

Cover Crops Working Group



SOIL HEALTH PARTNERSHIP

October 26, 2016

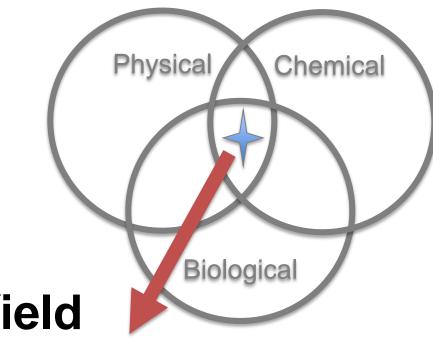


What are we really asking?

In-season management — Soil Health 40+ decisions



Decision tools



- > Yield
- > Profitability
- >Environmental risk



A PROJECT TO MAKE AGRICULTURE MORE PRODUCTIVE AND SUSTAINABLE THROUGH

IMPROVED SOIL HEALTH

GOALS

Recruit a network of 100 farms

Establish research protocols and data analytics

Publish findings and recommendations

Support grower networking / technical assistance

STEERING COMMITTEE



MONSANTO



The Midwest Row Crop Collaborative

Technical Advice





SCIENCE ADVISORY COMMITTEE

Larry Clemens, TNC
Suzy Friedman, EDF
Jerry Hatfield, USDA-ARS
Daren Harmel, USDA-ARS
Wayne Honeycutt, SHI
Doug Karlen, USDA-ARS
Eileen Kladivko, Purdue
Chuck Rice, KSU
Peter Scharf, UMC
Harold Van Es, Cornell
Wally Tyner, Purdue

