2019 Crop Advantage Series

Making smart decisions.
Crop Advantage meetings provide a solid foundation of current, research-based crop production information to help make smart, informed decisions for the farming operation. Each location features topics selected for your fields and your growing conditions.

Join the discussion @ISUCropNews or #ISUCropAdv19

IOWA STATE UNIVERSITY
Extension and Outreach
Iowa Pesticide Applicator Recertification

Each meeting is approved for recertification for Iowa private pesticide applicators. Applicators must attend the entire meeting (including at least one pest management topic) to receive recertification credit. The recertification fee for private pesticide applicators is included in meeting registration. Commercial applicator recertification in categories 1A, 1B, 1C and 10 is offered for an additional fee at the Moravia location only.

Continuing Education for Certified Crop Advisers

All locations are approved for continuing education credits for Certified Crop Advisers (CCAs). Credits awarded will depend on workshop sessions attended during the program. Program listings in this brochure use the following credit designations: CM-crop management, PM-pest management, NM-nutrient management, SW-soil and water. All topics are 1.0 credit.

Northwest Iowa Community College – Building A, US Highway 18 West, Sheldon, Iowa

9:30 Registration opens
10:00 Herbicides alone won’t win the weed war! – Bob Hartzler, Extension weed management specialist (PM)
11:00 Session A (select one topic)
   Drainage issues in northwest Iowa – Kris Kohl, Extension agricultural engineering field specialist (SW)
   U.S.-China ag trade and the trade war – Wendong Zhang, Extension ag economist
   What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)
11:50 Lunch (provided)
12:40 Session B (select one topic)
   Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
   Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)
   Potassium effects on crop yield, corn response to nitrogen, and soybean diseases – Antonio Mallarino, Extension soil fertility specialist (NM)
1:35 Session C (select one topic)
   2018 NW Iowa on-farm and research farm results – Joel DeJong, Extension field agronomist; Andrew Weaver, Northwest Iowa Research Farm (CM)
   Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)
   Update on cover crop mixture research results – Mark Licht, Extension cropping systems specialist (SW)
2:30 2019 Ag outlook: It’s stressful. How can we deal with it? – Chad Hart, Extension ag economist; Lori Hayungs, Extension family life specialist (CM)
3:35 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Joel DeJong, Extension field agronomist
4:20 Meeting adjourns
The Burlington Crop Advantage is presented in partnership with Merschman Seeds, Inc., the Iowa Corn Growers Association, and the Iowa Soybean Association.

8:30 Registration opens
8:50 Welcome – Virgil Schmitt, Extension field agronomist; Joe Merschman, president, Merschman Seeds
9:00 Crop weather outlook 2019 – Elwynn Taylor, Extension climatologist (CM)
10:00 Weed management in 2019 – Aaron Hager, Extension weed management specialist, University of Illinois (PM)
10:50 Break
11:10 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; Dawn Dunnegan, Extension family life specialist (CM)
12:00 Lunch (provided)
1:00 Session A (select one topic)
   Profitable use of weather data – Elwynn Taylor, Extension climatologist (CM)
   Soybean practices for high yields – Mark Licht, Extension cropping systems specialist (CM)
   What’s new about fertilizer placement for phosphorus and potassium fertilizers – Antonio Mallarino, Extension soil fertility specialist (NM)
   What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)
2:00 Session B (select one topic)
   Field crop insects updates from 2018 – Erin Hodgson, Extension entomologist (PM)
   Iowa Nutrient Reduction Strategy: Scaling up and measuring success – Elizabeth Juchems, Extension conservation outreach specialist (SW)
   Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)
   Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)
2:50 Break
3:10 Session C (select one topic)
   Agricultural drainage research update – Kristina TeBockhorst, Extension agricultural engineering field specialist; Matt Helmers, Extension agricultural engineer (SW)
   Iowa Private Pesticide Applicator Continuing Instruction Course. Applicants must attend the entire meeting to receive recertification credit. – Virgil Schmitt, Extension field agronomist
   Tariffs: Past, present and future – Charles Brown, Extension farm management field specialist (CM)
   Update on cover crop mixture research results – Elizabeth Juchems, Extension conservation outreach specialist (SW)
4:00 Meeting adjourns

