

Oklahoma WHEAT BRIEF

Spring 2023



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2023 OSU Wheat Variety Testing Plot Tours

All times are subject to change due to environmental conditions - please call the County Extension Office to confirm date, time, and location.

Date	Location	Time	Cooperator	County Extension Educator	Extension Office Number	Notes
4/24/2023	Walters (DP)	11:00 AM	Jimmy Kinder	Kimbreyley Davis	580-875-3136	Replicated plot
4/26/2023	Tipton	9:00 AM	OSU Tipton Valley Res. Center	Gary Strickland	580-335-2515	Demo plot
4/26/2023	Altus	5:00 PM	OSU Southwest Res. & Ext. Center	Gary Strickland	580-482-0823	Replicated plot
4/27/2023	Apache (IM)	5:00 PM	Bryan Vail	Allison Pitmon	405-247-3376	Replicated plot
4/28/2023	Chickasha (IM vs SM)	8:00 AM	OSU South Central Res. Station	Michael Pettijohn	405-224-4476	Replicated plot
5/3/2023	El Reno (DP vs GO)	10:00 AM	Jerry Lingo	Kyle Worthington	405-262-0155	Replicated plot
5/4/2023	Jackson Co. East	8:00 AM	Howard Farms	Gary Strickland	580-482-0823	Demo plot
5/4/2023	Jackson Co. West	1:00 PM	Bush Farms	Gary Strickland	580-482-0823	Demo plot
5/4/2023	Cheyenne	1:00 PM	Roger Mills Fairgrounds ¹	Dan Cook	580-497-3339	Demo plot
5/5/2023	Sentinel	10: a.m.	Muscik Farms	Paige Wills/Greg Hartman	580-832-3356	Demo Plot
5/8/2023	Cherokee	6:00 PM	Kenneth Failes	Tommy Puffinbarger	580-596-3131	Replicated plot
5/9/2023	Alva	9:00 AM	Joe Shirley	Greg Highfill	580-327-2786	Replicated plot
5/9/2023	Morrison	3:00 PM	Doug Will ²	Chad Webb	580-336-4621	Demo plot
5/10/2023	Kingfisher	9:00 AM	Danny Struck ³	Bryan Kennedy	405-375-3822	Demo plot
5/11/2023	Weatherford	9:00 AM	Garland Leonard ⁴	Larry Bryen	580-323-2291	Demo plot
5/11/2023	Thomas	12:00 PM	Butch Wherritt ⁵	Larry Bryen	580-323-2291	Demo plot
5/16/2023	Morris (IM)	9:30 AM	Chris Ledbetter ⁶	Tanner Miller	918-756-1958	Replicated plot
5/16/2023	Greenfield	11:30 AM	Keith Strack ⁷	Dana Balwin	580-623-5195	Demo Plot
5/16/2023	Homestead	6:00 PM	Brook Strader's Farms ⁸	Troy Gosney	580-227-3786	Demo Plot
5/19/2023	Lahoma (IM vs SM)	8:00 AM	OSU North Central Res. Station	Josh Bushong	580-237-7677	Replicated plot
5/23/2023	Kildare	8:00 AM	Don Schieber	Shannon Mallory	580-362-3194	Demo plot
5/23/2022	Balko	5:00 PM	Kenton Patskowski	Loren Sizelove	580-338-7300	Replicated plot
5/24/2022	Hooker	9:00 AM	Ernest and Dan Herald	Dr. Britt Hicks	580-625-3464	Replicated plot

Notes:

Abbreviations: DP = Dual-purpose, GO = Grain-only, IM = Intensive management, SM = Standard management

¹ Meet at the Extension office

² Meet at the plot, 1 mile north of Bill's Corner on the east side of Hwy 177 at Knobhill.

³ Meet at fairgrounds for lunch, plot tour south of town afterwards

⁴ Meet at plot ¼ mile west of HWY 54 on Arapaho Road

⁵ Lunch at Wheeler Brothers, plot tour north of elevator afterwards

⁶ Meet at Ledbetter's farm @ 9:30, field tour @ 10, lunch @ 12

⁷ Lunch at Wheeler Brothers, plot tour north of town afterwards

⁸ Meal at Brook Strader's farm, plot tour afterwards



Listen as Cotton County wheat producer Jimmy Kinder discusses how wheat variety trials help to test different varieties for yield, disease resistance and more. ♦



Oklahoma Wheat Commission to Hold District 3 Election

The Oklahoma Wheat Commission will hold an election to fill the District 3 board seat opening. The election will be held Wednesday, May 3 at 1 p.m. at the Old Canadian County Fair Grounds Education Building located at 220 N. Country Club Road in El Reno.

