CORN & SOYBEAN OUTLOOK UPDATE OCTOBER 14, 2022

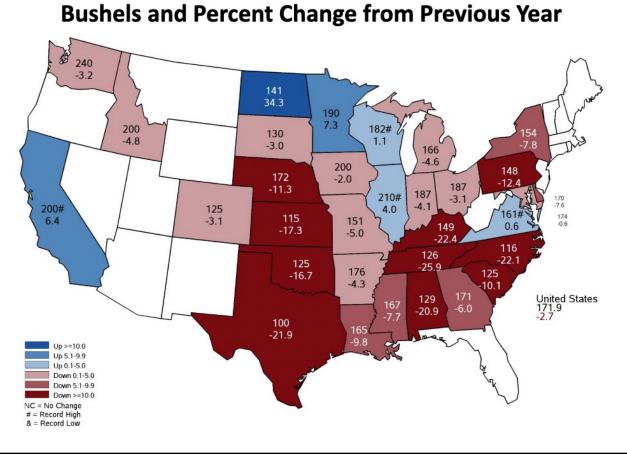
James Mintert, Professor & Director, Center for Commercial Agriculture

Nathan Thompson, Associate Professor, Department of Agricultural Economics

Michael Langemeier, Professor, Department of Agricultural Economics



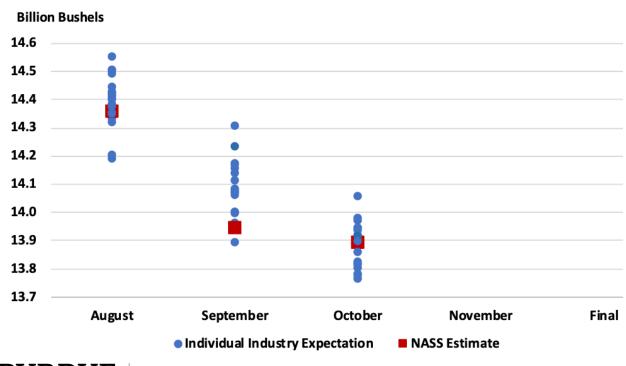
October 2022 Corn Yield



