Integrated Farm and Livestock Management (IFLM) Demonstration Program
Iowa Soybean Association

Summary:

1. A long-standing and very successful Iowa program – Thank You!
2. IFLM funds are leveraged to bring an additional approx. $1M - $1.5M annually – to benefit productivity and the environment
3. IFLM- projects, demonstrations and communications in every Iowa county – ISA Research Conference approx. 500 attendees (Feb 7-8, 2017)
4. IFLM support has helped to build integration and collaboration within ISA and with Iowa Corn Growers, Iowa Pork Producers, Iowa State Univ. and many others

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ISA RESEARCH

IOWA SOYBEAN Association

Iowa Soybean Association On-Farm Network

Iowa Soybean Association Environmental Programs & Services

Iowa Soybean Association Analytics

Integrated Farm and Livestock Management (IFLM) Demonstration Program
Iowa Soybean Association

2017 Research, Demonstration and Communication Opportunities:

1. Refine **nitrogen** and other nutrient management – target 10,000 – 30,000 farmers
2. Improved knowledge, application and profitability of **cover crops** – 80% of participating farmers modify practices
3. Improved tools and knowledge for use and management of **manure** – complements livestock industry and drives efficiency in row crop fertilization and environmental stewardship

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2017 Research, Demonstration and Communication Opportunities:

4. Integrated work and leveraged funding for in-field and edge-of-field projects focused on the **nutrient reduction strategy** and enhanced water quality
   - Watershed planning to prescriptively plan research, demonstrations and integration of equipment, structures and practices to bring greatest return on investment
   - Targeted watershed projects for strip trial research and demonstrations combined with conservation practices and water monitoring
5. Partner with ISU, IDALS, others for **Pest Resistance Management** trials, demonstrations and communications