District 3 consists of Beckham, Blaine, Canadian, Custer, Dewey, Kingfisher, Roger Mills and Washita counties.

All wheat producers within District 3 boundaries who are actively engaged in wheat production, have marketed wheat and have paid a check-off fee and left that fee with the commission for the current year are eligible to vote. It will be the responsibility of the producer to prove their eligibility to vote by providing a dated grain elevator receipt including the producer's name and amount of wheat sold and a driver's license or some other form of identification.

Candidates wishing to run in the election must be at least 25 years old, an Oklahoma resident engaged in growing wheat in the district for at least five years and must derive a substantial portion of his/her income from growing wheat. Three nominations will be made at the election, from which the Oklahoma Secretary of Agriculture will appoint one person to serve a five-year term with the Oklahoma Wheat Commission. Every wheat producer in the district is urged to participate in this important election.

Along with the commission's vacancy meeting, other highlights of the day include:

- 10 a.m. El Reno OSU Wheat Plot Tour, Jerry Lingo farm
- Noon Presentation by OSU Area Agronomist Josh Bushong
(Qualifies for ODAFF Applicator CEU Credit for private and commercial applicators)
Lunch provided by Oklahoma Wheat Growers Association
- 1 p.m. District 3 election

For more information, contact the OWC office at (405) 608-4350. ♦



PLEASE VOTE

OSU Wheat Breeding Program Releases New Variety

Oklahoma State University has a new Hard Red Winter wheat variety on its way to the commercial market this fall.

OK18510, which will be called High Cotton, first came into existence in 2010 in what OSU Wheat Genetics Chair Brett Carver called the “maternity ward” of wheat varieties — an OSU greenhouse.

Carver said he chose the variety name of High Cotton because he wanted to draw attention to its elite performance through a name that’s easy to remember.

“I wanted to suggest that adoption of this variety would put producers in a position to enjoy a bountiful harvest.”

“Wheat is the No. 1 plant commodity in Oklahoma reported by the USDA’s National Agricultural Statistics Service,” said Mike Schulte, OWC Executive Director. “Wheat is a \$1 billion industry in the state, and data shows that more than 50% of Oklahoma wheat producers grow OSU varieties.

“That’s a great testament to the impact of those varieties, whether they are high-yielding and disease resistant or have traits highly regarded by millers and bakers in both the domestic and international markets,” Schulte said.

He said the name of the new variety is likely to pique producer interest. “It’s about the OSU wheat breeding program being in the best of times,” Schulte said. “The hope is this variety will make great contributions for the wheat producers in our state over the next five to six years.”

Scott Senseman, Associate Vice President of OSU Ag Research, said High Cotton’s potential resilience will also be appealing to producers.

“Our Wheat Improvement Team continues to move the needle from a yield perspective, but its disease profile appears to provide another level of yield stability that will also be attractive to growers,” he said.

Carver said High Cotton caught his eye in its first year of Oklahoma variety yield trials in 2018.

“It has continued to rank either first or second in our breeding trials for five consecutive years,” he said.

What does High Cotton have to offer?

- The variety’s increased yield is expected to offset potential declines in planted wheat acreage in the future and help maintain the nation’s food supply.

- With yield, High Cotton exceeds Showdown, Smith’s Gold, Bentley and Gallagher wheat varieties by five to 13 bushels per acre. It performed at 17% above average in OSU yield trials.

- Its test weight has averaged 1.2 pounds per bushel above the average research trials, and the Wheat Quality Council found it to have acceptable milling and baking attributes.

- It has dual resistance to leaf and stripe rust as well as resistance to other common wheat diseases in Oklahoma.

- High Cotton is a dual-purpose wheat that provides early grazing opportunities while sustaining winter dormancy.

Performance potential

High Cotton was created by breeding OSU variety Ruby Lee with an experimental line developed in Turkey as part of the International Maize and Wheat Improvement Center breeding program, the largest wheat breeding program in the world. This hybrid was then crossed with an OSU experimental line bred from a collection of Pioneer HRW wheat.

