



# 43<sup>rd</sup> Annual Wheat Crop Report

May 2, 2023

OGFA 125<sup>th</sup> Annual Meeting

# Oklahoma Wheat Tour Regions



# 2022 Crop Report Contributors

Panhandle: **Darrell McBee**, OSU Extension

North Central – West: **Josh Bushong**, OSU Extension

North Central – East: **Jeff Mitchell**, Farmers Grain Company

West Central: **Greg Hartman**, OSU Extension

Central: **Grant Mason**, Wheeler Brothers Grain Co.

Northeast: **Adam Barbee**, CGB Grain

Southwest: **Gary Strickland & Aaron Henson**, OSU Extension

South Central: **Heath Sanders**, CHS

Southeast: **Michael Trammell**, OSU Extension

# Panhandle Region



**Darrell McBee**  
Extension Educator,  
Harper County  
Buffalo, OK



# General Comments

- 8-9 months with no measurable rainfall
- Several high wind events causing serious soil erosion
- Most wheat fields emerged in November or not at all
- Zero forage production for grazing
- Wheat mites, mosaic and winterkill a problem
- Lots of fields at 80% permanent wilt and late moisture will not help
- Largest area affected that I have seen



Gate





Forgan





**West of Hooker**





# Hough





**Eva to Keyes – Most fields never emerged**





**North of Keyes  
7.3 bu to Zero**





**Northwest of Goodwell  
First year out of CRP**



**Irrigated wheat at Guymon  
55 bu**





**Balko**  
**2.5 bu on left**

# Final Comments

- Harper & Beaver – Many fields have been appraised off and cattle are utilizing what little is there.
- Texas & Cimarron – Very little dryland production possible

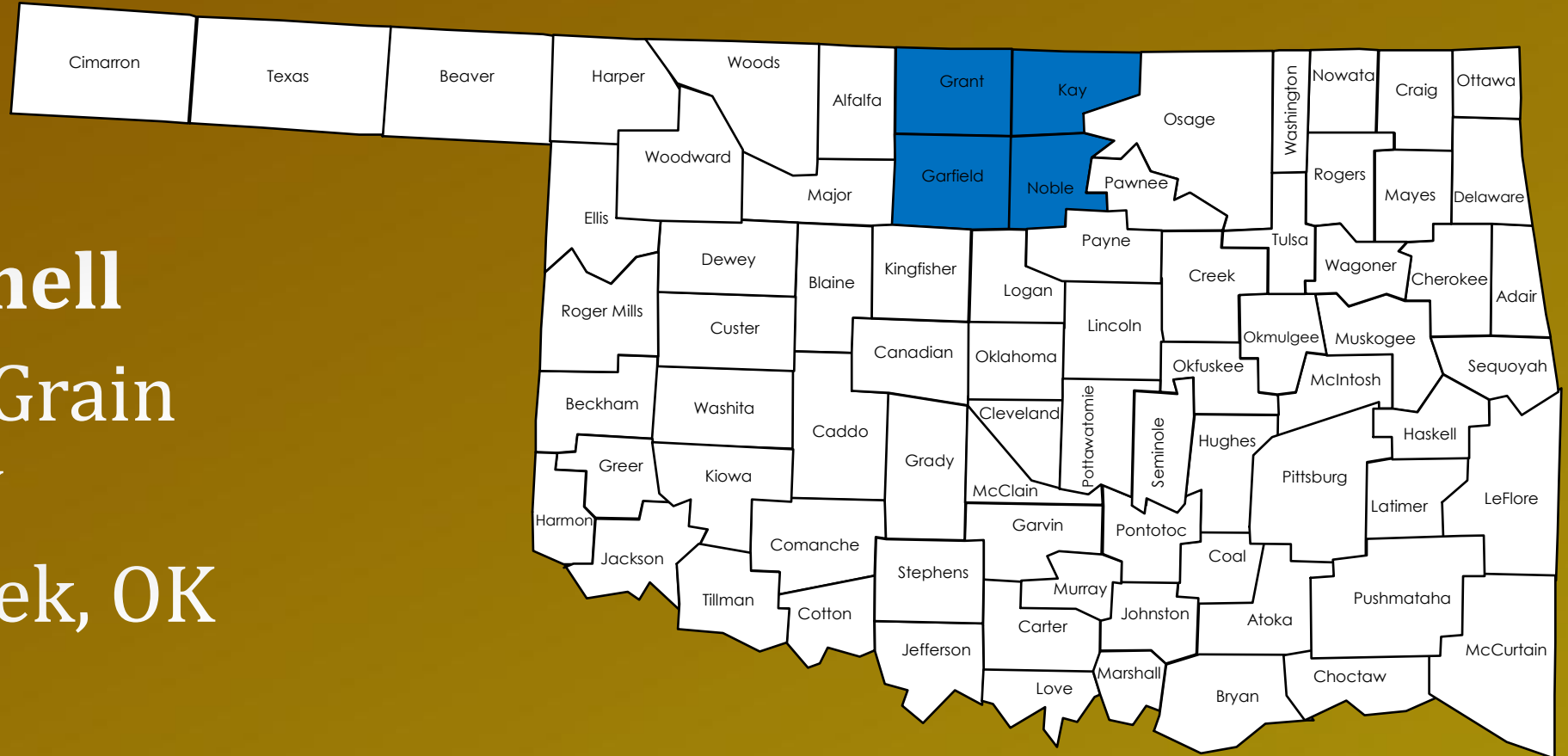
# Panhandle Region Estimates

County	Planted Acres	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Beaver	94,717	18,000	10	0.18
Cimarron	180,941	20,000	10	0.20
Harper	74,311	15,000	12	0.18
Texas	186,326	40,000	20	0.80
<b>Total</b>	<b>536,295</b>	<b>93,000</b>	<b>14.6</b>	<b>1.36</b>



# North Central – East Region

**Jeff Mitchell**  
Farmers Grain  
Company  
Pond Creek, OK



# General Comments

- Really hot and dry conditions while planting this last fall didn't get a good rain till end of October.
- Spider mites where a big issue during growing season thru North Central.
- Lots of stunted wheat do to late planting anything that is following a summer crop really suffered never got a chance to rebuild soil moisture profile.



# Wheat following soybeans 2023





# Freeze damage from March 18<sup>th</sup> 2023 freeze 10 degrees





This wheat will still make in the 40's  
but there is very little of this in area!!!



# Final Comments

- Hopefully mother nature will continue to keep moisture coming and stay cool during filling of the head. We have harvested some really good wheat that wasn't very tall.
- With hay shortage how much will be cut down for hay?
- Better get your seed wheat bought ASAP might be hard to find.

