2022 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.
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 and 1C is offered for an additional fee at the Chariton location only.**

Thank you!
The Iowa Corn Growers Association and Iowa Soybean Association have provided statewide support for Crop Advantage 2022. Iowa State University Extension and Outreach appreciates their support and cooperation in bringing crop production education and research information to Iowa producers.

Visit [www.cropadvantage.org](http://www.cropadvantage.org) for more information, directions and online registration.

Sheldon | January 4, 2022
Northwest Iowa Community College – Building A, US Highway 18 West, Sheldon, Iowa

9:30 Registration opens
10:00 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
11:00 Management strategies for corn rootworm
   – Erin Hodgson, extension entomologist (PM)
12:00 Lunch (provided)
12:50 **Session A** (select one topic)
   Carbon markets
   – Chad Hart, extension crop marketing specialist (SW)
   Updates on soybean gall midge and fall armyworm
   – Erin Hodgson, extension entomologist (PM)
   Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)
1:45 **Session B** (select one topic)
   Changing precipitation pattern effects on soil erosion:
   Management considerations – Rick Cruse, professor, Agronomy and director, Iowa Water Center (SW)
   Northwest Iowa on-farm and research projects from 2021
   – Joel DeJong, extension field agronomist (CM)
   Tax law changes in the works
   – Kristine Tidgren, director, Center for Ag Law and Taxation
2:40 **Session C** (select one topic)
   Corn and soybean disease update
   – Daren Mueller, extension crop plant pathologist (PM)
   Integrating cover crop and reduced row spacing for managing herbicide resistance in Iowa corn and soybean
   – Prashant Jha, extension weed management specialist (PM)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
3:35 Iowa Private Pesticide Applicator Continuing Instruction Course. **Applicators must attend the entire meeting to receive recertification credit.**
   – Joel DeJong, extension field agronomist
4:35 Meeting adjourns

Joel DeJong
Extension field agronomist
jdejong@iastate.edu
(712) 540-1085
@joel_dejong

Supported, in part, by an Iowa Sustainable Agriculture Research and Education (SARE) Professional Development Program mini-grant. Learn more about SARE at [www.iowasare.org](http://www.iowasare.org)
9:30 Registration opens

10:00 2022 Crop market outlook
  – Chad Hart, extension crop marketing specialist (CM)

11:00 Corn rootworm management
  – Erin Hodgson, extension entomologist (PM)

12:00 Lunch (provided)

12:45 Session A (select one topic)
  Armyworm and soybean gall midge update
  – Erin Hodgson, extension entomologist (PM)
  Nutrient input decisions for 2022 and beyond
  – Antonio Mallarino, extension soil fertility specialist (NM)
  Road weights, safety and DOT updates – Officer Paul Laake, Motor Vehicle Enforcement, Iowa Department of Transportation
  Weed management update for 2022
  – Prashant Jha, extension weed management specialist (PM)

1:40 Session B (select one topic)
  Making the relationship work: Cereal rye ahead of corn
  – Mark Licht, extension cropping systems specialist (SW)
  On-farm trials: Local trials, local results
  – Mike Witt, extension field agronomist (CM)
  Phosphorus and potassium management for different tillage systems
  – Antonio Mallarino, extension soil fertility specialist (NM)
  Weed management update for 2022
  – Prashant Jha, extension weed management specialist (PM)

2:35 Break

2:40 Session C (select one topic)
  2022 Decisions for crop insurance, farm bill, and cost of crop production
  – Gary Wright, extension farm management field specialist (CM)
  Corn and soybean disease update
  – Daren Mueller, extension crop plant pathologist (PM)
  Making the relationship work: Cereal rye ahead of corn
  – Mark Licht, extension cropping systems specialist (SW)
  Resilient Working Lands: Using your land’s natural resources to increase return on investment
  – Catherine DeLong, manager, Water Quality Program (SW)

3:35 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.
  – Gentry Sorenson, extension field agronomist

4:35 Meeting adjourns

---

**PLANter University**

Feb 7, 2022 – Sutherland
Feb 8, 2022 – Nashua
Feb 9, 2022 – Washington

Feb 10, 2022 – Lyman
Feb 11, 2022 – Nevada

Planter University is a brand-neutral learning opportunity to better understand and optimize planting setups with a focus on evaluating and identifying the right setting for your seed, your field, and your equipment.

