

Grain Market Outlook

2024 Crop Insurance Workshop

Salina, Kansas

October 24, 2024

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KANSAS STATE
UNIVERSITY

Department of Agricultural Economics



Today's Focus

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A. The U.S. Grain Market *Where U.S. Grain Grows, Flows & Goes*

B. Grain Market Prices Over Time *Grain Futures History*

C. Seasonal Price Patterns & Grain Basis *Kansas*

D. Corn, Sorghum, Soybean & Wheat Markets

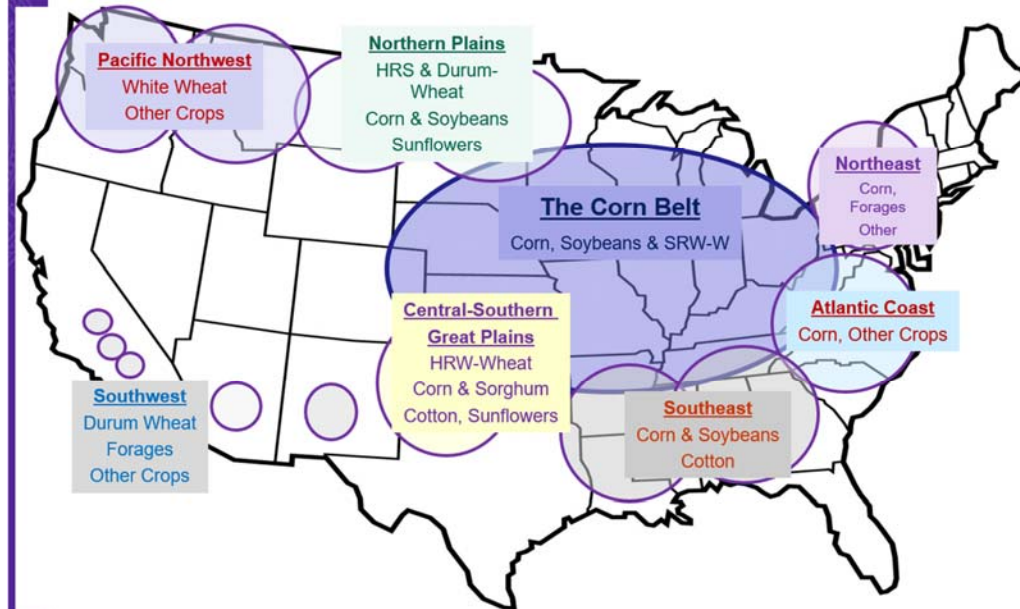
The U.S. Grain Market

3



U.S. Grain Production Regions

4



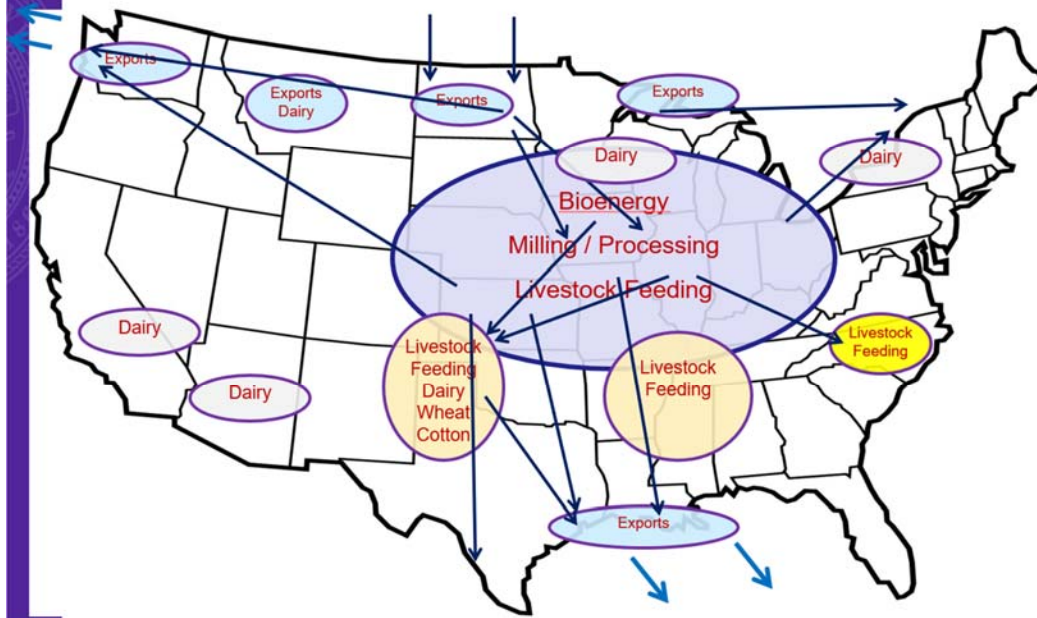
U.S. Regional Grain Use / Demand

5

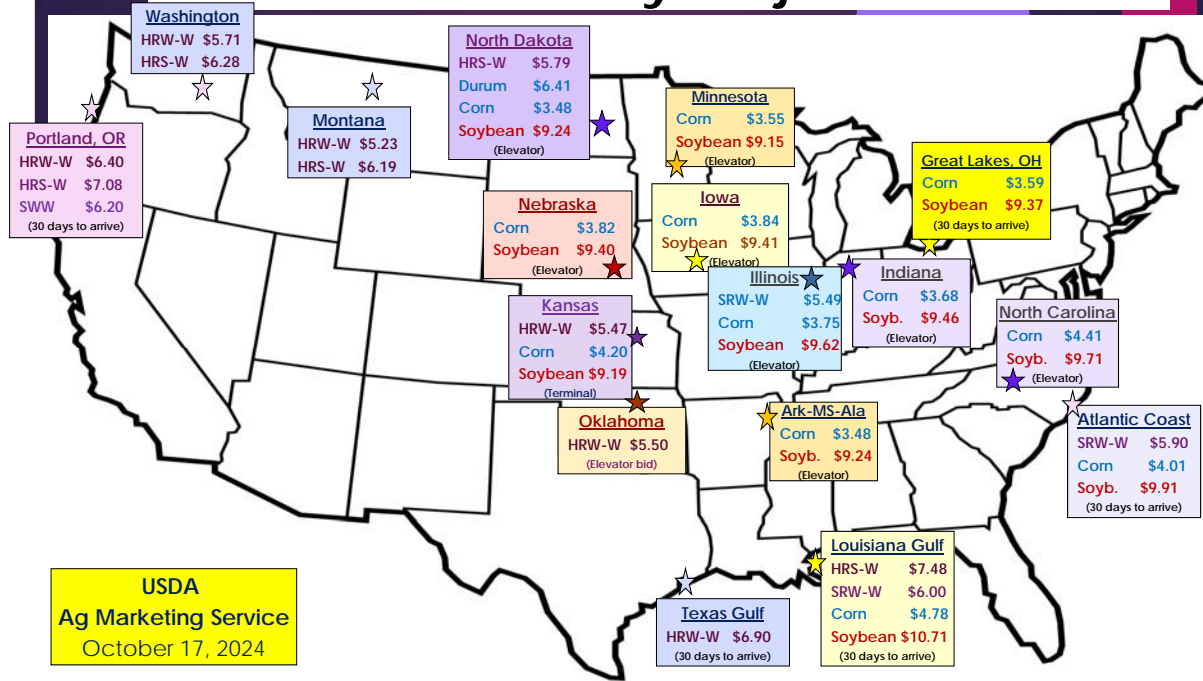


Transportation Flow of U.S. Grain to Use

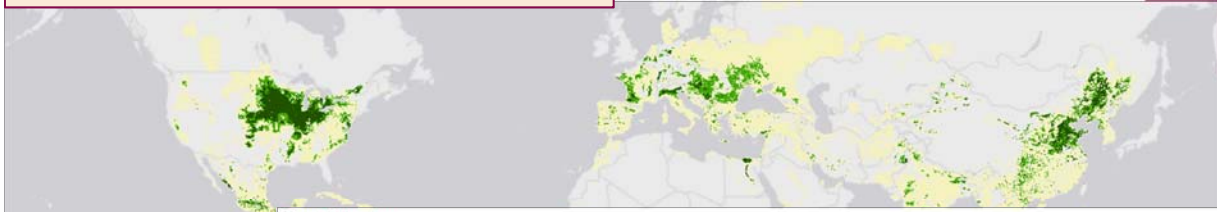
6



U.S. Grain Prices by Major Location



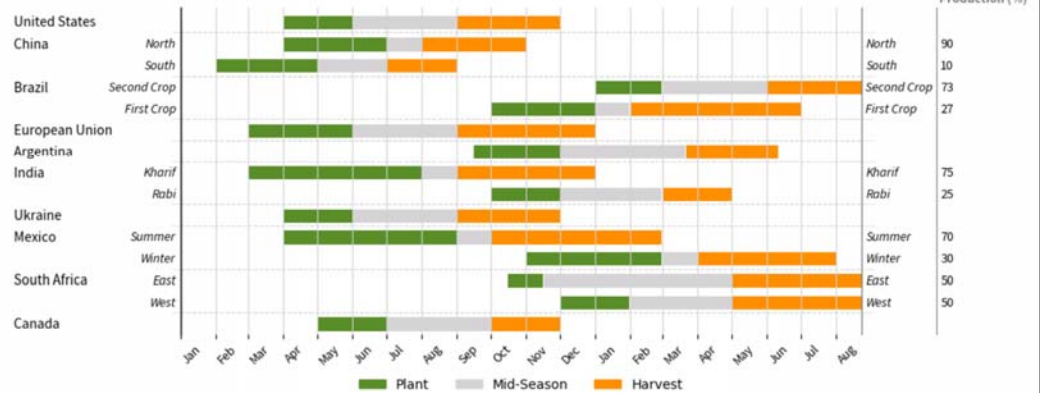
World Corn Production



Corn Calendar

Corn

