



**K-STATE**  
Research and Extension

## Extension Agronomy

# eUpdate

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*01/18/2019*

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](mailto:kgehl@ksu.edu), or Dalas Peterson, Extension Agronomy State Leader and Weed Management Specialist 785-532-0405 [dpeterso@ksu.edu](mailto:dpeterso@ksu.edu).

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## 1. Which wheat varieties maximize fall forage production in Kansas?

Fall forage yield is an important aspect of dual-purpose wheat production. In a dual-purpose system, to maximize forage production, wheat is typically: sown earlier than for grain-only production, sown at higher seeding rates, and with additional nitrogen fertilizer.

Fall weather is a crucial factor regarding forage yield, with warm, moist weather typically resulting in greater forage yield than cool, dry weather conditions. As mentioned earlier, management practices that can increase forage yield are early sowing, higher seeding rates, placement of in-furrow phosphorus fertilizer with the seed at sowing, and fall nitrogen fertilization.

While the weather is typically the predominant factor in determining fall forage production, followed by management practices, there are also differences among wheat varieties in forage production potential. Each year, the K-State Wheat Production Group compares the forage yield of several commonly grown wheat varieties and upcoming lines. This test is usually performed in the South Central Experimental Field near Hutchinson, Kansas (Figure 1), and the forage sampling occurs sometime during December.



**Figure 1. Dual-purpose wheat trial near Hutchinson, KS. The trial was sown on September 19, 2018, with 50 lbs DAP/ac applied in furrow, and 90 lbs N/ac broadcast incorporated prior to**

sowing. Photo was taken on December 10, 2018, the same day forage samples were collected.

### Results from forage yield comparisons

There was a significant difference in fall forage yield among the 36 different wheat varieties tested in 2018 (Table 1). Forage yield ranged from 1397 lbs DM/ac (pounds dry matter per acre) in Langin to 2700 lbs DM/ac in OK13209. All varieties listed between OK13209 and TAM 204 (2094 lbs DM/ac) were not statistically different with the least significant difference (LSD) of 610 lbs DM/ac. Similarly, there was not a statistical difference between the varieties Langin and OK12716 (2000 lbs DM/ac).

**Table 1. Fall forage yield of wheat varieties sown under a dual-purpose system near Hutchinson, KS. Data is shown in pounds of dry matter per acre (lbs DM/ac). The least significant difference (LSD) is shown, with highest yielding groups highlighted in bold. Varieties are ordered from highest to lowest yield.**

Variety	Forage (12/10/2018) (lbs DM/ac)
<b>OK13209</b>	<b>2700</b>
<b>SY Achieve CL2</b>	<b>2615</b>
<b>Bentley</b>	<b>2557</b>
<b>EXP</b>	<b>2547</b>
<b>Joe</b>	<b>2470</b>
<b>Whistler</b>	<b>2442</b>
<b>Spirit Rider</b>	<b>2399</b>
<b>Doublestop CL Plus</b>	<b>2385</b>
<b>WB4515</b>	<b>2369</b>
<b>Bob Dole</b>	<b>2366</b>
<b>Paradise</b>	<b>2146</b>
<b>Gallagher</b>	<b>2143</b>
<b>Smith's Gold</b>	<b>2106</b>
<b>WB4595</b>	<b>2106</b>
<b>AM Eastwood</b>	<b>2104</b>
<b>Lonerider</b>	<b>2099</b>
<b>TAM 204</b>	<b>2094</b>
Zenda	2054
Iba	2038
EXP 40-1	2035
OK12716	2000
WB4303	1970
Tatanka	1967
WB4792	1937
SY Grit	1920
Larry	1902
WB-Grainfield	1852
SY Benefit	1838
Byrd	1831

WB4269	1824
Ruby Lee	1822
WB4699	1798
Stardust	1775
SY Rugged	1653
NE10478-1	1519
Langin	1397
<b>LSD</b>	<b>610</b>

Another important aspect of dual-purpose wheat production is how long each variety can be grazed in the spring. This is measured as the date of *first hollow stem*, and varieties can differ up to 20-30 days in reaching first hollow stem in the spring. The Wheat Production Group at K-State uses this same trial to measure first hollow stem during late February and early March.

As always, stay up-to-date on the progress of the 2019 wheat crop with the Extension Agronomy eUpdate.