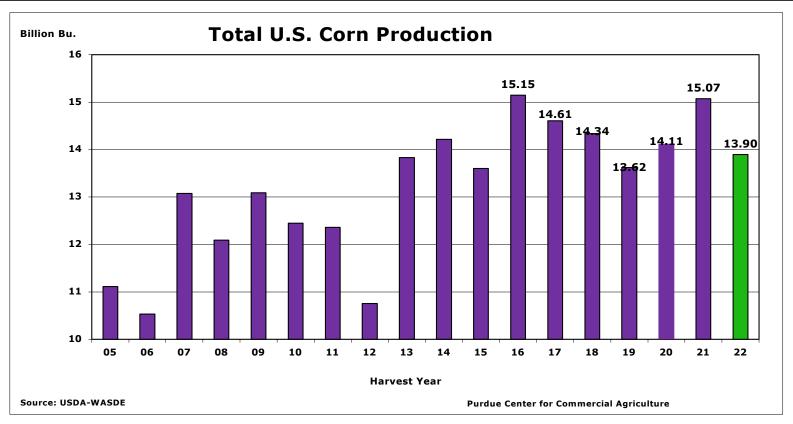


2022 U.S. Corn Production

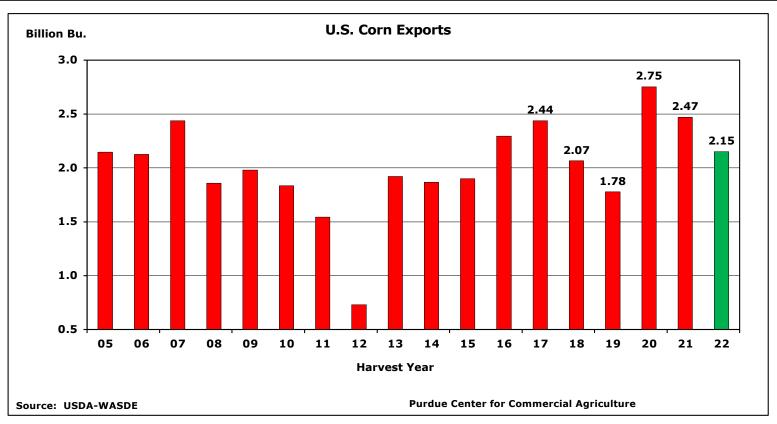
Industry Expectations vs NASS



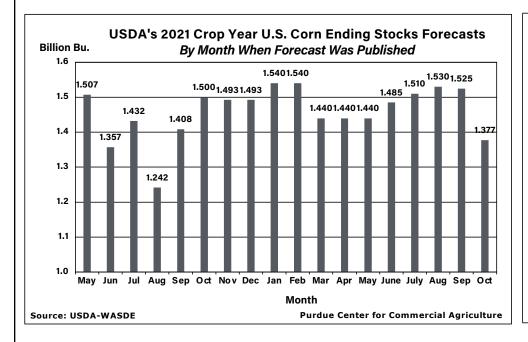


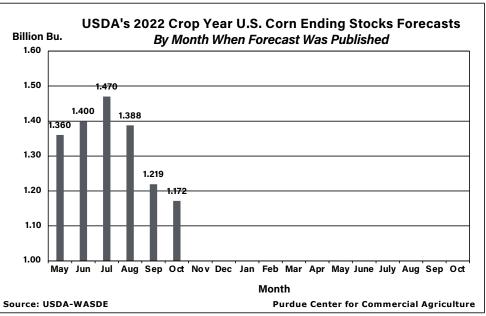




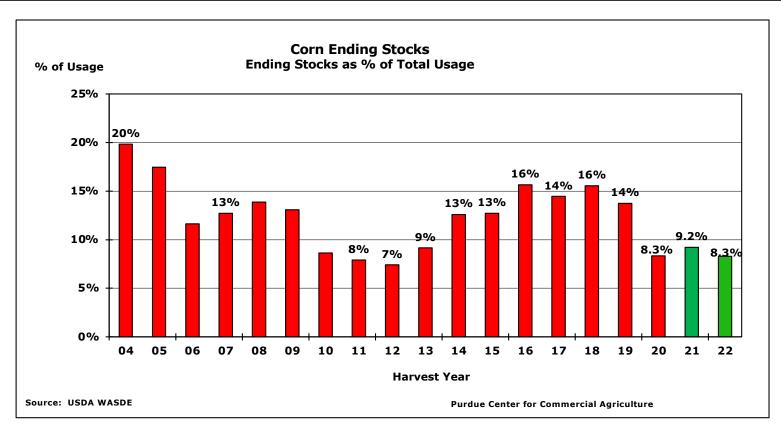




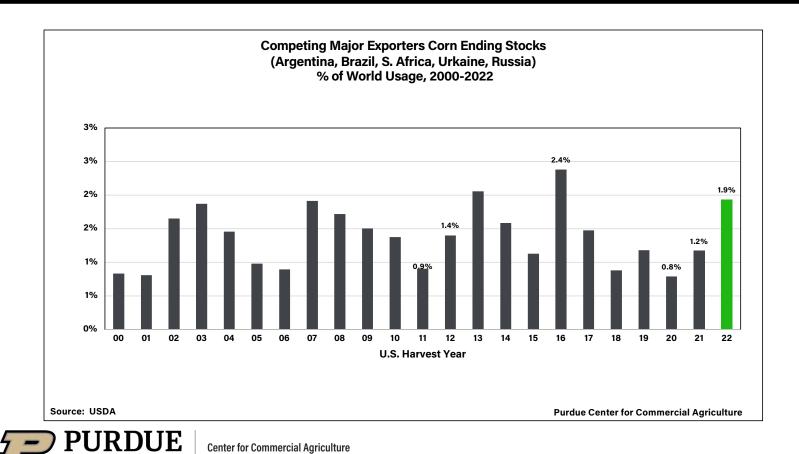












Storage opportunities for corn?

