2024 CROP MARKETS AND WEATHER OUTLOOK

March 29 | 1-2 p.m. CST



Ben Brown University of Missouri

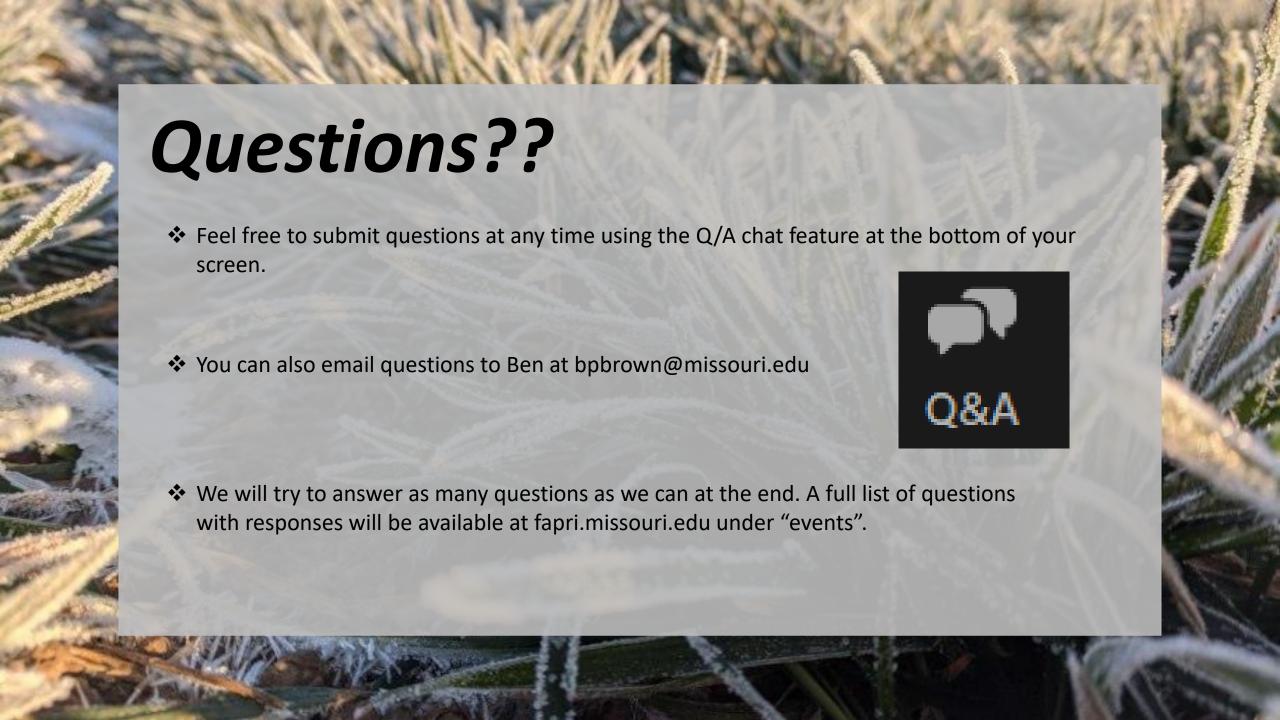


Zachary Leasor Missouri Climatology Office



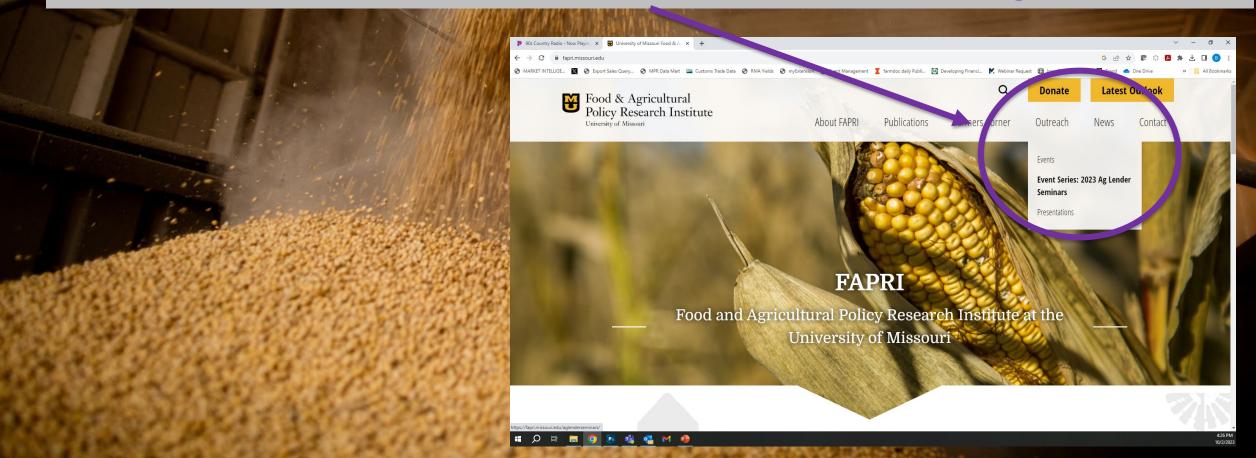
University of Missouri

Food & Agricultural Policy Research Institute Rural & Farm Finance Policy Analysis Center



Slides for today's presentations can be found at:

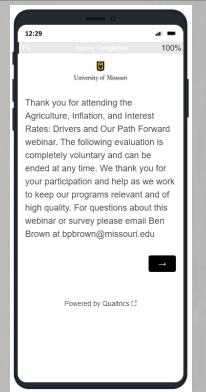
FAPRI.missouri.edu -> Outreach -> Event Series: 2023 Ag Lender



Evaluations

Please help us continue to offer high quality programs by completing our evaluation upon competition of the webinar.

- The internet-based evaluation will start when you exit the zoom.
- ❖ Takes roughly 3 minutes
- Responses will be completely private



The evaluation is designed to capture how effective our program was at meeting key objectives.

