



K-STATE
Research and Extension

Extension Agronomy

eUpdate

01/19/2023

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.

Subscribe to the eUpdate mailing list: <https://listserv.ksu.edu/cgi-bin?SUBED1=EUPDATE&A=1>

1. 2022 Kansas Performance Tests with Corn Hybrids report.....	3
2. 2022 Kansas Performance Tests with Soybean Varieties report	5
3. Snow amounts for Kansas are below normal heading into the last half of winter.....	7
4. Kansas Ag-Climate Update for December 2022.....	10
5. Save the date for the K-State Soybean School set for February 22 in Salina.....	11

1. 2022 Kansas Performance Tests with Corn Hybrids report

The *2022 Kansas Performance Tests with Corn Hybrids* report is now online and in print form. In this report, you will find a review of the 2022 corn crop, with a detailed discussion summarizing the statewide growing conditions and impacts from diseases and insects. More importantly, the results of the 2022 corn hybrid performance tests are also shown. Corn performance tests are conducted each year by the Kansas Agricultural Experiment Station. The results from these tests provide producers, extension agents, and industry professionals with unbiased agronomic information on many of the corn hybrids marketed in Kansas.

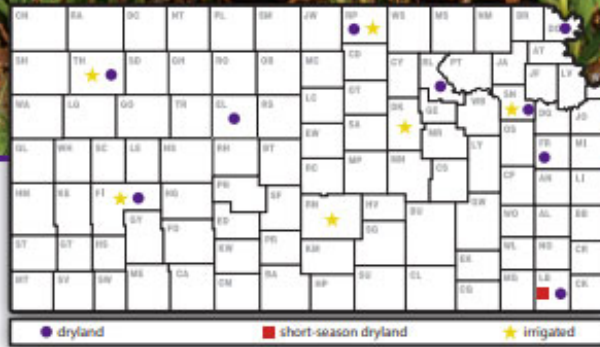
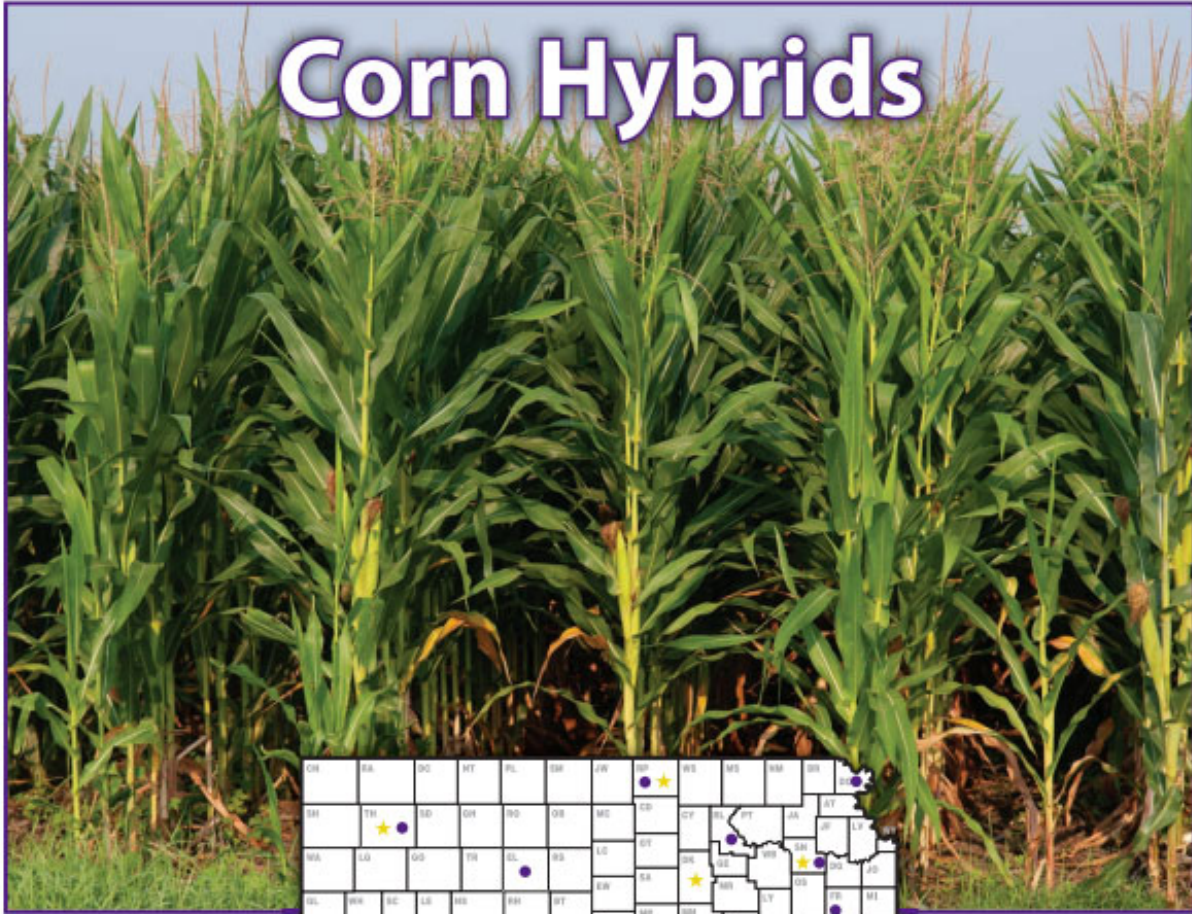
Producers and crop consultants can use this resource to help select corn hybrids for their operation by checking for varieties that show a consistently good performance in their region.