Cash Forward Contract Corn Bids East Central Indiana



- -Cash Bid
- —Current Bid + On-Farm Storage Cost (\$0.01/bu/mo) + Opportunity Cost (6% APR)
- → Current Bid + Commercial Storage Cost (\$0.04/bu/mo) + Opportunity Cost (6% APR)



Corn basis - Central Indiana - 3 year average

Purdue Center for Commercial Agriculture Crop Basis Tool

Corn: IN CENTRAL Region, Nearby Basis, Weekly Avg. of Selected Historical Crop Years [2019–2020,2020–2021,2021–2022] vs. Current Crop Year



→ Historical Nearby Basis, Avg of Selected Crop Years → 2022-2023 Regional Nearby Basis

https://www.purdue.edu/commercialag



Corn basis - Southwest Indiana - 3 year average

Purdue Center for Commercial Agriculture Crop Basis Tool

Corn: IN SW Region, Nearby Basis, Weekly Avg. of Selected Historical Crop Years [2019-2020,2020-2021,2021-2022] vs. Current Crop Year

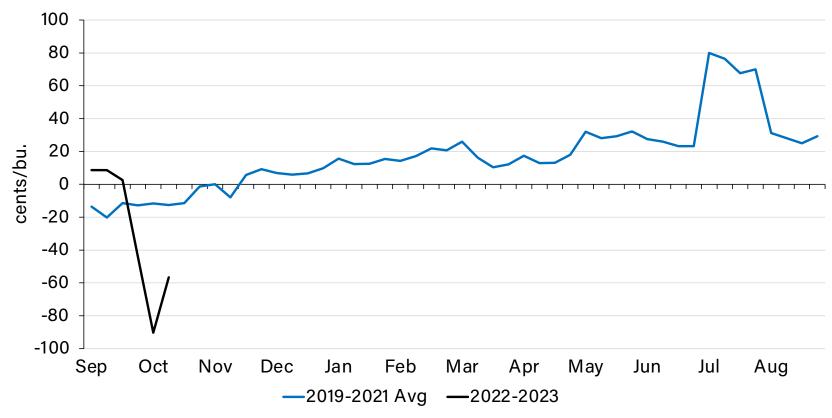


→ Historical Nearby Basis, Avg of Selected Crop Years → 2022–2023 Regional Nearby Basis

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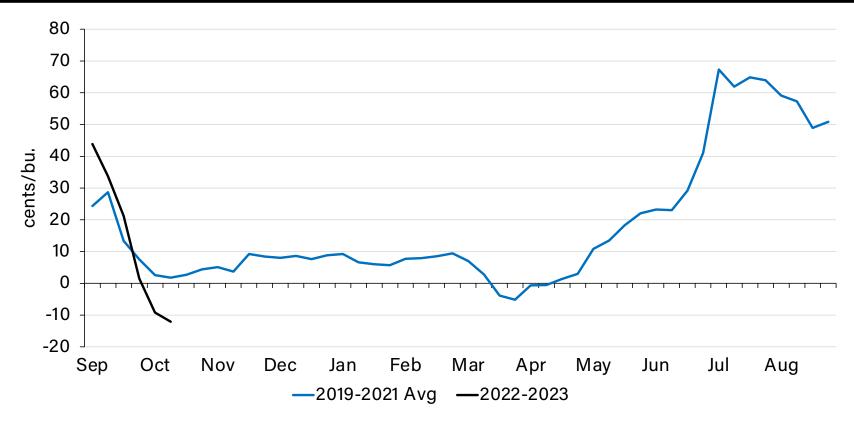


Nearby Corn River Basis-Southern Indiana and Southern Illinois River Terminals





Nearby Indiana ethanol plant basis





New crop corn opportunities?

CBOT Mar. '23 Corn futures	\$7.01
Expected corn basis January '23 in Central IN	+\$0.01
Expected January cash price	\$7.02/bu.

- Think in terms of risk management
- How can you protect favorable price opportunities while leaving open upside potential?