Virgil Schmitt
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Iowa State University Research and Demonstration Farms

Researchers and educators in Iowa’s fields

Land, climate and agricultural enterprises vary considerably from one area of the state to another. To find solutions to problems in each area and to study the impacts of regional differences, the Iowa Agriculture Experiment Station puts researchers and educators in the fields of research farms across Iowa. Farms near Ames are used for intensive studies and for teaching purposes.

More than 130 Iowa State faculty members use the College of Agriculture and Life Sciences’ farms for teaching, research and extension. Each year about 2,000 students receive hands-on education experiences and nearly 15,000 people visit Iowa State’s Research and Demonstration Farms. Learn more at http://farms.ag.iastate.edu
8:30 Registration opens
9:00 Welcome – Angie Rieck-Hinz, Extension field agronomist; Meaghan Anderson, Extension field agronomist
9:05 Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
10:05 Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)
11:05 Session A (select one topic)
  Conservation and land leases – Angie Rieck-Hinz, Extension field agronomist (SW)
  Herbicide resistance: Herbicides alone can’t win the battle – Bob Hartzler, Extension weed management specialist (PM)
  Weather outlook and climate decision tools – Justin Glisan, State Climatologist of Iowa (CM)
12:05 Lunch (provided)
1:00 Session B (select one topic)
  Iowa Private Pesticide Applicator Continuing Instruction Course – Meaghan Anderson, Extension field agronomist
  Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)
  What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)
2:00 Session C (select one topic)
  Herbicide resistance: Herbicides alone can’t win the battle – Bob Hartzler, Extension weed management specialist (PM)
  Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Meaghan Anderson, Extension field agronomist
  What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)
3:00 Break
3:15 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; David Brown, Extension family life specialist (CM)
4:15 Meeting adjourns

Each year nearly 2,000 people attend a Crop Advantage meeting. Here are a few comments received following the meetings.

Solid information, up front and honest. Well organized.
– Okoboji

Good speakers! They were entertaining, engaging, humorous, knowledgeable and personable. Gave us something you could take to the field, not just useless information like some meetings I’ve attended in the past.
– Iowa City

Like the format that permits open question and answer interaction with knowledgeable professionals.
– Sheldon

Relevant information. Please keep these sessions going. I get more useful information from this than anything else I do.
– Honey Creek

Good opportunity to compare notes with ISU Extension specialists, colleagues and friends on topics of interest.
– Ames

Very well organized and on schedule. Liked the booklet that included presentation write-ups. Very nice meeting!
– Mason City

Iowa State staff are in touch with the ‘boots on the ground’ and did an excellent job.
– Burlington

In one place, in one day, I can learn several different subjects from knowledgeable instructors, but most all good information for me to have on the farm.
– Le Mars

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Mike Witt
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@witt_isu
8:00 Registration opens

8:55 Welcome – Josh Michel, Extension field agronomist

9:00 Dicamba: Recap of 2018 and looking ahead in 2019 – Bob Hartzler, Extension weed management specialist (PM)

10:00 Session A (select one topic)
- Climate, weather variability and the U.S. Drought Monitor – Dennis Todey, director, USDA Midwest Climate Hub (CM)
- Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)
- Strategies for diversifying weed management – Bob Hartzler, Extension weed management specialist (PM)
- Utilizing cover crops as a forage resource – Erika Lundy, Extension beef field specialist; Rebecca Vittetoe, Extension field agronomist (SW)

