



K-STATE
Research and Extension

Extension Agronomy

eUpdate

01/04/2019

These e-Updates are a regular weekly item from K-State Extension Agronomy and Kathy Gehl, Agronomy eUpdate Editor. All of the Research and Extension faculty in Agronomy will be involved as sources from time to time. If you have any questions or suggestions for topics you'd like to have us address in this weekly update, contact Kathy Gehl, 785-532-3354 kgehl@ksu.edu, or Dalas Peterson, Extension Agronomy State Leader and Weed Management Specialist 785-532-0405 dpeterso@ksu.edu.

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1. 2019 K-State Corn Schools - Get registered now

The Department of Agronomy and K-State Research and Extension, in partnership with Kansas Corn, are planning to host three Corn Production Management Schools and three Corn Pre-Plant Schools in 2019. These schools are designed to provide in-depth training for corn producers across Kansas with targeted information for each location.

Each school is free to attend and will have lunch provided thanks to support provided by Pioneer. A range of topics will be covered and vary by location including: corn management, high-yielding corn factors, weed control, soil fertility and nutrient management, soil health considerations, insect management, corn market and policy perspectives, and grower panel discussion.

Corn Production Management Schools

- **January 7 – Salina, KS**

Registration begins at 7:45 am, program from 8:30 am – 2:00 pm
Hilton Garden Inn, 3320 S 9th Street, Salina

- **January 9 – Oakley, KS**

Registration begins at 7:45 am, program from 8:30 am – 2:30 pm
Buffalo Bill Cultural Center, 3083 US-83, Oakley

- **January 11 – Lawrence, KS**

Registration begins at 7:45 am, program from 8:30 am – 2:00 pm
Douglas County Fairgrounds, Flory Meeting Hall, 2120 Harper Street, Lawrence

Pre-Plant Corn Schools

- **February 11 – Parsons**

Registration begins at 7:45 am, program from 8:30 am – 1:00 pm
Southeast Research and Extension Center, 25092 Ness Road, Parsons

- **February 13 – Hesston**

Registration begins at 7:45 am, program from 8:30 am – 1:00 pm
Dyck Arboretum of the Plains, 177 W Hickory Street, Hesston

- **February 15 – Garden City**

Registration begins at 7:45 am, program from 8:30 am – 1:00 pm
Pioneer Garden City Research Station, 1455 East Parallel Road, Garden City

To register for any of the schools, please go online at <https://kscorn.com/CornSchool/>. Pre-registration is still open! Please try to register one week prior to the event you wish to attend.

CCA and CEU credits have been applied for. Additional local sponsors include Ag Risk Solutions and the Andersons.

2019 WINTER WORKSHOPS



CORN SCHOOLS

- JANUARY 7 | SALINA
- JANUARY 9 | OAKLEY
- JANUARY 11 | LAWRENCE

PRE-PLANT SCHOOLS

- FEBRUARY 11 | PARSONS
- FEBRUARY 13 | HESSTON
- FEBRUARY 15 | GARDEN CITY

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2. Registration open for the K-State Soybean Schools scheduled for January 2019



A series of nine K-State Soybean Production Schools will be offered in late January to provide in-depth training targeted for soybean producers and key-stakeholders. The schools will be sponsored by the Kansas Soybean Commission.

The schools will cover a number of issues facing soybean growers including: weed control, crop production practices, nutrient management and soil fertility, insects, disease management, and market outlook. More information on specific speakers and topics will be provided in future eUpdate issues as agendas are finalized.

The dates are set and specific locations have been chosen with Schools located across the state.

January 15 – Tuesday

- **Wichita, KS** - 8:30 am to 1:00 pm
Sedgewick County Extension Education Center, 7001 W. 21st Street North
Contact: Jackie Fees, jfees@ksu.edu
- **Parsons, KS** - 3:00 to 7:00 pm
K-State Southeast Research and Extension Center
25092 Ness Road
Contact: James Coover, jcoover@ksu.edu

The January 15th schools will focus on weed control, crop production, soil fertility, insect management, and a market update.