“High Cotton will allow producers to reap the benefits of the most advanced wheat genetics on the market,” Carver said. “We hope that wheat growers from eastern Oklahoma to western Oklahoma will have an interest in adopting High Cotton in their next variety lineup.”

OSU scientists intend to have seed available this fall.

“If we get it harvested as we anticipate, we should have 3,000 to 4,000 bushels of foundation seed available through the Oklahoma Foundation Seed Stocks,” Carver said.

To learn more about High Cotton, watch this [SUNUP TV episode](#). Learn more about OSU’s wheat program and the Wheat Improvement Team and find resources on the [Wheat Research and Extension website](#) or by contacting your county OSU Extension office. ♦

Brett Carver, OSU wheat genetics chair, talks to producers about the potential of the OSU wheat variety OK18510 at a 2022 Wheat Field Day. The variety has been approved for commercial release under the name High Cotton. (Photo by Alisa Boswell-Gore, OSU Agriculture)



PRODUCERS

Strike Gold

with OSU Wheat Varieties

Oklahoma State University varieties continue to lead planted acres of Hard Red Winter Wheat across Oklahoma, according to the March 2023 “Oklahoma Variety Report” from USDA National Agricultural Statistics Service. For the fifth year in a row, the top four wheat varieties planted in Oklahoma were developed by OSU, with another three listed in the top nine.

Doublestop CL Plus variety took the top spot for the second year in a row, with Smith’s Gold moving from fourth last year into the No. 2 spot this year. Gallagher and Green

Hammer varieties moved into third and fourth. The Showdown variety made a great leap moving from 24th last year to sixth place this year. It should be no surprise to see Showdown’s movement, as it’s been widely adapted from west Texas to central Kansas, including the Oklahoma Panhandle and has a high yield ceiling. Showdown shows good standability and responds well to grazing with adequate seed density. Showdown also incorporates Hessian fly resistance. In the ninth spot, OK Corral — the OSU beardless variety — is great for grazing and


grain and has been a favorable replacement for Deliver.

The OSU varieties offer a diverse portfolio with wide adaptations across most regions of Oklahoma. Producers are looking for high yielding GoldnGrain® varieties that provide the best qualities for millers and bakers. (One message rings loud and clear, based on Wheat Quality Council and preferred variety lists — millers and bakers are sourcing from Oklahoma for the most suitable wheat quality.) Other core varieties for producer use include Bentley and Iba.

OSU Wheat Research
Supported by
Oklahoma
Wheat Commission

Review last year's results
for the location
for all locations
More info available at wheat.okstate.edu

GALLAGHER



Dr. Brett Carver discussed his research on advanced lines at a 2022 Field Day in Okmulgee, showing his wide array of diverse portfolio options for higher yielding wheats.

Newer OSU varieties released in 2020 broke into the survey this year with significant gains in acreage. These included Butler's Gold, a short season wheat that gives more options to producers growing multiple crops. Strad CL Plus followed right in line and is known as the Doublestop CL Plus upgrade for straw strength, forage production and maturity. The Uncharted variety followed with its significant breakthrough in Barley Yellow Dwarf protection and novel leaf rust resistance. Also listed is Baker's Ann, a premium-quality wheat variety well suited for quality-based contract production at a yield-potential comparable to Green Hammer.

Baker's Ann exhibits strong resistance to stripe rust across a wide geography, though protection against a severe infection of leaf rust may need to be bolstered with a fungicide application. It will fit best in the Oklahoma Panhandle and north central Oklahoma.

Future releases

To learn more about High Cotton, the newest OSU wheat variety just released this month, [click here](#).

What does High Cotton offer?

- This variety's increased yield is expected to offset potential future declines in planted wheat acreage and help maintain the nation's current food supply.
- With yield, High Cotton exceeds Showdown, Smith's Gold, Bentley and Gallagher varieties by five to 13 bushels per acre. It performed at 17% above average in OSU statewide yield trials.
- Its test weight has averaged 1.2 pounds per bushel above the average research trials, and the Wheat Quality Council found it to have acceptable milling and baking attributes.
- It has dual resistance to leaf and stripe rust as well as resistance to other common wheat diseases in Oklahoma.
- High Cotton is a dual-purpose wheat that provides early grazing opportunities while sustaining winter dormancy.