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ISA RESEARCH

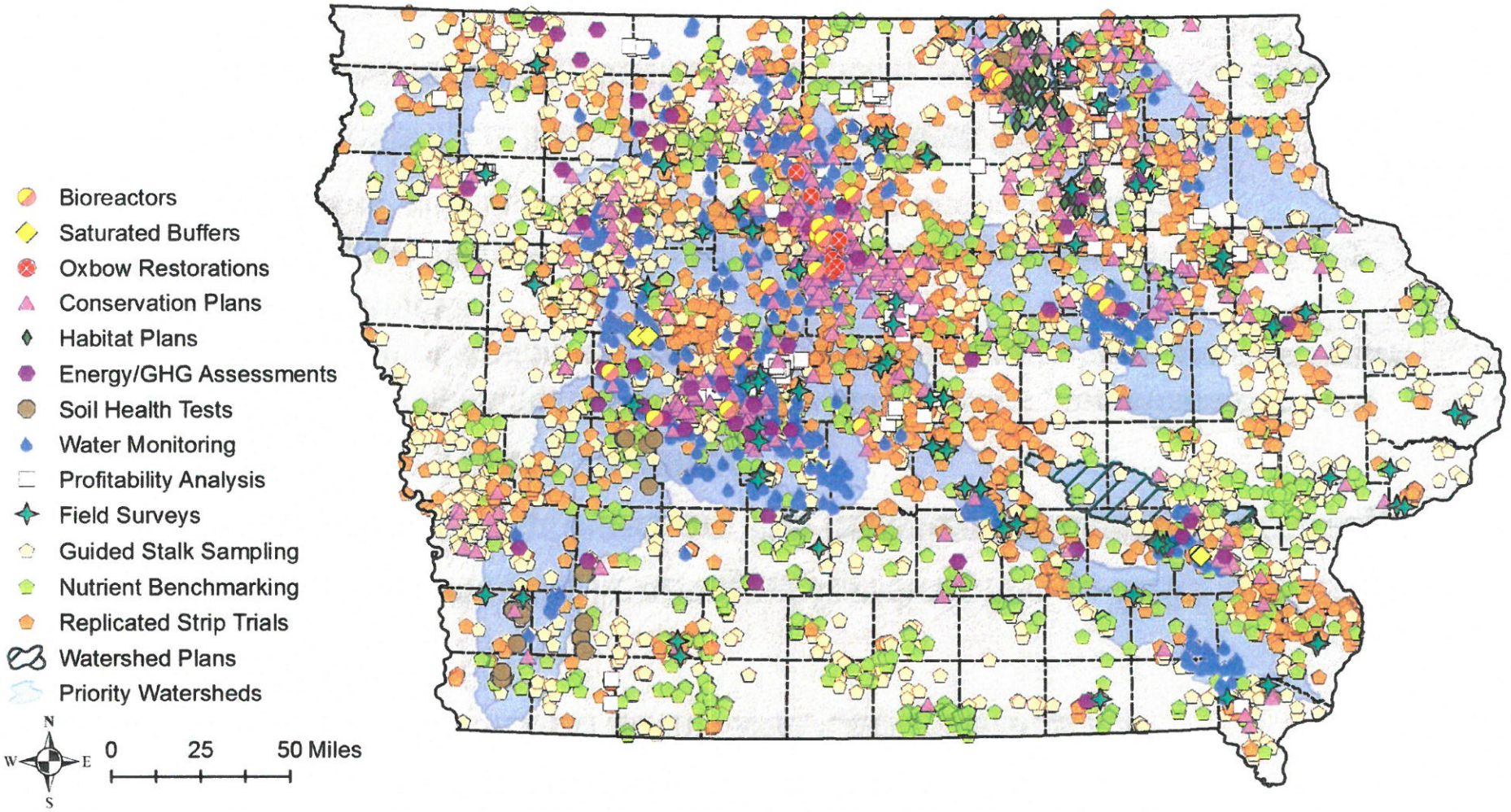
IOWA SOYBEAN Association

Iowa Soybean Association On-Farm Network®

Iowa Soybean Association Environmental Programs & Services

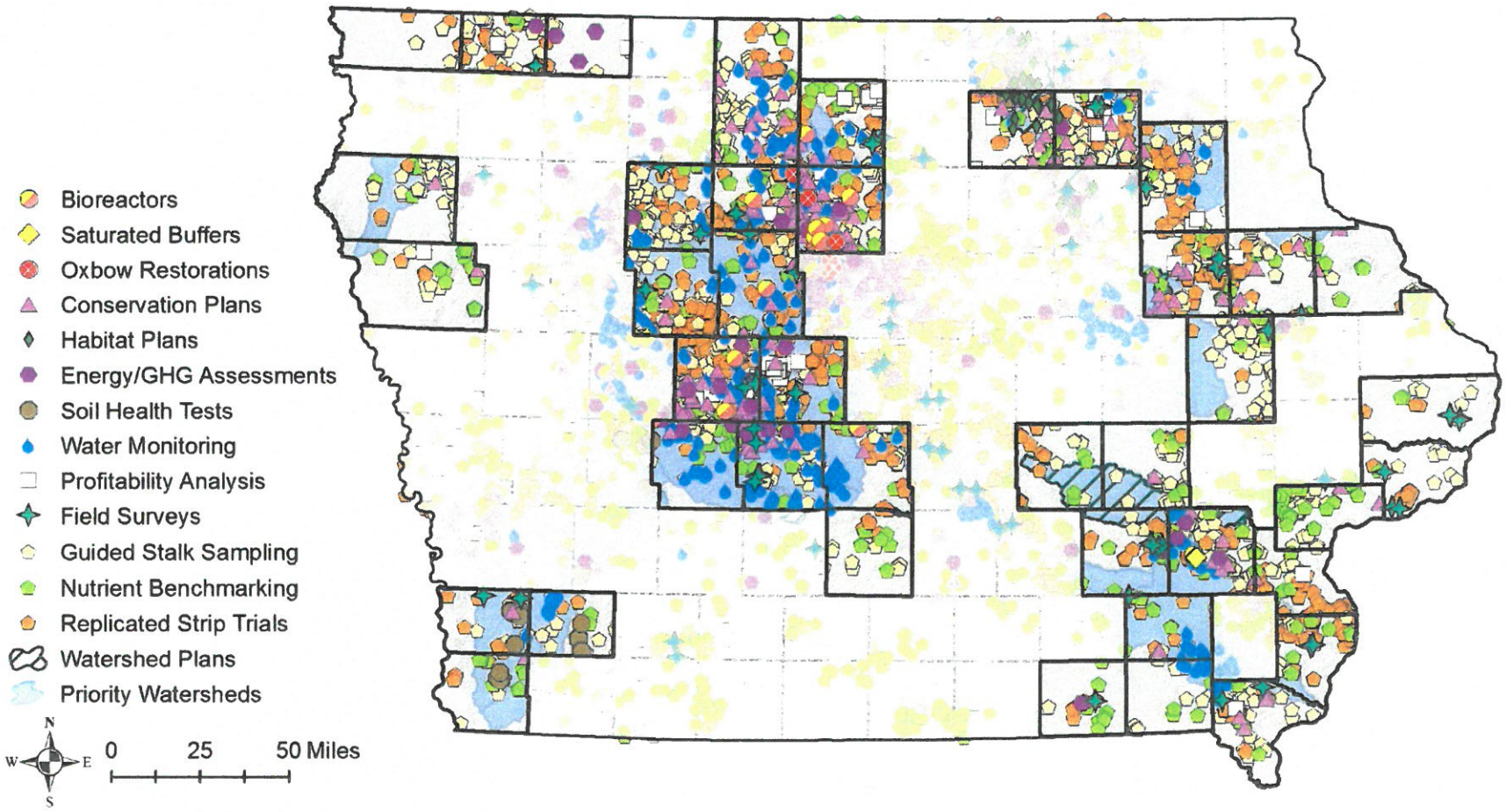
Iowa Soybean Association Analytics

Farmer Engagement 2005 – 2016 – Environmental Programs & Services + On-Farm Network® Independent and Integrated Projects



- Thousands of trials & projects. Hundreds of farmers and urban partners.
- Greater than $40M investment, leveraging >$12M soybean checkoff dollars + >$28M of federal, state and private collaborations

Farmer Engagement 2005 – 2016 –Iowa Soybean Association
Research Projects Overlaid with House Districts



ISA

Farmers Working Together to Fine Tune Their Nitrogen Management