11:00 Session B (select one topic)
- Climate, weather variability and the U.S. Drought Monitor – Dennis Todey, director, USDA Midwest Climate Hub (CM)
- Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)
- Strategies for diversifying weed management – Bob Hartzler, Extension weed management specialist (PM)
- Utilizing cover crops as a forage resource – Erika Lundy, Extension beef field specialist; Rebecca Vittetoe, Extension field agronomist (SW)

12:00 Lunch (provided)

1:00 Session C (select one topic)
- Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
- Finding opportunity areas for wildlife habitat on the farm – Adam Janke, Extension wildlife biologist (CM)
- Iowa Nutrient Reduction Strategy: Scaling up and measuring success – Jamie Benning, Extension water quality program manager (SW)
- Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)

2:00 Session D (select one topic)
- Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
- Iowa Commercial Ag Pesticide Applicator Continuing Instruction Course for 2019 - categories 1A, 1B, 1C and 10 Applicators must attend the entire meeting to receive recertification credit. – Kristine Schaefer, program manager, Pesticide Safety Education Program (PM)
- Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Rebecca Vittetoe, Extension field agronomist
- Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)

3:00 Break

3:15 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; Joy Rouse, Extension family life specialist (CM)

4:15 Meeting adjourns
8:15 Registration opens

9:00 Welcome – Angie Rieck-Hinz, Extension field agronomist; Terry Basol, Extension field agronomist

9:05 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; Mackenzie Johnson, Extension family life specialist (CM)

10:00 Session A (select one topic)

Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)

Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)

Update on soybean disease management – Daren Mueller, Extension crop plant pathologist (PM)

11:00 Session B (select one topic)

Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)

Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)

Update on soybean disease management – Daren Mueller, Extension crop plant pathologist (PM)

12:00 Lunch (provided)

1:00 Session C (select one topic)

Herbicide resistance: Herbicides alone can’t win the battle – Bob Hartzler, Extension weed management specialist (PM)

Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)

Tariffs: Past, present and future – Kelvin Leibold, Extension farm management field specialist (CM)

2:00 Session D (select one topic)

Herbicide resistance: Herbicides alone can’t win the battle – Bob Hartzler, Extension weed management specialist (PM)

Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)

Tariffs: Past, present and future – Kelvin Leibold, Extension farm management field specialist (CM)

2:50 Break

3:10 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Terry Basol, Extension field agronomist

4:00 Meeting adjourns

Mason City | January 11, 2019
North Iowa Area Community College, 500 College Drive, Mason City, Iowa

Angie Rieck-Hinz
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News from your fields.
Visit ICM News to read blog articles from around the state, subscribe to e-mail updates, and catch up on the latest crop news and events.

Integrated Crop Management News
Crop, pest and soil management information from Iowa State University Extension and Outreach specialists and field agronomists.
crops.extension.iastate.edu
Knowledge in Every Field

Each growing season farmers face unforeseen challenges. Extreme weather, unanticipated pests, unknown soil conditions- all these factors can interfere with producing an exceptional crop. Farmers contact field agronomists with Iowa State University Extension and Outreach asking for help to sort out crop issues and find ways to lessen their detrimental effect on yields.

Field agronomists are members of a team of integrated cropping systems specialists at Iowa State University who focus on how crop production interacts with soil, weather, cover crops, crop rotation and management practices and support farmers’ use of data-driven technologies in precision agriculture.