- 1. Provide an update on market fundamentals for corn, soybeans and wheat.
- 2. Overview price markets for 2024.
- 3. Provide an outlook on planting and summer growing season weather conditions.



2024 AG LENDERS WEBINARS

United States and Agricultural Trade Outlook

2024 Federal Commodity Program Update

2024 Crop Insurance Decisions

2024 Crop Enterprise Budget Update

2024 Crop Markets and Weather Outlook

January 24 | 10-11 a.m. CST

February 7 | 1-2 p.m. CST

February 28 | 11 a.m.-12 p.m. CST

March 19 | 11 a.m.-12 p.m. CST

March 29 | 1-2 p.m. CST

Register for free: fapri.missouri.edu/aglenderseminars-webinars/





ABNER WOMACK MISSOURI AGRICULTURE OUTLOOK CONFERENCE

April 3 | 8-3:30 | Columbia

Hear the latest agricultural outlook and panel discussions on agricultural policy, international agriculture and U.S. commodities

Find the full agenda and register,

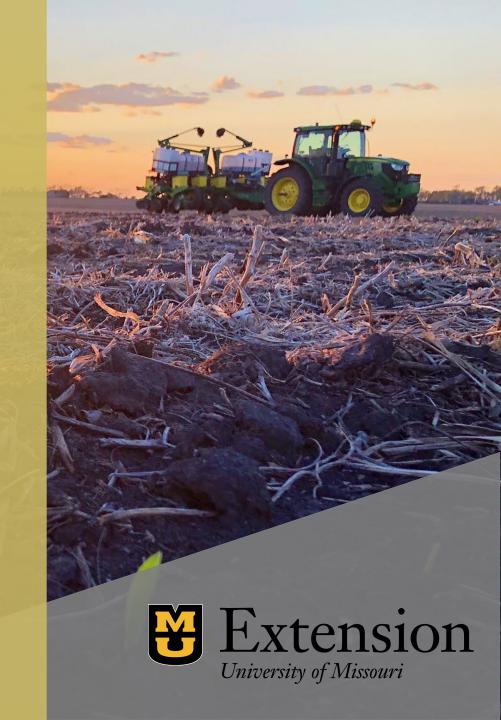


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Outlook for 2024 Crop Markets and Weather



Zachary Leasor University of Missouri



Outlook for 2024 Crop Markets and Weather



Ben BrownUniversity of Missouri





2024 Crop Outlooks

March 1 Stocks (in billions of bushels)					
	USDA Mar. 1	Average Trade	Estimate Range	USDA March 1,	
	2024	Estimate		2023	
Corn	8.347	8.427	8.129-8.568	7.396	
Soybeans	1.845	1.828	1.740-1.986	1.687	
Wheat	1.087	1.044	0.997-1.080	0.941	

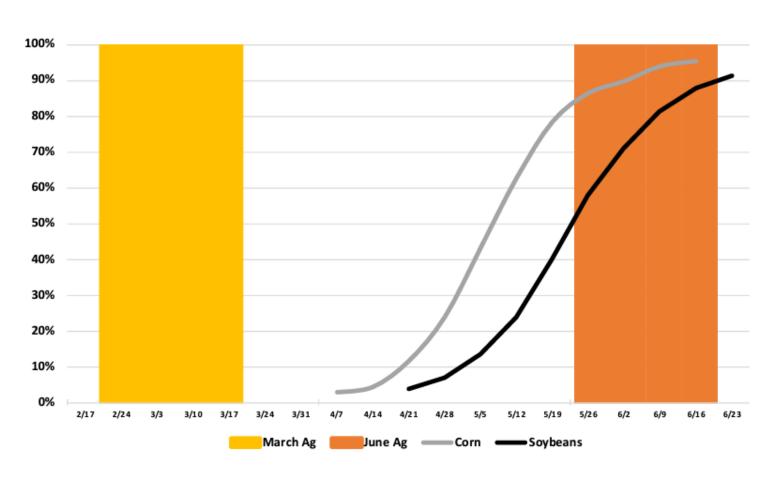
- ❖ Corn Stocks: Up 951 million bushels from last year, down 80 million from trade estimate.
- ❖ Soybean Stocks: Up 158 million bushels from last year, up 17 million bushels from trade estimate.
- ❖ All Wheat Stocks: UP 146 million bushels from last year, up 43 million bushels from trade estimate.