January 16 – Wednesday

- **Paola, KS** - 8:30 am to 1:00 pm
Miami County Fairgrounds, Building 2

401 Wallace Park Drive
Contact: Katelyn Barthol, kbarth25@ksu.edu)

- **Holton, KS** - 3:00 to 7:00 pm
Northeast Kansas Heritage Complex, 12200 214th Road
Contact: David Hallauer, dhallaue@ksu.edu

The January 16th schools will include updates on weed control, crop production, soil fertility, diseases, insects, and the soybean market.

January 24 - Thursday

- **Hugoton, KS** - 8:30 am to 12:30 pm
4-H Building, 1130 S. Trindle (Fairgrounds)
Contact: Ronald Honig, rhonig@ksu.edu
- **Scott City, KS** - 3:00 to 7:00 pm
Wm. Carpenter 4-H Building, 608 N. Fairground Rd
Contact: John Beckman, jbeckman@ksu.edu

The January 24th schools will have speakers to address weed control, crop production, markets, and insects. In addition, there will be an irrigation update at the Scott City location.

January 25 – Friday

- **Hoxie, KS** - 8:30 am to 1:00 pm
Sheridan County 4-H Building, 940 Oak Ave.
Contact: Keith VanSike, kvan@ksu.edu
- **Great Bend, KS** - 3:00 to 7:00 pm
American Ag Credit, 5634 10th Street
Contact: Stacy Campbell, scampbel@ksu.edu

The January 25th schools will provide updates on weed control, insects, crop production, and markets. In addition, there will be an irrigation update at the Hoxie location.

January 28 – Monday

- **Beloit, KS** - 9:00 am to 1:00 pm
NC Kansas Technical College Conference Room, 3033 U.S. Hwy 24
Contact: Sandra Wick, swick@ksu.edu

The January 28th school in Beloit will highlight weed control, crop production, soil fertility, insects, diseases, and markets.

Lunch will be provided courtesy of the Kansas Soybean Commission. There is no cost to attend, but participants are asked to **pre-register one week prior to the school they plan to attend**. Online registration is available at K-State Soybean Schools (<http://bit.ly/KSUSoybean>) or by emailing/calling the nearest local K-State Research and Extension office for the location participants plan to attend.

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3. K-State Sorghum Schools scheduled for early February

A series of three K-State Sorghum Production Schools will be offered in early February to provide in-depth training targeted for sorghum producers and key-stakeholders. The schools are sponsored by Kansas Grain Sorghum Commission.



The schools will cover a number of issues facing sorghum growers: risk management, marketing opportunities, weed control, crop production practices, nutrient and soil fertility, and insect management.

The final dates and locations have been set focusing with Schools across the state. More details on speakers, topics, and specific locations will be in an upcoming eUpdate. Stay tuned!

Garden City, KS

February 5, Tuesday, 8:30 am to 1:30 pm
Jennifer Stoss - jstoss@ksu.edu

Hays, KS

February 6, Wednesday, 8:30 am to 1:30 pm
Stacy Campbell - scampbel@ksu.edu

Salina, KS

February 7, Thursday, 8:30 am to 1:30 pm
Carl Garten - cgarten@ksu.edu

Lunch will be provided, courtesy of the Kansas Grain Sorghum Commission. There is no cost to attend, but participants are asked to pre-register by **January 29**. Online registration is available at K-State Sorghum Schools (<http://bit.ly/KSUSorghum>) or by emailing/calling the nearest local K-State Research and Extension office nearest the location participants plan to attend.

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4. Cover Your Acres Winter Conference, January 15-16 in Oberlin

K-State Research and Extension is partnering with the Northwest Kansas Crop Residue Alliance to host the 15th annual Cover Your Acres Winter Conference for crop producers and consultants on January 15-16 at the Gateway Center in Oberlin, Kansas.