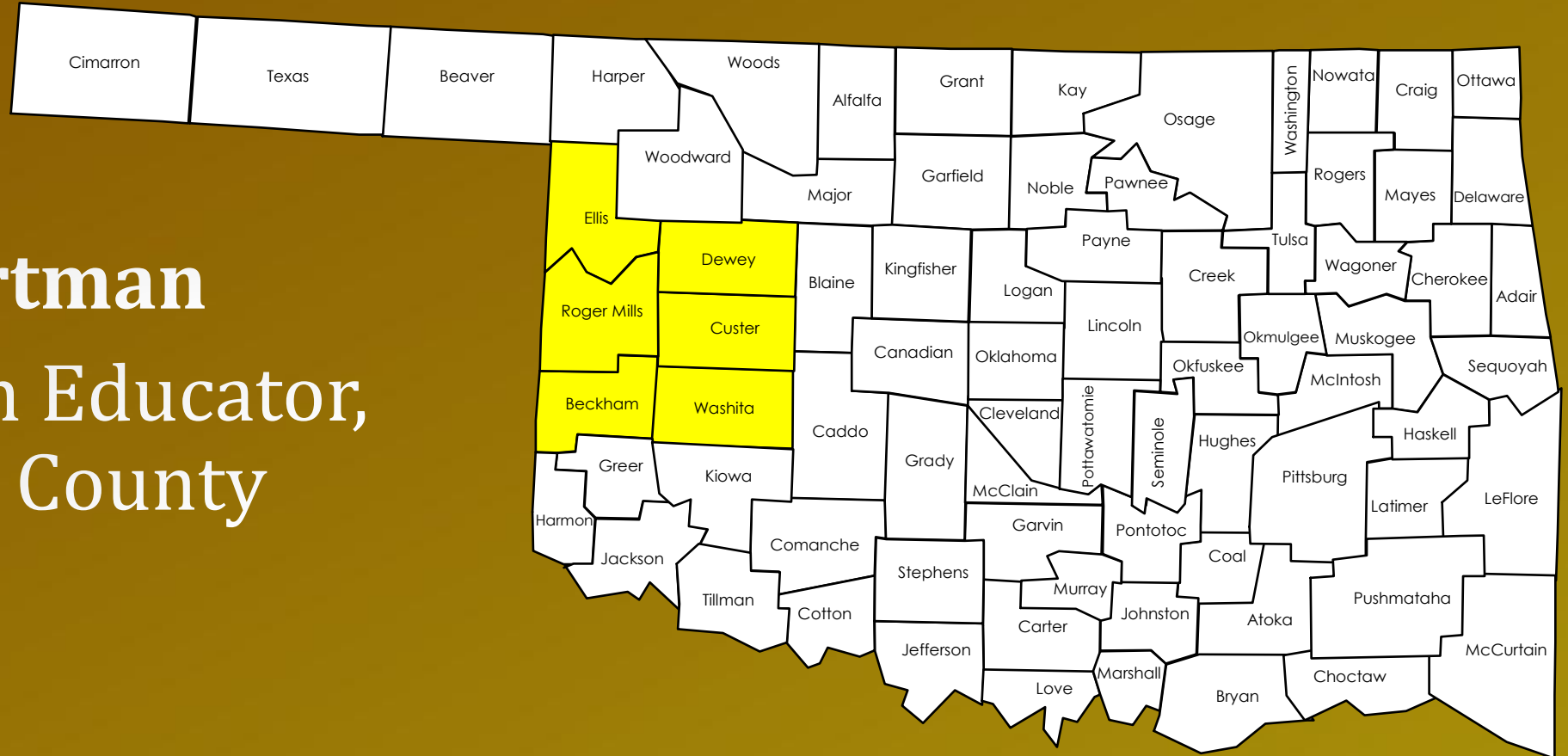


# North Central – East Region Estimates

County	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Garfield	201,000	23	4.623
Grant	210,000	20	4.200
Kay	80,000	25	2.000
Noble	50,000	30	1.500
Total	541,000	22.8	12.323

# West Central Region

**Greg Hartman**  
Extension Educator,  
Beckham County  
Sayer, OK



# General Comments

- Moisture was good at germination
- No moisture in the fall for tillering
- No moisture going into dormancy
- No moisture breaking dormancy
- Below normal moisture in the spring time
- Crop is not good

# 365 Day Rainfall Deficit West Central

- Erick - 5.7 inches
- Cheyenne – 4.8 inches
- Arnett - 7.1 inches
- Camargo – 8.3 inches
- Putnam – 9.7 inches
- Weatherford – 5.2 inches
- Bessie – 4.6 inches



# 2023 Annual Wheat Crop Report



# West Central Region Estimates

County	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Beckham	10,000	10	0.100
Custer	40,000	12	0.480
Dewey	26,000	10	0.260
Ellis	7,200	9	0.064
Roger Mills	5,500	9	0.049
Washita	68,000	14	0.952
<b>Total</b>	<b>156,700</b>	<b>12.2</b>	<b>1.905</b>



# Central Region

Grant Mason  
Wheeler Brothers  
Grain Co.  
Kingfisher, OK

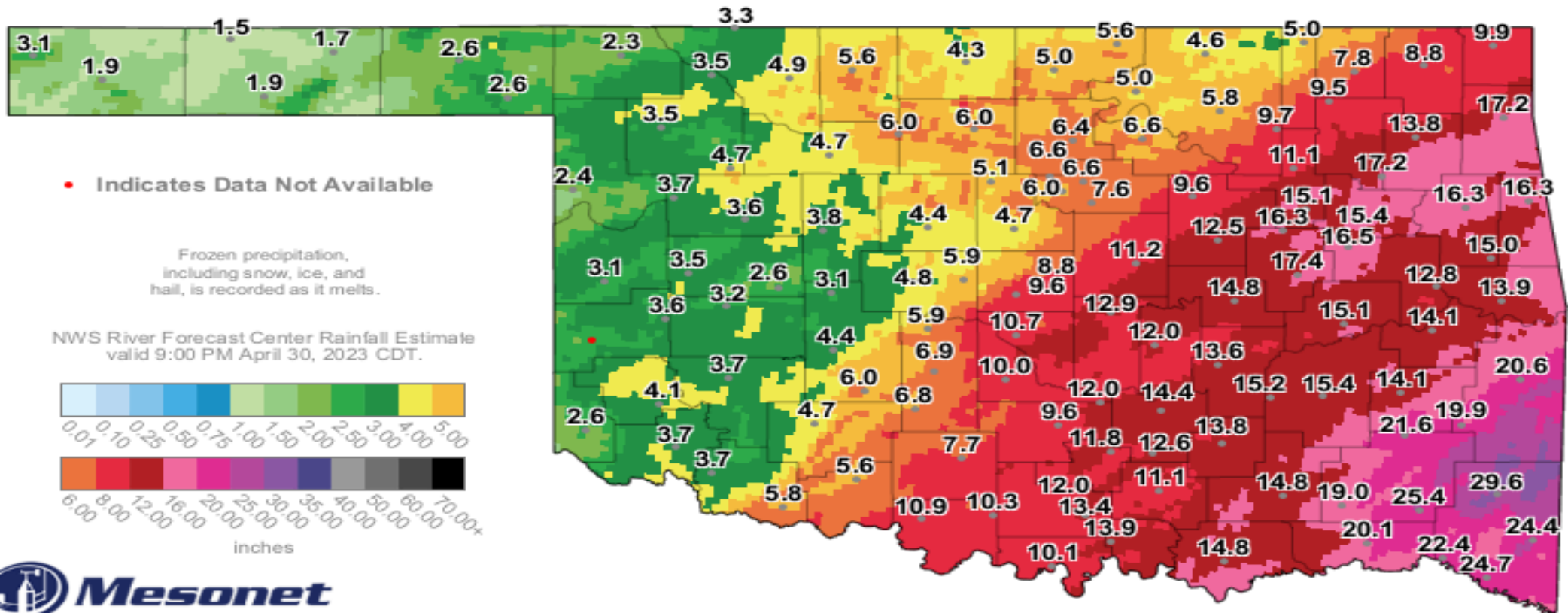


# General Comments

- Dry, very very dry.
- Mite Damage was very bad, especially as you move west.
- Freeze damage 25-30% in many fields.
- Many fields being released.



# Rainfall



120-Day Rainfall Accumulation (inches)

10:15 PM April 30, 2023 CDT

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# Freeze Damage





# Representation of Overall Crop



# Final Comments

- Hopefully last weeks moisture will help with grain fill.
- Overall, below average wheat crop.
- Expected harvest date: May 28<sup>th</sup>.

