

Extension Agronomy

eUpdate

01/12/2023

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. 2023 Kansas training information for paraquat and dicamba

This article provides answers to frequently asked questions associated with paraquat and dicamba trainings (detailed below in separate sections) in Kansas for 2023.



<u>Paraquat</u>

Do all paraquat dichloride product labels require the additional training?

All products featuring the new labeling with the active ingredient paraquat dichloride, such as Gramoxone, Firestorm, Helmquat and Parazone will require the additional training in order to apply these products. Remember if the new training requirement is listed on the label of the product you are using, then you MUST complete the training.

Who is required to take this training?

Any person who intends to use paraquat must be a certified applicator and is required to take this training.

How often am I required to receive the training?

The training is required every three years. Check to make sure your training is current!

Do I need to be certified to use products containing paraquat dichloride?

The newly labeled products state that "Product may ONLY be mixed, loaded or applied by a certified applicator who has successfully completed the paraquat-specific training before use. Application "under direct supervision" of a certified applicator is NO LONGER allowed. In the state of Kansas, this means that everyone purchasing and using these products has to either obtain a private applicator license (application to agricultural lands owned or operated by individual) or a commercial applicator license (applicators applying to other people's land for compensation). If you have been applying under someone else's license in the past you will need to get your own license before applying these products.

How can I complete the training requirements?

The only training that meets the requirements is housed on the eXtension website and can be found by going to: <u>http://usparaquattraining.com</u>. If you don't currently have an account you will need to create one before it will allow you to take the training. For in-person training materials, please visit <u>https://npsec.us/paraquat</u>

This information is made available by the K-State Pesticide Safety and IPM Program. Contact your local Extension Office if you need any additional information.

<u>Dicamba</u>

Do all dicamba product labels require the additional training?

You are required to have additional label-required dicamba training when applying the restricted use dicamba products: Engenia, XtendiMax or Tavium with Vaporgrip.

Where can I get the training for 2023?

BASF: (webinars, online training and face to face) engeniaherbicide.com/training.html

Bayer/Monsanto: (online training and face-to-face) https://www.roundupreadyxtend.com/stewardship/Pages/default.aspx

Syngenta: https://www.syngenta-us.com/herbicides/tavium-application-stewardship

Do I need to attend training if I already did in 2021 or 2022?

The labels of these products state that prior to applying this product in the 2023 growing season, all applicators must complete dicamba or auxin-specific training on an annual basis, so even if you attended in 2021 or 2022 you will need to attend a training in 2023 prior to applying these products.

Do I need to be certified to use these products?

The new labels state that these formulations are for retail sale to and use only by certified applicators. In the state of Kansas, this means that everyone purchasing and using these products has to either obtain a private applicator license (application to agricultural lands owned or operated by individual) or a commercial applicator license (applicators applying to other people's land for compensation). If you have been applying under someone else's license in the past you will need to get your own license if you are applying these products.

My employees and I both hold private applicators licenses. They will be doing all my spraying. I am taking the dicamba training, but do they also have to take the dicamba training?

Yes, anyone who applies one the RUP dicamba products must complete an approved dicamba training and hold either a private or commercial applicator license.

Do other states accept Kansas's state-approved RUP dicamba training?

Oklahoma does not accept online or live webinar dicamba training provided by BASF. Colorado, Missouri and Nebraska will accept training offered by Bayer, BASF and Syngenta.

This information is made available by the K-State Pesticide Safety and IPM Program. Contact your local Extension Office if you need additional information.

Frannie Miller, Pesticide Safety and IPM Coordinator <u>fmiller@ksu.edu</u>

Sarah Lancaster, Extension Weed Science Specialist slancaster@ksu.edu

2. Looking back at the weather across Kansas in 2022

This article provides a short month-by-month summary of the notable weather events that took place across Kansas in 2022.

January – Heavy snow in western KS

Northwest and west central Kansas were the only two climate divisions to have above-normal precipitation, thanks in part to a heavy snow event that affected the western half of the state on January 25 and 26. An amazing 27 inches of snow fell in Wallace County at Mount Sunflower, Kansas' highest point at just over 4,000 feet. More impressive, the snow fell in just 24 hours, making it one of the heaviest 1-day snowfall events ever recorded in Kansas. It took over 2 weeks for all the snow to melt at Wallace, where 17 inches of snow was measured.



