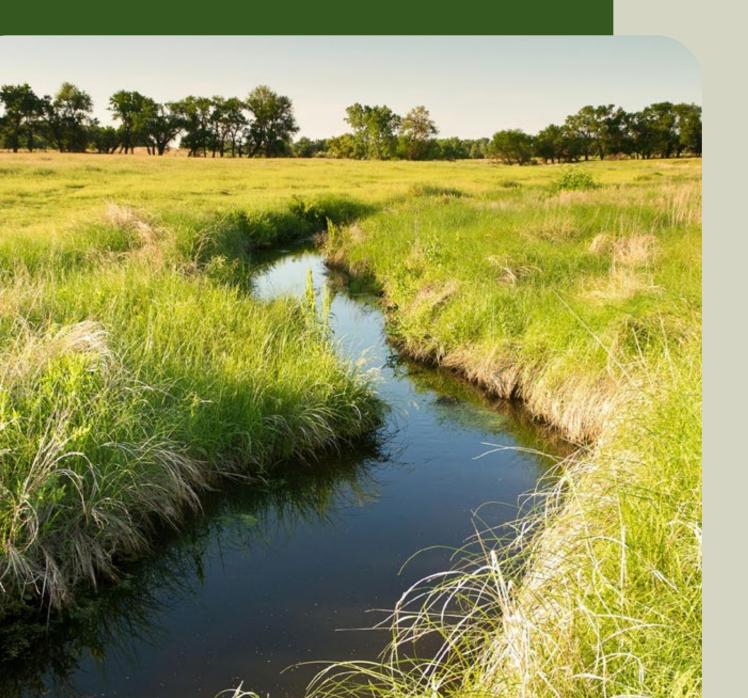
- Collaborative partnership projects
- Technical support
- Water monitoring

Technical Infrastructure Support Conservation Agronomist's



Coalition Partnership with Ag Retail

- In 2020 ISA working with Agriculture's Clean Water Alliance has network of 6 Conservation Agronomist's embedded with-in Ag Retail outlets
- Provides technical outreach to farmers to assist with practice adoption
- Leveraging retail sales agronomists
- Interfaces with other coalitions and collaboration



Summary

Keys to Building Coalitions

- Leadership with Horsepower
 Administrative enterprise with a willingness to lead
 Supportive policy and programs with funding cash flow
- Shared Reasons and ValuesBusiness and economyHealth and well-being
- Research, Data, Tools, Technologies, and Processes

 Watershed planning AND implementation

 Measurable and verifiable outcomes leading to results delivering

 value and impact

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