Cover Your Acres is a producer-driven meeting focused on new ideas and research-based updates in crop production in northwest Kansas and the central High Plains region.

The conference, which typically draws more than 400 attendees from Kansas and other states, highlights the latest technology, methods, and conservation practices to improve crop production in the region. This year it will feature university specialists and industry representatives discussing the following topics:

- A fresh look at High Plains irrigated soybean management
- Adjuvants and their effects on herbicides and tank mixes
- Current financial status of NW Kansas farms
- Dryland corn hybrids, seeding rates, and planting dates
- Getting peak performance from paraquat – Rates, adjuvants, droplets, and more
- Land values and rental rates – Where are we going?
- Managing insect resistance in corn
- Palmer amaranth management
- Remediation of eroded high pH hilltop soils with manure
- Top 3 mistakes in Northwest Kansas wheat production
- Producer panel discussion

The same programs will be offered both days of the conference. Registration will begin at 7:45 a.m. with educational sessions ending at 5:00 p.m. The sessions are followed by a “bull session” on Tuesday evening where attendees can visit with industry and university specialists while enjoying heavy hors d’oeuvres.

Early registration is due by January 9. The fee is \$45 for either January 15 or 16 or \$65 for both days. After January 9, the cost is \$65 per day. The conference fee includes lunch, morning and afternoon refreshments, and educational materials. The program offers a total of 10 continuing education unit (CEU) credits for Certified Crop Advisors and 4 CEUs for Commercial Applicators.

To view the conference details and for online registration, visit www.northwest.ksu.edu/cover-your-acres. For questions, call 785-462-6281.

Major sponsors of the conference include Pioneer, Hoxie Implement Co., Nutrien Ag Solutions, Lang Diesel, Bayer, National Sunflower Association, Plains Equipment Group, and SureFire Ag. CCA and Commercial Applicator CEU’s have been applied for.

Cover Your Acres

January 15 and 16, 2019



Winter Conference The Gateway in Oberlin, KS

Register Online at www.northwest.ksu.edu/CoverYourAcres

2019 SPEAKER TOPICS

A fresh look at High Plains irrigated soybean management: Recent field-scale trials in Southwest Nebraska has evaluated seeding rates, row spacing, and in-season nitrogen applications. Information from these trials will be shared along with considerations for management.

Adjuvants and their effects on Herbicides and Tank Mixes: Many products are on the market. This session will focus on placement of those products to maximize herbicide and tank mix efficacy

Current financial status of NW Kansas farms: Using data from northwest Kansas farms, we take a look at opportunities for profitability and where producers should be alert for possible concerns.

Dryland corn hybrids, seeding rates, and planting dates: Research in northwest Kansas has evaluated over 30 hybrids for optimal seeding rate and differences in ear flex. Additionally, hybrid maturity x planting date combinations have been evaluated in another study. This session will discuss the results and their implications for dryland corn management.

Getting peak performance from paraquat - Rates, adjuvants, droplets and more: Paraquat is a valuable tool in management of resistant weeds such as Kochia and Palmer Amaranth. This session will look at how environment, application methods, and various other factors play a role in the efficacy of paraquat.

Land Values and Rental Rates - Where are we going? There are a lot of moving pieces in the land market and the many factors that drive rental rates. We'll take a look at the most recent data and discuss potential future directions and what it might mean to your business.

Managing Insect Resistance in Corn: This session will address the current resistance situation and discuss the various management options to control resistant insect populations and minimize the development of additional resistance.

Palmer Amaranth Management: A discussion of what makes Palmer Amaranth different than many of the weed species we face, the latest performance results from Western Kansas herbicide trials, and recommendations for developing an overall weed control strategy.

Remediation of eroded high pH hill-top soils with manure: A long-term study in Eastern Colorado started in 2006 to evaluate using beef manure at various rates, timings of application, and incorporation methods. Results and management recommendations will be shared.