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## 2. Prescribed burning workshops scheduled for 2019

Several prescribed burning workshops have been scheduled for the months of February and March, with more in the planning stages. Partners involved include K-State Research & Extension, Kansas Forest Service, USDA-NRCS, USDA-FSA, Kansas Conservation Districts, Department of Wildlife, Parks & Tourism, the National Weather Service, Local Fire Departments and Emergency Management Personnel, Pheasants Forever, The Wildlife Society – Kansas Chapter, and Great Plains Fire Science Exchange.

Each workshop lasts about 4-5 hours and includes topics on reasons for burning, regulations, weather considerations, liability, burn contractors, equipment and crew, hazards, fuels, firebreaks, fire types and behavior, ignition techniques, and burn plans.

Contact Walt Fick at 785-532-7223 or [whfick@ksu.edu](mailto:whfick@ksu.edu) if you have any questions regarding a prescribed burning workshop. Be sure to contact the host to register for a workshop.

Date	County/City	Host/Contact	Agency	Phone	e-mail
Feb. 2	Johnson/ Olathe	Jessica Barnett	KSRE	913-715-7000	<a href="mailto:jessica.barnett@jocogov.ort">jessica.barnett@jocogov.ort</a>
Feb. 14	Riley/ Manhattan	Aubrey Evans	CD		<a href="mailto:aubrey.evans@ks.nacdnet.net">aubrey.evans@ks.nacdnet.net</a>
Feb. 20	Russell/ Russell	Clint Lafin	KSRE	785-483-3157	<a href="mailto:clafin@ksu.edu">clafin@ksu.edu</a>
Feb. 21	Wilson/ Fredonia	Pamela Walker	CD	620-378-2866	<a href="mailto:pamela.walker@ks.nacdnet.net">pamela.walker@ks.nacdnet.net</a>
Feb. 25	Washington/ Barnes	Brett Melton	KSRE	785-243-8185	<a href="mailto:bmelton@ksu.edu">bmelton@ksu.edu</a>
Feb. 27	Cowley/ Winfield	Elizabeth Espino	KSRE	620-221-5450	<a href="mailto:eespino@ksu.edu">eespino@ksu.edu</a>
Feb. 28	Lincoln/ Sylvan Grove	Barrett Simon	KSRE	785-378-3174	<a href="mailto:barrett8@ksu.edu">barrett8@ksu.edu</a>
Mar. 1	Atchison/ Effingham	Tiffany Hoffman	CD	913-833-5740 ext. 333	<a href="mailto:Tiffany.Hoffman@ks.nacdnet.net">Tiffany.Hoffman@ks.nacdnet.net</a>
Mar. 6	Franklin/ Ottawa	Keri Harris	CD	785-241-7201	<a href="mailto:fco.conservation@gmail.com">fco.conservation@gmail.com</a>
Mar. 8	Logan/Oakley	Dana Charles	CD	785-672-3841	<a href="mailto:dana.charles@ks.nacdnet.net">dana.charles@ks.nacdnet.net</a>

### 3. K-State Pre-Plant Corn Schools - February 2019

The Department of Agronomy and K-State Research and Extension, in partnership with Kansas Corn, are planning to host 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.

#### **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.

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#### 4. Five K-State Soybean Schools are still open for registrations



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.

Registration for the last 5 schools is still open! Details on times, locations, and registration instructions is outlined below.

#### **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](mailto: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](mailto: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](mailto:kvan@ksu.edu)



- **Great Bend, KS** - 3:00 to 7:00 pm  
American Ag Credit, 5634 10<sup>th</sup> Street  
Contact: Stacy Campbell, [scampbel@ksu.edu](mailto: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](mailto: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 as soon as possible 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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## 5. Updated: 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 final dates and locations have been set focusing with Schools across the state. Each school will start with registration at 8:30 a.m. and welcome remarks at 9:00 a.m. The program will adjourn at 1:30 p.m. for all the schools.

- **February 5, Tuesday - Garden City**  
The Golf Club at Southwind  
77 Grandview Dr.  
Contact: Jennifer Stoss - [jstoss@ksu.edu](mailto:jstoss@ksu.edu)
- **February 6, Wednesday - Hays**  
K-State Agricultural Research Center  
1232 240<sup>th</sup> Ave.  
Contact: Stacy Campbell - [scampbel@ksu.edu](mailto:scampbel@ksu.edu)
- **February 7, Thursday - Salina**  
Saline County Expo Center  
4-H Building  
900 Greeley  
Contact: Carl Garten - [cgarten@ksu.edu](mailto:cgarten@ksu.edu)

The schools will cover a number of issues facing sorghum growers including: risk management, marketing opportunities, weed control, crop production practices, nutrient management and soil fertility, and insect management. CCA/CEU credits have been applied for at all locations.

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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