(countries ranked by descending production 2024)

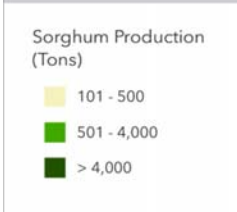


Corn Production (Tons)



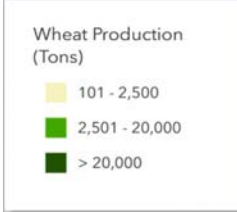
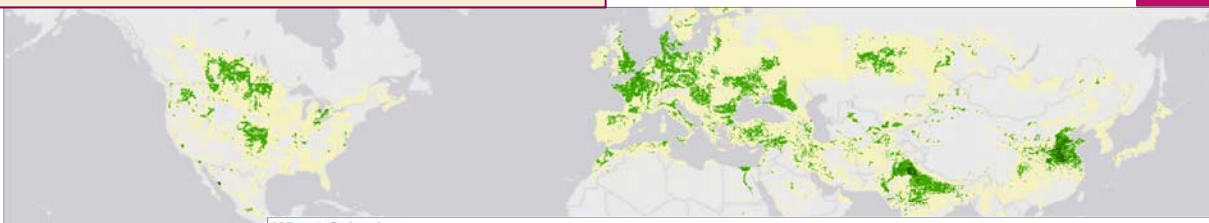
USDA FAS
October 2024

World Sorghum Production



USDA FAS
October 2024

World Wheat Production



USDA FAS
October 2024

World Soybean Production



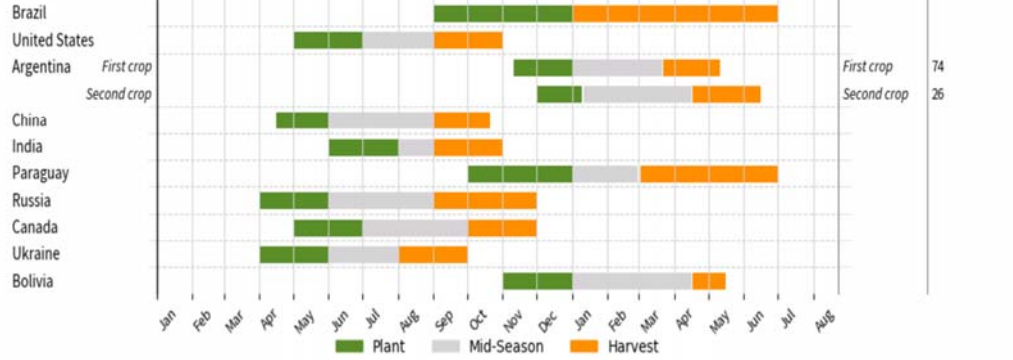
Soybean Calendar

Soybean

(countries ranked by descending production 2024)

Soybean Production (Tons)

- 51 - 400
- 401 - 5,000
- > 5,000



Season Percent of Total Production (%)

First crop 74

Second crop 26

USDA FAS
October 2024

Grain Market Prices Over Time



Monthly Commodity Futures Price Chart
Corn (Globex) (CBOT)

<https://futures.tradingcharts.com>

13

ZC - Corn (Globex) - Monthly Chart

Change: -4.000

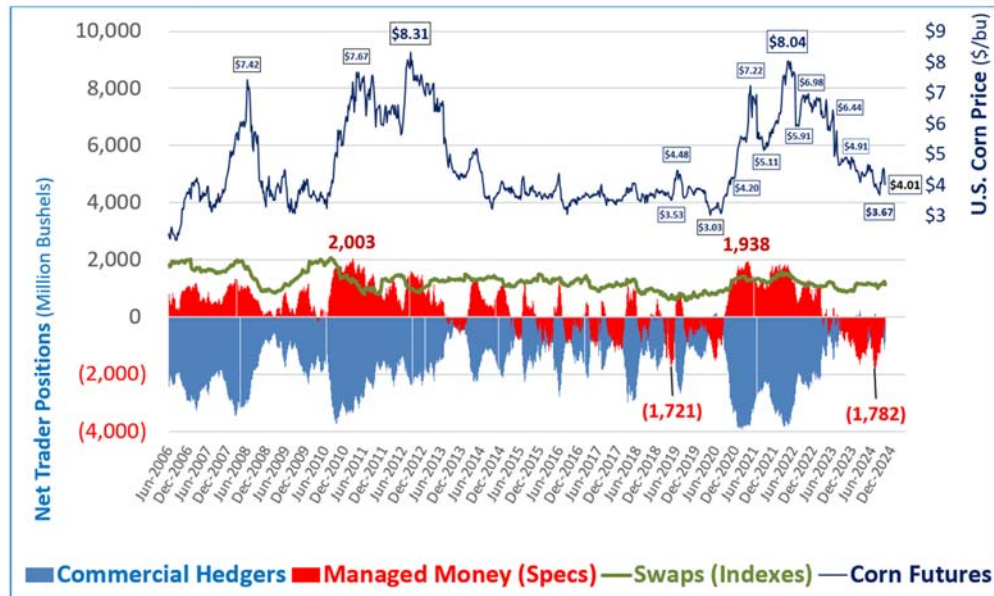
10/24/2024 O: 423.500 H: 434.250 L: 399.000 C: 419.500 Vol: 375896 OI: 1539233