Thanks to wheat improvement programs like the one at OSU, producers continue to have

improved and expanded options of wheat varieties to plant. Whether it's improved stress or pest tolerance, or increased yields coupled with end-use quality expected by our food industry, OSU's Oklahoma Wheat Improvement Team is working to develop varieties to meet producers' changing needs. Most importantly, OSU wheat varieties are locally adapted, but globally marketed.

It's important to note the varieties released by the OSU Wheat Improvement Team have been through several years of testing for quality-based attributes that domestic and foreign customers expect in their milling and baking operations. Variety development programs that rush a variety to release may not provide the same level of scrutiny for end-use performance. By finding important traits beneficial to grain buyers, the OSU Wheat Improvement Team is working to penetrate a wider segment in the food sector by creating varieties that have dual benefit to farmers and end users.

For the 2023 USDA Oklahoma Wheat Variety Survey, [click here](#). ♦

Bob Howard Named 2023 Agriculture Hall of Fame Inductee



Bob Howard, a longtime southwest Oklahoma wheat, pasture and cattle producer was named the 2023 recipient of Governor Stitt's Outstanding Achievement in Agriculture Award. Howard was the 26th inductee into the

Oklahoma Agriculture Hall of Fame, which is the state's most prestigious agricultural honor.

Howard, who passed away last April at the age of 75, was honored at the annual Ag Day at the Capitol event in Oklahoma City April 11.

Howard's career was spent bettering Oklahoma's agriculture industry through research and innovation. His partnership with OSU extension resulted in improvements to wheat and pasture production systems still implemented now.

"We are so proud to call Bob Howard our 2023 Agriculture Hall of Fame inductee," said Oklahoma Secretary of Agriculture Blayne Arthur. "Bob was not only a critical player and innovator in the state's crop commodity industry, but a trusted community member and friend to many. His impact on Oklahoma's agriculture certainly lives on."

Over the years, numerous county, regional and state projects were conducted on Howard's farm. One long-term study led Howard to transition several fields to a no-till or minimum till operation, which helped control most of the erosion on the property. In 2013, Howard was given OSU's prestigious Master Agronomist award.

Howard was a supporter of agriculture youth development programs. While he served as the FFA instructor at the Navajo School system for only four years, Howard spent a lifetime helping kids in both the FFA and 4-H programs by sharing his knowledge and providing support. Howard also served in several leadership roles for commodity groups including the Oklahoma Wheat Growers Association, the Oklahoma Cattleman's Association and the Jackson County Farm Bureau Board. ♦

OWC Holds Bread Functionality Workshop with Northwest District OHCE

The Oklahoma Wheat Commission promoted "Wheat is to Eat — Offering our Breadbasket to the World," a bread functionality workshop, at the Northwest District OHCE meetings in Enid March 18.

The workshop discussed studies being conducted on bread functionalities with our wheat varieties from the OSU public wheat research program. Flavor profiles and product testing for advanced lines showed how performance measures are studied to determine best uses for specific wheat varieties. Discussions on pre-baked items allowed attendees to see differences in flavor and texture, which showed the uses most suitable for specific varieties.

Category uses discussed included bread doughs, pastry flours, tortillas, crackers, pastas, steam breads and frozen doughs. Much of this promotional work with creation and study of variety functionalities is tested at the OWC, but also takes place at the Robert M. Kerr Food and Agricultural Products Center in Stillwater, the USDA Flour Quality Lab

in Manhattan, Kansas, and the Wheat Marketing Center in Portland, Oregon.

The flours used in the workshop were milled by Chisholm Trail Milling Company in Enid, with several different wheat varieties. The list included Triumph 64, Smith's Gold, Breakthrough, Skydance, Butler's Gold, Big Country, Gallagher, a Blue Bearded Desert Durum and Green Hammer.

The Chisholm Trail Milling Company is a new artisan flour mill established in 2021 with business entrepreneur Brady Sidwell. Chisholm Trail Milling acquired a USDA grant with support from the Oklahoma Wheat Growers Association for rural economic development. Chisholm Trail Milling has been working directly with the OSU Wheat Improvement Team, OWC and OWGA to develop greater markets and opportunities for Oklahoma wheat producers by adding value with product development advancements and uses for both Hard Red Winter and Hard White Winter wheat.