To contact an ISU Extension field agronomist serving your area visit www.extension.iastate.edu/ag/crops or call your county Extension office.
8:15 Registration opens
9:00 Welcome – Angie Rieck-Hinz, Extension field agronomist
9:05 Weather outlook for 2019 – Dennis Todey, director, USDA Midwest Climate Hub (CM)
10:00 Session A (select one topic)
   Herbicide resistance: Herbicides alone can’t win the battle – Bob Hartzler, Extension weed management specialist (PM)
   Lean and mean crop production for 2019 – Angie Rieck-Hinz, Extension field agronomist (CM)
   Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)
11:00 Session B (select one topic)
   Herbicide resistance: Herbicides alone can’t win the battle – Bob Hartzler, Extension weed management specialist (PM)
   Lean and mean crop production for 2019 – Angie Rieck-Hinz, Extension field agronomist; Meaghan Anderson, Extension field agronomist (CM)
   Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)
12:00 Lunch (provided)
1:00 Session C (select one topic)
   Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
   Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Meaghan Anderson, Extension field agronomist
   Tariffs: Past, present and future – Kelvin Leibold, Extension farm management field specialist (CM)
2:00 Session D (select one topic)
   Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
   Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Meaghan Anderson, Extension field agronomist
   Tariffs: Past, present and future – Kelvin Leibold, Extension farm management field specialist (CM)
2:50 Break
3:10 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; David Brown, Extension family life specialist (CM)
4:00 Meeting adjourns
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<th>Time</th>
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<tbody>
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<td>8:15</td>
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<td>Profitable use of weather data – Elwynn Taylor, Extension climatologist (CM)</td>
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<td>Alfalfa pest management: Insects, diseases, weeds and use of variety selection – Brian Lang, Extension field agronomist (PM)</td>
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<td>What’s new with corn diseases and foliar fungicides – Alison Robertson, Extension crop plant pathologist (PM)</td>
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<td>Interpreting soil test results for P, K and pH after a dry or wet crop season – Antonio Mallarino, Extension soil fertility specialist (NM)</td>
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<td>Key decisions for farm succession planning – Melissa O’Rourke, Extension farm management field specialist</td>
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<td>Farmland leasing: Trends and strategies – Melissa O’Rourke, Extension farm management field specialist</td>
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<td>Using an insect pest crop scout calendar in corn and soybean production – Brian Lang, Extension field agronomist (PM)</td>
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<td>Alfalfa fertility – Brian Lang, Extension field agronomist (NM)</td>
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<td>Cover crops and no-till ahead of soybeans: Low risk – big rewards – Jamie Benning, Extension water quality program manager (SW)</td>
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<td>Lowering the cost of corn production for 2019 – Joe Lauer, Extension agronomist, University of Wisconsin (CM)</td>
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<td>Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; Cindy Thompson, Extension family life specialist (CM)</td>
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8:30 Registration opens
8:55 Welcome – Virgil Schmitt, Extension field agronomist
9:00 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; Barbara Dunn-Swanson, Extension family life specialist (CM)
10:00 Session A (select one topic)
   Crop weather outlook 2019 – Elwynn Taylor, Extension climatologist (CM)
   Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)
   Profitable corn production in 2019 – Joe Lauer, Extension agronomist, University of Wisconsin (CM)
   Tariffs: Past, present and future – Ryan Drollette, Extension farm management field specialist (CM)
10:50 Break
11:10 Session B (select one topic)
   Crop weather outlook 2019 – Elwynn Taylor, Extension climatologist (CM)
   Field crop insects updates from 2018 – Erin Hodgson, Extension entomologist (PM)
   Profitable corn production in 2019 – Joe Lauer, Extension agronomist, University of Wisconsin (CM)
   What’s new about fertilizer placement for phosphorus and potassium fertilizers – Antonio Mallarino, Extension soil fertility specialist (NM)
12:00 Lunch (provided)
1:00 Session C (select one topic)
   Field crop insects updates from 2018 – Erin Hodgson, Extension entomologist (PM)
   Profitable use of weather data – Elwynn Taylor, Extension climatologist (CM)
   Update on cover crop mixture research results – Elizabeth Juchems, Extension conservation outreach specialist (SW)
   What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)
2:00 Session D (select one topic)
   Iowa Nutrient Reduction Strategy: Scaling up and measuring success – Jamie Benning, Extension water quality program manager (SW)
   Long-term tillage and rotation effects on carbon, yield and economics – Mahdi Al-Kaisi, Extension soil and water management specialist (SW)
   Weed management in 2019 – Bob Hartzler, Extension weed management specialist (PM)
   What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)
2:50 Break
3:10 Session E (select one topic)
   Agricultural drainage research update – Kristina TeBockhorst, Extension agricultural engineering field specialist; Kapil Arora, Extension agricultural engineering field specialist (SW)
   Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Virgil Schmitt, Extension field agronomist
   Tariffs: Past, present and future – Ryan Drollette, Extension farm management field specialist (CM)
   Weed management in 2019 – Bob Hartzler, Extension weed management specialist (PM)
4:00 Meeting adjourns
Atlantic | January 24, 2019
Cass County Community Building, 805 West 10th Street, Atlantic, Iowa

