**Crop Advantage**

**Iowa City | January 25, 2017**

Highlander Conference Center
Highway 1 and I-80, Exit 246, Iowa City, Iowa

8:30  Registration opens
8:55  Welcome
Meaghan Anderson, Virgil Schmitt, and Rebecca Vittetoe, Extension field agronomists

9:00  Palmer amaranth: Preventing movement onto your farm
Bob Hartzler, Extension weed management specialist (PM)

10:00  **Session A (select one topic)**
Iowa Cover Crop Working Group research updates and recommendations
Tom Kaspar, National Laboratory for Agriculture and the Environment, USDA-ARS (SW)

- Potassium’s effect on yield, corn response to N, and soybean diseases
  Antonio Mallarino, Extension soil fertility specialist (NM)
- Spray equipment operation for emerging herbicide technology
  Mark Hanna, Extension agricultural engineer (PM)
- Weed management update - changes and improvements for 2017
  Mike Owen, Extension weed management specialist (PM)

11:00  **Session B (select one topic)**
Nitrogen dynamics with a rye cover crop
John Sawyer, Extension soil fertility specialist (NM)

- Potassium’s effect on yield, corn response to N, and soybean diseases
  Antonio Mallarino, Extension soil fertility specialist (NM)
- SDS and emerging corn disease management
  Daren Mueller, Extension crop plant pathologist (PM)
- Weed management update - changes and improvements for 2017
  Mike Owen, Extension weed management specialist (PM)

12:00  Lunch (provided)

1:00  **Session C (select one topic)**
Crop market outlook
Chad Hart, Extension ag economist (CM)

- Drainage design for profits and water quality
  Greg Brenneman, Extension agricultural engineering field specialist (SW)
- Nitrogen dynamics with a rye cover crop
  John Sawyer, Extension soil fertility specialist (NM)
- Pesticide resistance: A threat to midwestern crop production
  Rebecca Vittetoe, Extension field agronomist (PM)

2:00  **Session D (select one topic)**
Crop market outlook
Chad Hart, Extension ag economist (CM)

- Drainage design for profits and water quality
  Greg Brenneman, Extension agricultural engineering field specialist (SW)
- Iowa Cover Crop Working Group research updates and recommendations
  Tom Kaspar, National Laboratory for Agriculture and the Environment, USDA-ARS (SW)
- Spray equipment operation for emerging herbicide technology
  Mark Hanna, Extension agricultural engineer (PM)

3:00  Iowa Private Pesticide Applicator Continuing Instruction Course
Meaghan Anderson, Virgil Schmitt and Rebecca Vittetoe, Extension field agronomists

4:00  Meeting adjourns

CCA credit designations: CM-crop management, PM-pest management, NM-nutrient management, SW-soil and water management. All topics are 1.0 credit.

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**Recertification for Iowa private pesticide applicators**
Applicators must attend the entire meeting to receive recertification credit. The recertification fee for private pesticide applicators is included in meeting registration.

**Register early**
$50 early/$60 late (less than one week prior to meeting or at the door.)
Visit [www.cropadvantage.org](http://www.cropadvantage.org) for additional details and online registration. Or, visit an Iowa State University Extension and Outreach county office near you.

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**Iowa State University Extension Field Agronomists. Knowledge in every field.**

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Crop Advantage Series | registration

Visit www.cropadvantage.org to register and securely pay using MasterCard, VISA or Discover.

name

city

state

ZIP

county

phone

e-mail (registration confirmation is provided by email)

Select location(s)

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<tr>
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Select options

Private pesticide applicator recertification (included in registration) yes no

Payment

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<td>Early registration – $50 per location</td>
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<tr>
<td>Late registration – $60 (less than 7 days prior to meeting)</td>
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<tr>
<td>Commercial pesticide applicator – $35 (Honey Creek location only)</td>
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Check number (payable to Iowa State University)  

TOTAL $  

Send completed form and check (payable to Iowa State University) to:  
ANR Program Services, 1151 NSRIC, Ames, Iowa 50011-3310  
Please do not send cash or credit card information through U.S. mail.

Questions?  
✓ for assistance with registration, receipts, billing, cancellation or questions on the status of your registration please call (515) 294-6429 or e-mail anr@iastate.edu  
✓ location-specific questions should be directed to the Extension field agronomist(s) listed as host(s) or your county Extension office