The online version of the corn hybrid performance test results can be found at:
<https://bookstore.ksre.ksu.edu/pubs/SRP1174.pdf>.

Jane Lingenfelter, Crop Performance Testing Coordinator
jling@ksu.edu

2022 Kansas Performance Tests with

Corn Hybrids



Report of Progress 1174



Kansas State University Agricultural Experiment Station and Cooperative Extension Service

2. 2022 Kansas Performance Tests with Soybean Varieties report

The *2022 Kansas Performance Tests with Soybean Varieties* report is now online and in print form. In this report, you will find a review of the 2022 soybean crop, with a detailed discussion summarizing the statewide growing conditions and impacts from diseases and insects. More importantly, the results of the 2022 soybean varieties performance tests are also shown. Soybean performance tests are conducted each year by the Kansas Agricultural Experiment Station. The results from these tests provide producers, extension agents, and industry professionals with unbiased agronomic information on many of the soybean varieties marketed in Kansas.

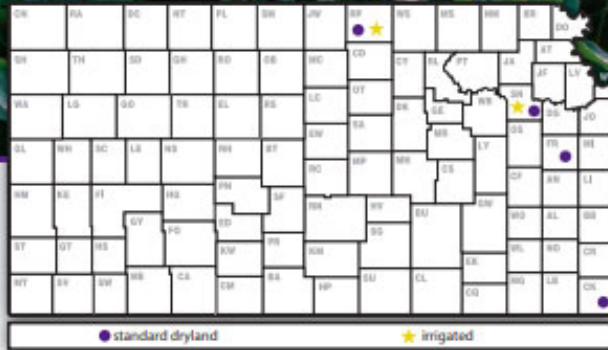
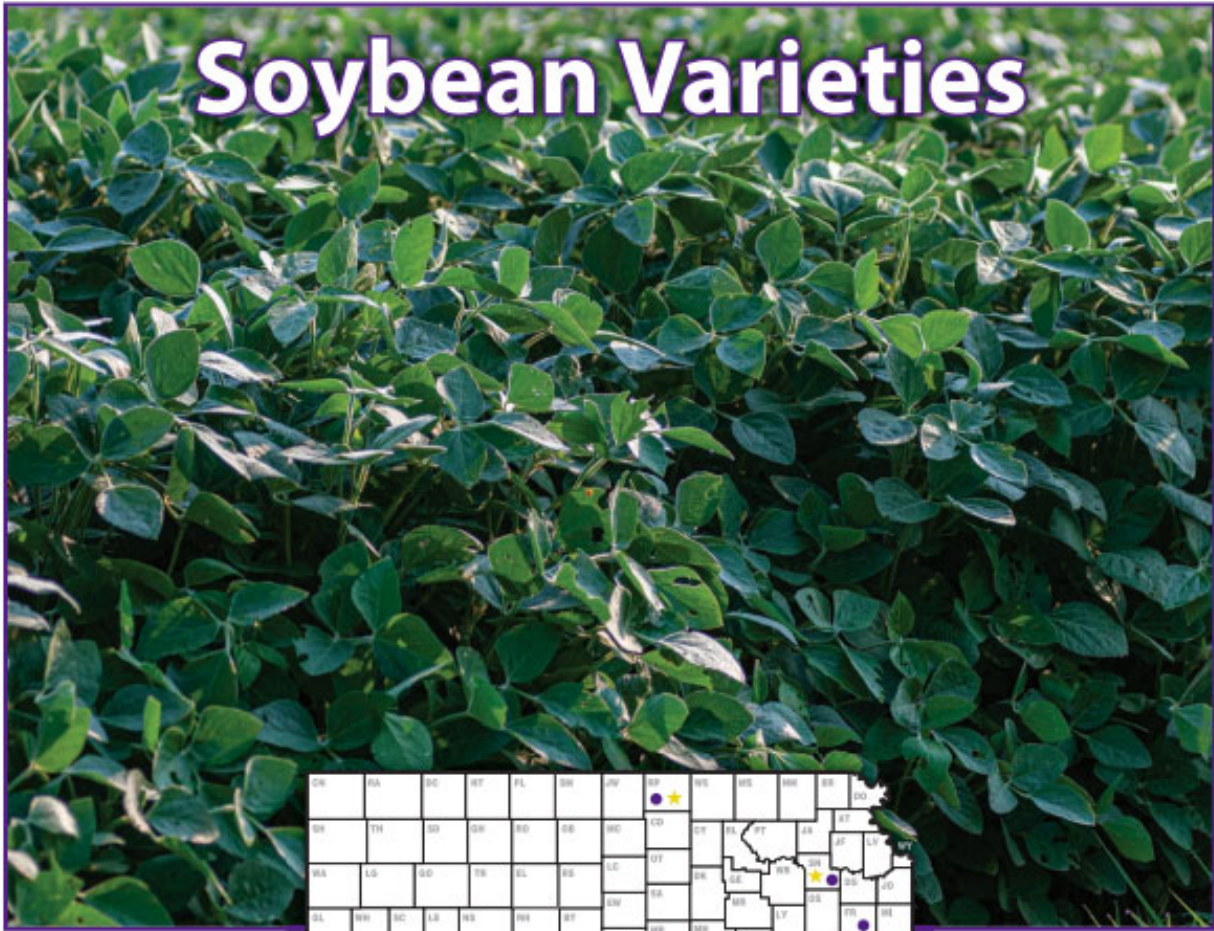
Performance of soybean varieties or brands varies from year to year and from location to location, depending on factors such as weather, management practices, and variety adaptation. When selecting varieties or brands, producers should carefully analyze variety performance for two or more years across locations. Performance averaged over several environments will provide a better estimate of genetic potential and stability than performance based on a few environments.