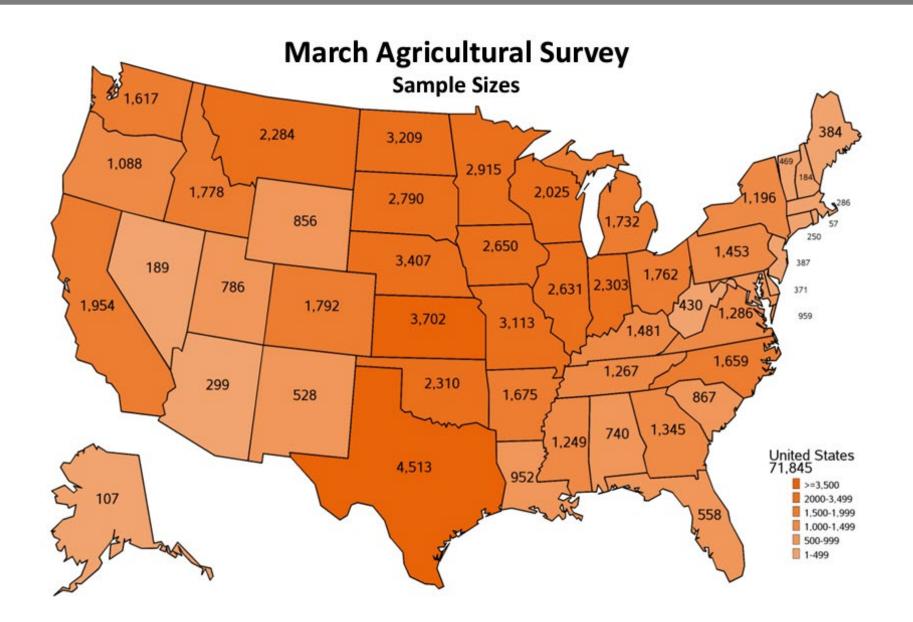


Survey Timing vs. Planting Progress Corn & Soybeans



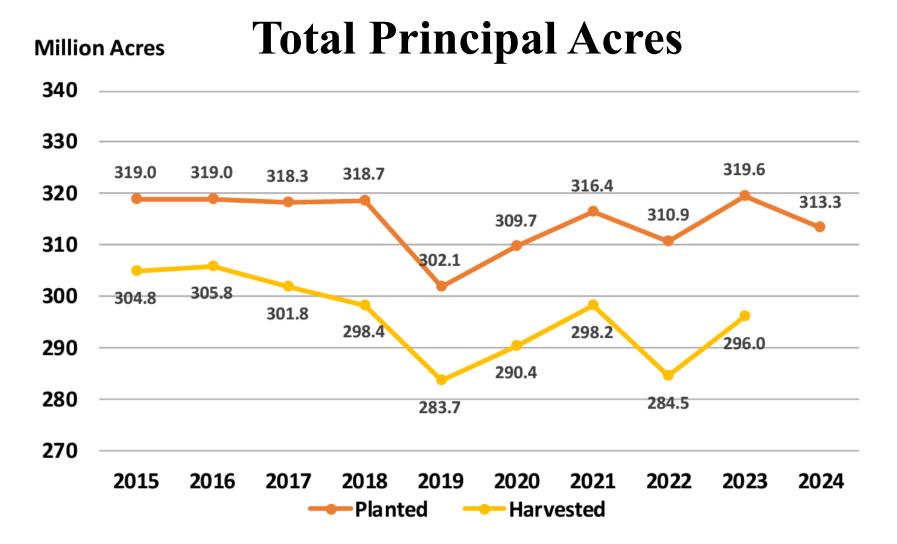


- Historically, the March planting intentions report has been a good indicator of final planted acres.
- It is the first part of the bid/ask negotiations of the market and farmers.
- While prices and relative profitability get all the headlinesweather has the biggest say in final acreage numbers.



Total
Surveys71,845
producers

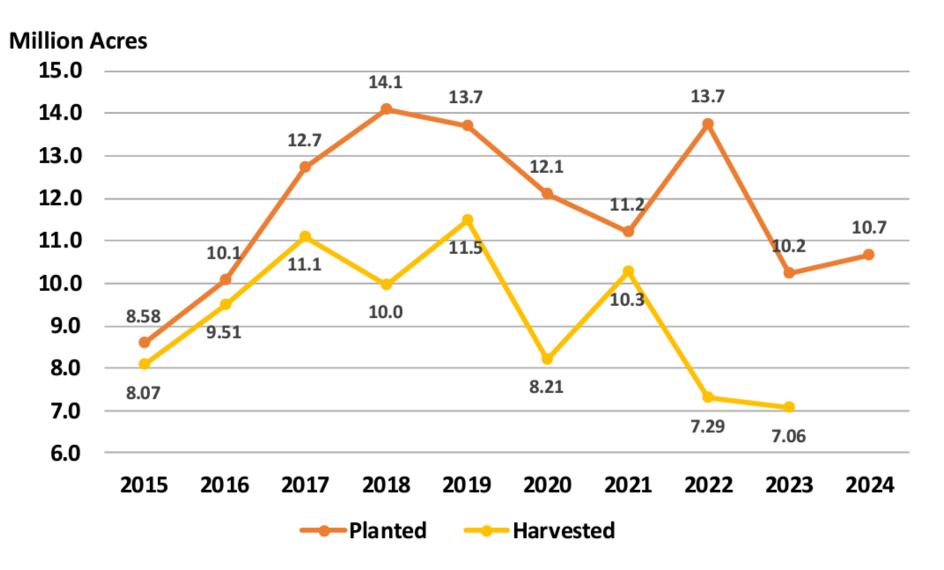
USDA 2024 Prospective Plantings (million acres)					
	USDA Mar.	Average Trade	Estimate	USDA Ag	
	2024	Estimate	Range	Forum	
Corn	90.036	91.776	90.000-93.472	91.00	
Soybeans	86.510	86.530	85.350-88.00	87.500	
All Wheat	47.498	47.330	46.200-49.982	47.000	
Winter Wheat	34.135	34.870	34.000-38.370	34.425	
Other Spring	11.335	10.891	10.100-11.320		
Durum	2.028	1.652	1.133-1.800		



Producers must have listened to the last MU Extension Ag Outlook Webinar on Crop Budgets & Profitability and got the message to decrease acreage.

Principal Acreage includes corn, sorghum, oats, barley, rye, winter wheat, Durum wheat, other spring wheat, rice, soybeans, peanuts, sunflower, cotton, dry edible beans, chickpeas, potatoes, millet, canola, tobacco, sugarcane, rye, and hay.