Figure 1. Snowfall totals from the January 25-26 storm. Source: KDVR.com.

February – Deep freeze to end the month

With respect to temperatures, February was the most below-normal month of 2022. Temperatures were actually above normal for much of the month, but a late cold snap pushed Kansas into a deep freeze, dropping temperatures 15 to 30 degrees below normal. Over 70 new daily record lows were recorded between the 23^{rd} and 25^{th} . Elkhart set two new daily record lows and tied a third during this cold spell, with lows ranging from -1°F to -6°F.



Figure 2. Map of the coldest temperatures recorded in Kansas between February 23 through 25, 2022. Source: scacis.rcc-acis.org.

March – Very warm start followed by snow

The first four days of the month were very warm. Highs in the 80s were reported at 70% of the Kansas Mesonet sites on March 2. Emporia's high of 86° was a new daily record high by 11 degrees and, along with Olathe-Johnson County Executive (84°) and Topeka (84°), all three sites set new marks for warmest temperatures so early in the calendar year. A large wildfire started on March 5 in Reno County, east of Hutchinson, and spread into Harvey County. Over 12,000 acres were burned, and one person was killed. Containment of the fire was assisted by snowfall that accompanied the passage of a strong cold front. Hutchinson reported about 1.5 inches of snow from the event, but there were higher totals; around 5 inches in the Manhattan, Abilene, and Salina areas.



Figure 3. Wildfire east of Hutchinson, KS, as captured on March 5, 2022 by a camera atop the First National Bank building in Hutchinson.

April – Lots of wind

On average, April is the windiest month in Kansas, and 2022 was no exception. It was the windiest April on record (dating back to 1948) at Goodland, with an average wind speed of 17.7 mph. Salina also recorded its windiest April, averaging 15.2 mph. The average peak wind gust across the Kansas Mesonet during April was 55 mph. Five sites had a gust over 70 mph during the month. Three of those five occurred on April 22 at Colby (74 mph), Gove 5SE (Gove County, 73 mph), and Russell Springs 3SW (Logan County, 71 mph). The other two occurred on the 29th: Mitchell (74 mph) and Hays (83 mph). A severe weather outbreak occurred that evening, resulting in 17 sightings of tornadoes in eastern Kansas, including an EF3 tornado in Andover. There was also 4-inch diameter hail in Dickinson County near Enterprise.





Figures 4. Average April wind speed for the month at Goodland (upper panel) and Salina (lower panel), 1948-2022. Source: lowa State University

May – Rain for the east

May was the wettest month of 2022 in Kansas. The average statewide precipitation was 5.37 inches, or 128% of normal. While the three western divisions were all below normal for the month, there was ample rainfall in the east, particularly in east central and southeast Kansas. Wichita measured 12.95 inches of precipitation, their second wettest May in 134 years of record keeping. Topeka's total of 11.86 inches was the third wettest in 135 years. Jefferson County recorded 14.52 inches of precipitation, the highest total of any observing site in the state. May 4th was one of the rainiest days. Precipitation was heaviest in the southeast, when repeated rounds of storms dropped from 2 to over 7 inches of rain. The cooperative observer 2 miles northwest of Parsons measured 7.75 inches of rain for the 24 hours ending at 8 am on May 5. Numerous flash flood warnings were issued for southeast Kansas.



Figure 5. Total precipitation for the month of May across Kansas, as recorded by CoCoRaHS observers. Source: www.cocorahs.org

June – Extreme heat for western Kansas

A heat wave affected western Kansas from June 10 through June 14. Multiple days of highs over 100° were observed in many locations. The highest temperature in Kansas during this period was 111° at Atwood (Rawlins County) on the 14th. The unusual aspect of this heat wave was the very warm overnight lows. Dodge City fell to only 83° on the 13th, which was the warmest low temperature ever recorded on any day in over 140 years of record keeping. The Animal Comfort Index (ACI), a measure of the discomfort felt by livestock exposed to outdoor conditions, climbed to over 120° in many locations. Livestock exposed to the dangerous heat during the daytime were unable to cool off sufficiently overnight, and after multiple days of these conditions, thousands of cattle perished in southwest Kansas.