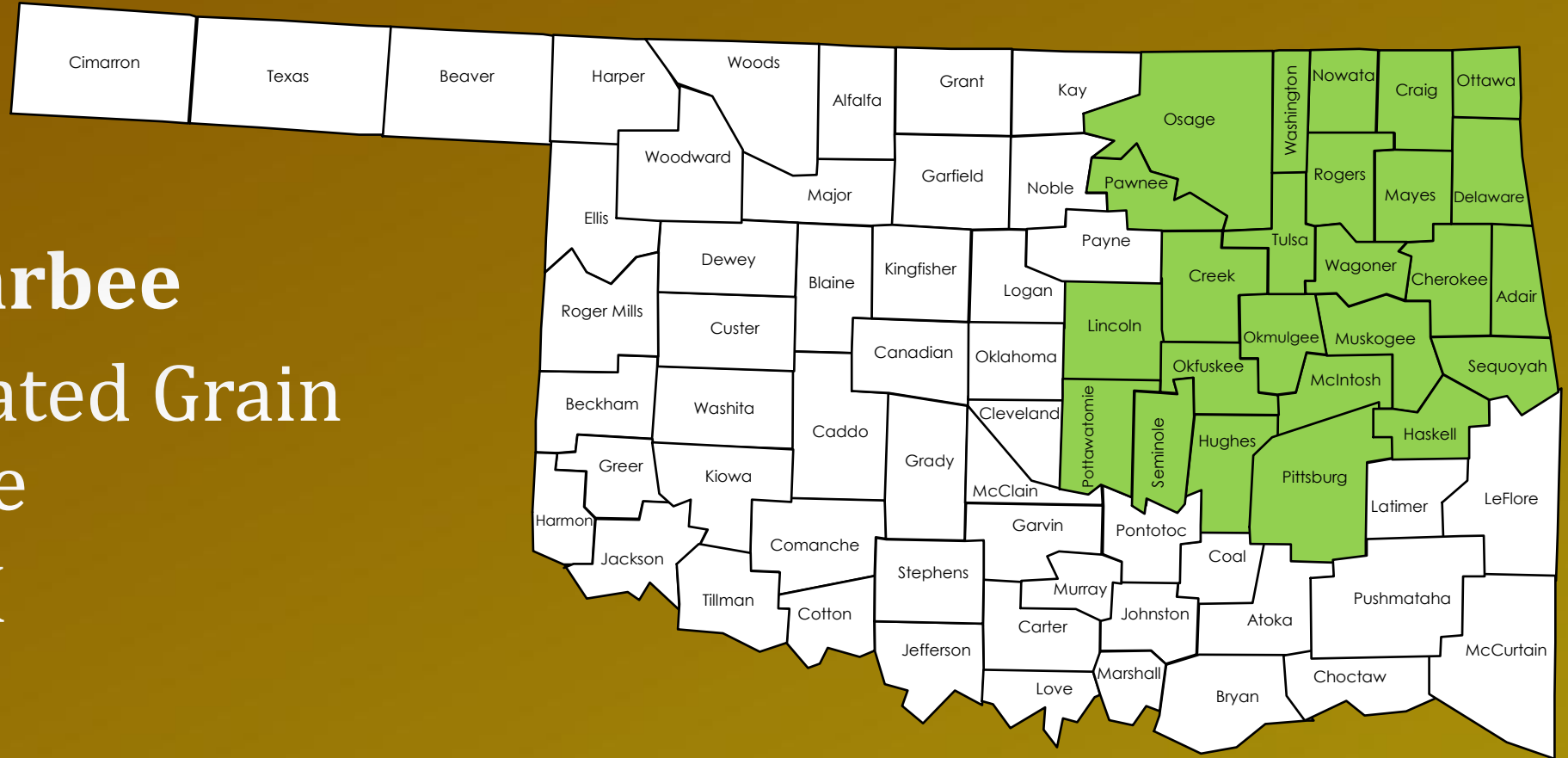


# Central Region Estimates

County	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Blaine	117,000	24	2.808
Canadian	100,000	25	2.500
Kingfisher	125,000	25	3.125
Logan	28,500	21	0.599
Oklahoma	1,500	20	0.030
Payne	4,250	20	0.085
<b>Total</b>	<b>376,250</b>	<b>24.3</b>	<b>9.147</b>

# Northeast Region

**Adam Barbee**  
Consolidated Grain  
and Barge  
Tulsa, OK





# General Comments

- HRW crop is in good condition in all sampled areas.
- Overall, little to no change in planted acres.
- Just enough early moisture to get crop planted. Aprox 5in of rain sep thru oct.
- Growing season precipitation:
  - Northern counties avg 16in of rain Feb thru April.
  - Southern counties avg 22in of rain Feb thru April.
  - 50% of growing season rainfall came in April.
- No noticeable signs of insect dmg, discoloration, disease pressure or freeze dmg.
  - 2 days of freeze scare, but no reports of freeze dmg.
- Expecting historically average/normal size production in NE region.
- Samples taken april 21<sup>st</sup>.



# Osage County

- Good stand
- Somewhat thin fill
- Starting to head
- Estimated 31 bpa





# Nowata County

- Riverbottom wheat
- Thick even fill all throughout
- Estimated 47bpa





# Craig County

- Wheat on high ground
- Later plant
- Stunted, still awhile from maturity
- Example of the poorer wheat in region
- Potentially get baled.
- Estimated 23bpa





# Ottawa County

- Representation of entire Ottawa county
- All wheat has good stand and filling on time
- Starting to head, I peeled this one back
- Estimated 35bpa





# Wagoner & Muskogee County

- More river bottom wheat
- Muskogee county fully headed (left)
- Wagoner county almost fully headed (right)
- Consistent stand, healthy wheat
- Estimated 42 bpa





# Final Comments

- Had enough moisture to get crop in ground
- Consistent rains during the growing season
- Only bad wheat seen was on high ground where ground doesn't hold moisture
- Looking at healthy production if May weather cooperates.

# Northeast Region Estimates

Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
48,000	41	1.97



# Southwest Region

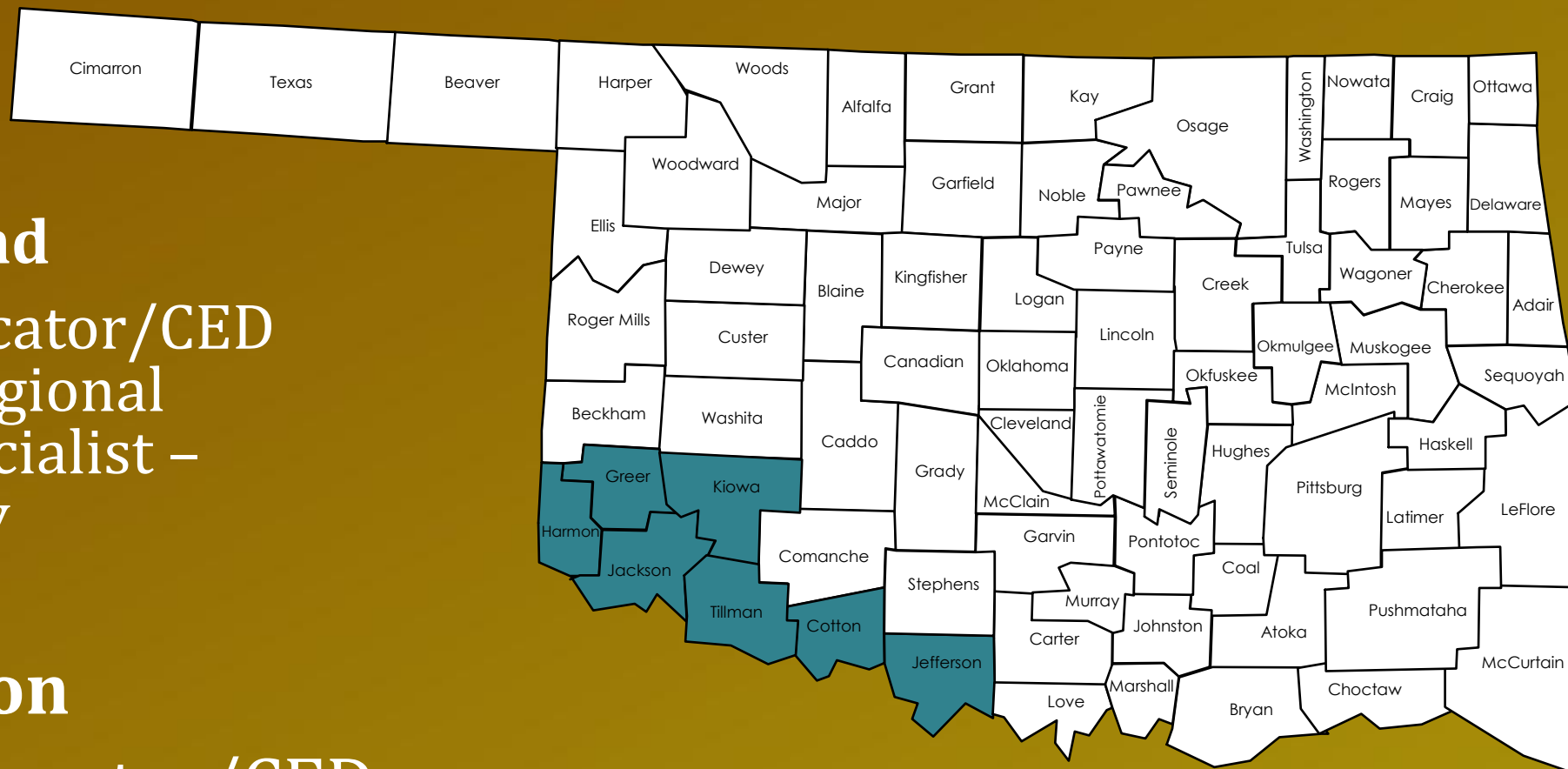
**Gary Strickland**

Extension Educator/CED  
and SWREC Regional  
Agronomy Specialist –  
Jackson County