Price at Expiration	Probability Below
\$6.00	13.34%
\$6.25	21.04%
\$6.50	30.45%
\$6.75	40.95%
\$7.00	51.72%
\$7.25	62.01%
\$7.50	71.21%
\$7.75	78.96%
\$8.00	85.14%

March 2023 CBOT Corn Futures



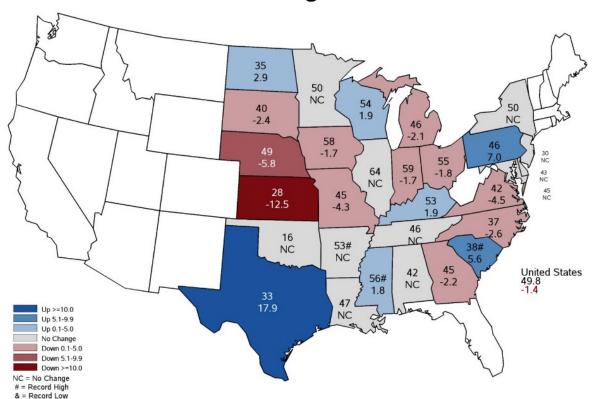
Probability Below	Price at Expiration
5%	\$5.59
15%	\$6.06
25%	\$6.36
35%	\$6.61
45%	\$6.84
50%	\$6.96
55%	\$7.08
65%	\$7.33
75%	\$7.62
85%	\$7.99
95%	\$8.67

The implied distribution indicates that there is a 51.72% probability that the price will be below \$7.00 at expiration.