8:30 Registration opens

8:55 Welcome – Aaron Saeugling, Extension field agronomist

9:00 Impacts of interest rate hikes and trade disputes on land values – Wendong Zhang, Extension ag economist

10:00 Session A (select one topic)

2019 Herbicide updates – Bob Hartzler, Extension weed management specialist (PM)

Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)

11:00 Session B (select one topic)

2018 growing season review – Mark Licht, Extension cropping systems specialist (CM)

Weather outlook for 2019 – Dennis Todey, director, USDA Midwest Climate Hub (CM)

12:00 Lunch (provided)

12:45 Session C (select one topic)

Emerging pest in Iowa: Soybean gall midge – Ashley Dean, graduate research assistant, Entomology (PM)

Implementing bee friendly practices on the farm – Randall Cass, Extension field entomologist (PM)

1:45 Session D (select one topic)

Cover crops and no-till ahead of soybeans: Low risk – big rewards – Jamie Benning, Extension water quality program manager (SW)

Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Aaron Saeugling, Extension field agronomist

2:45 Break

3:00 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; Kim Brantner, Extension family life specialist (CM)

4:00 Meeting adjourns
Plan ahead.

Dealing with herbicide resistance can be expensive. Developing long-term management plans that reduce the chances of resistance developing will minimize that cost. It’s a team effort—farmer, retailer, and industry.

Herbicide Resistance and Weed Management Course
An online, interactive and self-paced course building skills to develop long-term, effective and economical weed management plans.

www.aep.iastate.edu/weeds

8:30 Registration opens
8:55 Welcome – Rebecca Vittetoe, Extension field agronomist
9:00 Lean and mean crop production for 2019 – Mark Licht, Extension cropping systems specialist (CM)
10:00 Session A (select one topic)
   Agricultural drainage research update – Kristina TeBockhorst, Extension agricultural engineering field specialist; Kapil Arora, Extension agricultural engineering field specialist (SW)
   New farm bill implications – Ryan Drollette, Extension farm management field specialist (CM)
   Tree management on farms – Mark Vitos, forester, Iowa Department of Natural Resources
   Weed management in 2019 – Bob Hartzler, Extension weed management specialist (PM)
11:00 Session B (select one topic)
   Agricultural drainage research update – Matt Helmers, Extension agricultural engineer (SW)
   Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
   New farm bill implications – Ryan Drollette, Extension farm management field specialist (CM)
   Weed management in 2019 – Bob Hartzler, Extension weed management specialist (PM)
12:00 Lunch (provided)

1:00 Session C (select one topic)
   Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
   Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)
   Weather outlook for 2019 – Dennis Todey, director, USDA Midwest Climate Hub (CM)
   What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)

2:00 Session D (select one topic)
   Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.—Rebecca Vittetoe, Extension field agronomist
   Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)
   Weather outlook for 2019 – Dennis Todey, director, USDA Midwest Climate Hub (CM)
   What’s new in corn diseases? – Alison Robertson, Extension crop plant pathologist (PM)

3:00 Break

3:15 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; Barbara Dunn-Swanson, Extension family life specialist (CM)

4:15 Meeting adjourns
8:15 Registration opens

9:00 Welcome – Mike Witt, Extension field agronomist

9:05 Herbicide resistance: Herbicides alone can’t win the battle – Bob Hartzler, Extension weed management specialist (PM)