- What we faced in 2021, and what to improve for 2022
- Understanding planter downforce
- Want to plant fast? Review of technology and setting up a high speed planter
- Back to basics: Maintenance, calibration, seedbed prep
- Attachments, upgrades and considerations
- Evaluating technology, using planter data on your farm

Program runs 9:30 AM to 2:30 PM at each location. Registration is $75. Space is limited and pre-registration is required.

[www.aep.iastate.edu/planter](http://www.aep.iastate.edu/planter)

---

Gentry Sorenson
Extension field agronomist
gentrys@iastate.edu
(641) 430-6715
@GentrySorenson
8:30 Registration opens

8:50 Welcome
   - Virgil Schmitt, extension field agronomist; Joe Merschman, president, Merschman Seeds; Chelsea Harbach, extension educator, University of Illinois

9:00 Corn foliar disease management and fungicide residual properties
   - Alison Robertson, extension crop plant pathologist (PM)

10:00 Integrated weed management strategies
   - Aaron Hager, extension weed management specialist, University of Illinois (PM)

10:50 Break

11:10 2022 Crop market outlook
   - Chad Hart, extension crop marketing specialist (CM)

12:00 Lunch (provided)

1:00 Session A (select one topic)
   - New frontiers in corn rootworm management
     - Ashley Dean, extension specialist, Entomology (PM)
   - Nutrient input decisions for 2022 and beyond
     - Antonio Mallarino, extension soil fertility specialist (NM)
   - On-farm trials: Local trials, local results
     - Mike Witt, extension field agronomist (CM)
   - Weather and climatological outlooks for 2022
     - Justin Glisan, State Climatologist of Iowa (CM)

2:00 Session B (select one topic)
   - 2022 Decisions for crop insurance, farm bill, and cost of crop production — Charles Brown, extension farm management field specialist (CM)
   - New frontiers in corn rootworm management
     - Ashley Dean, extension specialist, Entomology (PM)
   - Nutrient input decisions for 2022 and beyond
     - Antonio Mallarino, extension soil fertility specialist (NM)
   - Strategies for evaluating non-traditional crop production products — Mike Witt, extension field agronomist (CM)

2:50 Break

3:10 Session C (select one topic)
   - Best practices to manage soybean cyst nematode
     - Chelsea Harbach, extension educator, commercial agriculture, University of Illinois (PM)
   - Grain bin safety
     - Kristina TeBockhorst, extension agricultural engineering field specialist (CM)
   - Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.
     - Virgil Schmitt, Clarabell Probasco, and Rebecca Vittetoe, extension field agronomists
   - Trends with farmland leasing and farmland values
     - Ryan Drollette, extension farm management field specialist (CM)

4:10 Meeting adjourns
9:30 Registration opens
10:00 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
11:00 Corn rootworm management
   – Erin Hodgson, extension entomologist (PM)
12:00 Lunch (provided)
12:45 Session A (select one topic)
   Decision tree for edge of field nitrate
   – Matt Helmers, extension agricultural engineer (SW)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   On-farm trials: Local trials, local results
   – Mike Witt, extension field agronomist (CM)
   Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)
1:40 Session B (select one topic)
   Nitrogen management for nitrate leaching
   – Matt Helmers, extension agricultural engineer (SW)
   Phosphorus and potassium management for different tillage systems
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Putting together the pieces of soybean yield
   – Mark Licht, extension cropping systems specialist (CM)
   Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)
2:35 Break
2:40 Session C (select one topic)
   Carbon markets
   – Alejandro Plastina, extension economist (SW)
   Corn and soybean disease update
   – Daren Mueller, extension crop plant pathologist (PM)
   Putting together the pieces of soybean yield
   – Mark Licht, extension cropping systems specialist (CM)
   Resilient Working Lands: Using your land’s natural resources to increase return on investment
   – Adam Janke, extension wildlife specialist (SW)
3:35 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.
   – Gentry Sorenson, extension field agronomist
4:35 Meeting adjourns

Returning for a second season, CropsTV provides the convenience of learning at home, office or anywhere there’s an internet connection. Watch the programs on-demand, on your schedule. Choose from 30 topics selected from the ICM Conference, Crop Advantage, or recorded exclusively for CropsTV viewers.