*and*

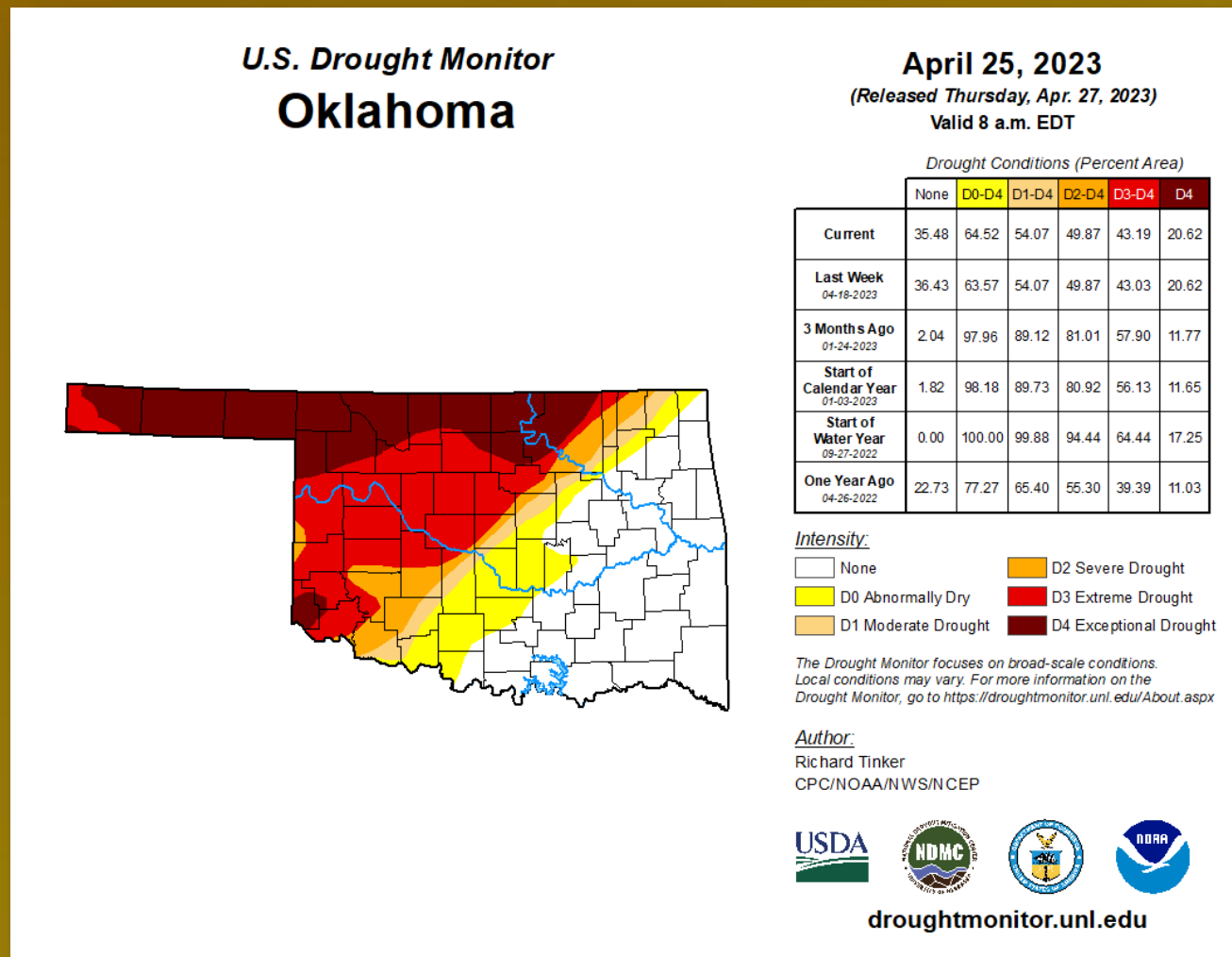
**Aaron Henson**

Extension Educator/CED  
Tillman County



# Drought Comments – 2022/2023

- Started out very dry
- Both topsoil and subsoil were impacted – dry deep!
- It took until spring to start positively impacting subsoil moisture
- West part of the region remained dry





# General Comments - Moisture

- September was very dry, most planted wheat did not emerge
- October and November Rains helped establish early planted wheat
- However, starting in December conditions went mostly dry for the region thru mid- March
- Received enough little rains to keep wheat green thru February when wheat started running out of moisture
- The eastern part and some northern sections of the region received good rain starting the last half of March

# 2023 Annual Wheat Crop Report



Apr 29, 2022 through Apr 28, 2023

Created 3:42:08 AM April 29, 2023 CDT. Copyright 2023



# General Comments – Growth and Development, Insects, Disease, and Weeds

- Early plantings had good early growth with October and November rainfall
- Late November plantings were slow developing and suffered drought loss, especially in west areas
- Insects - Brown wheat mites, a few BCOA noted thru year
- Diseases - low incidence year, some root rots, tan spot low in the canopy
- Weeds – broadleaves early on, then grasses; wild oats, rescuegrass, cheat, downy brome, feral rye
- Some freeze damage was noted in specific areas



# Pictures 2023





# The Estimation Process

- As always acre and yield estimates are a moving target but here is our best Educated Guess – The Process
- County Visits: ~ 10-15 fields counted for yield estimates across the county, combined with several visual estimates
- Final acre estimations were reduced by the percentage of estimated forage acres and drought loss abandonment fields
- Average acre yield estimates were reduced slightly to reflect freeze damage estimates

# Southwest Region Acre Estimates

County	FSA Reported % Forage Use Only Acres	% Forage Use Only Acres by Count	% Drought Loss Acres by Count
Cotton	12	30	10
Greer	12	13	13
Harmon	24	54	15
Jackson	10	15	10
Jefferson	99	99	---
Kiowa	3	29	15
Tillman	4	20	12



# Final Comments Prior to Acre/Yield County Estimate

- Started out dry and stayed dry deep (until now), depending on location the area received intermittent moisture support
- Eastern and some northern parts of the region received good late rainfall and look good for the most part
- Freeze damage seemed to occur more in the southern part of the region but did occur in other areas in low percentages; however still good yield potentials in some of these fields
- The west part of the region in general does not look as good, experiencing drought compounded with freeze damage
- The latest rain will mostly finish filling grain but will likely not recover or secure late tillers