The online version of the soybean varieties performance test report can be found at:
<https://bookstore.ksre.ksu.edu/pubs/SRP1173.pdf>.

Jane Lingenfelter, Crop Performance Testing Coordinator
jling@ksu.edu

2022 Kansas Performance Tests with

Soybean Varieties



Report of Progress 1173



Kansas State University Agricultural Experiment Station and Cooperative Extension Service

3. Snow amounts for Kansas are below normal heading into the last half of winter

January 14 marked the halfway point of the meteorological winter of 2022-2023, which lasts from December 1 through February 28. For those who like snow, there hasn't been much in Kansas this winter. In this report, we take a look at the snow amounts thus far and how they compare to what normally falls in meteorological winter.

The amounts listed in Table 1 are the snow totals from December 1, 2022 through January 17, 2023, along with the normal snowfall for that same 48-day period. Of the 25 sites listed, only two of them have had above normal snowfall: Goodland and Oakley (shaded in blue). Northwest Kansas is the only part of the state where there has been meaningful snowfall this winter. Cheyenne County in far northwest Kansas has had snow on the ground for the last two weeks after as much as seven inches of snow fell on that area on January 3. Of the remaining 23 sites, only five of those have had at least 50% of their normal snowfall amount (shaded in orange). Interestingly, three of those are in southeast Kansas, an area that typically receives the least snow in the state. Four sites have had just a trace of snow, and in Horton, there has been no snow at all this winter.

There is still plenty of time to up these snow totals and bring them closer to normal, as well as add some much-needed moisture to a drought-plagued Kansas in the process. Temperatures are forecast to be below normal for the remainder of January (Figure 1), so all we need is some moisture to fall through cold air to generate some snowfall. There are potentially some snow chances in the next few days, as soon as this Saturday, Jan. 21, across parts of the state. A return to a more wintry-looking scene may be just around the corner, but as we all know, forecast models can and will change, so check your local forecast. You can also check out the Kansas Mesonet's web page (mesonet.k-state.edu) to monitor conditions at over 75 sites around the state.

Table 1. Snowfall for various sites in Kansas during meteorological winter 2022-2023, as of January 17, 2023. Normal amounts listed are for the same 48-day period and based on the period 1991-2020.

