



Resilient Agriculture: Adapting to a Changing Climate

August 5-7, 2014
Ames, Iowa

**SUSTAINABLE
CORN.ORG**
CROPS, CLIMATE, CULTURE AND CHANGE



United States
Department of
Agriculture

National Institute
of Food and
Agriculture



CONFERENCE AGENDA

Tuesday, Aug 5

GARDEN ROOM

1:00 - 1:15 p.m.

Welcome and Opening

Lois Wright Morton and Dean Wendy Wintersteen, ISU

1:15 - 2:00 p.m.

Keynote 1: CLIMATE CHANGE AND AGRICULTURE

Jerry Hatfield, USDA-ARS

2:00 - 2:45 p.m.

Keynote 2: MIDWESTERN FARMERS ANTICIPATE AND RESPOND TO CLIMATE CHANGE

Catherine Kling, ISU

2:45 - 3:15 p.m.

Break

3:15 - 5:00 p.m.

THE SCIENCE OF RESILIENCE - Part 1

Presentations and discussions moderated by Jim Gulliford, Soil & Water Conservation Society, Ankeny, IA

Nitrogen's Resiliency Role

Rob Anex, UW

Carbon's Resiliency Role

Rattan Lal, OSU

Water's Resiliency Role

Jeff Strock, UMN

Regional Water Challenges and Opportunities to Increase Crop Resilience

Jon Hobbs, Jet Propulsion Lab, NASA

Predicting the Impact of Increasing Temperatures on Corn Yield

Bruno Basso, MSU

SOUTH PRAIRIE

5:00 - 6:30 p.m.

Poster Symposium and Reception

Sponsored by Monsanto

NORTH &
CENTRAL PRAIRIE

6:30 p.m.

Dinner

BUS DEPARTS FOR OLDE MAIN

6:45 p.m.

Dinner for Next Generation Scientists and Next Generation Farmers

Sponsored by United Soybean Board

CONFERENCE AGENDA

Wednesday Aug 6
Morning

BUSES DEPART FOR FIELD DEMONSTRATIONS
8:30 a.m.

ISU FIELD EXTENSION EDUCATION LAB & SUSTAINABLE CORN RESEARCH SITE
9:00 - 11:45 a.m.

Hands-on Field Demonstrations

Drainage Water Management

Jane Frankenberger (Purdue), Matt Helmers (ISU)
and Shawn Wohnoutka (UMN)

Cover Crop Options and Management

Eileen Kladvko (Purdue) and Charles Ellis (UM)

Corn Nitrogen Fertilization in a Rye Cover Crop System

John Sawyer (ISU), Peter Scharf (MU) and Dick Wolkowski (UW)

Climate Tools for Corn Production

Chad Hart (ISU), Dennis Todey (SDSU), Laura Edwards (SDSU),
Chad Ingels (ISU) and Hans Schmitz (Purdue)

Soil Moisture and Water Infiltration

Laura Bowling (Purdue), Scott Lee (ISU)
and Marilyn Thelen (MSU)

Measuring Greenhouse Gases

Vince Davis (UW), Becky Bailey (UW) and Javed Iqbal (ISU)

BUSES DEPART FOR GATEWAY CONFERENCE CENTER
Noon



CONFERENCE AGENDA

Wednesday Aug 6
Afternoon

GARDEN ROOM

12:30 - 1:30 p.m.

Lunch

1:30 - 3:15 p.m.

THE SCIENCE OF RESILIENCE - Part 2

Presentations and discussion moderated by Paul Helgeson, GNP Company

Cover Crops

Eileen Kladivko, Purdue

Rotation and Tillage

Joe Lauer, UW and Emergson Nafziger, UI

Crop Diseases

Darin Eastburn, UI

Crop Insects

Michael Dunbar, ISU

3:15 - 3:45 p.m.

Break

3:45 - 5:00 p.m.

FARMER VIEWS ON ADAPTATION TO INCREASING WEATHER VARIABILITY AND EXTREMES

Session and panel moderated by Chad Ingels, ISU

Video: Farmer Perspectives on Vulnerability, Uncertainty, Risks and the Impacts of Climate Change

Survey Results: Farmer Perspectives

J. Gordon Arbuckle, Jr., ISU

Panel: Corn Belt Farmers' Perspectives, Experience and Future Needs as They Adapt to Weather Variability and Extremes

The Farmers: Andy Bensend, Wisconsin
Pat Feldpausch, Michigan
Garry Niemeyer, Illinois
Ray Gaesser, Iowa

5:45 p.m.

LOAD BUSES FOR REIMAN GARDENS

REIMAN
GARDENS

6:00 p.m.

Reception - Sponsored by DuPont Pioneer

6:45 p.m.

Dinner

CONFERENCE AGENDA

Thursday Aug 7

GARDEN ROOM

8:00 - 8:30 a.m.

Keynote: AGRICULTURE & FORESTRY IN A CHANGING CLIMATE: ADAPTATION RECOMMENDATIONS

Ernie Shea, 25x'25 Alliance

8:30 - 11:00 a.m.

CUTTING EDGE TECHNOLOGIES AND STRATEGIES FOR RESILIENT AGRICULTURE

Presentations and discussion moderated by Fred Yoder, 25x'25 Alliance

An Integrated Approach to Sustainability

Ravi Sripada, The Climate Corporation

DuPont Pioneer

Ken O'Brien, DuPont Pioneer

John Deere

Pauley Bradley, John Deere

Adapt-N: An On-Line Tool for Precision Corn Management

Harold van Es, Cornell

Crop Decision-making to Protect Soil and Water

David Muth, Praxik

10:00 - 10:30 a.m.

Break

10:30 a.m. - noon

DEVELOPING A SUSTAINABLE VALUE CHAIN

Presentations and discussion moderated by Fred Yoder, 25x'25 Alliance

Consumer Demand for Products with Light Environmental Footprints

John Kadyszewski, Winrock International

International Economies and Sustainability Protocols

Mark Jackson

Agribusiness Involvement in Improving Agroecosystem Environmental Performance

Jean Payne, Illinois Fertilizer & Chemical Association

USDA Climate Change Program

Bill Hohenstein, Climate Change Program, USDA

12:15 - 2:00 p.m.

Lunch and Speakers

A VIEW OF THE FUTURE FROM CORN AND SOYBEAN FIELDS: WHAT DOES LONG TERM SUSTAINABILITY AND RESILIENCE LOOK LIKE AND HOW DO WE GET THERE?

Garry Niemeyer, Former National Corn Growers Assoc. President
Laura Foell