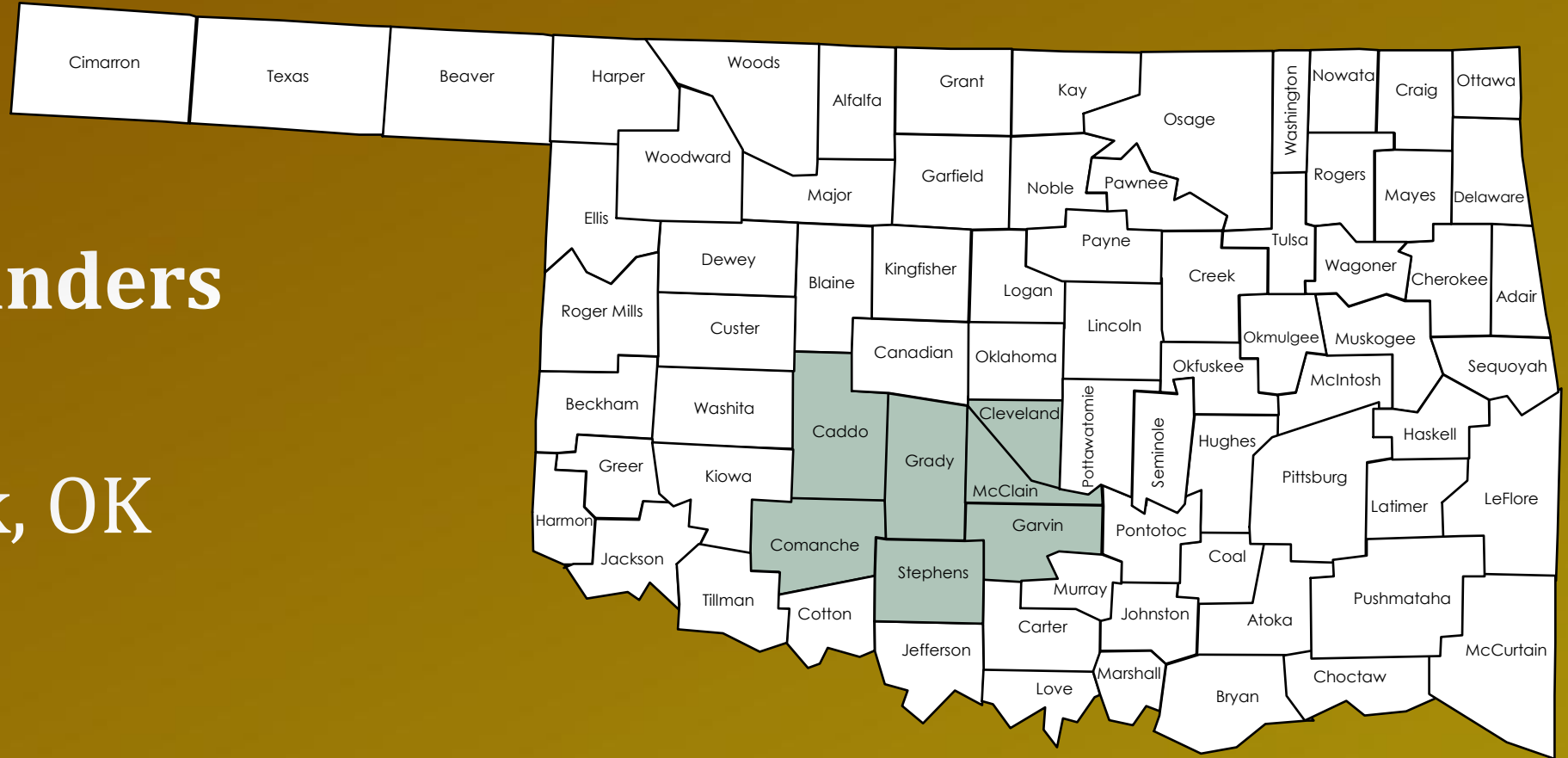
# Southwest Region Estimates

County	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Cotton	83,164	43.6	3.626
Greer	54,351	33.8	1.837
Harmon	21,078	22.2	0.468
Jackson	107,631	33.6	3.616
Jefferson	640	30.0	0.019
Kiowa	101,459	32.1	3.257
Tillman	122,270	36.5	4.463
Total	490,593	35.2	17.286



# South Central Region

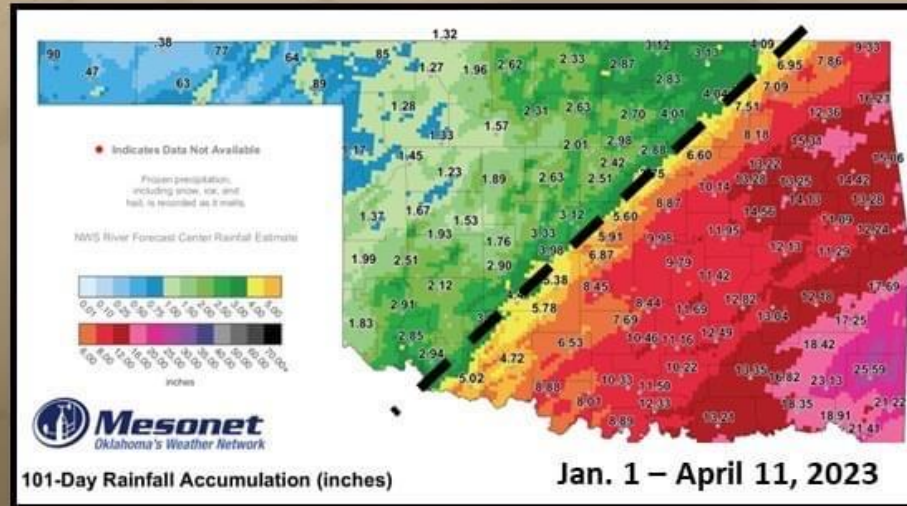
Heath Sanders  
CHS  
Frederick, OK



# General Comments



## Haves vs. Have-nots



5<sup>th</sup> driest  
since 1895



9<sup>th</sup> wettest  
since 1895





# General Comments

- Dry
  - Many acres dusted in, finally rained mid-end of October
  - Limited during fall, winter, spring
  - Moisture came in small amounts
  - Wind!

# General Comments

- Pest Issues
  - Grass and Broadleaf weeds
    - Emerged when it rained in October
    - Later planted wheat
  - Insects
    - Brown Wheat Mites
    - Aphids (BCO)



# General Comments

- Diseases
  - Very light pressure if any
  - Loose smut
    - Seeing more and more
  - Leaf flecking



# General Comments

- Wheat Fields
  - “A Mixed Bag”
    - Differences across the road
    - What was planted last year? Crop rotation?
    - How much soil profile moisture did this wheat crop have to work with.
  - Planting dates
    - Smaller plants



# General Comments

- Wheat Fields
  - Uneven, wavy appearance
  - Hotspots
    - Turn rows
    - Stressed plants



# General Comments

- Wheat Fields
  - Freezing weather compounded by dry soil conditions
  - White tipped heads
    - Seeing more of this





# Final Comments

- Dry
  - The farther east is better wheat
  - What acres have or are going to be insured out in days or weeks to come?
  - Cut for hay? Producers need hay
  - Seed wheat situation for fall planting?

# South Central Region Estimates

County	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Caddo	80,000	30.0	2.400
Cleveland	1,955	38.0	0.074
Comanche	35,000	35.0	1.225
Garvin	7,500	45.0	0.338
Grady	35,000	35.0	1.225
McClain	5,500	40.0	0.220
Stephens	7,500	40.0	0.300
<b>Total</b>	<b>172,455</b>	<b>33.5</b>	<b>5.782</b>