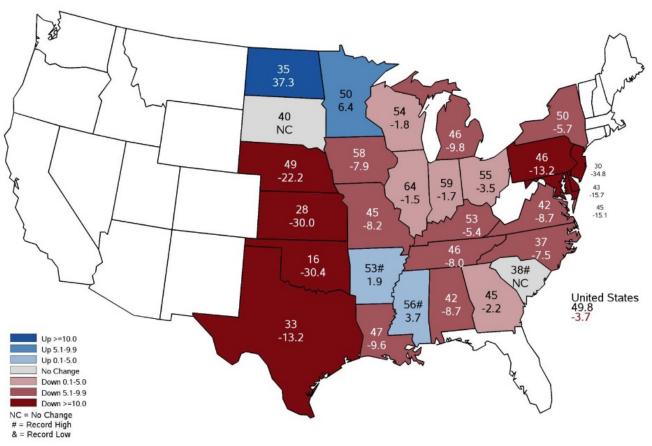
Enter Price to Evaluate: \$ 7.00

October 2022 Soybean Yield

Bushels and Percent Change from Previous Month



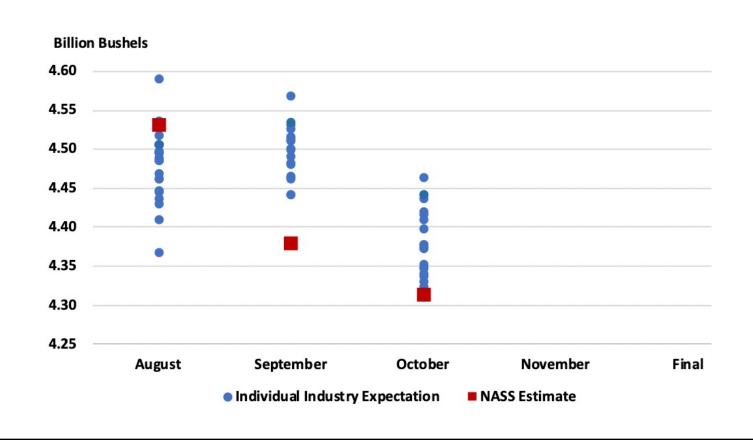


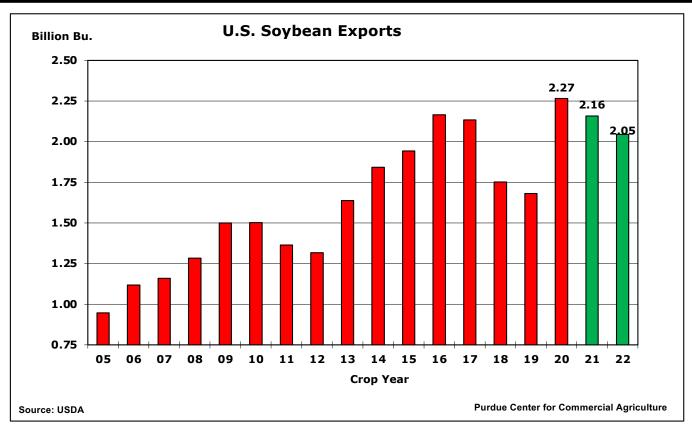




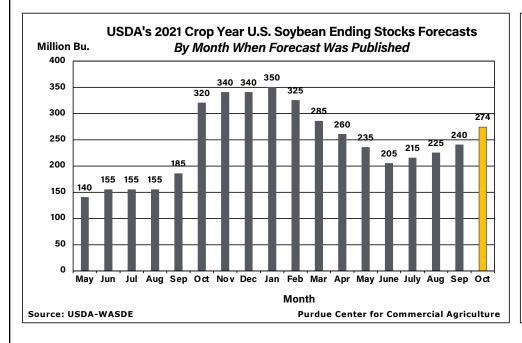
2022 U.S. Soybean Production

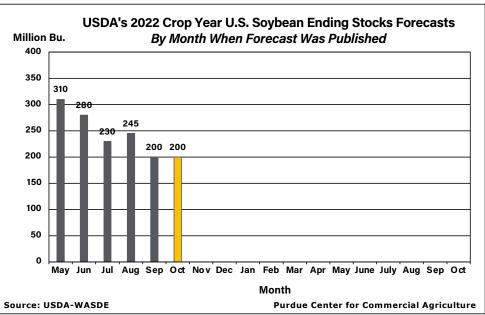
Industry Expectations vs NASS



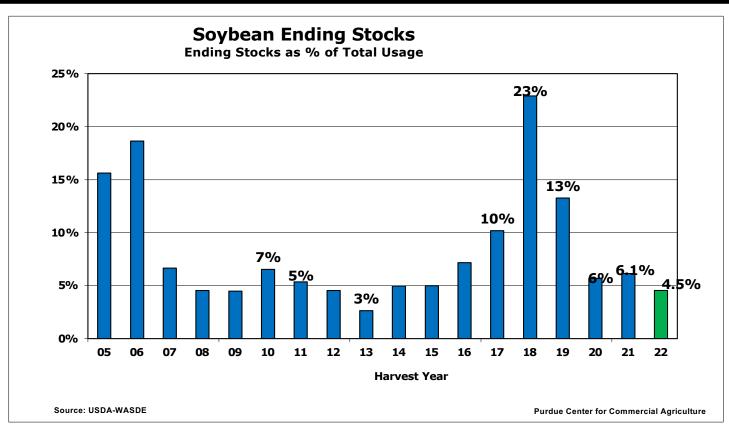




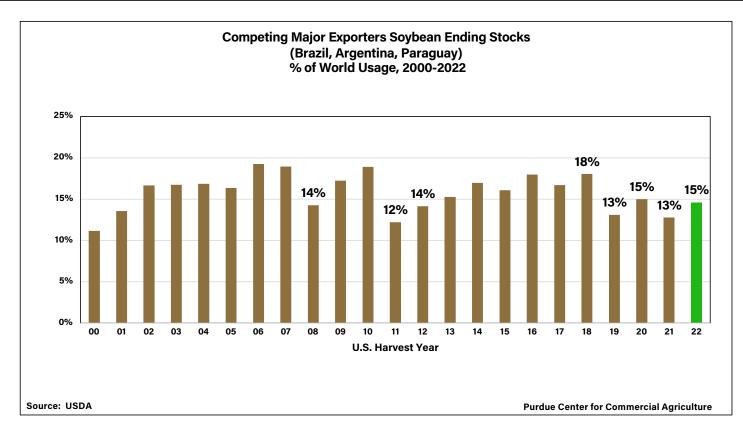




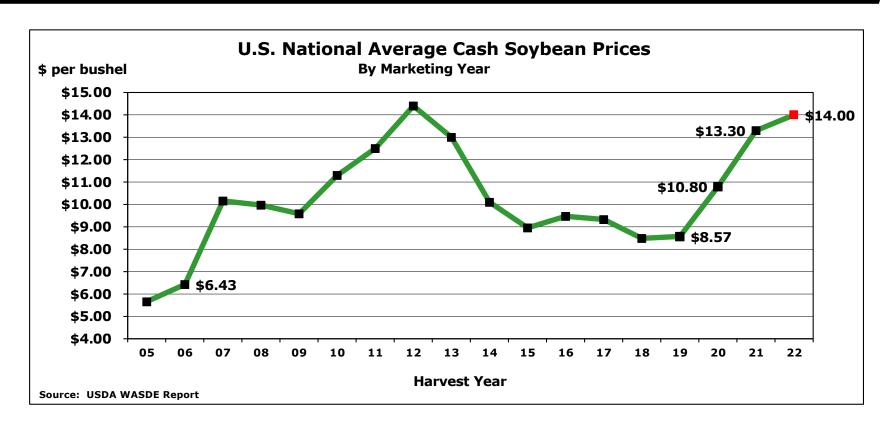








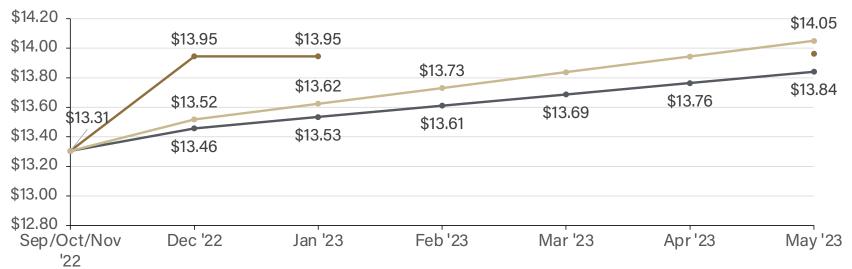






Storage opportunities for soybeans?

Cash Forward Contract Soybean Bids East Central Indiana



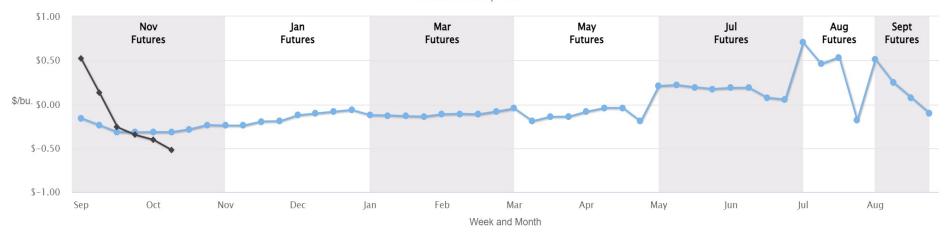
- -Cash Bid
- ← Current Bid + On-Farm Storage Cost (\$0.01/bu/mo) + Opportunity Cost (6% APR)
- → Current Bid + Commercial Storage Cost (\$0.04/bu/mo) + Opportunity Cost (6% APR)



Soybean basis -Central Indiana - 2 year average

Purdue Center for Commercial Agriculture Crop Basis Tool

Soybeans: IN CENTRAL Region, Nearby Basis, Weekly Avg. of Selected Historical Crop Years [2020–2021,2021–2022] vs. Current Crop Year



→ Historical Nearby Basis, Avg of Selected Crop Years → 2022–2023 Regional Nearby Basis

https://www.purdue.edu/commercialag



Soybean basis -Southwest Indiana - 2 year average

Purdue Center for Commercial Agriculture Crop Basis Tool

Soybeans: IN SW Region, Nearby Basis, Weekly Avg. of Selected Historical Crop Years [2020–2021,2021–2022] vs. Current Crop Year