Corn Futures-Net Position of Traders

14

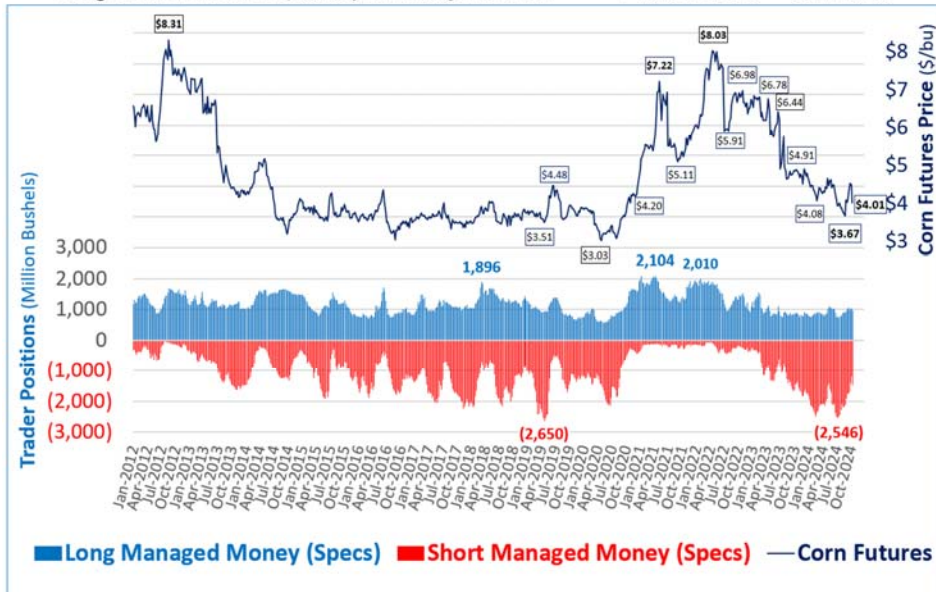
June 2006 through October 15, 2024^{CFTC Data} + October 15, 2024 DEC²⁰²⁴ Corn Futures Closes



Corn Futures - Managed Money Traders Specs

15

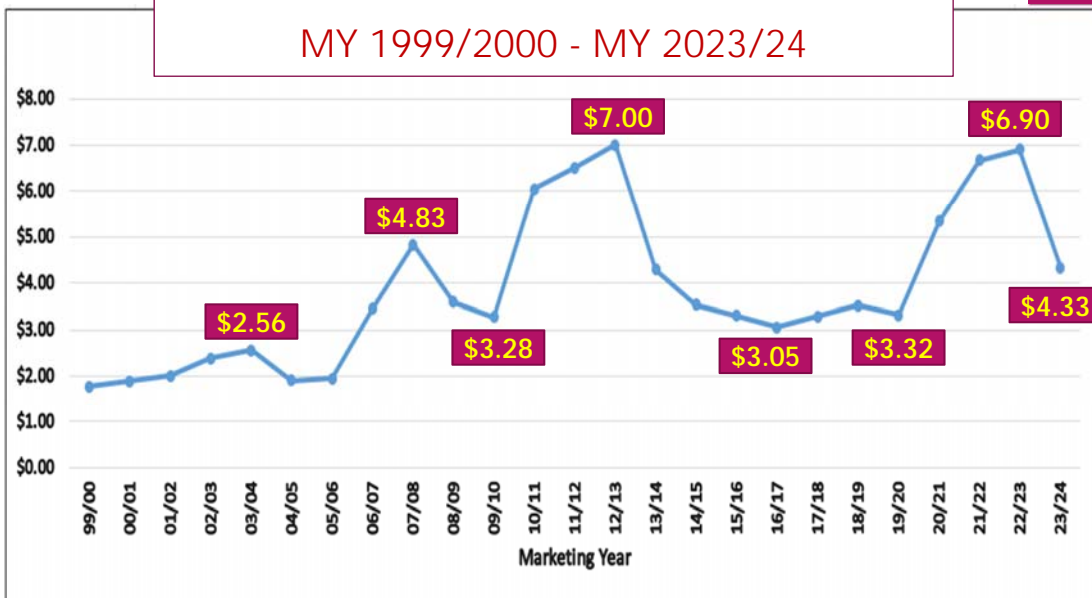
Long & Short Positions, January 2012 through 10/15/2024 CFTC Data + 10/15/2024 DEC²⁰²⁴ Corn Futures Closes



Kansas Corn Market Prices

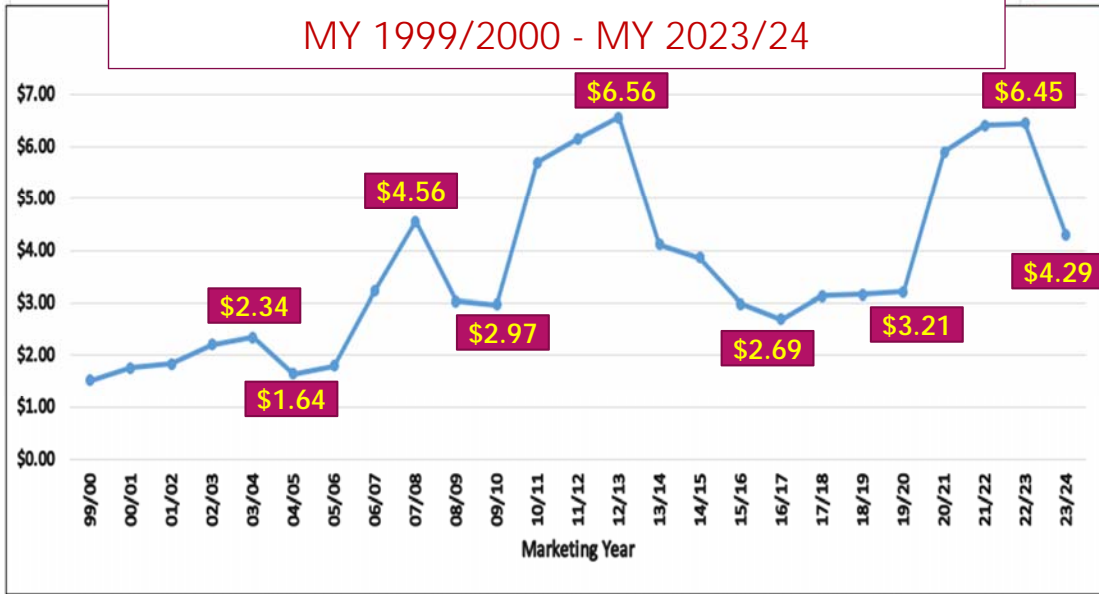
16

MY 1999/2000 - MY 2023/24



Kansas Sorghum Market Prices

MY 1999/2000 - MY 2023/24



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Monthly Commodity Futures Price Chart Wheat (Kansas) (Electronic) (KCBT)

<https://futures.tradingcharts.com>

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KE - Wheat (Kansas) (Electronic) - Monthly Chart