Figure 6. <u>Animal Comfort Index</u> readings (°F) across southwest Kansas at 4 pm CT on June 11, 2022. Indices derived from <u>Kansas Mesonet</u> observations at the plotted locations.

July – More hot weather

There were six days between June10 and 23 where more than half of the 79 Kansas Mesonet sites recorded daily high temperatures at or above 100°F. The July 10, 14, 15, and 19 saw at least one Mesonet site exceed 110°. The hottest reading amongst those days was 112° at the Lake City site on the 19th, which tied for the hottest temperature of the month with co-operative observers in Kiowa, Ashland, and Webster Dam (July 14).

South central and southeast Kansas both had less than half their normal rainfall during the month. The Drought Severity Coverage Index (DSCI), a composite measure of drought conditions across the state, began to increase in July. It jumped from 148 to 227, as below normal precipitation coincided with hot temperatures. Conditions in parts of Chautauqua, Montgomery, and Labette counties worsened from drought-free to D3 during July.



Figure 7. Change in drought status category across Kansas during July, 2022. Source: droughtmonitor.unl.edu

August – A repeat of July

Five of the nine climate divisions in Kansas recorded one of their 10 driest Augusts on record, dating back to 1895. Southwest Kansas ranked the highest (2nd driest), followed by south central (4th), north central (5th), west central (5th) and northwest (6th). Monthly rainfall totals under half an inch were a common occurrence in the western half of the state. Medicine Lodge had just 0.05 inches of rain for August. Other very low totals include Lakin (0.10 inches), Garden City (0.16 inches), Smith Center (0.26 inches) and Dodge City (0.32 inches).

To make matters worse, the first half of the month was quite hot. During the first half of August, there were eight days when 30 or more of the 79 Kansas Mesonet sites reached at least 100°. Webster Dam in Rooks County hit 113° on the 7th, the year's hottest temperature in Kansas.

Table 1. Average number of days in meteorological summer (June 1-August 31) with highs at or above 90°, and the count for 2022, for selected Kansas locations.

Location	Average	2022
Topeka	40	57
Wichita	49	73
Dodge City	50	71
Goodland	44	57
Chanute	46	76
Manhattan	47	43
Salina	54	57
Hill City	51	66

September – Still hot and dry

The first two-thirds of September were very warm, with highs mainly in the 90s for much of the period. The hottest stretch was the September 18-20, when highs over 100° were observed in many areas. Ellsworth reached 104° on the 18th. Russell hit 103° on the 19th, as did Winfield and Chanute on the 20th. Over 150 daily record highs were set during this three-day period.

All climate division were also below normal for precipitation. When taken as a whole, September was the 18th warmest and 14th driest on record. This led to further expansion of drought conditions across the state. The area of Kansas rated as exceptional drought (D4) jumped from 10% to 25% during September.

Table 2. 2022's average seasonal precipitation and temperature ranks by climate division. Numbers listed are ranks of each season's average value out of the last 128 years, dating back to 1895. Shaded cells are ranks in the top or bottom 25% of their respective seasonal lists (green=wetter; yellow/orange=drier; red/pink=warmer).

		Pre	cipitat	ion				Ten	nperat	ure	
Division	1Q	2Q	3Q	4Q	Year	Division	1Q	2Q	3Q	4Q	Year
Northwest	43	9	25	12	5	Northwest	62	40	7	69	36
North Central	56	53	38	21	25	North Central	55	40	33	80	40
Northeast	68	79	28	58	41	Northeast	57	54	36	87	49
West Central	70	5	21	1	2	West Central	71	31	9	76	37

Central	55	77	19	31	29	Central	61	38	17	78	35
East Central	78	87	20	61	47	East Central	56	45	25	86	43
Southwest	39	20	19	2	2	Southwest	72	22	11	80	34
South Central	67	74	2	43	16	South Central	62	24	10	80	30
Southeast	60	99	1	68	29	Southeast	66	47	7	79	33
State	56	54	8	34	17	State	65	36	12	79	34

October – Driest month of 2022

With respect to percent of normal, October was the driest month of the year. Precipitation statewide averaged 0.69 inches, or 30% of normal. There were a few locations in the state where no precipitation was observed the entire month, including Cimarron (Gray County), Scott City, and Johnson (Stanton County). Both Dodge City and Garden City had just a trace of moisture for the month. This tied for the driest October on record at both locations.