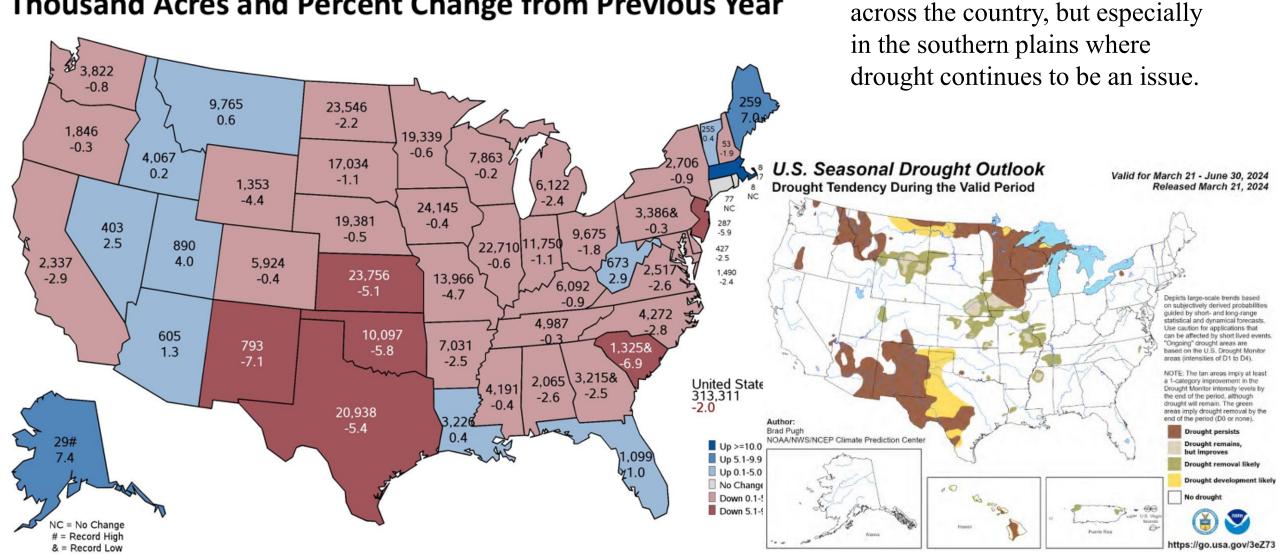
Total Cotton Planted and Harvested Acres



Drought in the southern plains of Oklahoma and Texas the last couple years has had a huge impact on harvested acres relative to planting.

Our expectation is for a more normal difference between planted and harvested.

2024 Principal Crops Planted Thousand Acres and Percent Change from Previous Year

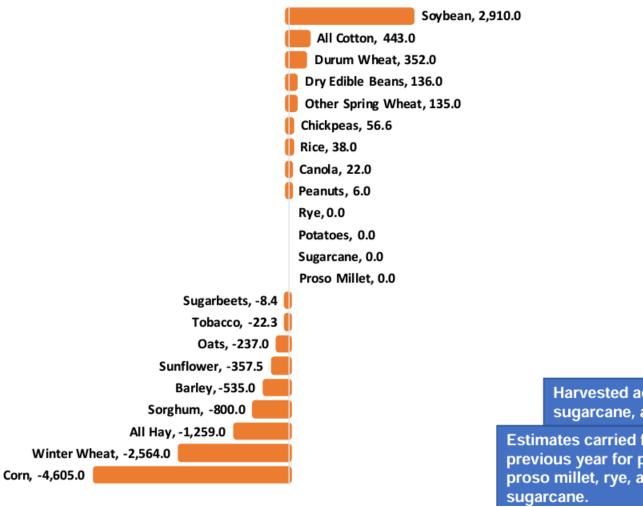


Principal crop acreage was down



2024 Principal Crops Planted Acreage Change (000) from 2023





Harvested acres for hay, sugarcane, and tobacco.

Estimates carried forward from previous year for potatoes, proso millet, rye, and

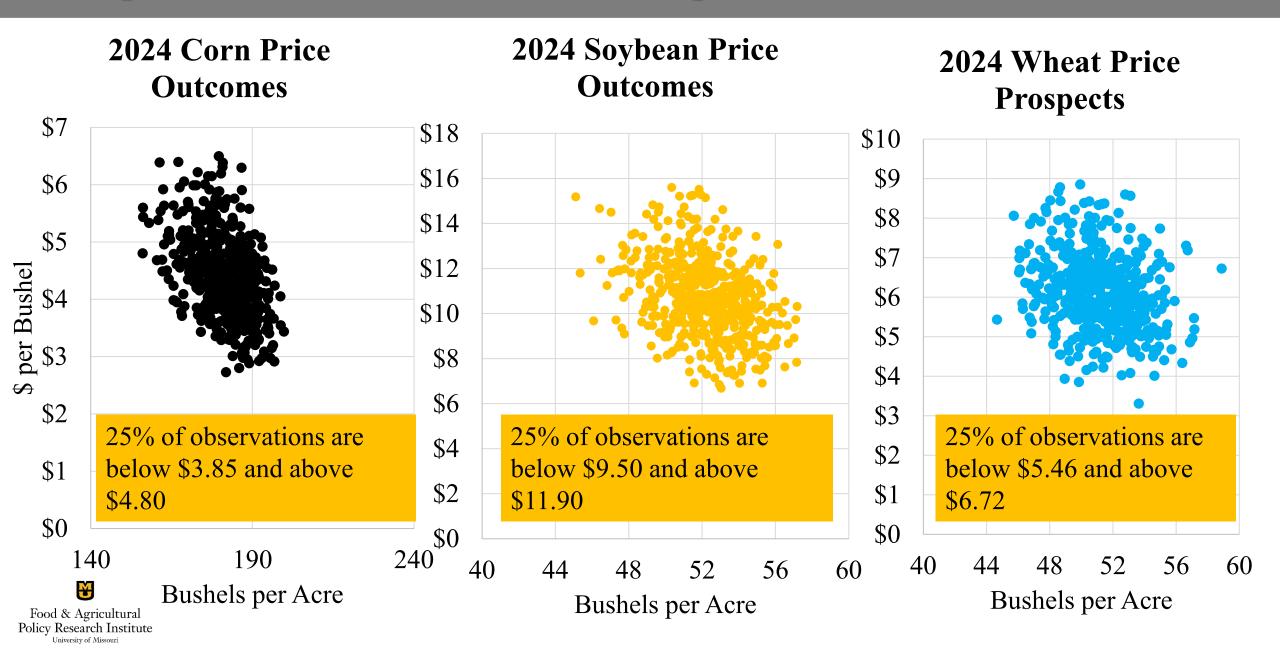
Crop Outlook: Price Prospects

	2018-2022 average	2018	2019	2020	2021	2022	2023	2024	Percent Change
Corn (\$/Bu.)	4.85	3.61	3.56	4.53	6	6.54	4.78	4.38	-8%
All Rice (\$ cwt)	15.18	12.6	13.6	14.4	16.1	19.2	18.09	15.19	-16%
Sorghum (\$/bu.)	4.70	3.26	3.34	5.04	5.94	5.94	4.83	4.00	-17%
Soybeans (\$/bu.)	11.07	8.48	8.57	10.8	13.3	14.2	12.68	10.69	-16%
Upland Cotton (\$/lb)	0.74	0.7	0.6	0.66	0.91	0.85	0.76	0.68	-11%
Wheat (\$/bu.)	6.25	5.16	4.58	5.05	7.63	8.83	7.19	6.11	-15%
Barley (\$/bu.)	5.35	4.62	4.69	4.75	5.31	7.4	7.44	6.25	-16%
Oats (\$/bu.)	3.47	2.66	2.82	2.77	4.55	4.57	3.69	3.44	-7%
									Y