City	County	Dec 1, 2022-Jan 17, 2023	Dec 1-Jan 17
		Actual Snowfall (inches)	Normal Snowfall (inches)
Ashland	Clark	Trace	4.1
Atwood	Rawlins	5.7	6.6
Chanute	Neosho	3.2	5.0
Coffeyville	Montgomery	2.2	4.1
Columbus	Cherokee	2.6	3.6
Concordia	Cloud	Trace	7.3
Cottonwood Falls	Chase	2.1	5.5
Dodge City	Ford	0.8	5.9
Elkhart	Morton	Trace	7.0
Goodland	Sherman	11.2	7.5
Hays	Ellis	0.5	4.8
Horton	Brown	0.0	4.8
Lakin	Kearny	1.0	6.9
Lawrence	Douglas	1.0	4.0

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

Manhattan	Riley	1.6	7.2
McPherson	McPherson	2.0	5.0
Medicine Lodge	Barber	Trace	2.9
Oakley	Logan	7.0	6.9
Phillipsburg	Phillips	0.3	4.5
Topeka	Shawnee	2.5	6.5
Tribune	Greeley	1.1	6.0
Utica	Ness	0.7	5.3
Wallace	Wallace	3.4	7.1
Washington	Washington	0.8	4.3
Wichita	Sedgwick	3.0	4.4

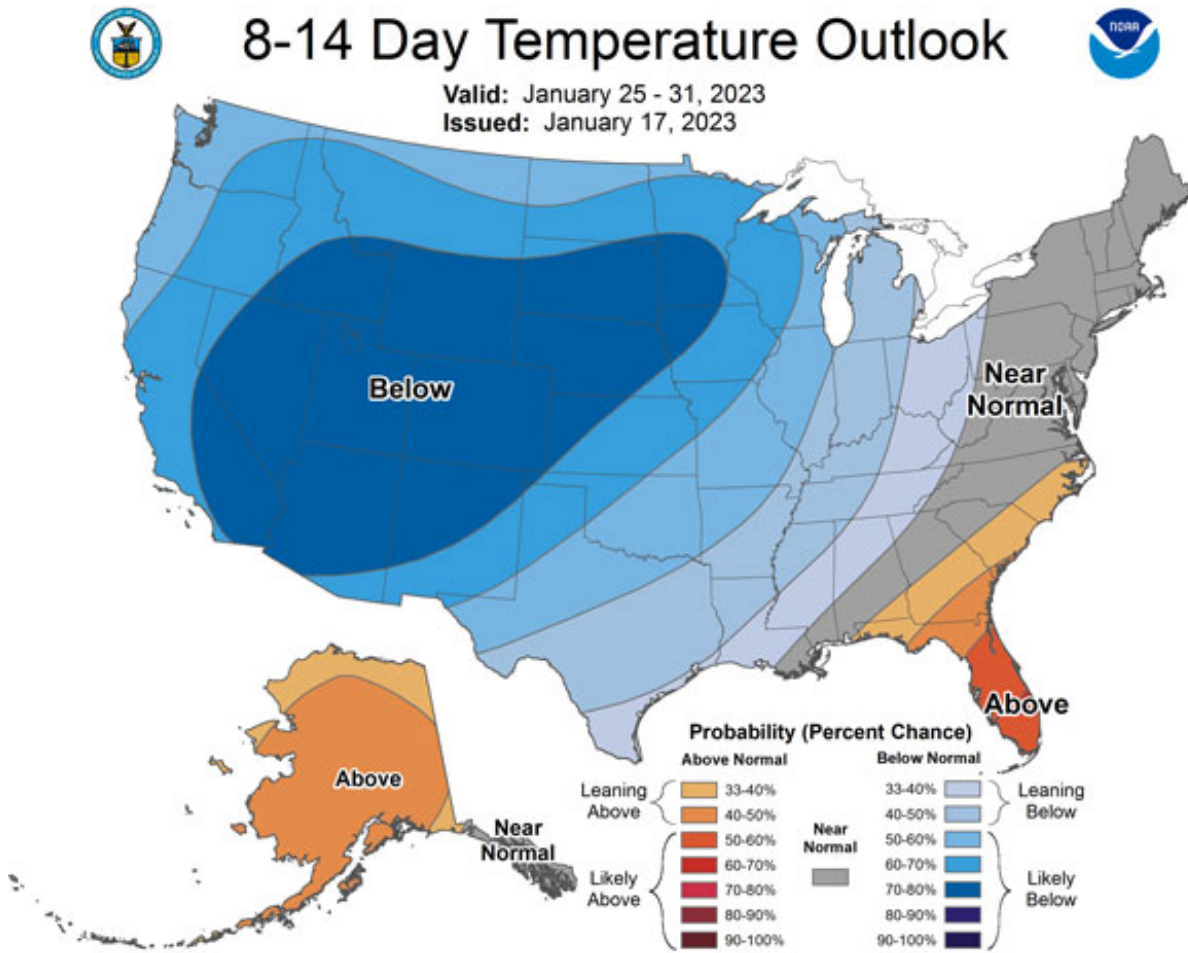


Figure 1. The Climate Prediction Center’s 8 to 14-day temperature outlook for the period January 25 through January 31, 2023.