Change: 4.500

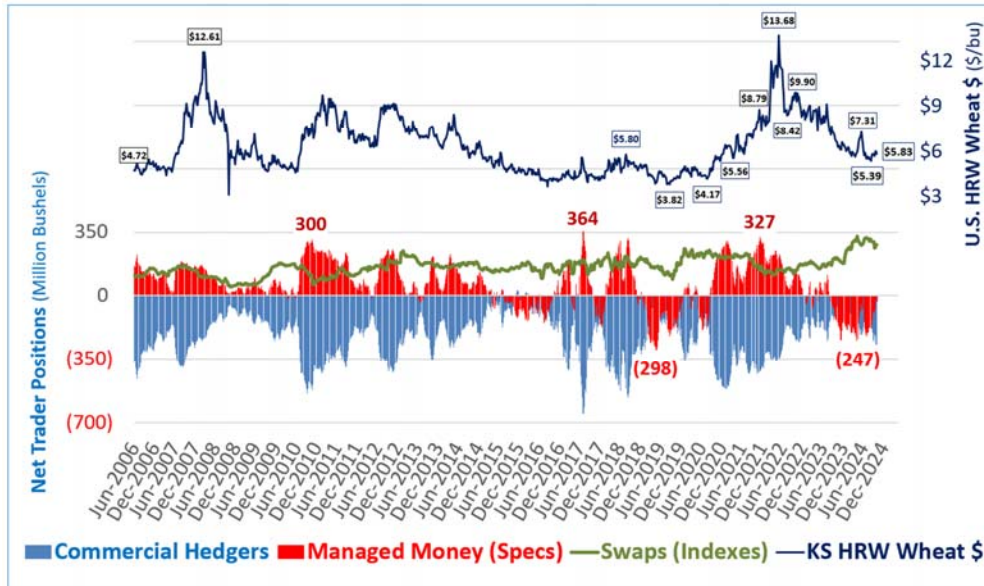
10/24/2024 O: 582.500 H: 623.500 L: 577.250 C: 587.000 Vol: 54839 OI: 239344



KS HRW Wheat ^{CME} - Net Position of Traders

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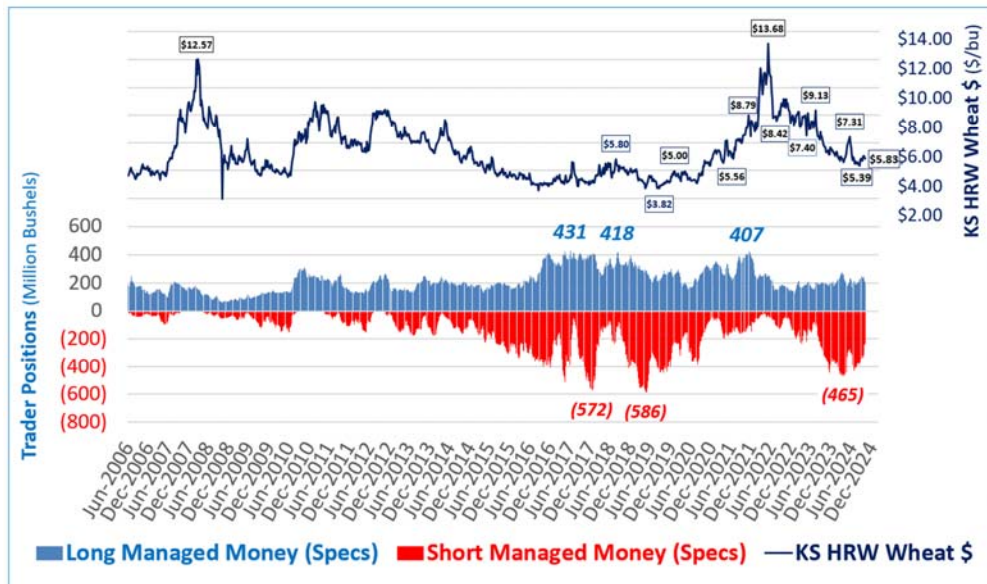
June 2006 thru 10/15/2024 (Weekly CFTC Data) with 10/15/2024 Futures Market Closes for CME DEC 2024 Kansas HRW Wheat



KS HRW Wheat ^{CME} - Managed Money Traders Specs

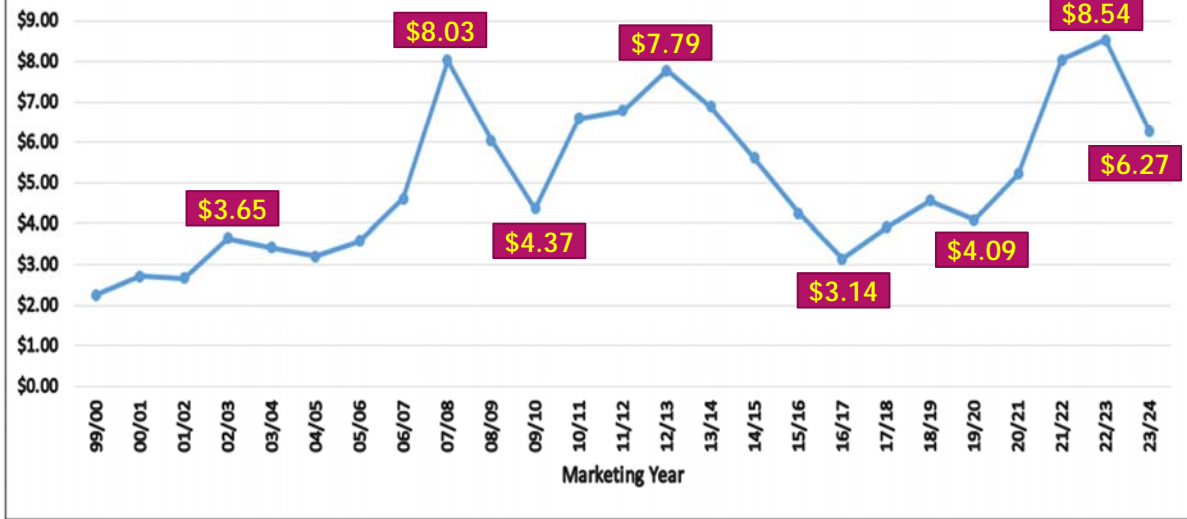
20

Long/Short Positions + Futures \$'s: June 2006 – 10/15/2024 CFTC Data with 10/15/2024 Futures for DEC 2024 KS HRW Wheat



Kansas Wheat Market Prices

MY 1999/2000 - MY 2023/24



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Monthly Commodity Futures Price Chart Soybeans (Globex) (CBOE)