➤ Viewing opens January 3 and continues through mid-March.
➤ CCA credits for each episode.
➤ No software to download. No meeting invites. Watch in any web browser.
➤ Studio recorded programs delivered in HD quality.
➤ One payment. One login. One price: $100
➤ Follow along at @ISUCropNews or #CropsTV.
➤ Register at www.aep.iastate.edu/cropstv

Watch Season 1 of CropsTV at go.iastate.edu/XU4OT8
8:30 Registration opens
9:00 Welcome
  – Angie Rieck-Hinz and Mike Witt, extension field agronomists
9:10 Managing corn rootworm in 2022 and beyond
  – Ashley Dean, extension specialist, Entomology (PM)
10:05 Session A (select one topic)
   Changing precipitation pattern effects on soil erosion:
   Management considerations
   – Rick Cruse, professor, Agronomy and director, Iowa Water
     Center (SW)
   Liming considerations for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Windbreak school: Establishment, management, and
   renovation
   – Billy Beck, extension forestry specialist (SW)
11:05 Session B (select one topic)
   Liming considerations for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Managing fungicides to maximize return and slow
   resistance
   – Alison Robertson, extension crop plant pathologist (PM)
   Tax law changes in the works
   – Charles Brown, extension farm management field specialist
12:05 Lunch (provided)
1:00 Session C (select one topic)
   Changing precipitation pattern effects on soil erosion:
   Management considerations
   – Rick Cruse, professor, Agronomy and director, Iowa Water
     Center (SW)
   Managing fungicides to maximize return and slow
   resistance
   – Alison Robertson, extension crop plant pathologist (PM)
   Weed management update for 2022
   – Austin Schleich or Ryan Hamberg, graduate assistants, Weed
     Science, Iowa State University (PM)
2:00 2022 Crop market outlook
  – Chad Hart, extension crop marketing specialist (CM)
3:00 Break
3:15 Iowa Private Pesticide Applicator Continuing Instruction
Course. Applicators must attend the entire meeting to
receive recertification credit.
  – Angie Rieck-Hinz, extension field agronomist, Mike Witt,
  extension field agronomist
4:15 Meeting adjourns
8:15 Registration opens

9:00 Corn rootworm management
   – Erin Hodgson, extension entomologist (PM)

10:00 Session A (select one topic)
2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
Cost-effective use of fertilizers for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
Maximizing grazing opportunities with annual grasses
   – Denise Schwab, extension beef field specialist (CM)
Windbreak school: Establishment, management, and renovation
   – Billy Beck, extension forestry specialist (SW)

11:00 Session B (select one topic)
2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
Liming considerations for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
Maximizing grazing opportunities with annual grasses
   – Denise Schwab, extension beef field specialist (CM)
Maximizing the value of your manure nutrients
   – Brian Dougherty, extension field agricultural engineer (SW)

12:00 Lunch (provided)

12:45 Session C (select one topic)
Making the relationship work: Cereal rye ahead of corn
   – Mark Licht, extension cropping systems specialist (SW)
Maximizing the value of your manure nutrients
   – Brian Dougherty, extension field agricultural engineer (SW)
Smokey growing season impact on crop production
   – Sotirios Archontoulis, associate professor, Agronomy (CM)
Weather and climatological outlooks for 2022
   – Justin Glisan, State Climatologist of Iowa (CM)

1:45 Session D (select one topic)
Corn and soybean disease update
   – Alison Robertson, extension crop plant pathologist (PM)
Making the relationship work: Cereal rye ahead of corn
   – Mark Licht, extension cropping systems specialist (SW)
Weather and climatological outlooks for 2022
   – Justin Glisan, State Climatologist of Iowa (CM)
Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)

2:45 Session E (select one topic)
Carbon markets
   – Ann Johanns, program specialist, Farm Management (SW)
Corn and soybean disease update
   – Alison Robertson, extension crop plant pathologist (PM)
Farm biosecurity and foreign animal disease awareness
   – Mark Storlie or Colin Johnson, extension swine field specialists
Testing harvest weed seed control strategies in Iowa: Chaff lining and seed destruction
   – Prashant Jha, extension weed management specialist (PM)

3:45 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicants must attend the entire meeting to receive recertification credit.
   – Terry Basol, extension field agronomist