Source: FAPRI-MU

Food & Agricultural Policy Research Institute University of Missouri

Crop Outlook: Price Prospects



Crop Outlook: Price Prospects

Corn yield and farm price

Yield range	Average yield	Average price	Price range
(D11-		(D. II	11
(Bushels	per acre)	(Dollars pe	er bushel)
154 - 162	158.9	5.42	4.61 - 6.52
162 - 170	166.6	4.86	3.68 - 6.60
170 - 178	174.7	4.73	3.38 - 6.32
178 - 186	182.1	4.38	2.65 - 6.52
186 - 194	189.0	4.04	2.83 - 6.40
194 - 202	195.9	3.69	2.84 - 4.63

Soybean yield and farm price, 2024/25

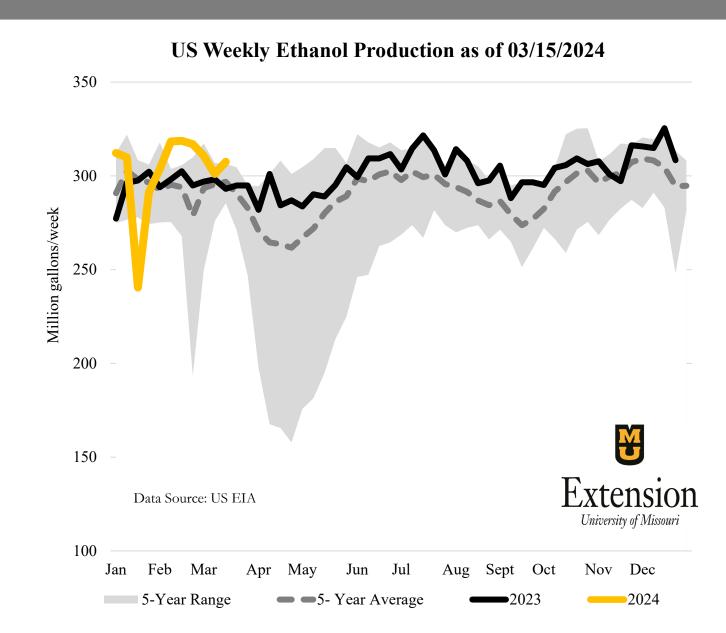
Yield range	Average yield	Average price	Price range
range	yieid		
(Bushels	(Bushels per acre)		er bushel)
45-47	46.0	12.51	9.62 - 15.30
47 - 49	48.1	11.79	9.07 - 14.64
49 - 51	50.2	11.36	8.01 - 15.61
51 - 53	52.1	10.79	6.81 - 15.61
53 - 55	53.9	10.20	6.67 - 14.71
55 - 58	55.8	9.53	6.87 - 13.21





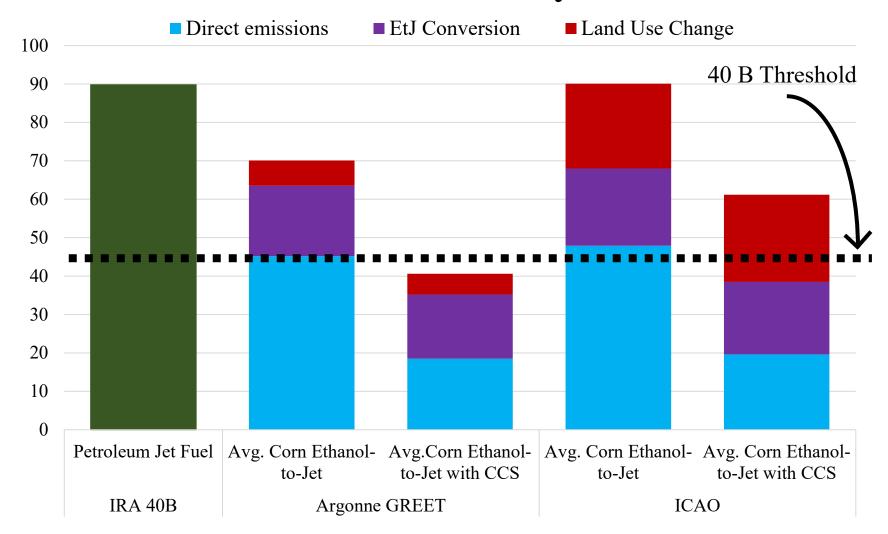
Corn Demand: Domestic gasoline and ethanol use

- ☐ Since 2010, almost all gasoline sold in U.S. is a 10% ethanol blend
- ☐ Gasoline use dropped in 2020 with pandemic, only partially recovered
- Could slide in the future with adoption of electric vehicles
- ☐ Thus, will require some higherlevel blends just to hold current ethanol use levels