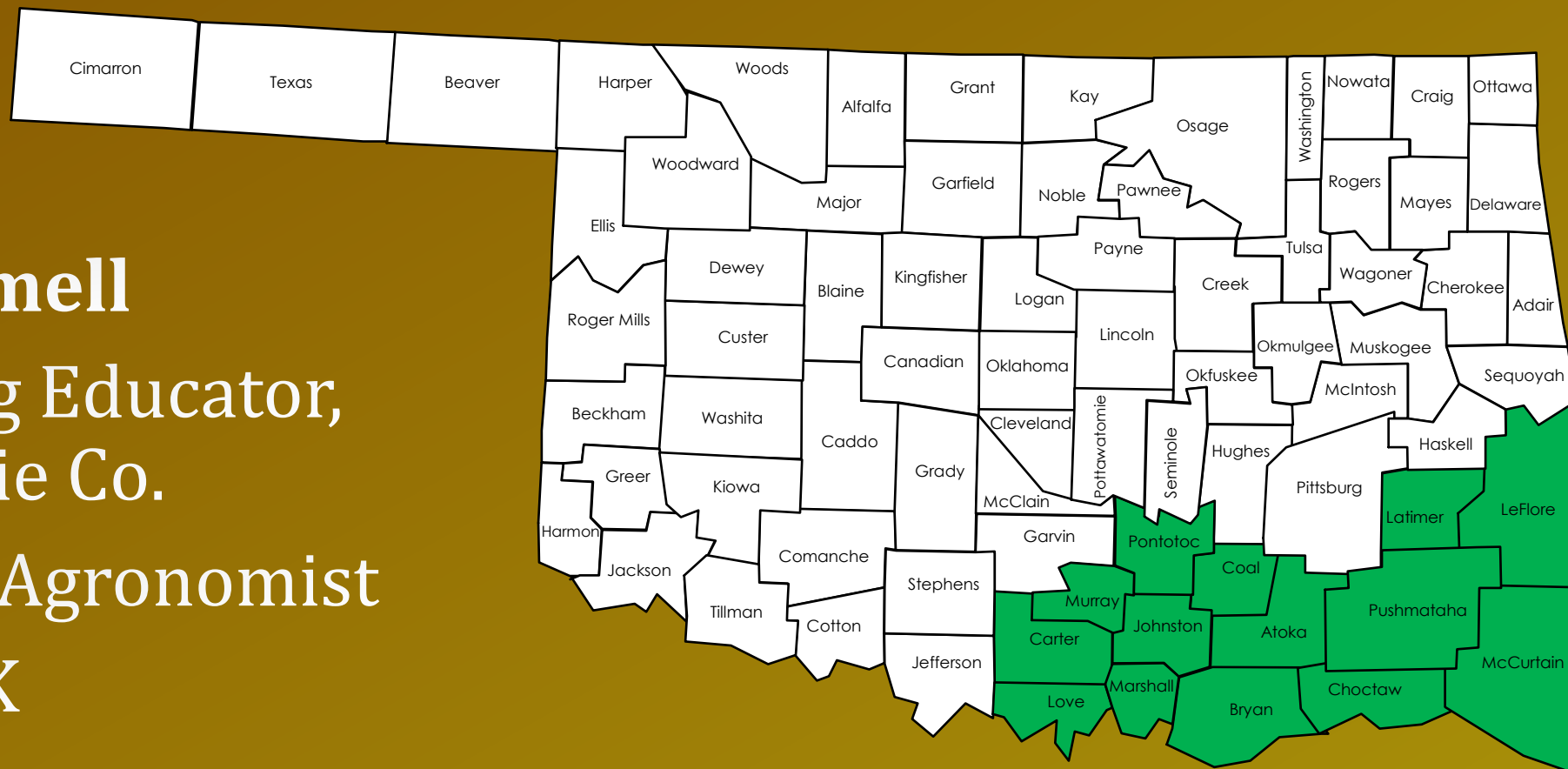


# Southeast Region

**Mike Trammell**

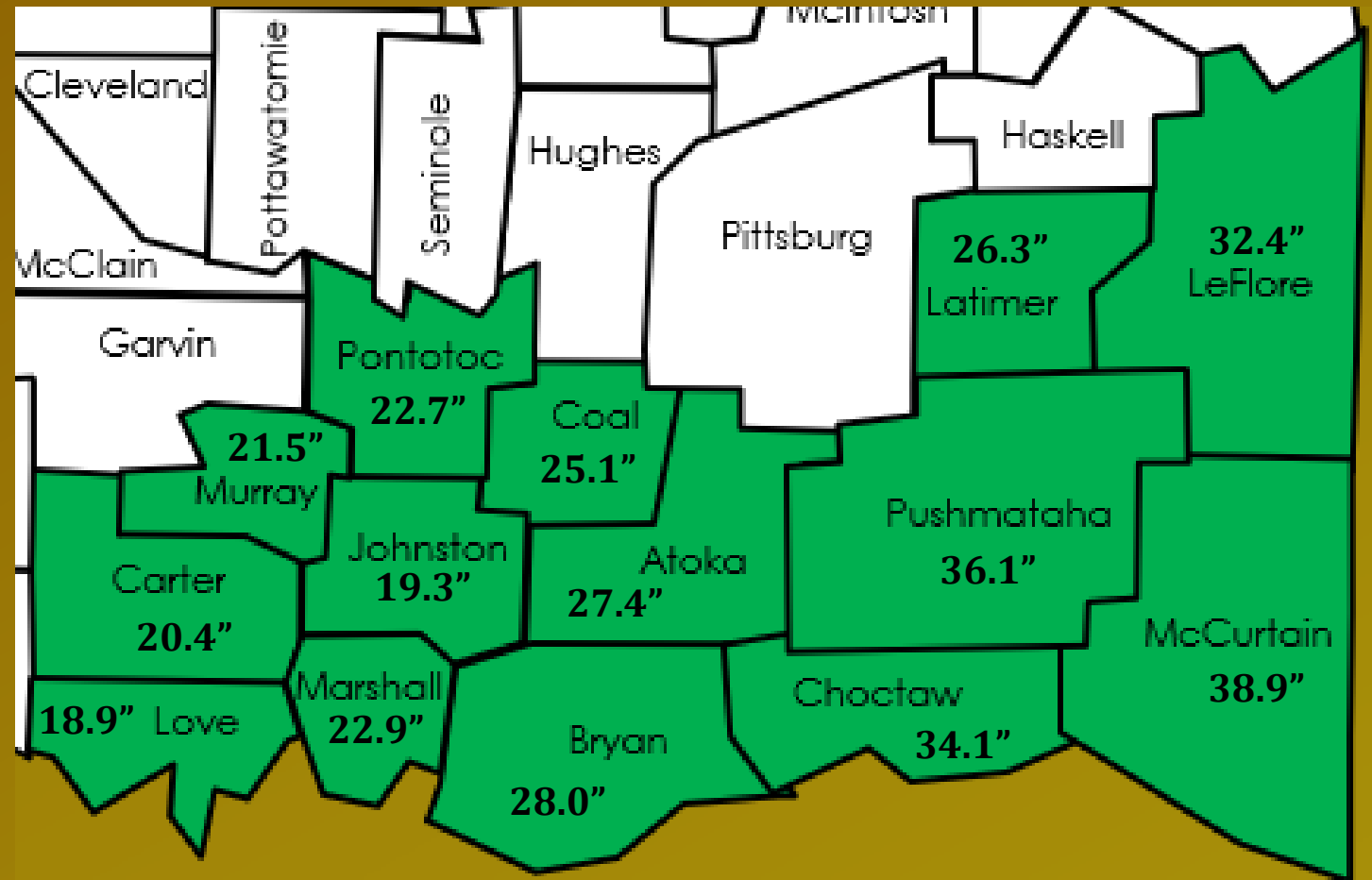
Extension Ag Educator,  
Pottawatomie Co.

SE Regional Agronomist  
Shawnee, OK



# Southeast Region – Rainfall (Mesonet)

**2022-2023**  
**Total Rainfall**  
**Sept 1 to April 25**





# Rainfall by County (Mesonet)

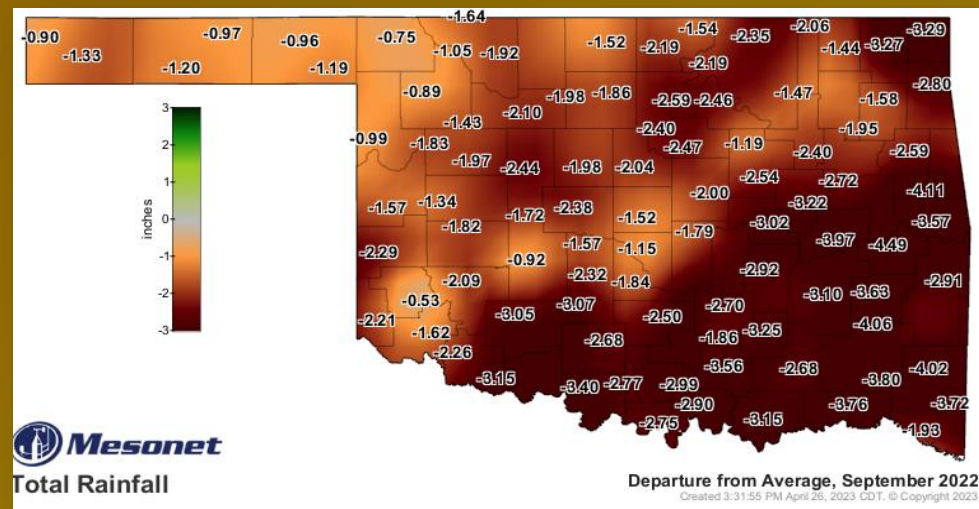
2023 Annual Wheat Crop Report

County	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
McCurtain	1.41	6.95	6.12	2.02	3.17	9.78	7.33	2.20	38.98
Pushmataha	0.21	5.85	6.49	3.02	1.88	6.41	11.18	1.13	36.17
Choctaw	0.14	6.73	6.52	1.88	1.57	6.19	9.98	1.17	34.18
Leflore	1.84	4.46	4.04	3.28	1.97	6.30	8.21	2.35	32.45
Bryan	0.46	4.83	7.01	2.26	1.38	3.45	7.18	1.50	28.07
Atoka	0.27	4.59	6.17	2.68	1.43	4.13	7.39	0.77	27.43
Latimer	0.62	5.41	4.21	3.11	1.47	4.86	5.45	1.21	26.34
Coal	0.38	4.42	4.74	2.59	1.60	3.36	7.01	1.02	25.12
Pontotoc	0.92	3.16	2.74	3.04	1.37	4.75	4.92	1.83	22.73
Marshall	0.32	4.47	4.42	1.26	1.32	2.77	8.02	0.38	22.96
Murray	0.34	3.95	2.90	2.62	1.10	4.60	4.25	1.79	21.55
Carter	0.45	4.58	3.28	1.12	1.23	3.65	5.50	0.64	20.45
Johnston	0.07	3.93	3.57	1.39	1.25	2.98	5.56	0.57	19.32
Love	0.65	5.17	2.92	1.21	1.10	2.98	4.51	0.39	18.93