The DSCI climbed another 38 points during the month, reaching 364 by the October 25th issuance of the weekly US Drought Monitor. One-third of Kansas was in D4 drought status, the highest amount since February 2013. Similarly, the DSCI of 364 was the highest since April, 2013.



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less	25%	50%	75%		101%	126%	151%	more	30%
than 25%	to 49%	to 74%	to 99%	100%	to 125%	to 150%	to 200%	than 200%	Statewide

Figure 8. Percent of normal precipitation during October 2022 by Kansas climate division. Source: National Centers for Environmental Information

November - Much needed rain for some areas

The eastern third of Kansas averaged from 2.8 to 3.5 inches of precipitation, which was 136 to 174% of normal. But the western third was below normal, as was north central Kansas. Northwest Kansas had just 0.02 inches (3% of normal), and west central had only 0.04 inches (6% of normal). November 4 and 5 were very wet. Northeast, east central and south central Kansas received from 2 to 4 inches of rain during that 2-day period, which exceeded monthly normals in many locations. Higher amounts include Holton (3.80 inches), Manhattan (2.71 inches), and Emporia (2.68 inches). November 4th ranked as the wettest single day of the year at Olathe, Emporia, and Lawrence.

Thanks to better moisture, the DSCI decreased 19 points to 345 during the month. But the entire state remained in drought status, with 35% in D4, the highest percentage of any US state at the time.





Figure 9. US Drought Monitor map for Kansas as of November 29, 2022.

December - Extreme cold and a white Christmas

An Arctic cold front swept across the state on December 21 and 22, bringing Kansas the coldest air in nearly two years. Temperatures fell to below zero across the entire state on 22. Morning lows were as cold as -19°F in Sherman County. Daytime temperatures stayed near or below zero as well, setting over 60 daily records for coldest daily maximums. Light snow accompanied the frontal passage, leaving 1 to 3" of snow across much of the state. The cold air lingered through Christmas Day, resulting in the first white Christmas in at least five years across parts of northern and eastern Kansas.

-18		-17	-16	-14	-13		-13	-14	-12		-12	-1	<mark>ہ ہ</mark>	202
-19	-	16	-14	-12		-11	-11		10	-9	-8		-9	2
14	-13	3	-11	-12	-11			-9	7		「- ゔ	-8	~h	6
-12 13	-12	-11	-11	-9	-9		-9	-8	{	-8	-	-/	-10	-7
-11	-9	-9	-9	-11	ļ	8	-6	-8	7	-7		-6		-7
-9	-8	-8				L	-/	Ľ	-5		-7			
-7	-9	-7	-5	-3		-4	-3	-6			-5		-4	-5

Figure 10. Coldest temperatures observed by the Kansas Mesonet sites during December 2022. Data from Kansas Mesonet.

Keep informed on the latest weather and climate outlooks heading into spring 2023 through the Extension Agronomy eUpdate!

Matthew Sittel, Assistant State Climatologist <u>msittel@ksu.edu</u>

3. Survey from K-State Research and Extension seeks input from Kansas citizens

Officials with a statewide network that has provided unbiased, research-based information on issues important to Kansans for 108 years are reaching out to learn more about how the organization can best serve residents of the state.

<u>K-State Research and Extension</u> has released a public survey to ask current and prospective users about their information needs. Gregg Hadley, director of extension, said the brief survey will inform the organization's efforts to provide education and information in every Kansas county.

"The services we provide are designed to improve Kansans' lives and communities through education and engagement," Hadley said. "The results of this survey will help our dedicated extension specialists, agents and researchers provide information and assistance that best meet the needs of our K-State Research and Extension users."

K-State Research and Extension has offices in every Kansas county, including extension agents and others who provide information and programs specific to local needs.

Any Kansas resident over age 18 is eligible to take the survey in <u>English</u> (<u>https://www.surveymonkey.com/r/ST2ZLM5</u>) or <u>Spanish</u> (<u>https://www.surveymonkey.com/r/SRH9W59</u>).

New Boston Creative Group LLC of Manhattan is conducting the survey.

Questions regarding the survey can be directed to Jerry Grasso, director of communications solutions for K-State Research and Extension, at 785-532-5806 or jerrygrasso@ksu.edu.