4:45 Meeting adjourns
8:15 Registration opens

9:00 Welcome
   – Angie Rieck-Hinz, extension field agronomist

9:15 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)

10:10 Corn rootworm management
   – Ashley Dean, extension specialist, Entomology (PM)

11:05 Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)

12:00 Lunch (provided)

1:00 Session A (select one topic)
   Phosphorus and potassium management for different tillage systems
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Road weights, safety and DOT updates
   – Sgt. Jared Arbogast, Motor Vehicle Enforcement, Iowa Department of Transportation
   Transitioning the farm to the next generation
   – Kelvin Leibold, extension farm management field specialist

2:00 Session B (select one topic)
   Making cents of carbon markets and pipelines
   – Kelvin Leibold, extension farm management field specialist (SW)
   Phosphorus and potassium management for different tillage systems
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Resilient Working Lands: Using your land’s natural resources to increase return on investment
   – Billy Beck, extension forestry specialist (SW)

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

4:10 Meeting adjourns
8:30 Registration opens
8:55 Welcome
   – Clarabell Probasco, extension field agronomist
9:00 Corn rootworm and fall armyworm update
   – Erin Hodgson, extension entomologist (PM)
10:00 **Session A (select one topic)**
   2022 Decisions for crop insurance, farm bill, and cost of crop production
   – Charles Brown, extension farm management field specialist (CM)
   Impact of cereal rye cover crop termination timing and herbicide programs for managing herbicide resistant weeds in soybean
   – Prashant Jha, extension weed management specialist (PM)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)

11:00 **Session B (select one topic)**
   Forage production and management
   – Rebecca Vittetoe and Aaron Saeugling, extension field agronomists (CM)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Tax law changes in the works
   – Charles Brown, extension farm management field specialist
12:00 Lunch (provided)
1:00 **Session C (select one topic)**
   Impacts of a changing climate on weather variability and future agricultural production
   – Justin Glisan, State Climatologist of Iowa (CM)
   Managing Iowa’s farm ponds
   – Joe Morris, director, North Central Regional Aquaculture Center (SW)
   Understanding fungicides to manage crop disease
   – Alison Robertson, extension crop plant pathologist (PM)

2:00 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
3:00 Break
3:15 **Session D (select one topic)**
   Applicators must attend the entire meeting to receive recertification credit.
   Iowa Commercial Ag Pesticide Applicator Continuing Instruction Course
   – Carol Pilcher, manager, Pesticide Safety Education Program (PM)
   Iowa Private Pesticide Applicator Continuing Instruction Course
   – Clarabell Probasco, extension field agronomist
4:15 Meeting adjourns
Webster City | January 19, 2022
Briggs Woods Conference Center, 2501 Briggs Woods Trail, Webster City, Iowa

8:15 Registration opens
9:00 Welcome – Angie Rieck-Hinz, extension field agronomist
9:15 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
10:10 Corn rootworm management
   – Erin Hodgson, extension entomologist (PM)
11:05 Weather and climatological outlooks for 2022
   – Dennis Toddy, director, Midwest Climate Hub, USDA-ARS or Justin Glisan, State Climatologist of Iowa (CM)
12:00 Lunch (provided)
1:00 Session A (select one topic)
   Changing precipitation pattern effects on soil erosion: Management considerations
   – Rick Cruse, professor, Agronomy and director, Iowa Water Center (SW)
   Phosphorus and potassium management for different tillage systems
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Understanding fungicides to manage crop disease
   – Alison Robertson, extension crop plant pathologist (PM)
2:00 Session B (select one topic)
   Transitioning the farm to the next generation
   – Kelvin Leibold, extension farm management field specialist
   Understanding fungicides to manage crop disease
   – Alison Robertson, extension crop plant pathologist (PM)

Session B (continued)
   Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)
2:50 Break
3:10 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.
   – Angie Rieck-Hinz, extension field agronomist
4:10 Meeting adjourns

Atlantic | January 20, 2022
Cass County Community Building, 805 West 10th Street, Atlantic, Iowa

