2024 CROP ENTERPRISE BUDGET UPDATE March 19 | 11 a.m.-12 p.m. CST

Ben Brown University of Missouri Chris DeMoss MFA Incorporated Jordan Tomlinson MFA Incorporated

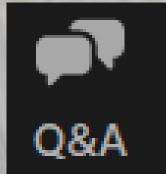
> University of Missouri Food & Agricultural Policy Research Institute Rural & Farm Finance Policy Analysis Center

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Questions??

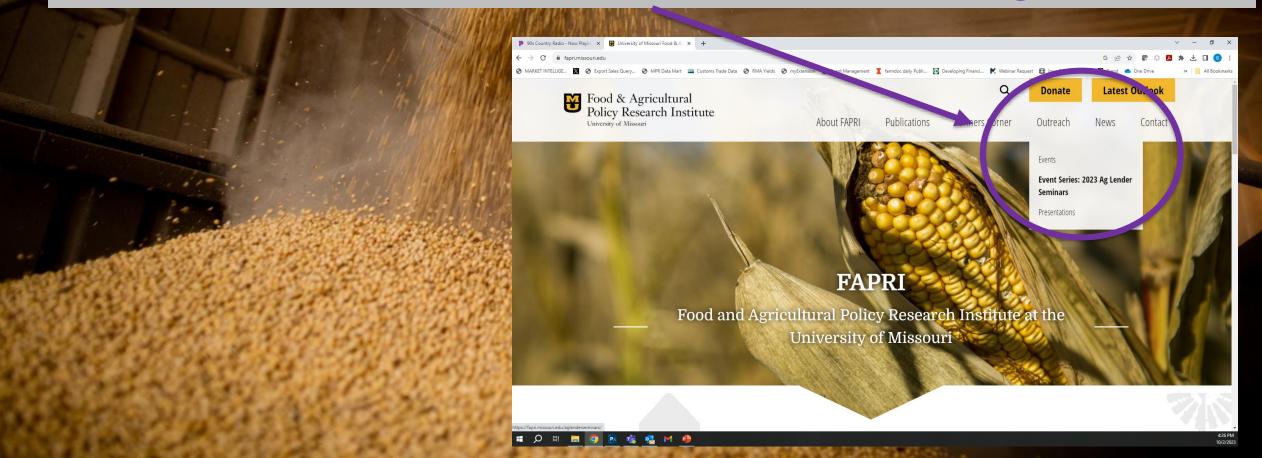
- Feel free to submit questions at any time using the Q/A chat feature at the bottom of your screen.
- You can also email questions to Ben at bpbrown@missouri.edu



We will try to answer as many questions as we can at the end. A full list of questions with responses will be available at fapri.missouri.edu under "events".

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 and update on prices for key crop production inputs including seed, crop protection, and fertilizer for 2024 growing season.
- 2. Overview 2024 crop margins and returns above variable costs.
- 3. Highlight opportunities for producers to apply input cost and enterprise analysis in their farm management decisions.



University of Missouri Thank you for attending the Agriculture, Inflation, and Interest Rates: Drivers and Our Path Forward webinar. The following evaluation is completely voluntary and can be ended at any time. We thank you for your participation and help as we work to keep our programs relevant and of high quality. For questions about this webinar or survey please email Ben Brown at bpbrown@missouri.edu

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Share your view of Missouri farm finance conditions in the AG LENDER PULSE SURVEY



- Open to all Missouri agricultural lenders
- Conducted three times annually and takes 10 minutes to respond
- Respondents receive a summary of the results

Spring 2024 survey opens March 12!



Scan to sign up for pulse survey invitations



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

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

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

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Poll Question #1: What is your expectation of producer fertilizer management with lower crop prices?

- A. Decrease fertilizer application rates to decrease costs
- B. Increase fertilizer application rates to seek higher yields
- C. No change to fertilizer management
- D. Unsure



Poll Question #2: Given how warm it was this February, how much anhydrous has been applied in your area?

- A. About normal
- B. More than normal
- C. Less than normal
- D. Unsure

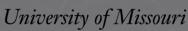


Crop Input Prices and Budgets for Missouri Crop Farmers in 2024

Chris DeMoss

MFA Incorporated





Poll Question #3: What is your current feeling toward the recent District Court ruling on Dicamba herbicide products?