4. Cover Your Acres Winter Conference, January 17-18 in Oberlin

K-State Research and Extension will host the 20th annual <u>Cover Your Acres Winter Conference</u> for crop producers and consultants on January 17 and 18. The conference will take place in the traditional in-person format at the Gateway Civic Center in Oberlin, KS.

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's conference will feature university specialists and industry representatives discussing what's driving profitability in northwest Kansas farms. Session topics and speakers are listed below.

- Are you able to help your neighbor? Rachel Clews and Sandra Utter – KSU and Select Sires Beef Inc.
- Cover Crops, Grazing, and Soil Health in Western KS Augustine Obour - KSU
- Current Financial Status of NW Kansas Farms Mark Wood - KSU
- Dryland and Limited Irrigation Row Crop Decisions Lucas Haag - KSU
- Grain Markey Outlook: Local and Global Factors Dan O'Brien - KSU
- Make Your Plan: Weed Management 2023 Sarah Lancaster - KSU
- Nutrient Management Strategies Lucas Haag - KSU
- Oils, and Surfactants, and Drift Agents, Oh My! Greg Dahl – WinField United
- Weather Outlooks and Mesonet Tools Matthew Sittel – KSU
- Wheat: The Crop with 9 Lives Romulo Lollato - KSU
- Panel Discussion: When to Hold Them, When to Trade Them?

The same programs will be offered both days of the conference (program schedule posted below). Participants attending both days will find it easier to catch most, or all of the programs. Registration will begin at 7:45 a.m. with educational sessions ending at 5:00 p.m. The sessions are followed by a social on Tuesday evening where attendees can visit with industry representatives and conference speakers while enjoying hor d'oeurves.

Beginning January 11, the cost is \$80 per day, including walk-ins on the day of the conference. 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 2 CEUs for Commercial Applicators.

To view the conference details, lodging accommodations, and online registration, visit <u>www.northwest.ksu.edu/coveryouracres</u>. For questions, call 785-462-6281.

Major sponsors of this year's conference include AKRS Equipment Solutions, Great Plains Manufacturing, Hoxie Implement, SurePoint Ag Systems, Lang Diesel, 4G Farm and Sales, and Double Team by Sorghum Partners.

Cover Your Acres January 17 and 18, 2023

Winter Conference

The Gateway, Oberlin, KS

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

		Room 1	Room 2	Room 3	Room 4				
7:45	8:15		Registrat	ion					
8:15	8:20	Welcome							
8:30	9:20	Current Financial Status of NW KS Farms ¹ (M. Wood)	Wheat: The crop with 9 lives ¹ (R. Lollato)	Dryland and Limited Irr. Row-Crop Decisions? ¹ (L. Haag)	Industry Sponsored Session (TBD)				
9:30	10:20	Are you able to help your neighbor? ¹ (R. Clews / S. Utter)	Weather Outlook and Mesonet Tools ¹ (M. Sittel/C. Redmond)	Nutrient Management Strategies ¹ (L. Haag)	Industry Sponsored Session (TBD)				
10:20	10:50		View Exhi	bits					
10:50	11:40	Oils, and Surfactants, and Drift Agents, Oh my! ¹² (G. Dahl)	Grain Market Outlook: Local and Global Factors ¹ (D. O'Brien)	Cover Crops, Grazing, and Soil Health in Western KS ¹ (A. Obour)	Industry Sponsored Session (TBD)				
11:50	12:40	Make Your Plan: Weed Management 2023 ^{1,2} (S. Lancaster)	Nutrient Management Strategies ¹ (L. Haag)	Lunch					
12:50	1:40	Dryland and Limited Irr. Row-Crop Decisions? ¹ (L Haag)	Oils, and Surfactants, and Drift Agents, Oh my! ^{1,2} (G. Dahl)						
1:50	2:40	Grain Market Outlook: Local and Global Factors ¹ (D. O'Brien)	Are you able to help your neighbor? ¹ (R. Clews / S. Utter)	Make Your Plan: Weed Management 2023 ^{1,2} (S. Lancaster)	Industry Sponsored Session (TBD)				
2:40	3:10		View Exhi	bits					
3:10	4:00	When to hold them, when to trade them? Panel Discussion on Machinery Management	Cover Crops, Grazing, and Soil Health in Western KS ¹ <i>(A. Obour)</i>	Wheat: The crop with 9 lives ¹ (R. Lollato)	Industry Sponsored Session (TBD)				
4:10	5:00	Weather Outlook and Mesonet Tools ¹ (M. Sittel / C. Redmond)	Current Financial Status of NW KS Farms ¹ (M.Wood)						

Tuesday: Social hour with hors d'oeurves begins at 5:00 ¹ CCA CEUs applied for. ²Commercial Applicator CEUs applied for.