8:30 Registration opens
8:55 Welcome – Aaron Saeugling, extension field agronomist
9:00 Corn rootworm management
   – Ashley Dean, extension specialist, Entomology (PM)
10:00 Session A (select one topic)
   Cost-effective use of fertilizers for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Weather and climatological outlooks for 2022
   – Justin Glisan, State Climatologist of Iowa (CM)
10:50 Break
11:00 Session B (select one topic)
   Managing aquatic vegetation on Iowa’s ponds
   – Joe Morris, director, North Central Regional Aquaculture Center (SW)
   Windbreak school: Establishment, management, and renovation – Billy Beck, extension forestry specialist (SW)
12:00 Lunch (provided)
12:50 Session C (select one topic)
   Farm transition and estate planning
   – Tim Christensen, extension farm management field specialist
   Updates on soybean gall midge and fall armyworm
   – Ashley Dean, extension specialist, Entomology (PM)
1:50 Session D (select one topic)
   Carbon markets
   – Tim Christensen, extension farm management field specialist (SW)
   Corn fungicide use in southwest Iowa and tar spot
   – Alison Robertson, extension crop plant pathologist (PM)
2:50 Break
3:00 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
4:00 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.
   – Mike Witt, extension field agronomist
5:00 Meeting adjourns

Angie Rieck-Hinz
Extension field agronomist
amrieck@iastate.edu
(515) 231-2830
@nciacrops

Meaghan Anderson
Extension field agronomist
mjanders@iastate.edu
(319) 331-0058
@mjanders1

Aaron Saeugling
Extension field agronomist
clonz5@iastate.edu
(641) 344-5704
8:30 Registration opens

8:55 Welcome
   – Virgil Schmitt, extension field agronomist

9:00 New frontiers in corn rootworm management
   – Erin Hodgson, extension entomologist (PM)

10:00 Session A (select one topic)
   2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
   2022 Decisions for crop insurance, farm bill, and cost of crop production
   – Ryan Drollette, extension farm management field specialist (CM)
   Corn foliar disease management and fungicide residual properties
   – Daren Mueller, extension crop plant pathologist (PM)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)

10:50 Break

11:10 Session B (select one topic)
   2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)
   Corn foliar disease management and fungicide residual properties
   – Daren Mueller, extension crop plant pathologist (PM)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Weather and climatological outlooks for 2022
   – Justin Glisan, State Climatologist of Iowa (CM)

12:00 Lunch (provided)

1:00 Session C (select one topic)
   4Rs of nitrogen management for nitrate leaching and crop production
   – Matt Helmers, extension agricultural engineer (NM)
   Integrated weed management strategies
   – Prashant Jha, extension weed management specialist (PM)
   Making sense of carbon market opportunities
   – Jean Brokis, Midwest program manager; Emily Bruner, Midwest science director, American Farmland Trust (SW)
   On-farm trials: Local trials, local results
   – Mike Witt, extension field agronomist (CM)

2:00 Session D (select one topic)
   Integrated weed management strategies
   – Prashant Jha, extension weed management specialist (PM)
   Smokey growing season impact on crop production
   – Mark Licht, extension cropping systems specialist (CM)
   Strategies for evaluating non-traditional crop production products
   – Mike Witt, extension field agronomist (CM)
   The science of carbon credits
   – Marshall McDaniel, assistant professor, Agronomy (SW)

2:50 Break

3:10 Session E (select one topic)
   Best practices to manage soybean cyst nematode
   – Chelsea Harbach, extension educator, commercial agriculture, University of Illinois (PM)
   Grain bin safety
   – Kristina TeBockhorst, extension agricultural engineering field specialist (CM)
   Trends with farmland leasing and farmland values
   – Ryan Drollette, extension farm management field specialist (CM)
   Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit
   – Virgil Schmitt, Clarabell Probasco and Rebecca Vittetoe, extension field agronomists

4:00 Meeting adjourns
8:30 Registration opens

8:55 Welcome
   – Rebecca Vittetoe, extension field agronomist

9:00 Corn rootworm management
   – Erin Hodgson, extension entomologist (PM)

10:00 Session A (select one topic)
   2022 Decisions for crop insurance, farm bill, and cost of crop production
   – Ryan Drollette, extension farm management field specialist (CM)
   4Rs of nitrogen management for nitrate leaching and crop production
   – Matt Helmers, extension agricultural engineer (NM)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Understanding fungicides to manage crop disease
   – Alison Robertson, extension crop plant pathologist (PM)