Top 3 Mistakes in Northwest Kansas Wheat Production: We'll step through the growing season and discuss the most common production problems observed in the field and consider the management practices that can improve yields and profitability in wheat production.

Producer Panel Discussion: A producer panel will discuss various alternative crop options in the region. Potentially included in the discussion will be winter canola, dry edible beans, field peas, barley, and triticale.

	Room 1	Room 2	Room 3	Room 4
7:45 - 8:15	Registration			
8:15 - 8:20	Welcome			
8:30 - 9:20	Financial Status of NW KS Farms ¹ (J. Steele)	Managing Insect Resistance in Corn ^{1,2} (S. Zuhoff)	Remediating eroded high pH soils with manure ¹ (M. Vigil)	Adjuvant Technology (EGE Products)
9:30 - 10:20	The When, Where, Why, and How of Spray Adjuvants ^{1,2} (R. Zollinger)	Palmer Amaranth Management ^{1,2} (R. Currie)	Top 3 Mistakes Made in Wheat Production ¹ (J. Falk Jones)	(Sims Fertilizer & Chem)
10:20 - 10:50	View Exhibits			
10:50 - 11:40	Getting Peak Performance from Paraquat ^{1,2} (M. Hay)	Land Values and Rental Rates ¹ (M. Taylor)	High Plains Irrigated Soybean Management ¹ (S. Stepanovic)	(Bayer Crop Science)
11:50 - 12:40	Hybrids, Plant Dates, and Seeding Rates for Dryland Corn ¹ (L. Haag)	The When, Where, Why, and How of Spray Adjuvants ^{1,2} (R. Zollinger)	Lunch	
12:50 - 1:40	Land Values and Rental Rates ¹ (M. Taylor)	Getting Peak Performance from Paraquat ^{1,2} (M. Hay)		
1:50 - 2:40	Remediating eroded high pH soils with manure ¹ (M. Vigil)	Top 3 Mistakes Made in Wheat Production ¹ (J. Falk Jones)	Hybrids, Plant Dates, and Seeding Rates for Dryland Corn ¹ (L. Haag)	Creating a Drought Resilient Farm (Green Cover Seed)
2:40 - 3:30	View Exhibits			
3:30 - 4:00	Producer Panel: Canola, Field Pea, Dry Beans as Alternative Crops	High Plains Irrigated Soybean Management ¹ (S. Stepanovic)	Managing Insect Resistance in Corn ^{1,2} (S. Zuhoff)	Spray Applications and Palmer Amaranth Mgt. (Corteva Agriscience)
4:30 - 5:00	Palmer Amaranth Management ^{1,2} (R. Currie)	Financial Status of NW KS Farms ¹ (J. Steele)	(Nutrien Solutions)	Sunflower Industry Update (National Sunflower Assoc.)

Platinum Sponsors:

Pioneer
Hoxie Implement
Nutrien Ag Solutions
Lang Diesel

Bayer
National Sunflower Assoc.
Plains Equipment Group
SureFire Ag

Tuesday: Bull session with hors d'oeuvres begins at 5:00

¹ CCA CEUs applied for.
² Commercial Applicator CEUs applied for.

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www.agronomy.ksu.edu | www.facebook.com/KState.Agron | www.twitter.com/KStateAgron

5. Kansas Agricultural Technologies Conference, January 17-18 in Junction City

The Kansas Ag Research and Technology Association (KARTA) and K-State Research and Extension are proud to announce the line-up of speakers for the 22nd Annual Kansas Ag Tech Conference, taking place January 17-18, 2019 in Junction City, Kansas. The annual 2-day event is popular among precision ag producers, applicators, and industry brands because of its unique format that creates lively discussions among the most efficiency-conscious farmers in the state of Kansas. Presentations at this year's conference include:

- **Savannah Crossman - Soybean Growers Association & Advanced Ag Alliance**
"Variable Rate Corn Seeding, Lessons Learned & Future Visions"
- **Justin Heath - Smart Ag**
"It Has Arrived: Farm-Ready Autonomous Tractor Technology"
- **Ajay Sharda - Kansas State University Agricultural Engineering**
"Planter Down-Force Systems: Engineering and Agronomic Considerations"
- **Kevin Heikes - IN10T**
"Farmer Centered Innovations - The Solution to Better Innovation and Faster Adoption"
- **Bruce Erickson - Purdue University**
"Precision Ag Technology Adoption - Looking Back, Looking Forward"
- **Joe Luck - University of Nebraska**
"Multi-Hybrid Planting: Lessons From On-Farm Trials - What Works and Will it Pay?"

More information and bios for each of the speakers can be found on KARTA's website at www.KARTAonline.org. The conference will also include a rapid fire Q&A with members of the K-State faculty and presentations from KARTA's recent grant recipients as they present findings from their on-farm research trials. Industry partners will also be there to exhibit and provide updates on the latest ag technology in the private sector.

Registration for the two-day conference is \$275 including all meals and refreshments for both days. Guests can also take advantage of a \$50 discount on their conference admission if they purchase a 2019 KARTA membership during checkout. Funds generated through KARTA's association dues and conference registrations are used to provide on-farm research grants and instructional workshops throughout the year.

For more information or to get signed up, visit www.KARTAonline.org. Be sure to follow KARTA on Facebook and Twitter. This year's event hashtag is #KARTA2019.

Information is also available by contacting Lucas Haag, K-State Research and Extension Northwest Area Crops and Soil Specialist, at 785-462-6281 or lhaag@ksu.edu.

6. Alternative Crops Workshops scheduled for January 10 & 11

K-State Research and Extension is hosting three winter workshops focusing on alternative cropping systems for Kansas producers. Each workshop is free to attend but pre-registration is encouraged. Details on locations, times, and speakers are detailed in the flyers listed below.

Alternative Crops Workshop

Grainfield and Osborne

Learn about potential alternative crops, featuring field peas, canola and others for northcentral and northwest Kansas!

**Thursday, January 10
Osborne**

9:00 a.m. – NOON
United Christian Church

214 N. 2nd Street

Lunch will be provided
with sponsor: ADM/Northern Sun
Goodland, KS



**Thursday, January 10
Grainfield**

3:00 p.m. – 6:00 p.m.
Gove County 4-H Building

757 W. 3rd Street

Refreshments will be served.

Featuring KSU
agronomists,
economists and a
guest agency
grain
merchandiser!

NO COST to participate, however, registration is requested by
Monday, January 7, 2019 at either location

Registration:

Grainfield: www.goldenprairie.ksu.edu

Golden Prairie Extension District - Grainfield at 785-743-6361

Osborne: www.postrock.ksu.edu

Post Rock Extension District, Smith Center Office at 785-282-6823

Other questions? Email Clint Bain at bainc@ksu.edu for Grainfield
or Sandra Wick at swick@ksu.edu for Osborne

(Minimum of 10 registrations needed at each location
to hold the meetings.)



Kansas State University is committed to making its services, activities and programs accessible to all participants. If you have special requirements due to a physical, vision, or hearing disability, contact Clint Bain (785-743-6361) or Sandra L. Wick (785-282-6823). Kansas State University Agricultural Experiment Station and Cooperative Extension Service. K-State Research and Extension is an equal opportunity provider and employer.

Alternative Crops Workshop



Join Walnut Creek District
January 11, 2019 @ 8:30 am

Rush County Extension Office
702 Main Street La Crosse, Kansas



Discussion Topics

Field Peas

Cotton

Production and Economics of Canola
presented by

K-State Specialists

-Lucas Haag, NW Area Agronomist

-Monte Vandever, SW Area AG
Economist

-Mike Stamm, K-State Canola Breeder

For more information, contact the Rush
County Extension Office at 785.222.2710
or 800.460.9079

RSVP by January 9 at 5:00 pm

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