5. Weed management schools for cropland and pastures in eastern Kansas - Jan. 23 and 24

The Department of Agronomy, in conjunction with the Frontier, Southwind, and Wildcat Extension Districts, is hosting three weed management schools in late January. These schools will focus on timely and relevant weed management strategies specific for eastern Kansas. Specific topics include corn and soybean weed management and controlling broomsedge and pasture weeds.

These schools are free to attend. To register, please call or email the listed office for the school in your area. Frontier Farm Credit is a sponsor for these schools.

Ottawa, KS

January 23 | 7-9 p.m. Neosho County Community College 900 E. Logan Street, Ottawa, KS Call: 785-448-6826 Email: <u>reschaub@ksu.edu</u>

Bronson, KS

January 24 | 7-9 a.m. Bronson Public Library 509 Clay Street, Bronson, KS Call: 620-223-3720 Email: c<u>quthrie74@ksu.edu</u>

Parsons, KS

January 24 | 11:30 a.m. - 1:30 p.m.

SE Research and Extension Center 25092 Ness Road, Parsons, KS Call: 620-724-8233 Email: jcoover@ksu.edu





Crops & Pastures Presentation Workshops

- Timely Tips for Corn and Soybean Weed Management
- Successful Control of Broomsedge and Pasture Weeds



Dr. Sarah Lancaster K-State Extension Weed Management Specialist



Dr. Bruno Pedreira K-State Extension Forage & Crop Specialist

K-S

Please call or email to register:

Ottawa

Bronson

January 23 | 7-9 p.m. Neosho County Community College 900 E. Logan Street, Ottawa, KS Call: 785-448-6826 Email: reschaub@ksu.edu

January 24 | 7-9 a.m. Bronson Public Library 509 Clay Street, Bronson, KS Call: 620-223-3720 Email: cguthrie74@ksu.edu

Parsons

January 24 | 11:30 a.m. - 1:30 p.m. SE Research and Extension Center 25092 Ness Road, Parsons, KS Call: 620-724-8233 Email: jcoover@ksu.edu





Frontier District

Southwind District



sas State University is committed to making its services, activities and programs accessible to all participants. If u have special requirements due to a physical, vision, or hearing disability, contact Chad Guthrie at 620-223-3720. Cansas State University Agricultural Experiment Station and Cooperative Extension Service. K-State Research and Extension is an equal opportunity provider and employer.

Kansas State University Department of Agronomy

2004 Throckmorton Plant Sciences Center | Manhattan, KS 66506

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

6. Soil fertility meetings scheduled in central and western Kansas - Jan. 24 and 25

The K-State Department of Agronomy, in collaboration with several Extension districts/counties in

central and western Kansas, is hosting four Soil Fertility Management meetings in late January.

Topics discussed at the meeting include the new K-State soil recommendations, soil sampling, fertilizer placement, non-traditional sources of phosphorus and nitrogen, the latest research updates from K-State, and more.

There is no cost to attend, but **registration is requested by January 18, 2023** for any of the locations. Online registration is available at: <u>2023NC/NWFertilitySchools</u>. Contact your local Extension office if online registration is unavailable. Three CCA credits have been applied for.

January 24

- Lincoln, KS 9:30 am to 12:00 pm St. Patrick Catholic Parish Hall 206 N. 5th Street
- Hays, KS 3:00 pm to 5:30 pm Cottonwood Extension 601 Main Street

January 25

- Colby, KS 9:30 am to 12:00 pm City Limits Convention Center 2227 S. Range Avenue
- Norton, KS 3:00 pm to 5:30 pm Norton County 4-H Building Fairgrounds



Join us at any of the locations in NC/NW Kansas to learn about optimizing your fertilizer applications especially with the continued high cost!