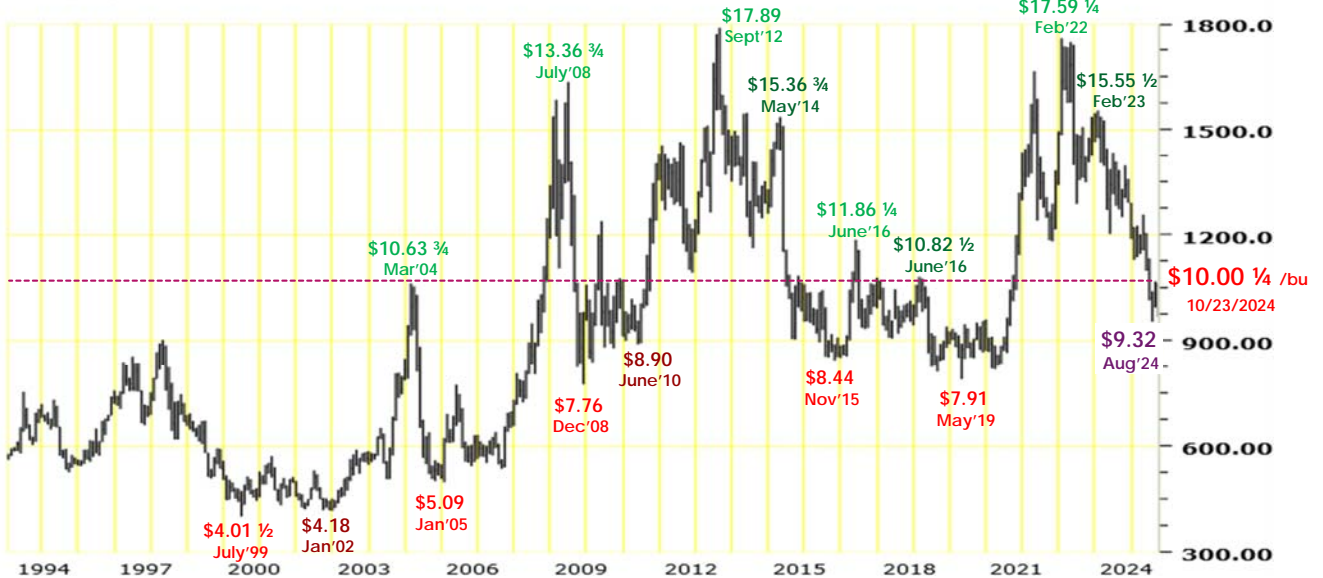
<https://futures.tradingcharts.com>

22

ZS - Soybeans (Globex) - Monthly Chart

Change: -55.500

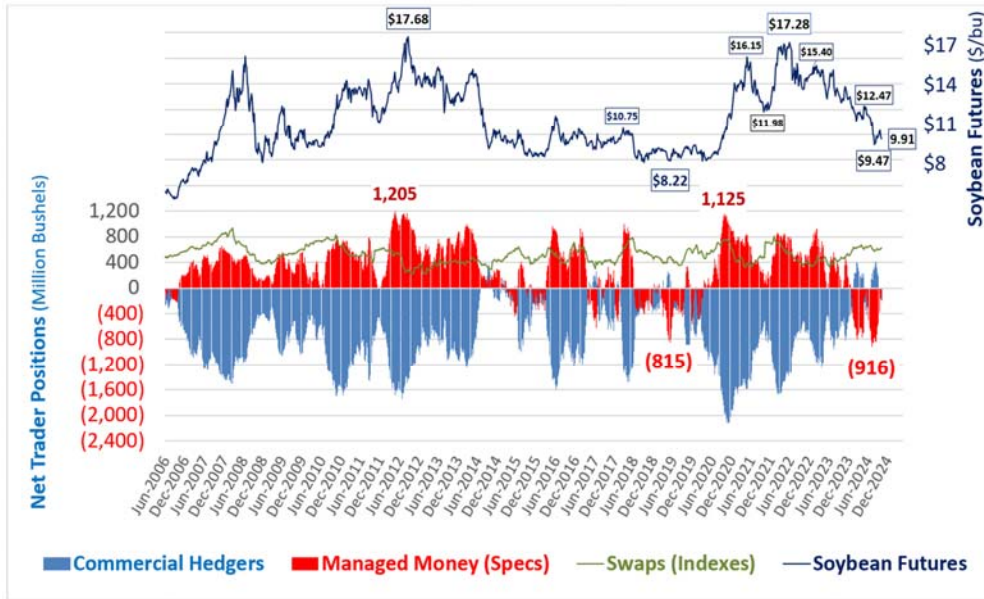
10/24/2024 O: 1055.750 H: 1065.500 L: 968.250 C: 1000.250 Vol: 364652 OI: 915846



Soybean Futures-Net Position of Traders

23

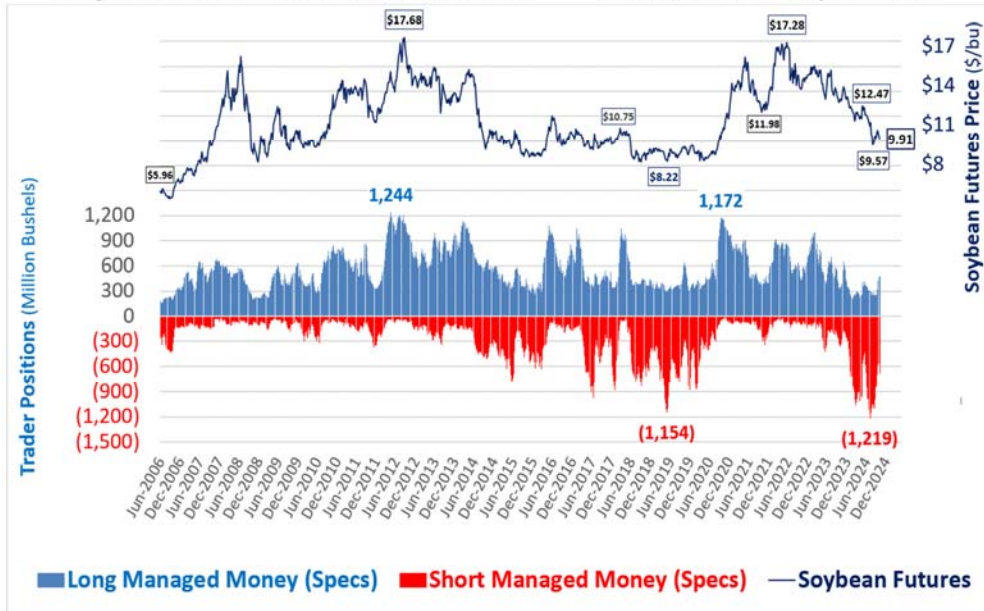
June 2006 through October 15, 2024 CFTC Data + October 15, 2024 NOV²⁰²⁴ Soybean Futures



Soybean Futures - Managed Money Traders Specs

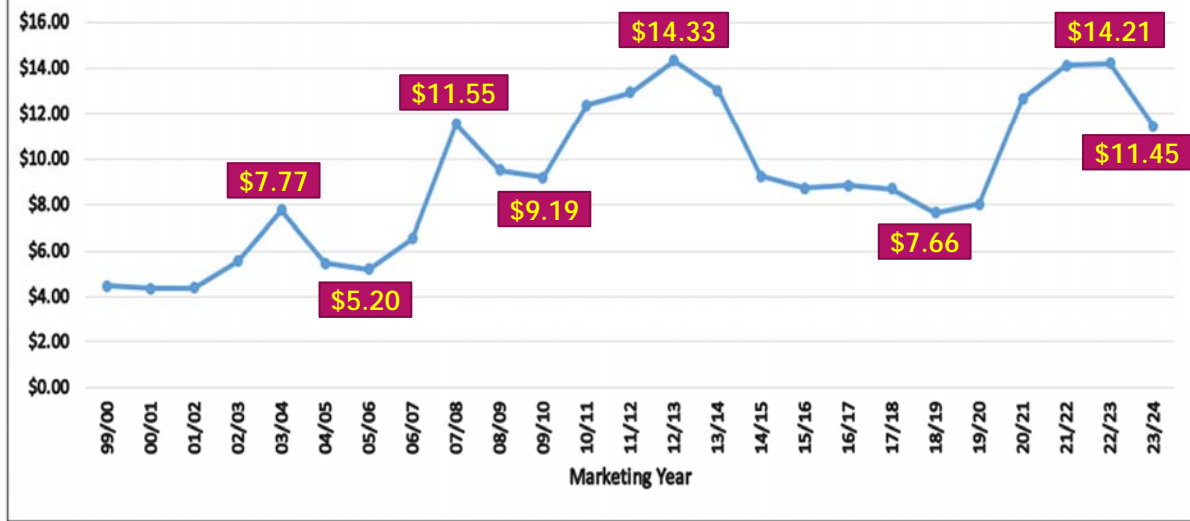
24

Long & Short Positions, June 2006 thru 10/15/2024 CFTC Data + 10/15/2024 NOV²⁰²⁴ Soybean Futures