11:00 Session B (select one topic)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Tax law changes in the works
   – Charles Brown, extension farm management field specialist
   Understanding fungicides to manage crop disease
   – Alison Robertson, extension crop plant pathologist (PM)
   Windbreak school: Establishment, management, and renovation
   – Mark Vitosh, forester, Iowa Department of Natural Resources (SW)

12:00 Lunch (provided)

1:00 Session C (select one topic)
   On-farm trials: Local trials, local results
   – Mike Witt, extension field agronomist (CM)
   Smokey growing season impact on crop production
   – Mark Licht, extension cropping systems specialist (CM)
   The science of carbon credits
   – Lisa Schulte-Moore, professor, Natural Resource Ecology and Management (SW)
   Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)

1:50 Break

2:00 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)

3:15 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.
   – Rebecca Vittetoe, Virgil Schmitt and Clarabell Probasco, extension field agronomists

4:15 Meeting adjourns
Le Mars | January 26, 2022
Le Mars Convention Center, 251 12th Street Southeast, Le Mars, IA

9:30 Registration opens

10:00 2022 Crop market outlook
   – Chad Hart, extension crop marketing specialist (CM)

11:00 Management strategies for corn rootworm
   – Erin Hodgson, extension entomologist (PM)

12:00 Lunch (provided)

12:50 Session A (select one topic)
   Carbon markets
   – Alejandro Plastina, extension economist (SW)
   Smokey growing season impact on crop production
   – Sotirios Archontoulis, associate professor, Agronomy (CM)
   Weed management update for 2022
   – Prashant Jha, extension weed management specialist (PM)

1:45 Session B (select one topic)
   Northwest Iowa on-farm and research projects from 2021
   – Joel DeJong, extension field agronomist (CM)
   Nutrient input decisions for 2022 and beyond
   – Antonio Mallarino, extension soil fertility specialist (NM)
   Updates on soybean gall midge and fall armyworm
   – Erin Hodgson, extension entomologist (PM)

2:40 Session C (select one topic)
   Changing precipitation pattern effects on soil erosion:
   Management considerations
   – Rick Cruse, professor, Agronomy and director, Iowa Water Center (SW)
   Corn and soybean disease update
   – Daren Mueller, extension crop plant pathologist (PM)
   Integrating cover crop and reduced row spacing for managing herbicide resistance in Iowa corn and soybean
   – Prashant Jha, extension weed management specialist (PM)

3:35 Iowa Private Pesticide Applicator Continuing Instruction Course. Applicators must attend the entire meeting to receive recertification credit.
   – Joel DeJong, extension field agronomist

4:35 Meeting adjourns

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](http://www.extension.iastate.edu/ag/crops) or call your county Extension office.

Extension Field Agronomists – (Front L-R) Clarabell Probasco, Angie Rieck-Hinz, Rebecca Vittetoe, Meaghan Anderson. (Middle) Terry Basol, Aaron Saeugling, Virgil Schmitt. (Back) Mike Witt, Gentry Sorenson, Joel DeJong, Josh Michel.
8:15 Registration opens

9:00 Welcome
– Mike Witt, extension field agronomist

9:05 Corn rootworm management
– Erin Hodgson, extension entomologist (PM)

10:00 Session A (select one topic)
Cost-effective use of fertilizers for 2022 and beyond
– Antonio Mallarino, extension soil fertility specialist (NM)
Making the relationship work: Cereal rye ahead of corn
– Mark Licht, extension cropping systems specialist (SW)
Managing Iowa’s farm ponds
– Joe Morris, director, North Central Regional Aquaculture Center (SW)

11:00 Session B (select one topic)
Carbon markets
– Alejandro Plastina, extension economist (SW)
Cost-effective use of fertilizers for 2022 and beyond
– Antonio Mallarino, extension soil fertility specialist (NM)
Putting together the pieces of soybean yield
– Mark Licht, extension cropping systems specialist (CM)

12:00 Lunch (provided)

1:00 Session C (select one topic)
Farm transition 101: Where to start
– Tim Christensen, extension farm management field specialist
Soybean diseases and fungicide update
– Daren Mueller, extension crop plant pathologist (PM)
Weed management update for 2022
– Prashant Jha, extension weed management specialist (PM)

2:00 Session D (select one topic)
Weather and climatological outlooks for 2022
– Justin Gilson, State Climatologist of Iowa (CM)
Weed management update for 2022
– Prashant Jha, extension weed management specialist (PM)

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

2:50 Break

3:10 2022 Crop market outlook
– Chad Hart, extension crop marketing specialist (CM)

4:00 Meeting adjourns

Extension Store
Iowa State University Extension Store sells and distributes printed publications and digital content written by the faculty and staff of Iowa State University Extension and Outreach.
Visit the Extension Store today to order printed publications, scouting cards, and field guides as well as online courses and digital resources. Many items available instantly as digital downloads.