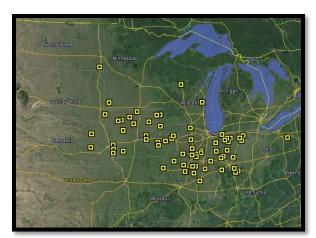
Additional Financial Support







Networks and collaboration



































SARE

Sustainable Agriculture Research & Education





















MinnesotaCorr











IOWA AGRICULTURE WATER ALLIANCE

IAWA













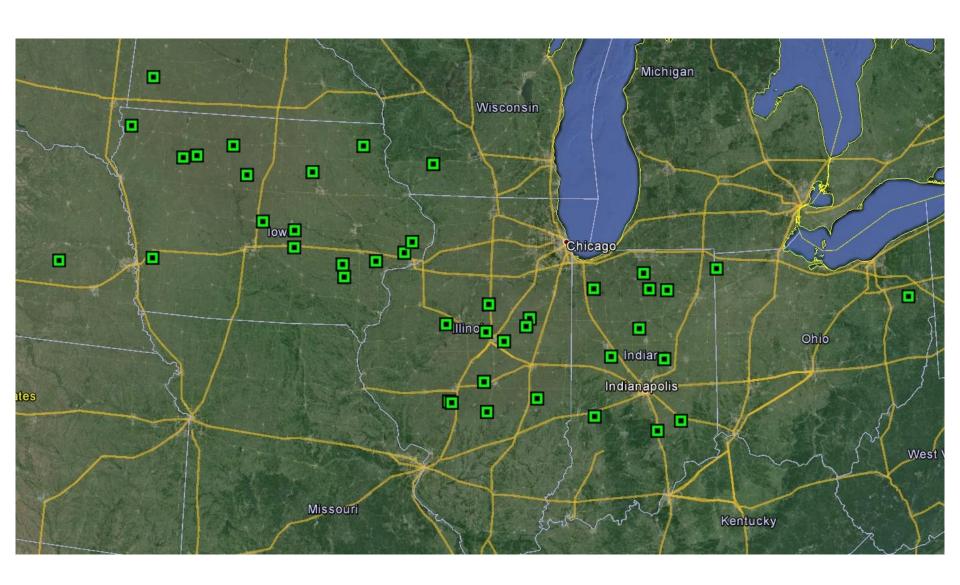




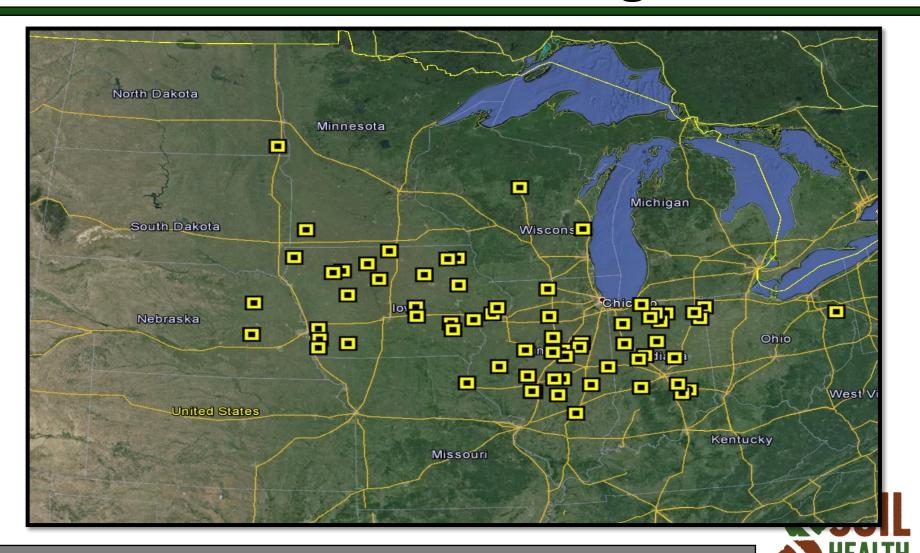




SHP Demonstration Network Sites



Soil Health Partnership Network Coverage

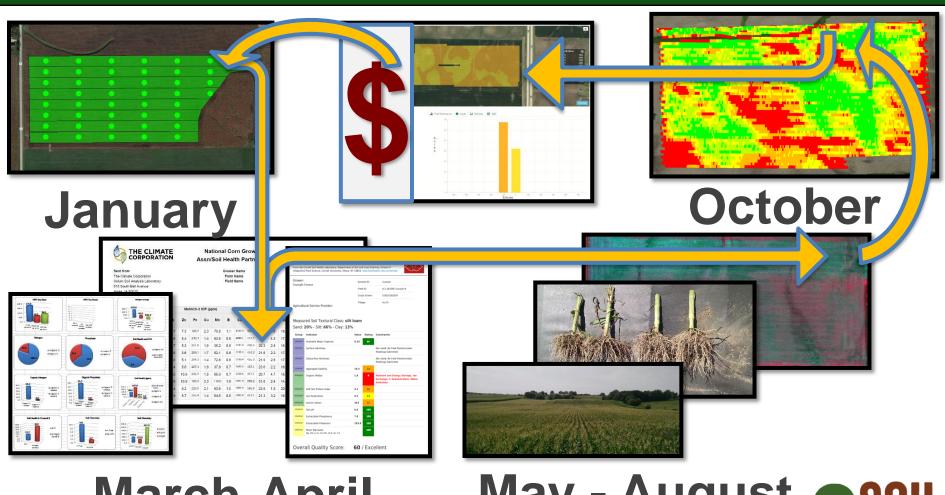


SHP Collaborations — Data Centric

- AgSolver
 - Profit Zone Manager
 - 2016 CIG proposal
- Cornell University
 - Soil health assessment
- Iowa Soybean Association
 - Aerial imagery, yield processing, database construction, protocol sharing
- USDA-ARS
 - Soil, productivity, agronomic data team
- Purdue
 - Economic data
- Kansas State University
 - PLFA sample analysis (small subset of SHP sites)
- The Nature Conservancy
 - SHP Science Advisory Committee
 - Water quality monitoring
 - SHP location expansion WI

- Midwest Consortium of Community Colleges
 - Protocol sharing MOU in place
- North Dakota State University
 - SHP protocol sharing
- POET
 - SHP protocol sharing
- The Soil Health Institute
 - National Soil Health Assessment soil health sampling protocol
- Walton Family Foundation
 - Data collection and management guidelines for WFF grantees
- Conservation Cropping System Initiative
 - Data collection and sharing partnership in development
- CTIC
 - OpTIS
 - Cover crops consortium development
- Field to Market
 - FieldPrint Calculator trial of HPI
- Illinois Corn Growers Association
 - Staff partnership
 - Water quality monitoring
- Iowa Corn Growers Association
 - SHP Staff partnership

Soil Health Partnership Data Collection Process



March-April

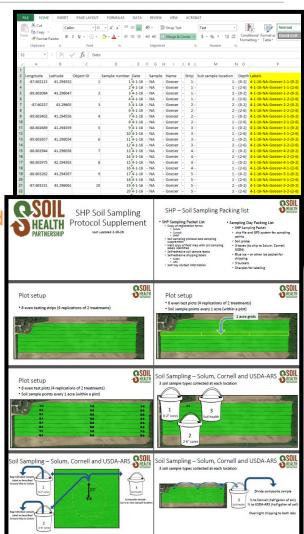
May - August QSOIL



2016 Data Collection Progress

- Soil sampling ~97% sites with data submissions
- Aerial imagery 100%
- Yield data Farmers/agronomist prepped
 - SHP Team training continuing right now
- Treatment establishment
 - Currently 75% of sites with cover crops seeded/established
 - 1 site with nutrient management trial established





SHP data collection, analytics and publication SHP Data Analytics Teams

- Soil, productivity, and agronomics
 - Dr. Doug Karlen USDA ARS
 - Support team within ARS
 - First team strategy meeting held Oct. 4-5



- Economics
 - Dr. Wally Tyner Purdue University
 - Post-doc and graduate student support



- Integration, sustainability and precision management
 - Dr. Chuck Rice Kansas State University
 - Post-doc and industry support team



Soil Health Partnership Communications and Education

- SHP Field events over 40 farmer engagement events
 - Over 2000 in attendance

- Cropping system seminars and ag retail presentations
 - Over 20 events for agronomists and ag/chem dealers

- Increasing reach at national events
 - Commodity Classic, ASA, CSSA, SSSA, ARA





Soil Health Partnership Communications and Education

 Over 385 media stories

 430+ million media impressions

 Increased web traffic



SHP Staff Support for the Network



SHP Director Nick Goeser



SHP Program Coordinator Anne Dietz





Indiana Field Managers Dan Towery Hans Kok





NCGA -Graphic Communications Designer Beth Musgrove



Iowa/Nebraska Field Manager

Iowa Field Managers Elyssa McFarland



Field Manager 2

Illinois Field Managers Jim Isermann



Communications Jenna Higgins Rose

Timeline Expansion Where do we go from here?