- A. Aware, very concerned
- B. Aware, somewhat concerned
- C. Aware, not concerned
- D. Unaware of ruling
- E. Unsure





Crop Input Prices and Budgets for Missouri Crop Farmers in 2024

Jordan Tomlinson

MFA Incorporated

Crop Input Prices and Budgets for Missouri Crop Farmers in 2024

Ben Brown University of Missouri





2024 Crop Budgets

2024 ENTERPRISE BUDGETS

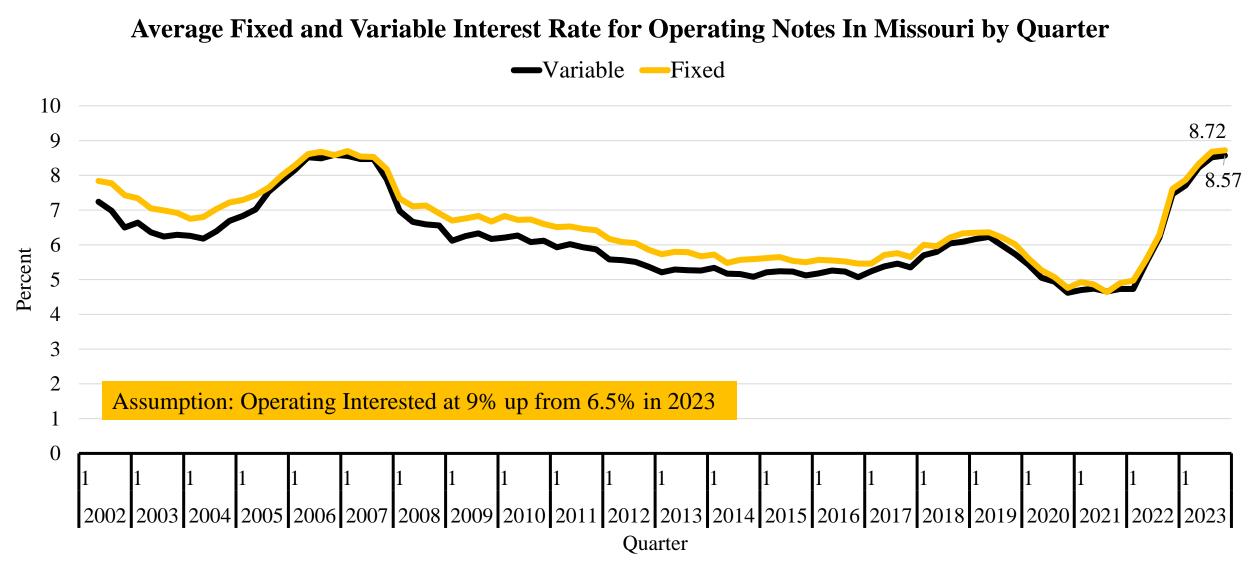
Manage costs and project revenue for the coming year with more than 30 free, state-specific budgets and calculators





an equal opportunity/ADA institution

Economy: Cost of Capital



Source: Kansas City Fed

Economy: High Interest Rates for Longer

CME FEDWATCH TOOL - MEETING PROBABILITIES								
MEETING DATE	350-375	375-400	400-425	425-450	450-475	475-500	500-525	525-550
3/20/2024			0.0%	0.0%	0.0%	0.0%	1.0%	99.0%
5/1/2024	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.2%	94.7%
6/12/2024	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%	55.7%	41.3%
7/31/2024	0.0%	0.0%	0.0%	0.0%	1.2%	24.7%	49.8%	24.3%
9/18/2024	0.0%	0.0%	0.0%	0.9%	17.7%	42.2%	31.3%	7.3%
11/7/2024	0.0%	0.0%	0.4%	8.8%	29.2%	37.4%	20.3%	3.9%
12/18/2024	0.0%	0.3%	5.8%	21.9%	34.5%	26.4%	9.8%	1.4%
1/29/2025	0.1%	3.0%	13.8%	28.2%	30.5%	18 1%	5.6%	0.7%
Ouestion • How can we modernize 1								