OWC Executive Director Mike Schulte discussed flour milling, bread functionalities and items industrial bakers look for when regionally sourcing wheat varieties at Northwest District, OHCE meetings. His demonstration discussed the value-added research being conducted by OWC and OSU FAPC to find product development advancements for higher value products. ♦

Wheat Day and Ag Day are Celebrated at the Oklahoma State Capitol

The Oklahoma Wheat Commission celebrated Wheat Day at the Capitol on March 28, and Ag Day at the Capitol on April 11. Both days were filled with participation from OWC and Oklahoma Wheat Grower Association board members discussing the OSU public wheat research programs and the continued need for increased funding of OSU extension at area and county levels.

For Wheat Day, every legislator received a loaf of bread with messaging that discussed the economic impact of the wheat industry to the state's economy. Discussions were held on how drought has impacted producers through crop loss as well as the need for crop insurance programs to continue for producers during these challenging times. Producers also talked to legislators about the importance of OSU's public wheat research programs and how producers support these programs to keep variety development functioning for Oklahoma's wheat farmers.

Individuals who stopped by the OWC booth during Ag Day were informed about future research initiatives with OSU's public wheat research program and strategies for product promotion into domestic and international markets. Legislators heard how research funded by Oklahoma wheat growers continues exploration advancements that include: drought tolerance, nitrogen efficiency, leaf rust protection and other agronomic insect pests such as the wheat curl mite and bird cherry oat aphid. Several wheat variety trial field days across Oklahoma make this research available with continued testing and observation in different environments. Lawmakers were informed about the 23 variety trial plots located for demonstration for this 2022-2023 crop season.

Discussions on both days were wrapped up by talking about the importance of program funding for farm support since U.S. and Oklahoma agriculture is dealing with higher input costs, inflation and extreme loss due to continued long-term drought conditions in Oklahoma and across the Southern Plains.



OWC and OWGA board members, along with wheat industry leaders, met during 2023 Wheat Day at the Oklahoma State Capitol to discuss wheat and ag industry issues. From left are (front row) Jeff Hickman OWGA CEO; David Gammill, OWC Vice Chairman; Debbie Gammill; Tammy Miller, OWGA Member Services; Ashley Tucker, OWGA Director of Communications. From left are (back row) Abby Rakestraw, FPAC-RMA, USDA; Kent McAninch, OWGA Secretary-Treasurer; Don Schieber, OWC Secretary-Treasurer; Raymond Parrish, OWC board member; Dennis Schoenhals, OWGA President; Keeff Felty, NAWG Vice Chairman; Beth Wiebe; Jerry Wiebe, OWC board member; and Lori Peterson, OWGA Legislative Affairs.



OWGA President Dennis Schoenhals, Kremlin, and NAWG Vice Chairman Keeff Felty, Altus, prepare to hand out bread loaves to Oklahoma legislators during Wheat Day.



Former OWGA board member and District 61 Rep. Kenton Patzkowsky, serving as Oklahoma House of Representatives Agriculture Vice Chairman, addresses funding needs for OSU extension and agricultural research programs during the 2023 Wheat Day. ♦

Oklahoma Wheat Commission Works with OKIE to Promote Challah Bread Baking Workshop

The Oklahoma Wheat Commission, in conjunction with the Oklahoma Israel Exchange, hosted a Challah bread workshop that was taught by world-renowned Jewish baker Idan Chabasov, also known as the Challah Prince. This baking workshop was held at the Chabad Community Center for Jewish Life and Learning on March 19.

Israeli-born Chabasov moved to Berlin at the age of 28. There he found his calling as a baker, almost by accident, while working at a hummus restaurant. More than 64,000 followers later, the 36-year-old recently returned to Israel, to bake challah in the land of challah. During the pandemic, he opened an Instagram account on a whim. Within six months, he had 6,000 followers. His Instagram feed is chock-full of appetizing photos of this simple bread made from a simple recipe.

“This is the role of challah — to bring people together,” said Chabasov. “Although a Jewish bread, for me, challah is for everybody.” The fundraising event, in partnership between OKIE, OWC and Hillel at the University of Oklahoma, provided an opportunity for guests to watch Chabasov demonstrate multiple intricate bread braid designs.

“Everything should be a partnership, if we’re working together, we’re doing better work so we’re doing good things,” said Edie Roodman, OKIE executive director.