Corn Outlook: Where the Rubber Meets the Road

GREET Vs. ICAO: Why it Matters

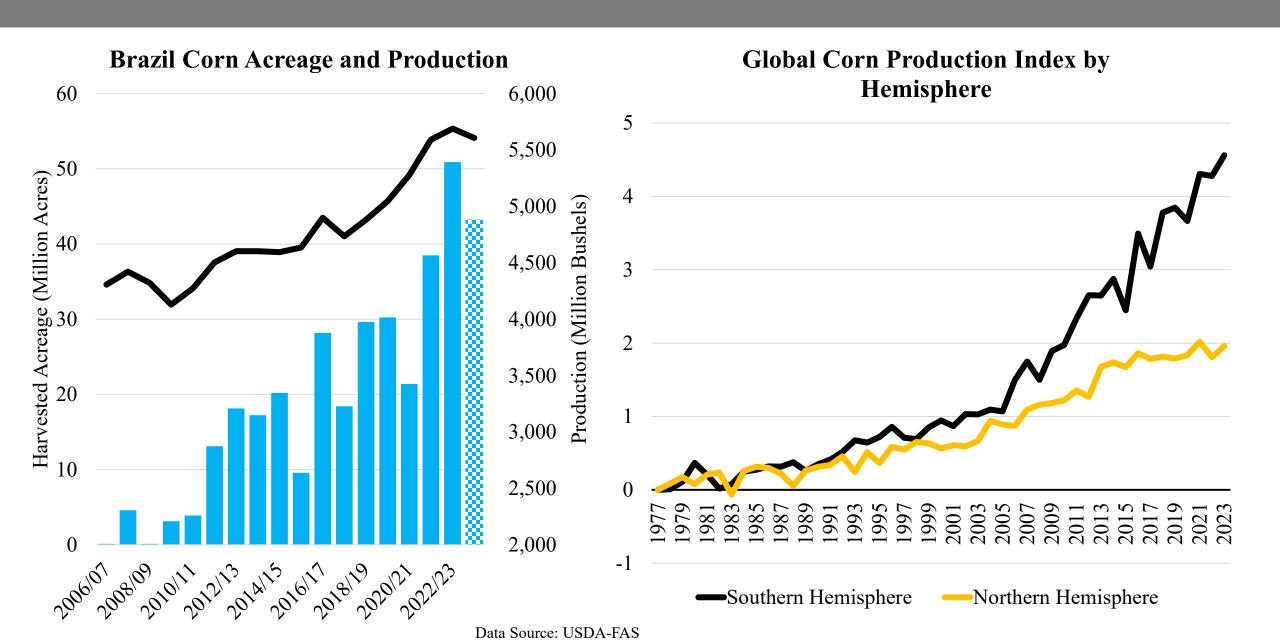


Questions:

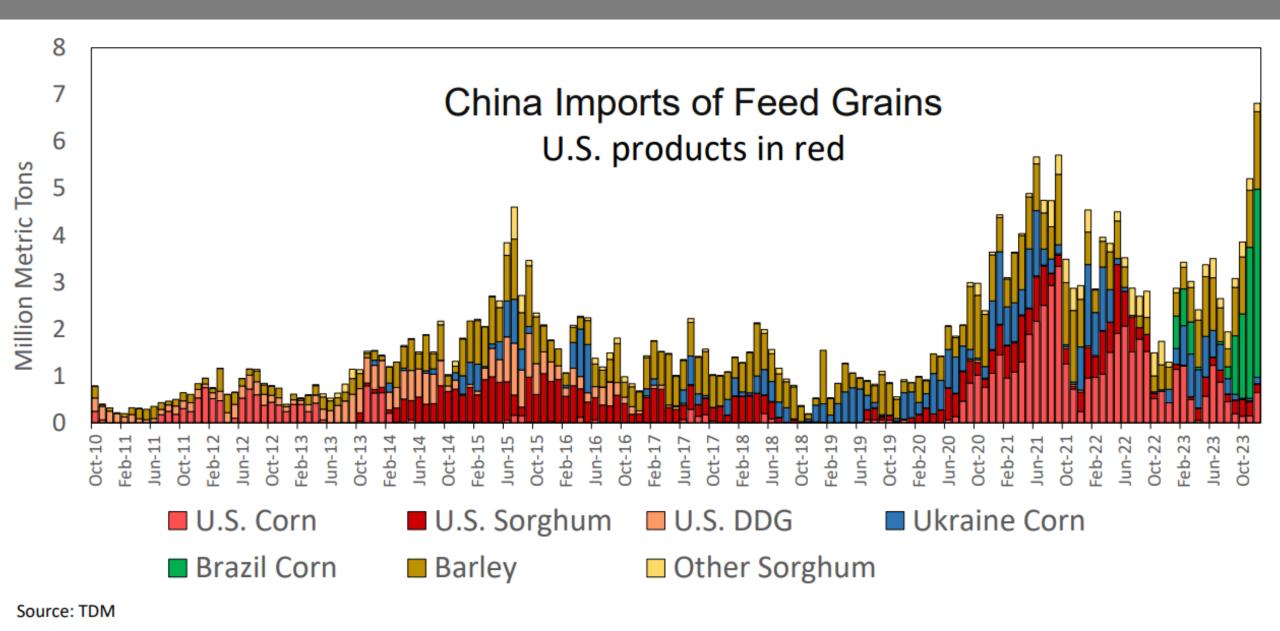
- How will IRA tax credits (40B, 45Z) be implemented?
- Will we see continued push for reductions in tailpipe emissions and state EV mandates?
- Will CCUS projects get final approval and move forward?
- What happens with presidential election?