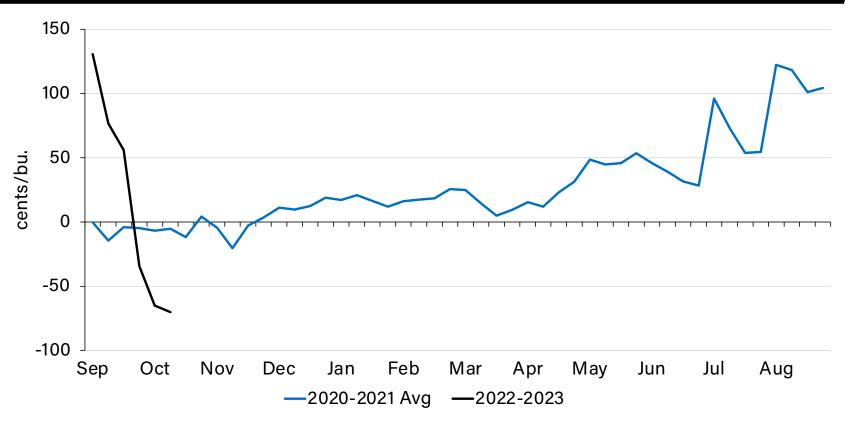


→ Historical Nearby Basis, Avg of Selected Crop Years → 2022-2023 Regional Nearby Basis

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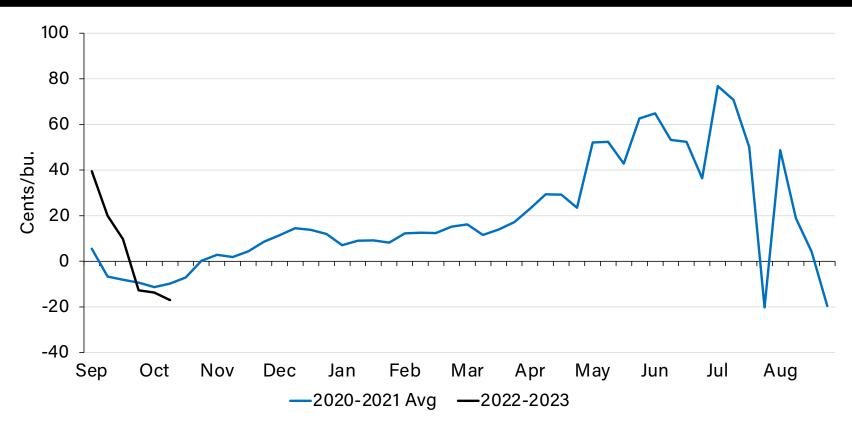


Nearby Soybean River Basis-Southern Indiana and Southern Illinois River Terminals





Nearby Indiana soybean processor basis





New crop soybean opportunities?

CBOT Mar. '23 Soybean futures \$14.15 Expected soybean basis January '22 in Central IN -\$0.13 **Expected January cash price** \$14.02/bu.

- Think in terms of risk management
- How can you protect favorable price opportunities while leaving open upside potential?





Price at Expiration	Probability Below
\$13.00	25.93%
\$13.25	31.28%
\$13.50	36.96%
\$13.75	42.82%
\$14.00	48.73%
\$14.25	54.57%
\$14.50	60.21%
\$14.75	65.56%
\$15.00	70.53%

March 2023 CBOT Soybean Futures



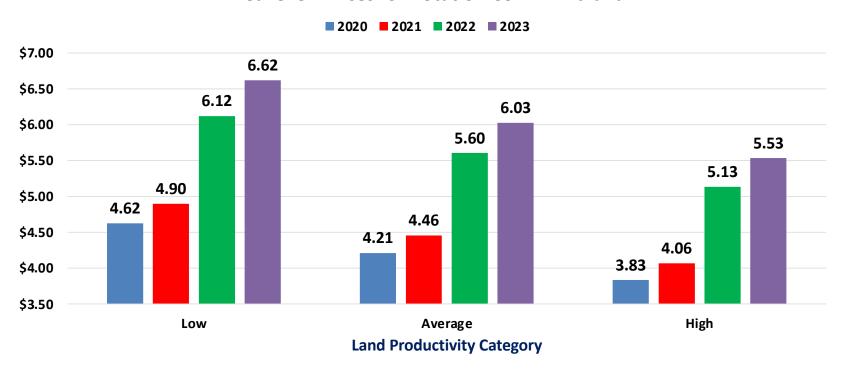
Enter Price to Evaluate: \$ 14.06

The implied distribution indicates that there is a 50.15% probability that the price will be below \$14.06 at expiration.