Class participants were walked through the process of cutting, forming, rolling out and braiding a five-strand challah design, using Oklahoma flour, that they could take home and bake.

The OKIE program has funded several wheat and agricultural trade missions since 2012, while helping host trade

delegations for Israeli wheat buyers. On average, Israel purchases 15 to 20 million bushels of Hard Red Winter wheat from the Southern Plains of Texas and Oklahoma each year.

“With the support of OKIE, we continue to build relationships for millers and bakers in Israel so they can purchase Oklahoma wheat,” said Mike Schulte, OWC executive director. Our relationship with this country on trade and commerce continues to expand because of support from Oklahoma citizens that have made OKIE instrumental in promoting trade-based relationships on innovation and technical advancement. It’s great we could be a part of this fundraising activity using Oklahoma wheat to fund future trade missions with OKIE,” he said. For more information about OKIE, [click here](#).



World-renowned Jewish baker and Chef Idan Chabasov conducted his Challah course to raise funds for the OKIE program.



OKIE Program Executive Director Edie Roodman focused on Challah course work with several attendees at the workshop.



Oklahoma Genetics Inc. board member and southwest Oklahoma wheat producers Tom Null and his wife, Lynn, attended the fundraiser. ♦

OWC board member Jerry Wiebe and his wife, Beth, attended the Challah bread fundraiser with daughter, Vanessa.



Oklahoma Represented at USW United Export Strategy Meetings

U.S. Wheat Associates conducted United Export Strategy meetings with all overseas offices from January to March. In this process, key domestic staff joined USW board officers and one to two state representatives. Officers and state representatives could directly test the strategies laid out by the directors, ask questions, learn about the customers and ensure that priority markets have adequate resources.

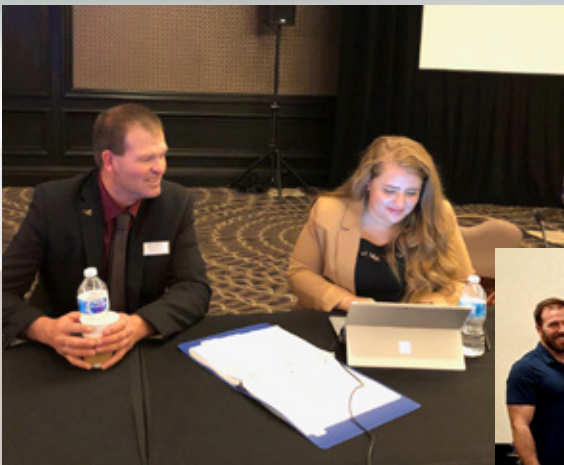
Directors provided market overviews and a “SWOT” strategic planning analysis. They came prepared with approximately 80% of the marketing plans already written. After the meetings concluded, all marketing plans were submitted to USW/ Arlington, reviewed, edited and submitted to the Foreign Ag Service according to the Notice of Funding Opportunities due dates.

The entire UES process takes five to six months from start to finish. These meetings are held to strategize on how best to use funding into our wheat export markets that are received with Foreign Market Development and Market Access program funds allocated in the U.S. Farm Bill.

This work is conducted by the 17 state wheat commissions that provide matching funds with our FMD and MAP programs to promote our U.S. wheat products around the world. Oklahoma is one of the member states that belong to USW, which has 15 offices located around the globe. The national organization gives Oklahoma wheat producers market access to more than 100 countries worldwide. The funding from Oklahoma and the participating states supports marketing initiatives with technical millers, bakers and cereal chemists working to promote US wheat to export markets.

Oklahoma focuses on export markets in Mexico, Central America, Africa, the Middle East and the Far East. More than 50 percent of Oklahoma wheat grown is placed into the export market. These programs are used to promote Oklahoma wheat to foreign customers, working to create great demand for wheat!

Currently, Michael Peters of Okarche, is the USW Vice Chairman. USW is the national marketing and promotion board for U.S. wheat.



Michael Peters discussed phytosanitary certificate measures on wheat shipments by rail from the U.S. Southern Plains to markets in Central America.