Corn Outlook: South America Production Growth

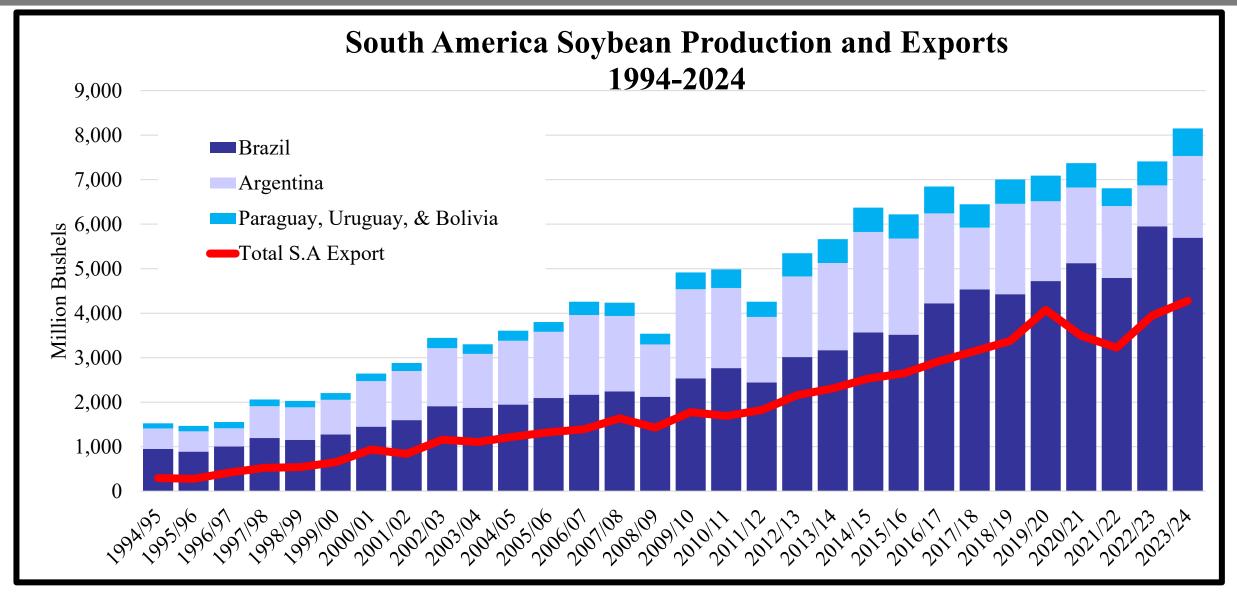


Corn Outlook: China lifts restrictions on Brazil Corn



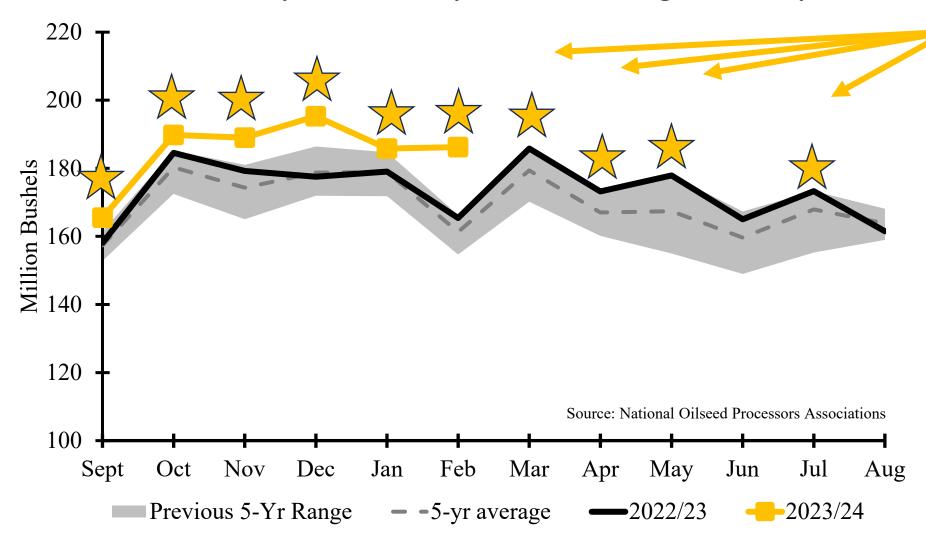


Soybean Outlook: South America Production



Soybean Outlook: Growth in Crush





10 of the last 12 months have set new monthly soybean crush records.

- ☐ The expectation is 2023/24 will be a big soybean crush year.
- ☐ The demand for soybean oil has been extremely high this year as more and more gets used for renewable fuels.
- ☐ However, soybean crush might be starting to exceed soybean oil demand.