- Insect management
- Plant diseases
- Scouting guides
- Weed identification
- Soil management and fertility
- Grain handling and storage
- Equipment and machinery
- Pesticide safety
- Water quality

Order at https://store.extension.iastate.edu

Contact: 119 Printing/Publication Building
(515) 294-5247
extstore@iastate.edu
https://store.extension.iastate.edu
Crop Advantage Series 2022 | registration

- Registration includes lunch, refreshment breaks, conference proceedings booklet, CCA credits and private pesticide applicator recertification.
- Registrations are not accepted by phone. Register online or send this form with payment.
- Early registration: $60. Less than 7 days prior to the meeting or at the door: $75
- To change your registration (location change or cancellation) email anr@iastate.edu or (515) 294-6429.
- If weather forces a cancellation or you cannot travel due to hazardous conditions you may switch to a remaining meeting or receive a refund.

Save time and register online at www.cropadvantage.org

The Iowa Soybean Association and Iowa Corn Growers Association have provided statewide support for Crop Advantage 2022. Iowa State University Extension and Outreach appreciates their support and cooperation in bringing crop production education and research information to Iowa producers.

Select location(s)

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheldon</td>
<td>January 4</td>
</tr>
<tr>
<td>Storm Lake</td>
<td>January 5</td>
</tr>
<tr>
<td>Burlington</td>
<td>January 6</td>
</tr>
<tr>
<td>Okoboji</td>
<td>January 11</td>
</tr>
<tr>
<td>Ankeny</td>
<td>January 12</td>
</tr>
<tr>
<td>Cedar Falls</td>
<td>January 13</td>
</tr>
<tr>
<td>Mason City</td>
<td>January 14</td>
</tr>
<tr>
<td>Chariton</td>
<td>January 18</td>
</tr>
<tr>
<td>Webster City</td>
<td>January 19</td>
</tr>
<tr>
<td>Atlantic</td>
<td>January 20</td>
</tr>
<tr>
<td>Davenport</td>
<td>January 21</td>
</tr>
<tr>
<td>Coralville</td>
<td>January 25</td>
</tr>
<tr>
<td>Le Mars</td>
<td>January 26</td>
</tr>
<tr>
<td>Denison</td>
<td>January 27</td>
</tr>
</tbody>
</table>

Options

- Private pesticide applicator recertification (included in registration fee)
- Would you like to be contacted by the Iowa Corn Growers Association and the Iowa Soybean Association with information about their organizations?

Payment

- Early registration: $60 per location
- Late registration: $75 (less than 7 days prior to meeting)
- Commercial pesticide applicator – $35 (Chariton location only)

TOTAL

Complete this form, include check payable to Iowa State University and mail to:
ANR Program Services, 1151 NSRIC, 1029 N University Blvd, Ames, IA 50011-3611

Iowa State University Extension and Outreach
This institution is an equal opportunity provider. For the full non-discrimination statement or accommodation inquiries, go to www.extension.iastate.edu/diversity/ext

Iowa State University Extension and Outreach programs are partially funded by the USDA and are required to provide participants the opportunity to voluntarily self-report ethnicity, race, and gender information. This information will not be used for determining participation eligibility but rather to improve educational offerings. Information remains confidential to the extent permitted by law.

What is your race?
- American Indian or Alaskan Native
- Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White
- Other
- Prefer not to respond

What is your ethnicity?
- Hispanic or Latino origin
- Not of Hispanic or Latino origin
- Prefer not to respond

What is your gender?
- Male
- Female
- Other
- Prefer not to respond

would you like to be contacted by the Iowa corn growers association and the Iowa soybean association with information about their organizations? yes no