U.S. Wheat Associates Vice Chairman Michael Peters, Okarche, (back row, third from right) conducts UES meetings with representatives from USW technical staff and state wheat commission representatives from the northern United States. ♦

All you Knead to Know

an artisan and grain workshop



Baked goods made from grain have been a global staple of life for several millennia. It has provided calories and protein to generations of people when other foods were not available. Amazingly, to a lot of people, how to bake a loaf of bread at home is still a mystery, let alone, knowing how the grain was produced that supplied the flour. Anyone from a chef to a farmer, as well as bakers in small and large bakeries, will find interest in this specialized workshop just for the baking industry. Baking is an art and a food science that allows many components to work together.

Join us for a day of traveling through the world of the wheat industry. OWC Executive Director Mike Schulte will explain the current wheat industry, how Oklahoma fits in that world and what the future might look like.

Renee' Albers-Nelson, Milling & Baking Specialist with the Robert M.

Kerr Food & Ag Products Center, will cover wheat's past world history, with interesting thoughts and concepts that may not be aware to the consumer.

Gary Lowrance, retired Director of Product Development and Quality Control from Shawnee Milling Co., will explain how we obtain flour, the milling process and the work involved in creating a consistent, quality food product. He will also aid in a hands-on session in working with dough and sourdough.

With 43 years in the grain business, Lowrance has developed more than 100 mixes. He has focused on wheat and corn recipes, dry mix formulation and troubleshooting and baking characteristics of wheat. He has aided in grain milling, agriculture engineering projects, water pollution, ethanol production, wheat starch and gluten production, catfish and minnow feed formulation, commercial bakery troubleshooting, adopted recognized

industry test standards into quality control programs, air classification of hard wheat flour to enhance basic wheat flour milling concepts, OSHA safety and basic first aid for 200 employees. Bailey Norwood, Ph.D., the Barry Pollard, MD/P&K Equipment Professor of Agribusiness at OSU, will discuss sensory research on Oklahoma wheat varieties.

Norwood has degrees from three different land grant universities. As an OSU agricultural economist, he teaches courses on supply chain management, consumer marketing research and a general course on agriculture called Farm2Fork. Norwood has published studies including food insecurity during COVID, the impact of wheat varieties on taste and the philosophy of why we garden. He has written three books on agriculture.

Attendees are encouraged to wear long pants and close-toed shoes to gain full access to the FAPC facility.

May 17 • 8 a.m. to 4 p.m.

Agenda:

- 8 a.m. Registration
Continental breakfast
- 8:30 a.m. Welcome, Andrea Graves, FAPC
- 8:45 a.m. Mike Schulte,
Oklahoma Wheat Commission
Wheat breeding myths explained
- 9:45 a.m. Renee' Albers-Nelson, Robert
M. Kerr Food & Ag Products
Center
*Wheat flour history — has
anything changed?*
- 10:30 a.m. Break
- 10:45 a.m. Gary Lowrance, Shawnee
Milling
*Wheat flour milling and flour
differences*
- Noon Lunch
- 1:15 p.m. Lowrance and Albers-Nelson
Hands-on bread making activity
- 3:15 p.m. Bailey Norwood, Ph.D., OSU
The variety of flavors in bread
- 4 p.m. Q&A, Adjournment ♦

[Click here](#) for more information and registration link.



2023 Ag Youth Leaders Visit OWC

The Oklahoma Wheat Commission hosted the 2022-23 Ag Youth Council in January. The Ag Youth Council was created by Oklahoma Secretary of Agriculture Blayne Arthur to develop future agricultural leaders in Oklahoma through professional development, industry exposure and experimental learning.

This council consists of high school seniors interested in learning about and representing Oklahoma's agricultural industry. Council members serve a year term, making visits to agricultural companies and organizations, learning about the legislative process and

shadowing industry professionals. In addition, students participate in leadership and professional skill development activities and learn information to prepare for agricultural careers in college.

In January, council members toured OWC's facilities and learned about the domestic and international promotional work conducted by OWC. Discussion also focused on research priorities with the public wheat research program at Oklahoma State University that are funded by Oklahoma Wheat producers with their support through OWC.

Students saw applications created for flavor profile testing in OWC's consumer promotion kitchens. The group experienced working with different flour functionalities, while observing different flavor and performance measures that are studied when producing bread, tortilla, steam breads, frozen dough and cracker studies currently being conducted within the OSU wheat research program. ♦



Oklahoma Wheat
COMMISSION

Oklahoma Wheat Commission

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