PROJECT GOALS:

1. Compare the profitability of MRTN recommended rate versus standard rates
2. Increase our understanding of the most profitable nitrogen rates in Iowa
3. Demonstrate Iowa farmers cooperating to improve water quality

WHAT WE NEED FROM YOU:

- Go to this website to find the suggested range of nitrogen rates for your farm: ***cnrc.agron.iastate.edu***
- Apply a nitrogen rate suggested by MRTN according to the plot layout. Note there are two options:
  - a. Self-Assessment – 1 replication per field
  - b. Research Assessment- 3 replications per field
- At harvest, capture yield data from the plot by making a separate load on yield monitor
- After harvest, go to ***iasoybeans.com*** to annonymously report your results

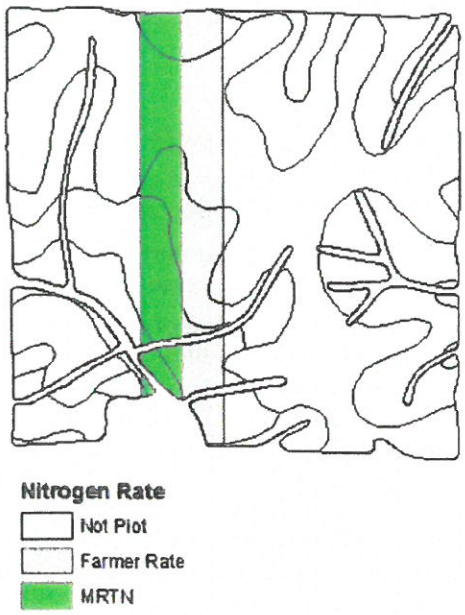
WHAT ISA WILL DO FOR YOU:

- Compile, analyze and report anonymous survey data
- Promote Iowa farmers cooperating to improve water quality

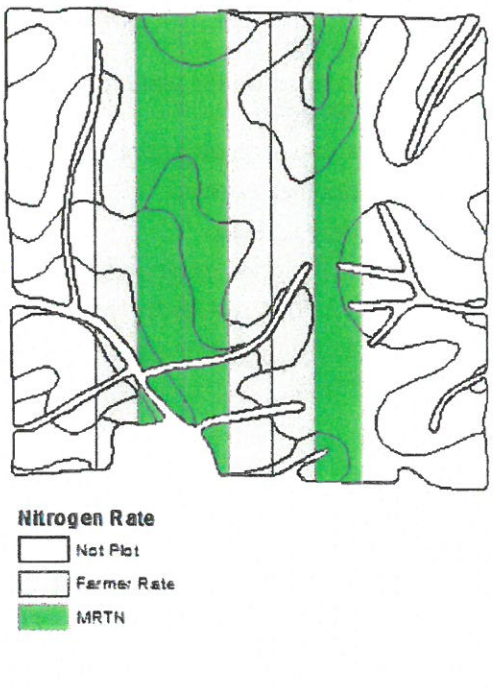
To learn more about MRTN or to get email reminders about the plot, please email ***research@iasoybeans.com.***

In respect for data privacy, the survey will not ask for operation names. We will ask for the cooperator's county, but this will not be required.

Self-Assesment



Research-Assesment



not funded by the soybean checkoff

Nitrogen Management Trials

RESEARCH GOALS

1. Discover new ways to create decision zones for variable rate nitrogen application
2. To understand optimum rates for nitrogen fertilizer across diverse soils and topography
3. Increase knowledge of nitrogen efficiencies to improve water quality

WHAT WE NEED FROM YOU:

- Apply nitrogen strips according to plot layout. Ammonia fertilizer preferred

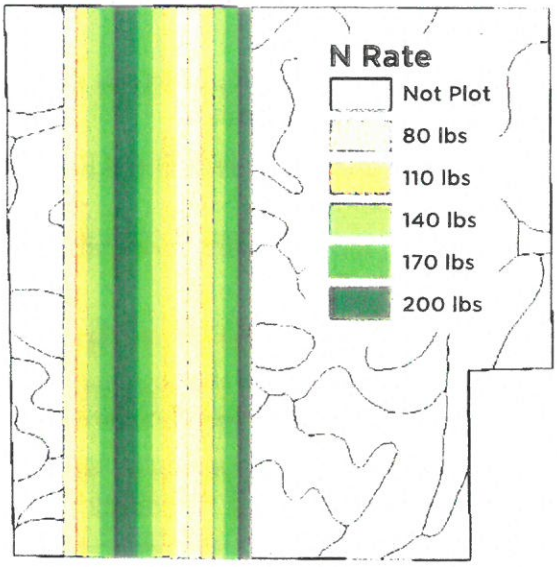
Corn after Soybeans: 80, 110, 140, 170, 200 lbs/A
Corn after Corn: 110, 140, 170, 200, 230 lbs/A

- Manage crop and provide as-applied and yield monitor data

WHAT ISA WILL DO FOR YOU:

We will provide:

- Fair compensation for yield loss at two lowest rates of nitrogen
- $200 participation payment
- Prescriptions as needed
- Aerial image of field
- Organic soil matter testing results
- Summary of trial results for your farm
- Aggregated data summary from all similar trial locations



Sample plot layout for a field that is corn following soybeans

1. Select a field with high variability in terms of yield, soil types and topography
2. Apply nitrogen in direction of planting and harvesting (RTK preffered)
3. Important to match planting and harvest rows with width of nitrogen application
4. Suggested width of a strip is 1-2 rounds of the combine

To get involved or for more information, contact your regional agronomist:

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not funded by the soybean checkoff