Matthew Sittel, Assistant State Climatologist

msittel@ksu.edu

Christopher "Chip" Redmond, Kansas Mesonet Manager
christopherredmond@ksu.edu

4. Kansas Ag-Climate Update for December 2022

The Kansas Ag-Climate Update is a joint effort between our climate and extension specialists. Every month the update includes a brief summary of that month, agronomic impacts, relevant maps and graphs, 1-month temperature and precipitation outlooks, monthly extremes, and notable highlights.

December 2022: Exceptional drought condition and it will continue

The statewide average temperature for December was 30.6°F, or 2.6° below normal. This ranks as the 42nd coldest December out of the last 128 years, dating back to 1895. All divisions finished the month below normal; departures ranged from -3.1° in the northwest to -1.9° in southwest Kansas. All Kansas Mesonet sites recorded low temperatures below zero on the 22nd and 23rd as the coldest air in nearly two years impacted the entire state.

The statewide average precipitation for December was 0.74", or 0.33" below normal. Southeast Kansas was the only division with above normal precipitation (1.82", 103% of normal). West central and southwest Kansas both had less than 25% of normal precipitation. The fourth quarter of 2022 was the driest on record in west central Kansas, where only 0.27" of precipitation was observed.

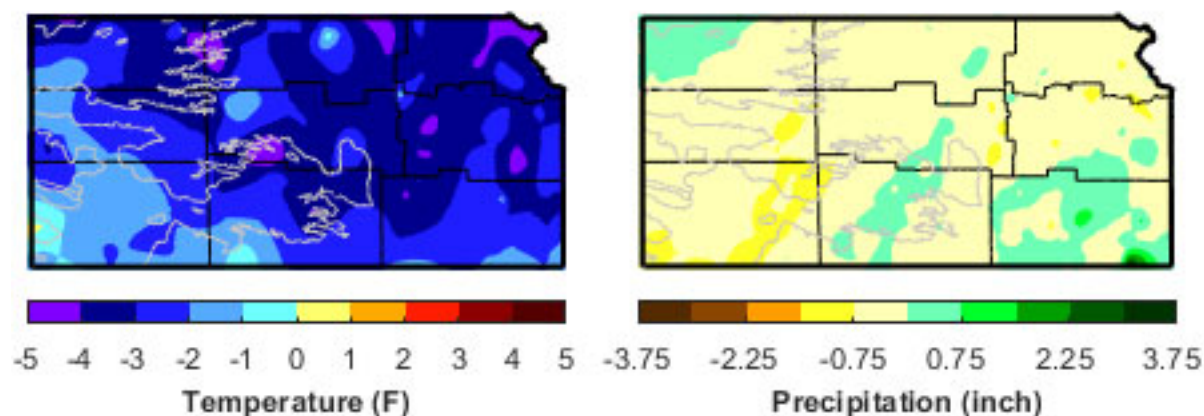


Figure 1. Departures from normal temperature (°F) and precipitation (inches) for December 2022.

View the entire December 2022 Ag-Climate Update, including the accompanying maps and graphics (not shown in this eUpdate article), at <http://climate.k-state.edu/ag/updates/>

Xiaomao Lin, State Climatologist
xlin@ksu.edu

5. Save the date for the K-State Soybean School set for February 22 in Salina

K-State Research and Extension will be offering a one-day Soybean School on February 22 at Great Plains Manufacturing, 1525 E. North Street in Salina, KS. The school will kick-off first thing in the morning and conclude in the mid-afternoon. A detailed agenda with times and speakers will be available in next week's eUpdate. Lunch will be provided thanks to sponsorship by the Kansas Soybean Commission.

This event will provide in-depth training targeted for soybean producers and key-stakeholders. Some topics that will be covered include crop production practices, soybean breeding update, Kansas Mesonet tools, insect and disease management, and market outlook.

Please check the eUpdate next week for the full agenda and registration information. There is no cost to attend this school. In addition, CCA credits have been applied for.



Ignacio Ciampitti, Crop Production and Cropping Systems Specialist

ciampitti@ksu.edu

Jay Wisbey, Crop Production Agent – Central KS District
jwisbey@ksu.edu

Dennis Hupe, Kansas Soybeans
hupe@kansassoybeans.org