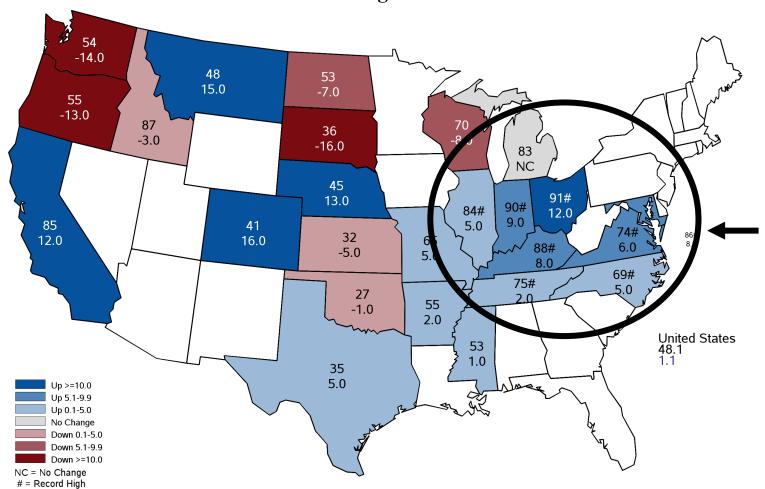
Soybean Outlook: Selling Opportunity





US Wheat: The Many Stories of Wheat

August 2023 Winter Wheat Yield Bushels and Change from Previous Year



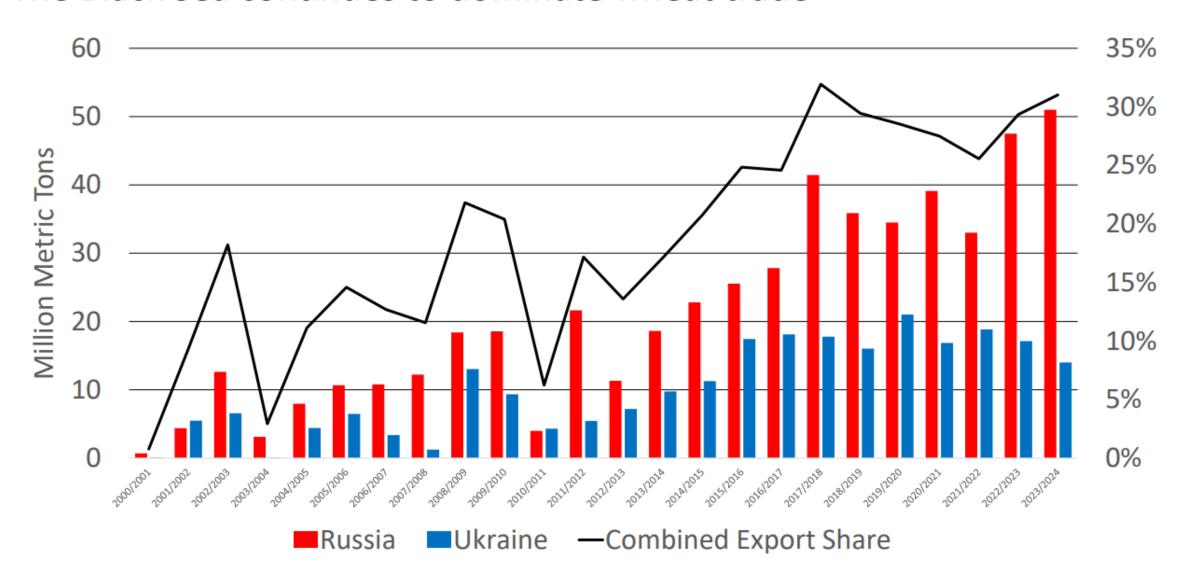
The majority of the Soft Red Winter Wheat production region had just outstanding yields.

USDA-NASS Aug. Production Report

& = Record Low

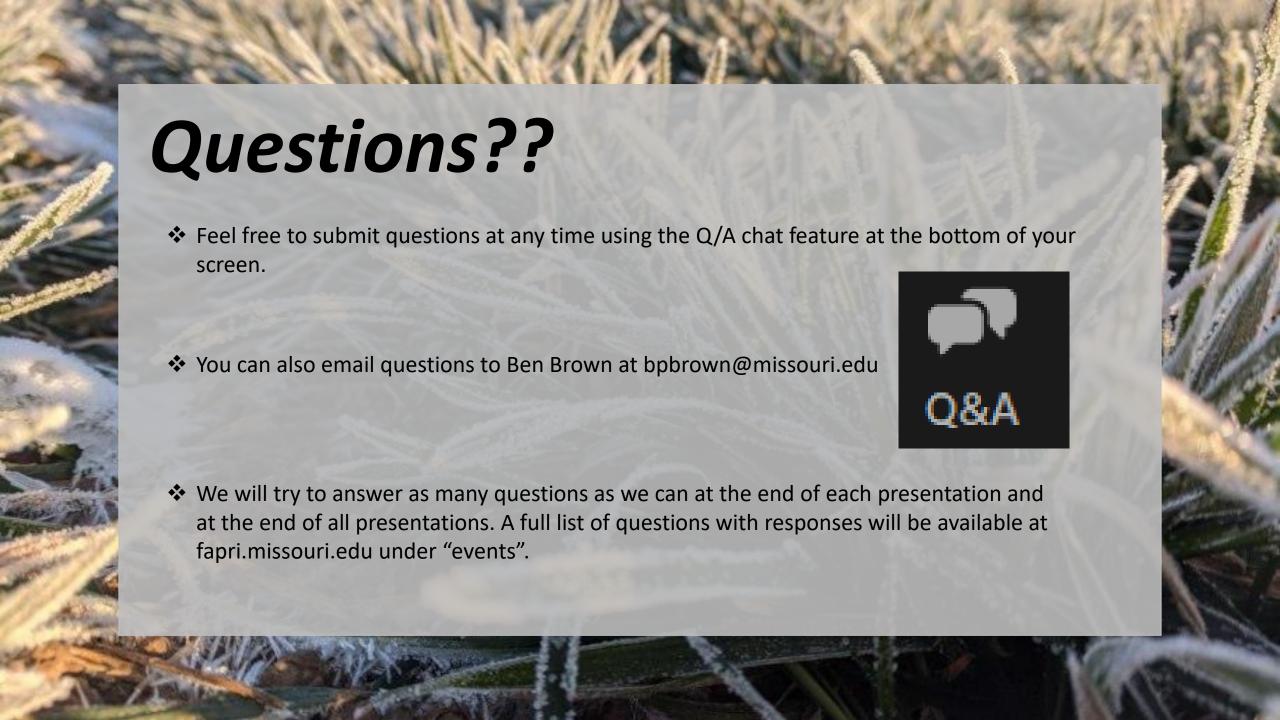
US Wheat: The Many Stories of Wheat

The Black Sea continues to dominate wheat trade



Crop Summary

- □ It might seem hard to believe- but the US produced a **RECORD** corn crop in 2023. What happens in 2024 if we have *average* weather?
- □ Total principal crop acreage fell 6.3 million acres in 2024 with corn and soybean combined acreage down 1.7 million acres year over year helps improve chances of profitability in 2024/25.
- □ Renewable diesel continues to build out. The process has largely followed the ethanol boom of the mid 2000s with setbacks from time to time, but the market is growing. States like Massachusetts and New York will be important states to watch.
- Outside adverse weather, prices are moderating back to equilibrium and putting pressure on operations to find cost savings on the input side.
- □ Coordination within the supply chain likely creates opportunities and challenges to come.





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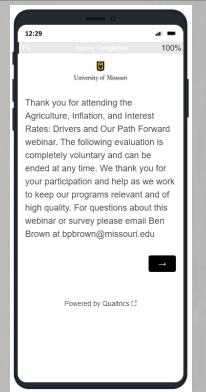


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Thank you!



This program is possible due to the work of the presenters, the Food and Agricultural Policy Research Institute, the Rural and Farm Finance Policy Analysis Center, and MU Extension.

All conference materials and presentations will be available at fapri.missouri.edu for any comments about the conference please email Ben Brown at bpbrown@missouri.edu.