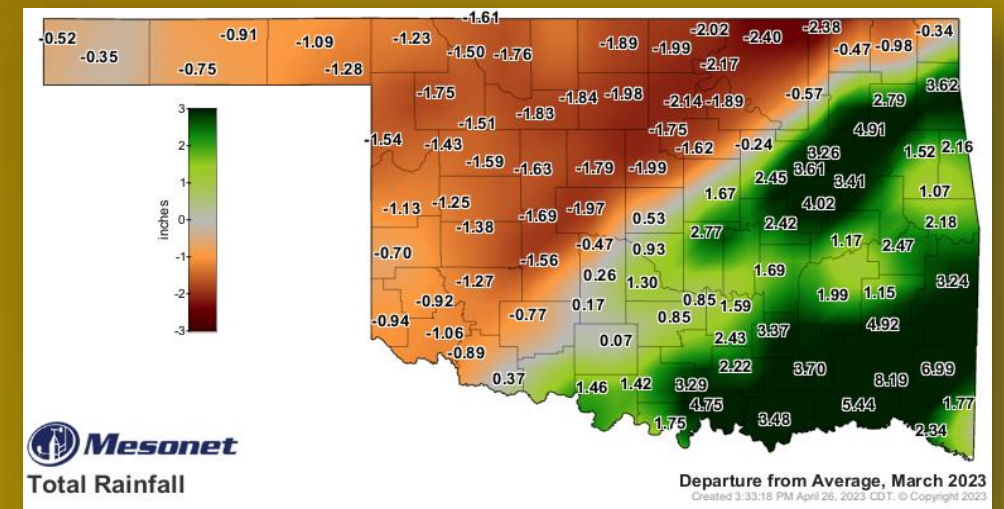
# Southeast Overview

- Dry weather @ September planting with improving moisture in most counties in the SE region throughout the growing season
- Some good stands and some not so good stands
- Area still more heavily utilized for grazing and hay

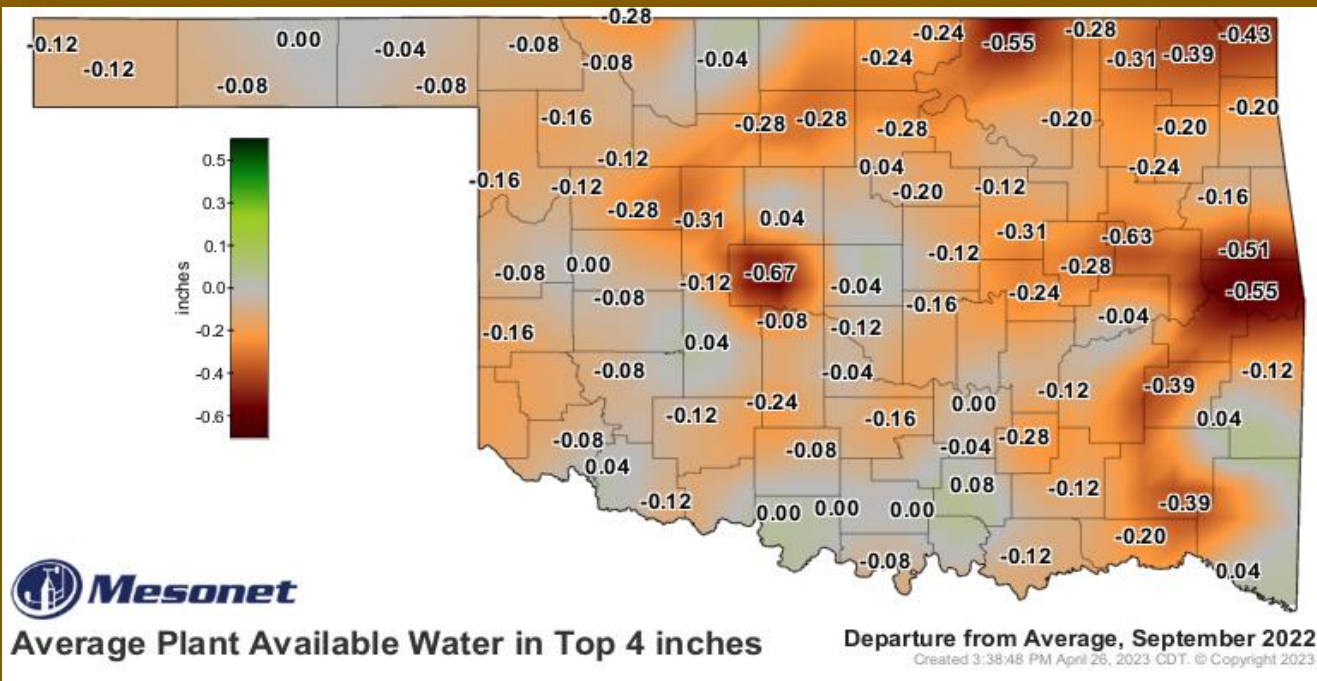
## September 2022



## March 2023



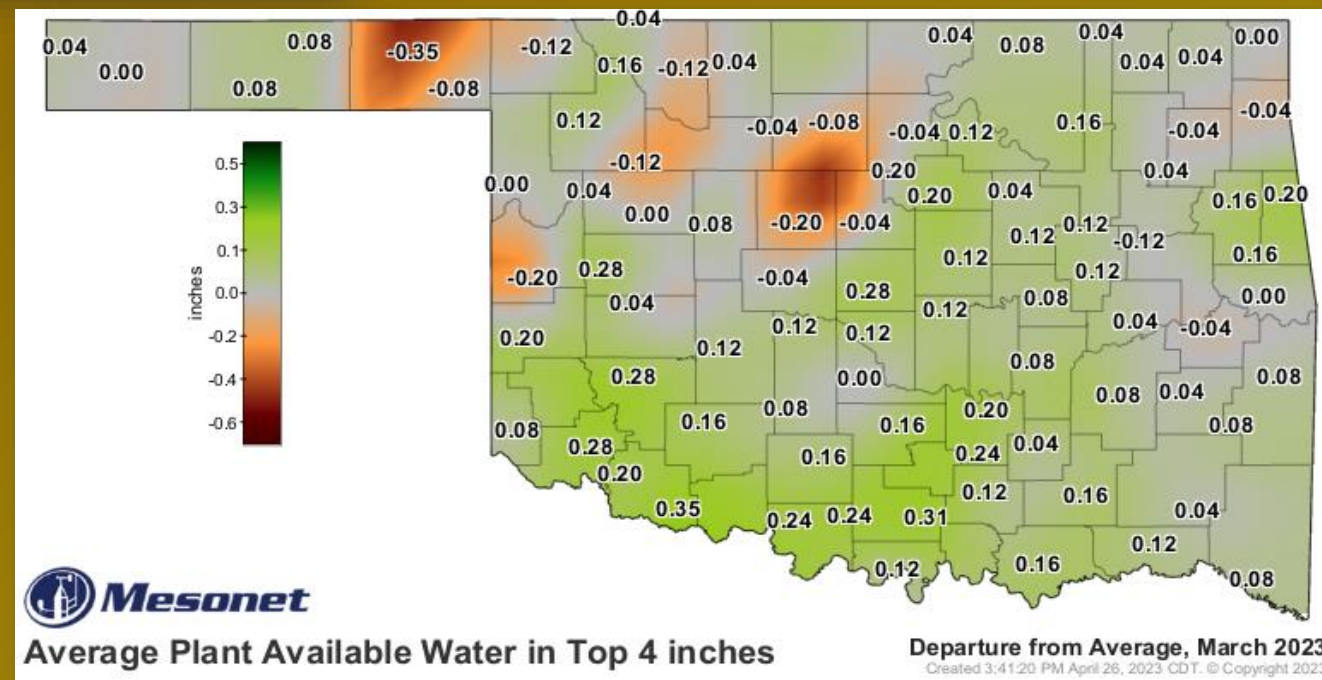




September 2022

March 2023

The percent reported is for the soil column from the soil surface down to the 4-inch depth. Percent's may go above 100% or below 0% due to variation between individual sensors and sensor locations. The theoretical maximum plant available water was calculated from depth specific soil analysis for each Mesonet site.