8.4%

1.6%

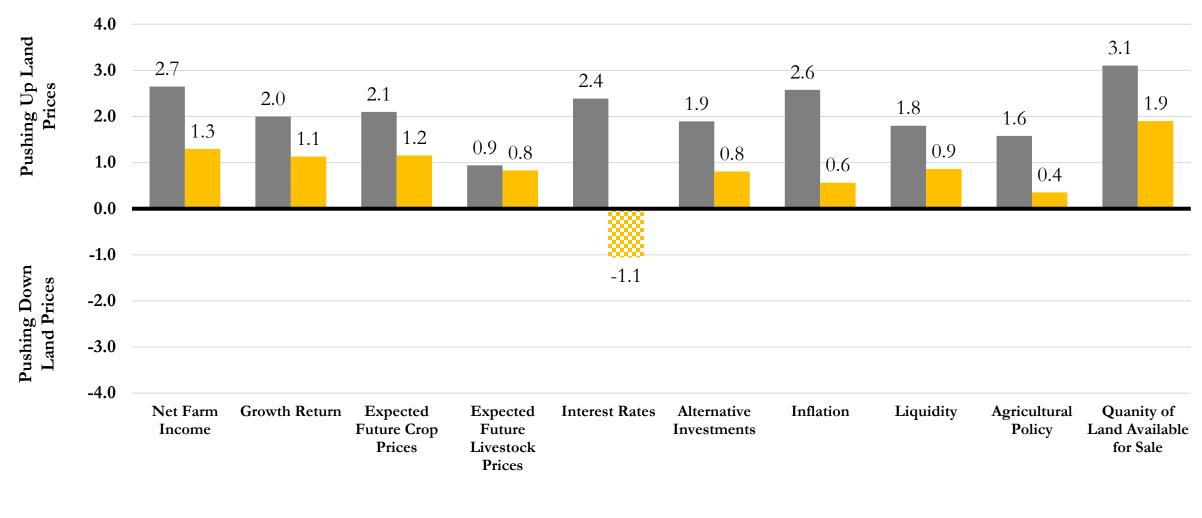
Source: CME Group 3/18/24

3/19/2025

 21.0%
Question: How can we modernize lessons of 1980 for today's managers? Liquidity and solvency ratios analysis, interest expenses, grain storage, higher breakeven levels on investments...

Economy: Land Values

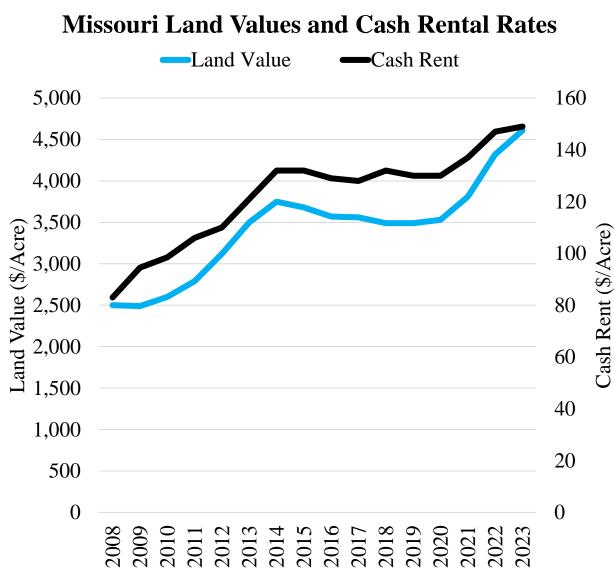
Factors Impacting Land Values: 2021 & 2022