Kansas Soybean Market Prices

MY 1999/2000 - MY 2023/24



25

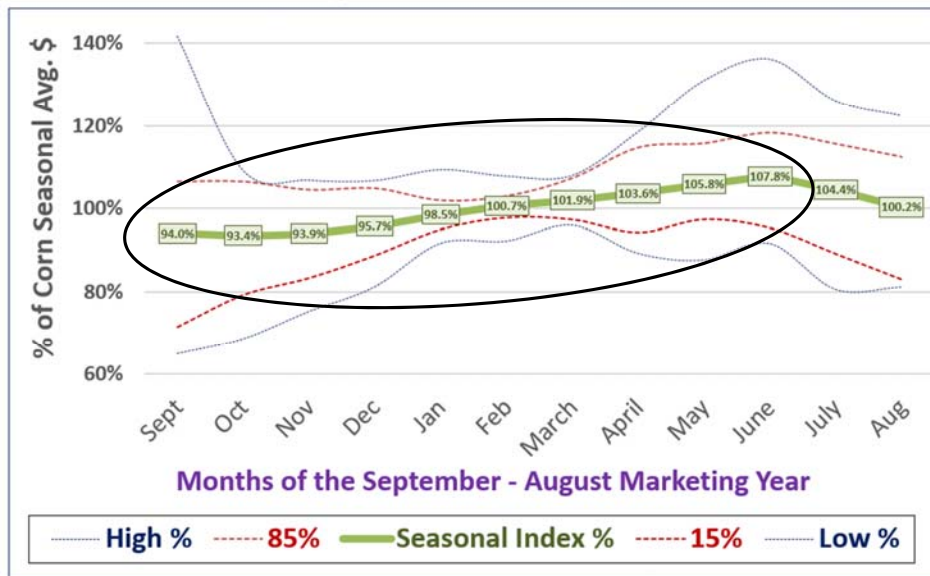
Seasonal Grain Prices

26



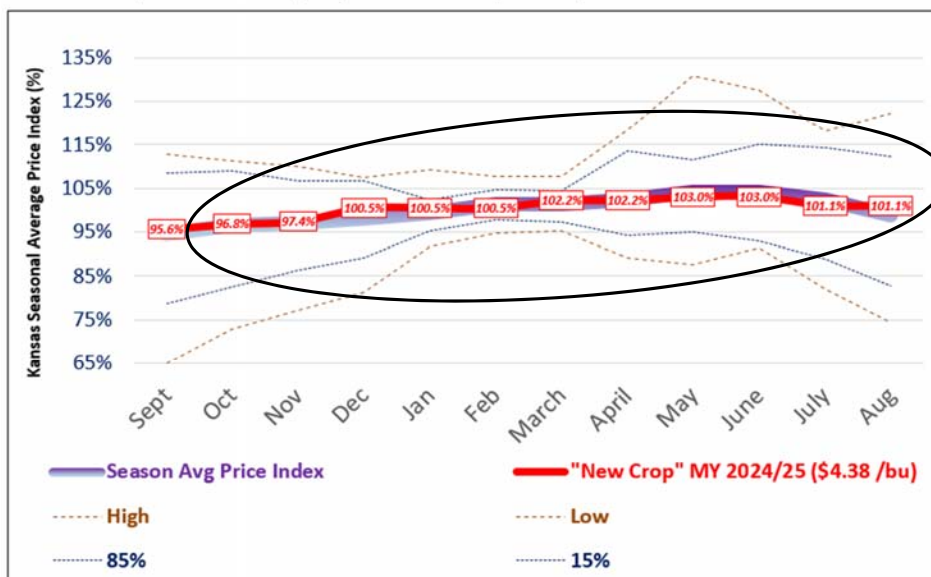
Corn Seasonal Price Index *Kansas*

Last 24 Full Marketing Years: 1999/2000 - 2022/2023



U.S & Kansas Corn Seasonal \$'s

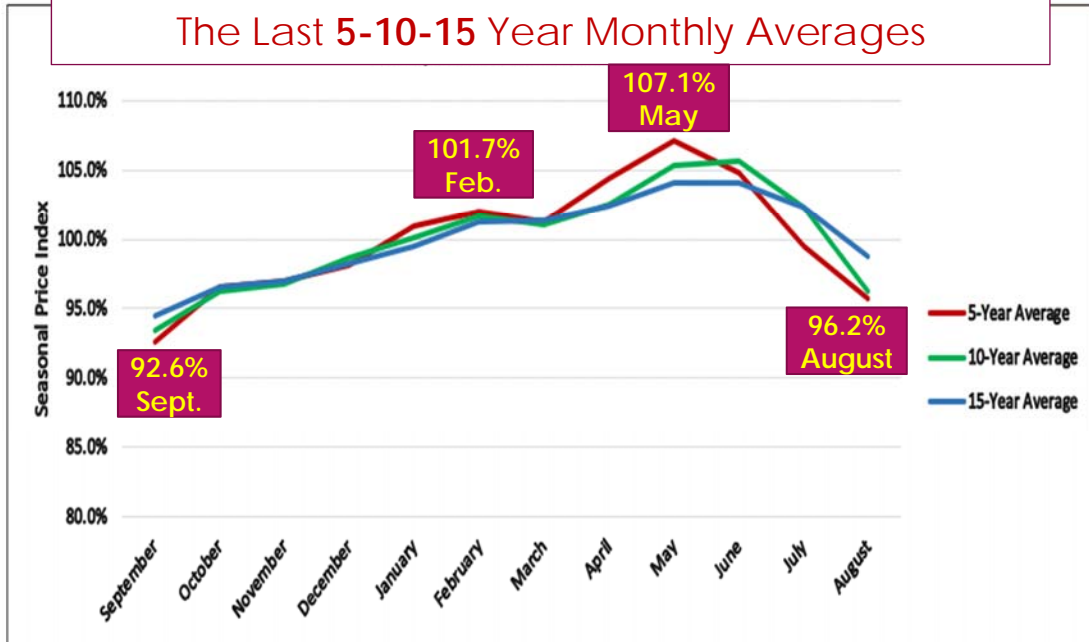
MY 1999/00 – MY 2023/24 plus "New Crop" 2024/25 as of 10/23/2024