# Carter County – rainfall 20.4”

Planted Oct 1, 2022, no-till

- 4/20/2023
- Avg 24” tall, no issues





# Pontotoc County – rainfall 22.7”

Planted Sept. 15, 2022

- Poor establishment due to dry conditions and high soil temperatures @ planting
- Weedy
- Will be grazed out







# LeFlore County – 32.4” rainfall 4/20/2023

Northern part of county Arkansas River bottom, irrigated





# Final Comments

- Majority of wheat is being grazed or cut for hay
- Currently, minimal indications of disease pressures or freeze
- Harvest conditions likely to be slowed due to cooler temperatures. Wet conditions in some counties may delay harvest
- Overall –southeast crop is fair in western counties of the SE region and decent in the eastern counties of the region

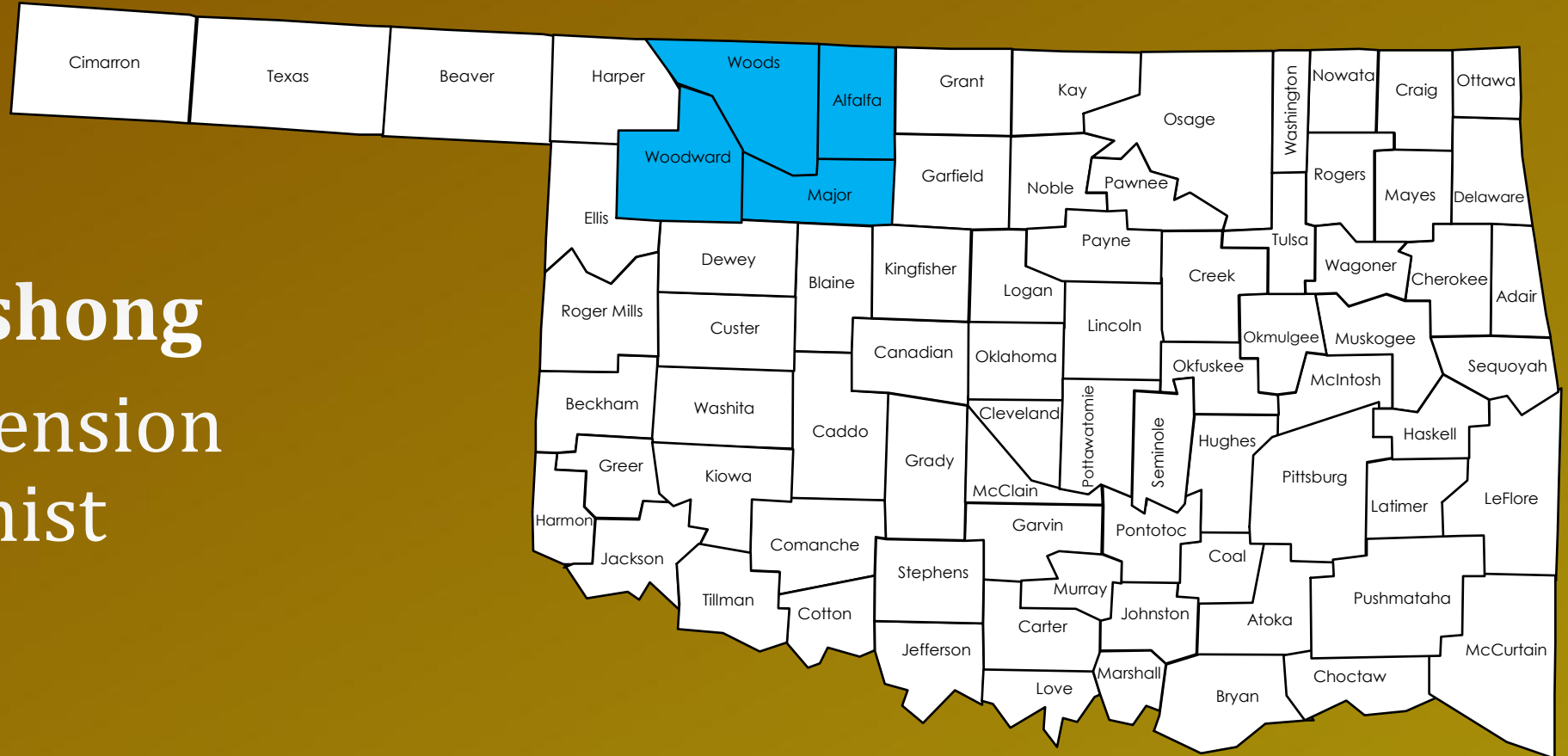
# Southeast Region Estimates

County	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Bryan	800	30	0.024
Carter	300	25	0.007
Choctaw	300	40	0.011
Johnston	200	25	0.005
LeFlore	1,000	40	0.040
Love	200	25	0.005
Marshall	200	27	0.005
McCurtain	1,700	40	0.068
Total	4,700	35.1	0.165



# North Central – West Region

**Josh Bushong**  
Area Extension  
Agronomist  
Enid, OK



# Crop Loss Factors

- Drought / wind / temp swings
- Establishment
- Previous crop / double-crop
- Pests: weeds, insects, and viruses
- Fertility



# Establishment – Blownout





# Thin and Short





# Environment Stresses





# Spring Freeze Injury





# Weeds





# Double-cropped Wheat





# What's not going to see a combine..





# Final Comments

- Mother nature won
- Few pests
- Thin short stand, small heads
- Too late for secondary tillers
- Harvested acres down, 30-90%



# North Central – West Region Estimates

County	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Alfalfa	155,000	17.9	2.771
Woods	78,375	9.4	0.733
Major	76,024	10.5	0.803
Woodward	11,190	5.5	0.062
<b>Total</b>	<b>320,589</b>	<b>13.6</b>	<b>4.369</b>

# Yearly Tour Estimates & USDA-NASS

Year	Estimated Acres	NASS Acres	Estimated Yield	NASS Yield	Estimated Production	NASS Production
2022	2,425,057	2,450,000	23.5	28	57.051	68.600
2021	2,985,042	2,950,000	37.1	39	110.741	115.050
2020	2,910,787	2,600,000	33.2	40	96.524	104.000
2019	3,452,431	2,750,000	35.1	40	121.350	110.000
2018	2,506,428	2,500,000	25.3	28	63.320	70.000
2017	3,109,700	2,900,000	34.2	34	106.410	98.600
2016	3,824,214	3,500,000	34.2	39	130.657	136.500
2015	3,925,800	3,800,000	27.7	26	108.797	98.800
<b>Avg.</b>	<b>3,142,432</b>	<b>2,931,250</b>	<b>31.6</b>	<b>34.2</b>	<b>99.356</b>	<b>100.193</b>





# Thank You!

To the Contributors of the  
43<sup>rd</sup> Annual  
Wheat Crop Report



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**EXTENSION**



# 2023 Wheat Crop Tour Estimates

Region	Harvested Acres	Yield (Bu/A)	Total Production (million Bu)
Panhandle	93,000	14.6	1.360
North Central – West	320,589	13.6	4.369
North Central – East	541,000	22.8	12.323
West Central	156,700	12.2	1.905
Central	376,250	24.3	9.147
Northeast	48,000	41.0	1.97
Southwest	490,593	35.2	17.286
South Central	172,455	33.5	5.782
Southeast	4,700	35.1	0.165
<b>Total</b>	<b>2,203,289</b>	<b>24.65</b>	<b>54.307</b>



# Audience Texting Poll – 2 Questions

Q1. Harvested Acres (X,XXX,XXX)

Q2. Average Yield (XX.X bu/a)

Text **JOSHB500** to **37607**

**or**

Web **PollEv.com** Username **JOSHB500**

# Member's Estimate



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**Harvested  
Acres**

**Yield  
(Bu/A)**

**Total Production  
(million Bu)**

---

**2,098,208**

**22.275**

**40.738**

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