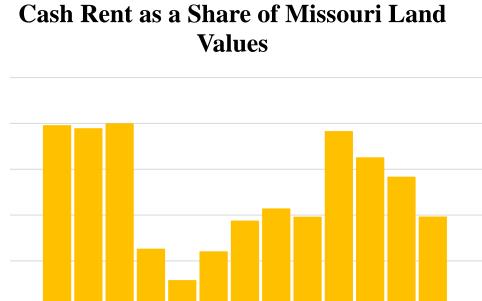
■ 2022 Values

2023 Values

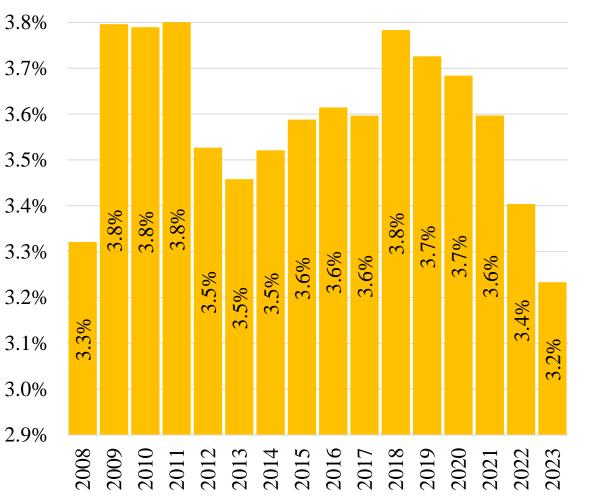
Economy: Land Values



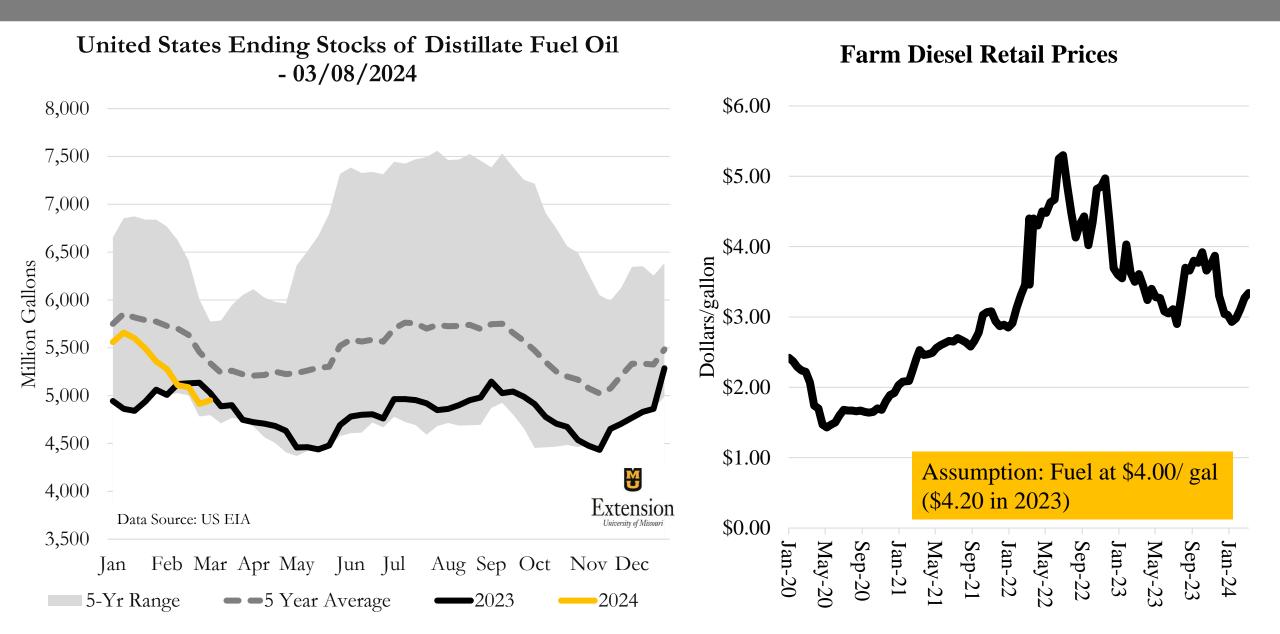
Author Calculation Using Data from USDA NASS



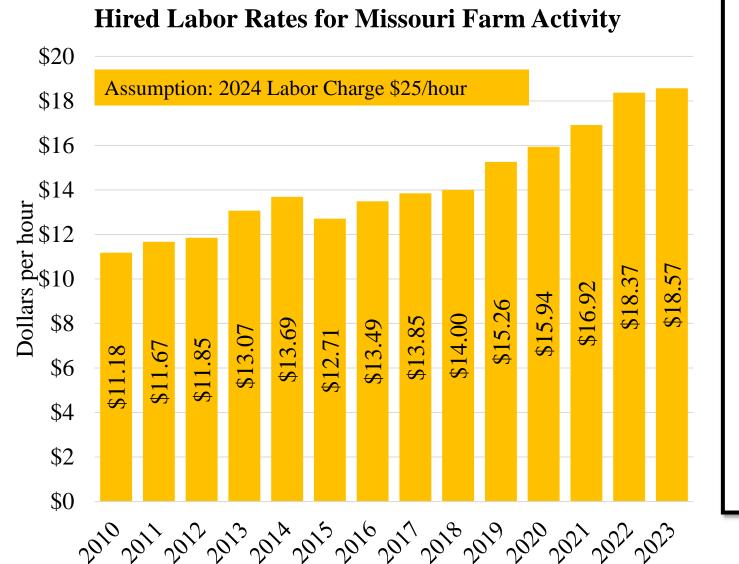
3.9%



Input Costs:



Input Costs: Labor and Custom Rates



Extension

Custom Rates for Farm Services in Missouri

The rates reported in this guide summarize a statewide survey conducted online and by solicitations of University of Missouri Extension specialists in the spring of 2023. We asked farmers, agribusiness firms and land improvement contractors to provide the rates they were charging or paying in 2022 for custom services, excluding the cost of materials being applied. Thank you to those who provided information — even if it was just for one activity.

Fewer people respond to this survey every time it is taken – every three years. There may be fewer farmers using custom operators or fewer businesses conducting custom activities. But it is still a very popular Extension guide.

The number of responses to many questions asked was too low to have statistical confidence in the results. However, the results presented here have been compared to custom rates guides in Iowa to see if our rates are in line with their rates. These results have also been compared to previous custom rates surveys to see if the direction and magnitude of changes seems reasonable.

There is no assurance that the average rates reported in this guide will cover your costs for performing the service or that you will be able to hire a custom operator in your area for the rates shown.

Calculate your own costs carefully before deciding the rate to charge or pay. Before entering into an agreement, discuss with the other party all the details of the specific job to be performed.

Custom rates cover the cost of machinery, fuel, labor and, occasionally, a product such as lime or bale wrap. The USDA reports that machinery values and labor costs have increased by about 23 percent and 18 percent, respectively, since our last custom rate survey in 2019. Diesel prices have increased by 38 percent in the last three years. This increase in the costs of inputs into custom activities suggest that custom rates should have increased over the past several years.

Explanation of the rates in this guide

Rates in this guide reflect each respondent's judgment of a "normal" job. Operators may add charges if they consider a job abnormal, such as distance from the operator's base location, the amount of product or labor involved, the difficulty of the terrain, or special requirements of the customer or location.

²The "Number reporting" and "Range of responses" columns are important. They indicate the number of responses for that activity and the variation in those responses. A small number of responses combined with a large range of responses means that there is less confidence in those results. The "Average rate" column indicates the average charge for all of the rates in that row. The "Median rate" had an equal number of responses higher and lower.

As in past years, this guide reports the average rate, and the low, mid and high rates reported by those providing responses. When few responses are averaged, a single response can move the average a lot. In this situation, the extremes may have unduly influenced the average reported. The range of responses also give the user an idea of how variable the rates charged for field activities might be.

Possible explanations of the wide ranges are the type or size of equipment used, the mix of labor and equipment used, or different business objectives of full-time custom operators compared to local farmers supplementing their income.

Source: Drew Kientzy- MU Extension (g302)

Farm Income: Corn Returns

Missouri corn planning budgets, 2024

Category	Irrigated per acre	Dryland per acre
Yield	220	168
Income		
Grain sales	924	705
Costs		
Seed	106	99
Fertilizer	201	163
Other operating costs	357	271
Ownership costs	379	295
Total costs	1,043	828
Income over total costs	(\$119.53)	(\$122.38)
Breakeven price/bushel	\$4.74	\$4.94

\$4.20 market price

Dryland corn change from previous year

	2024	2023	% chg.
Income/acre	705	1,003	-29%
Operating costs/acre	533	602	-11%
Ownership costs/acre	295	262	+13%
Total costs/acre	828	864	-4%
Breakeven/bushel	\$4.94	\$5.08	-3%

Farm Income: Soybean Returns

Missouri soybean planning budget, 2024

Category	Dryland per acre
Yield	55
Income	
Grain sales	615
Costs	
Seed	56
Fertilizer	75
Other operating costs	194
Ownership costs	257
Total costs	581
Income over total costs	34
Breakeven price/bushel	\$10.57

\$11.19 soybean market price

Change from previous year

	2024	2023	% chg.
Income/acre	615	699	-12%
Operating costs/acre	325	346	-6%
Ownership costs/acre	257	240	+7%
Total costs/acre	581	586	-1%
Breakeven/bushel	\$10.57	\$10.65	-1%