Kansas Corn Seasonal Prices

29

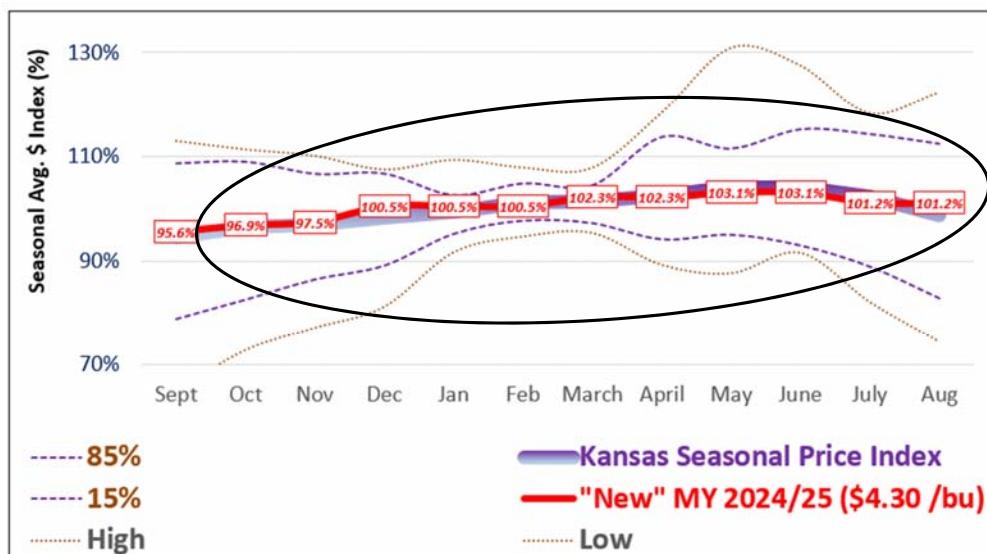
The Last 5-10-15 Year Monthly Averages



Kansas Sorghum Seasonal Prices

30

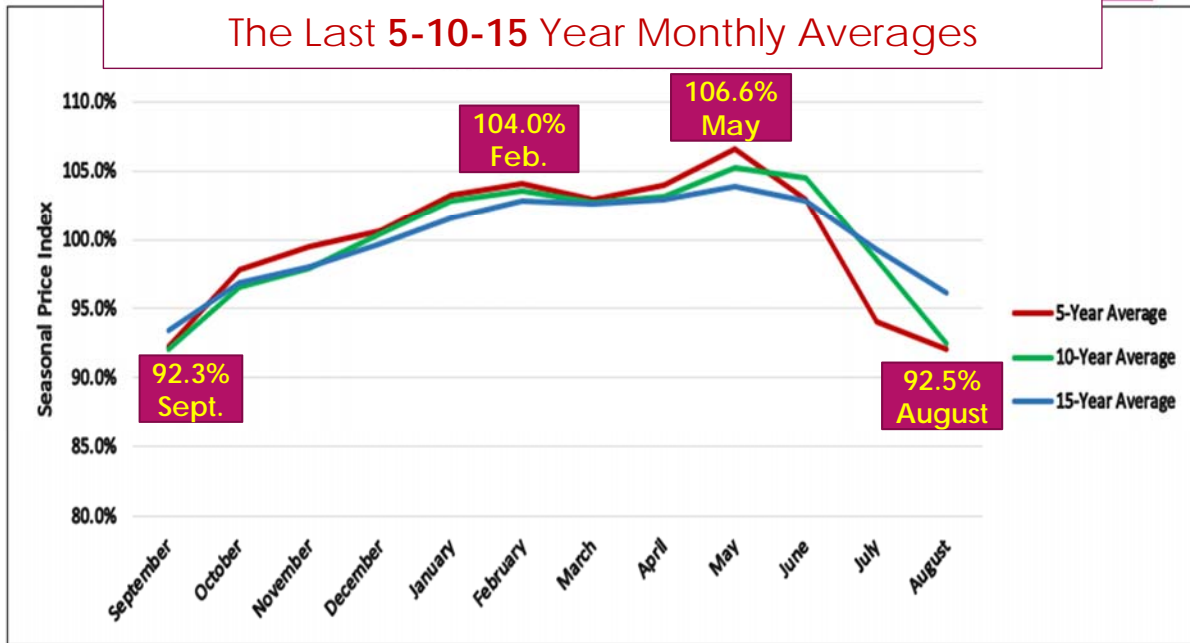
MY 1999/00 – MY 2023/24 and "New Crop" MY 2024/25 as of 10/23/2024