Jan	uary 24, 2023	Featured speakers include Dr. Lucas Haag, KSU NW Region Agronomist, Fred Vocasek
LINCOLN	9:30 a.m. to NOON St. Patrick Catholic Parish	Hall Servi-Tech Sr. Lab Agronomist and local Extension Agents.
HAYS	206 N. 5 ^m Street 3:00 p.m. to 5:30 p.m. Cottonwood Extension 601 Main Street	Topics will include NEW KSU Soil recommendations, KSU Research updates, Soil Sampling, Fertilizer placement, Non- traditional P and N sources, Keeping fertility rates along with drought impacts.
Jan	uary 25, 2023	NO COST to attend, but registration is
COLBY	9:30 a.m. to NOON City Limits Convention Cen 2227 S. Range Avenue	ter schools
NORTON	3:00 p.m. to 5:30 p.m. Norton Co. 4-H Building Fairgrounds	If online is unavailable or you have additional questions, contact your local Extension Office. 3 CCA credits applied for.
K-S Research	Kansas St participan Sandra L Kansas St Sandra L Kansas St Kostałe Re K-State Re	ate University is committed to making its services, activities and programs accessible to all ts. If you have special requirements due to a physical, vision, or hearing disability, contact Wick, Post Rock Extension District, Crop Production Agent, 785-282-6823. ate University Agricultural Experiment Station and Cooperative Extension Service search and Extension is an equal opportunity provider and employer.

7. K-State weed management schools in northwest and north central Kansas - Feb. 15 and 16

A series of weed management schools will take place in northwest and north central Kansas. These schools are hosted by local K-State Research & Extension county and district offices.

With the drought and hot temperatures this last summer, farmers and agri-business retailers had some challenges in controlling difficult weeds. To address the topic of weed control, K-State Research and Extension has scheduled four regional weed control programs in February. This program has been designed to help producers and agri-business retailers to improve weed control in challenging weather conditions.

The meeting locations and dates/times are :

February 15, Sharon Springs – 9:00 a.m. to noon (MTN time zone) Community activity building

February 15, Atwood – 4:30 p.m. to 7:30 p.m. Rawlins county fairgrounds

February 16, Kensington – 9:00 a.m. to noon First St John's Lutheran Church

February 16, Russell – 3:00 p.m. to 6:00 p.m. Meridy's Restaurant & Lounge

Presenters at the workshop include Sarah Lancaster, K-State extension weed specialist, and Cody Creech, dryland cropping extension specialist with the University of Nebraska, along with local KSRE Agents. Topics will cover applications and adjuvant considerations in drought conditions, tumble windmill grass management, herbicide-tolerant grain sorghum update, and a question and answer session. Bring all your questions with you! Three CCA credits have been applied for.

There is no cost for the meetings, however, pre-registration is requested by Wednesday, February 10, for all meetings. You can register online at <u>https://bit.ly/2023NWWeedSchools</u>. You can also scan the QR code on the flyer below or call your local Extension Office.



Learn more about controlling weeds, understanding herbicides and herbicide technology.

SPEAKERS

Sarah Lancaster, K-State Research and Extension Weed Specialist

Cody Creech, UNL Dryland Cropping Extension Specialist

And local KSRE Extension Agents

TOPICS TAUGHT

- 2023 chemical weed control guide
- Application/Adjuvant considerations in drought conditions for weed control
- Herbicide-tolerant grain sorghum update
- Tumble windmill grass management

FEB 15TH

 Sharan Springs- 9:00 am - 12:00 pm (Mtn. Time Zane)
Cammunity activity building Raman St

 Atwaad- 4:30 pm - 7:30 pm Rawlins County Fairgrounds, N. Hwy 25 MEAL WILL BE PROVIDED - NO COST TO ATTEND -RSVP Requested by Friday Feb. 10

Scan for registration:



Or open this link!

https://kstate.qualtrics.com/jfe/form/SV_51gkauML5OVviRO

FEB 16TH

• Kensingtan- 9:00 am - 12:00 pm First St Jahn's Lutheran Church 332 N Adams Ave

• Russell- 3:00 pm - 6:00 pm Meridy's Restaurant and Lounge 1220 S Fossil St

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 Craig Dinkel, 783-472-4442. Kansas State University Agricultural Experiment Station and Cooperative Extension Service. K-State Research and Extension is an equal opportunity provider and employer.

Kansas State University Department of Agronomy

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