Farm Income: Wheat and Double Crop Returns

Missouri planning budgets, 2024

Category	Wheat per acre	DC Beans per acre
Yield	65	35
Income		
Grain sales	407	392
Costs		
Seed	48	72
Fertilizer	105	39
Other operating costs	144	123
Ownership costs	211	56
Total costs	507	290
Income over total costs	(100)	102
Return to land and mgt.	57	114

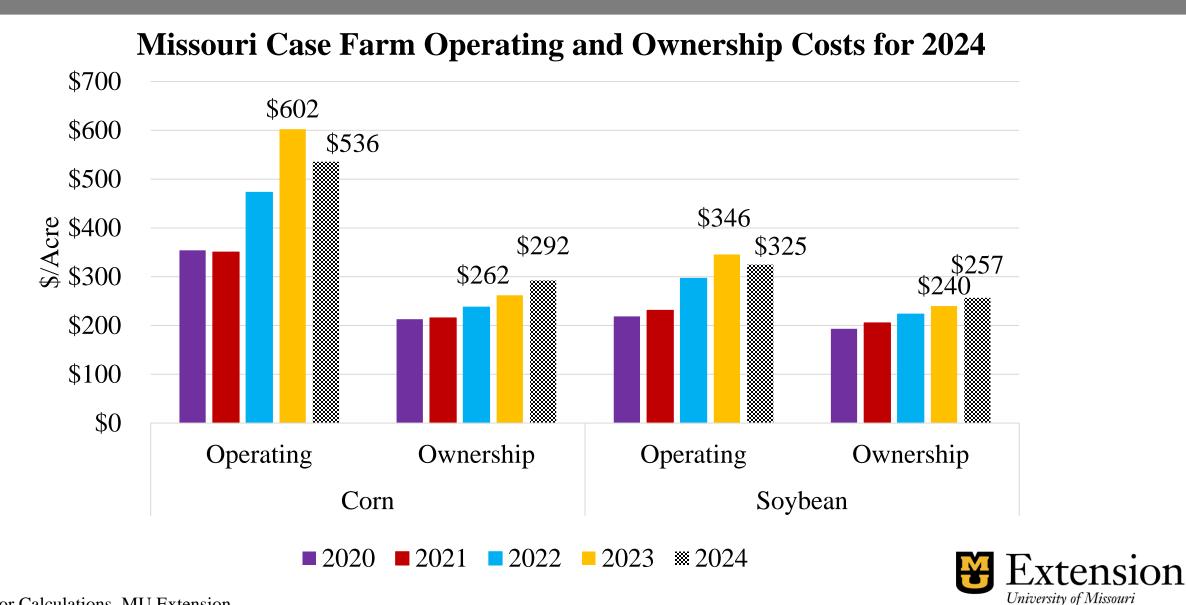
Market price in each budget

- \$6.26 per wheat bushel
- \$11.19 per soybean bushel

Wheat change from previous year

	2024	2023	% chg.
Income/acre	407	542.00	-25%
Operating costs/acre	297	314.94	-6%
Ownership costs/acre	211	203.56	3%
Total costs/acre	507	518.50	-2%
Breakeven/bushel	7.80	7.98	-2%

Farm Income: Cost Structure



Author Calculations, MU Extension

Crop Budgets: Key Takeaways

- 1. Expectations are for Missouri crop costs to decrease slightly in 2024. Ownership costs like, cash rent, labor and interest are all up year over year.
- Returns to land are down across the board from expectations last spring due to lower prices. Returns to land from actual 2023 production aren't terribly different on lower 2023 yields for most of Missouri.
- 3. Soybean profitability is expected to outperform corn profitability strongly in 2024 with average yields.
- 4. Current expectations are that ARC and PLC could trigger roughly \$10 per acre payments for the 2024 crop on lower returns and prices, but those payments will not be made until fall of 2025 if realized.
- 5. At current crop prices and average yields, Missouri crop producers will work through liquidity in 2024.



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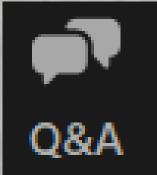
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2024 CROP MARKETS AND WEATHER OUTLOOK March 29 | 1-2 p.m. CST

Ben Brown University of Missouri Zachary Leasor Missouri Climatology Office

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Thank you!



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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.