10:00 Session A (select one topic)
- Emerging pest in Iowa: Soybean gall midge – Erin Hodgson, Extension entomologist (PM)
- Finding opportunity areas for wildlife habitat on the farm – Adam Janke, Extension wildlife specialist (CM)
- Tariffs: Past, present and future – Tim Christensen, Extension farm management field specialist (CM)

11:00 Session B (select one topic)
- Crop weather outlook 2019 – Elywnn Taylor, Extension climatologist (CM)
- Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)
- Update on cover crop mixture research results – Mark Licht, Extension cropping systems specialist (SW)

12:00 Lunch (provided)

1:00 Session C (select one topic)
- Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)
- Soil pH and liming research update and management strategies with low crop prices – Antonio Mallarino, Extension soil fertility specialist (NM)
- Using corn hybrid performance trials to win the game – Mark Licht, Extension cropping systems specialist (CM)

2:00 Session D (select one topic)
- Implementing bee friendly practices on the farm – Randall Cass, Extension field entomologist (PM)
- Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit. – Aaron Saeugling, Extension field agronomist
- Nitrogen management in variable environments – John Sawyer, Extension soil fertility specialist (NM)

2:50 Break

3:10 Market outlook for 2019 and strategies for dealing with stress – Chad Hart, Extension ag economist; David Brown, Extension family life specialist (CM)

4:00 Meeting adjourns
## Instructions

- **$50** early registration
- **$60** if less than 7 days prior to the meeting, or the day of the meeting
- Private pesticide applicator recertification is included in the registration fee.
- **$35** for commercial applicator recertification ([available at Moravia location only](#))

CCA credits are included in the meeting registration fee.

Registration includes lunch, refreshment breaks and a copy of the conference proceedings booklet.

Registrations are not accepted by phone.

### Changes and cancellations

All location change or cancellation requests go to (515) 294-6429 or anr@iastate.edu

Cancellations requesting a refund must be received no later than 3 days prior to the meeting (except weather related).

### Weather policy

Cancellations or changes will be posted to [www.cropadvantage.org](http://www.cropadvantage.org) and notice provided to local radio and TV. The decision to cancel will be made no later than 6:00 am the morning of the meeting.

If you are unable to travel because of hazardous conditions in your area you may switch your registration to a remaining meeting or receive a refund.

### Payment

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Sheldon</td>
<td>January 3</td>
</tr>
<tr>
<td>Burlington</td>
<td>January 4</td>
</tr>
<tr>
<td>Storm Lake</td>
<td>January 8</td>
</tr>
<tr>
<td>Ames</td>
<td>January 9</td>
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<tr>
<td>Moravia</td>
<td>January 10</td>
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<tr>
<td>Mason City</td>
<td>January 11</td>
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<tr>
<td>Okoboji</td>
<td>January 15</td>
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<tr>
<td>Fort Dodge</td>
<td>January 16</td>
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<td>Waterloo</td>
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<td>Davenport</td>
<td>January 18</td>
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<td>Le Mars</td>
<td>January 22</td>
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<tr>
<td>Atlantic</td>
<td>January 24</td>
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<tr>
<td>Iowa City</td>
<td>January 29</td>
</tr>
<tr>
<td>Denison</td>
<td>January 30</td>
</tr>
</tbody>
</table>

**Select options**

- **Private pesticide applicator recertification** *(included in registration)* [ ]
- **Commercial pesticide applicator** – **$35** ([Moravia location only](#)) [ ]

### Send completed form and check payable to Iowa State University to:

ANR Program Services  
1151 NSRIC  
1029 N University Blvd  
Ames, Iowa 50011-3611

For assistance with registration, receipts, billing, cancellation or questions on the status of your registration please call (515) 294-6429 or email anr@iastate.edu. For questions about the program at any location please contact your Iowa State University Extension Field Agronomist hosting the meeting.
2019 Crop Advantage Series

Making smart decisions.

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