Probability Below	Price at Expiration
5%	\$11.52
15%	\$12.40
25%	\$12.95
35%	\$13.41
45%	\$13.84
50%	\$14.05
55%	\$14.27
65%	\$14.72
75%	\$15.25
85%	\$15.93
95%	\$17.14

Change in Breakeven Prices for Corn since 2020

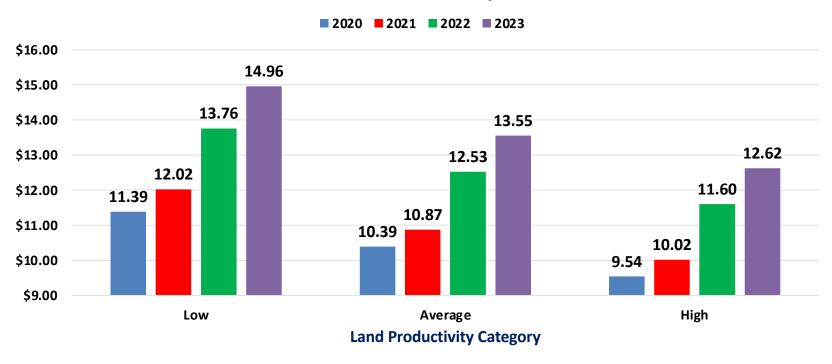
Breakeven Prices for Rotation Corn in Indiana





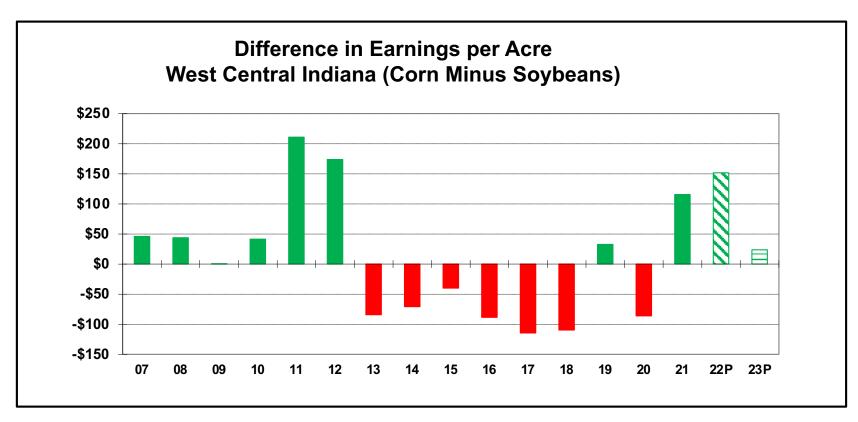
Change in Breakeven Prices for Soybeans since 2020

Breakeven Prices for Rotation Soybeans in Indiana





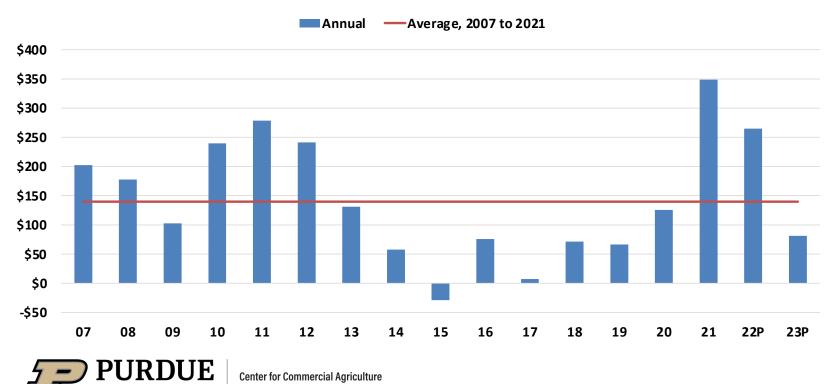
Profit Prospects for Corn have Improved





Net Farm Income Prospects for 2023 are Considerably Lower than NFI in 2021 and 2022

Net Farm Income, Corn/Soybean Rotation (\$ per Acre) West Central Indiana Case Farm





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