Kansas Sorghum Seasonal Prices

31

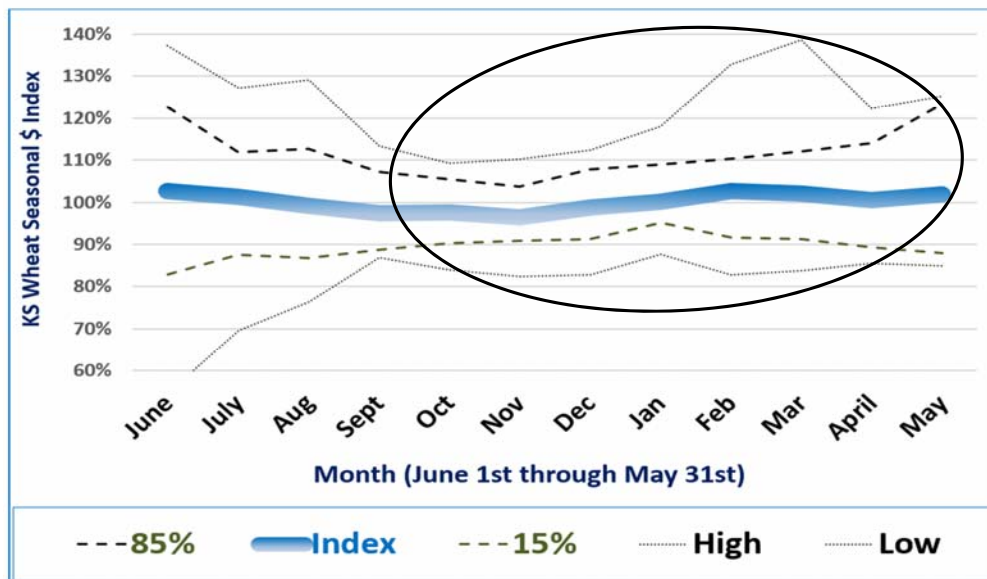
The Last 5-10-15 Year Monthly Averages



HRW Wheat Seasonal \$'s

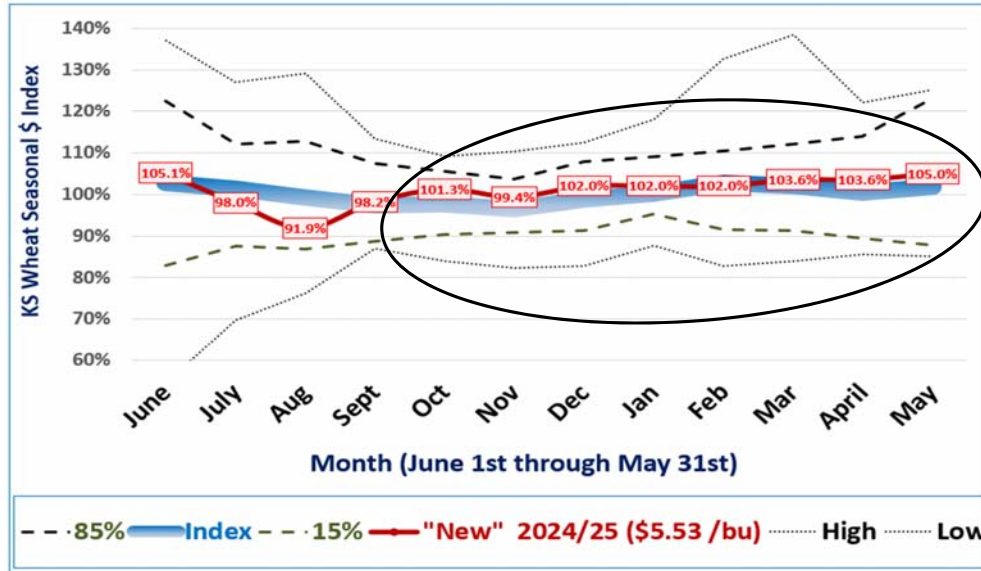
32

MY 1999/2000 – 2023/24



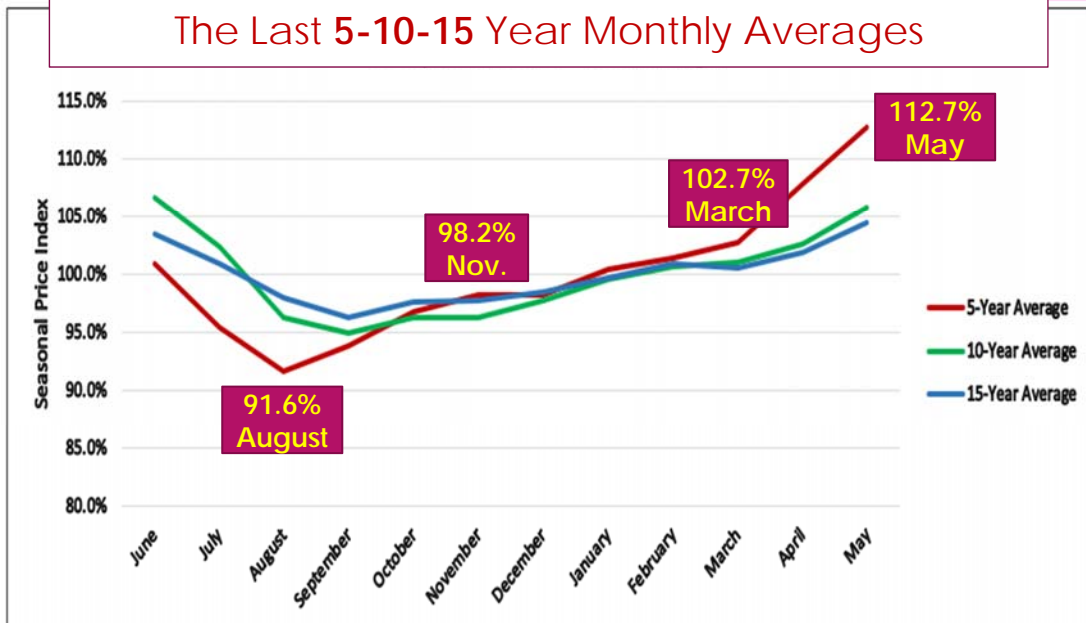
HRW Wheat Seasonal \$'s

MY 1999/2000 – 2023/24 + "Current" MY 2024/25 as of 10/23/2024



Kansas Wheat Seasonal Prices

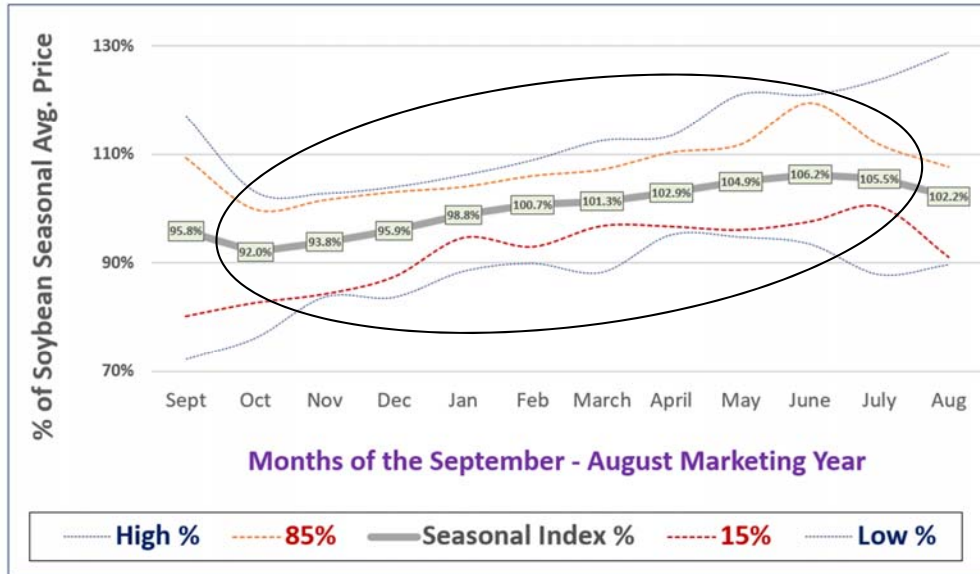
The Last 5-10-15 Year Monthly Averages



Kansas Soybean Seasonal Price Index

(MY 1999/00 – MY 2022/23) – Source: KSU Seasonal Grain Price Indices

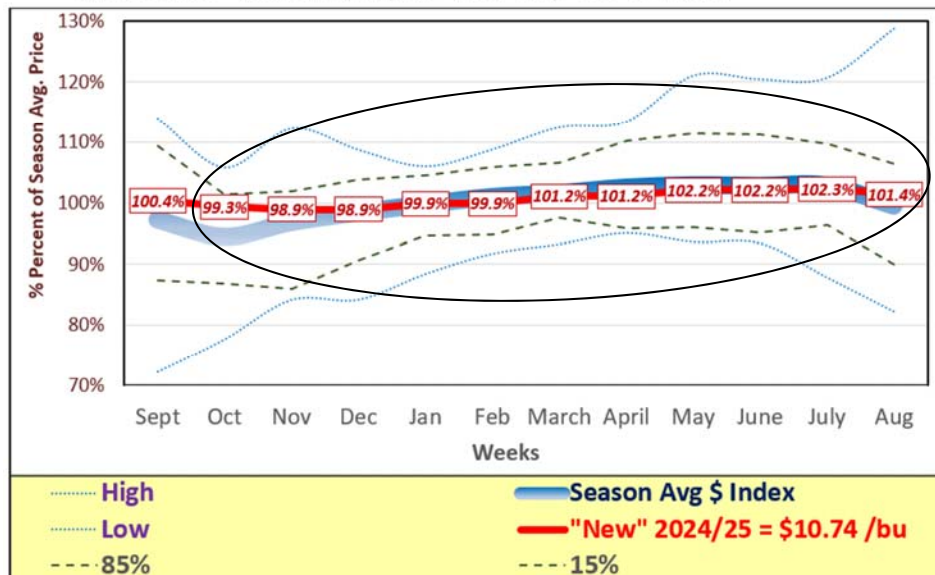
35



U.S. & KS Soybean Seasonal Prices

MY 1999/00 – MY 2023/24 plus "New Crop" MY 2024/25 October 23, 2024

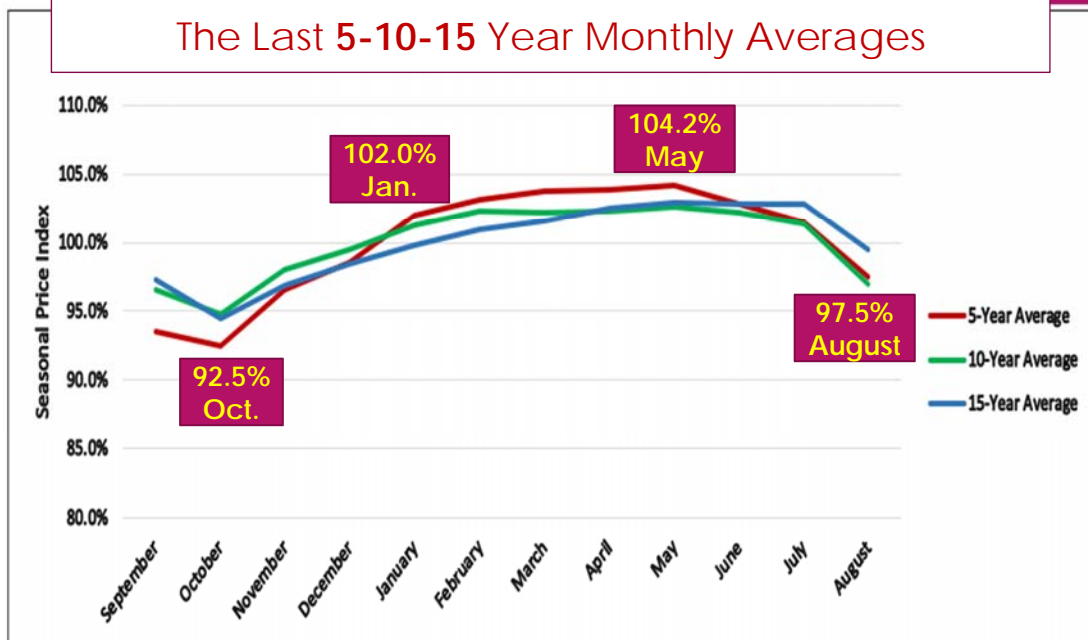
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Kansas Soybean Seasonal Prices

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The Last 5-10-15 Year Monthly Averages



Local Grain Basis & Cash Prices

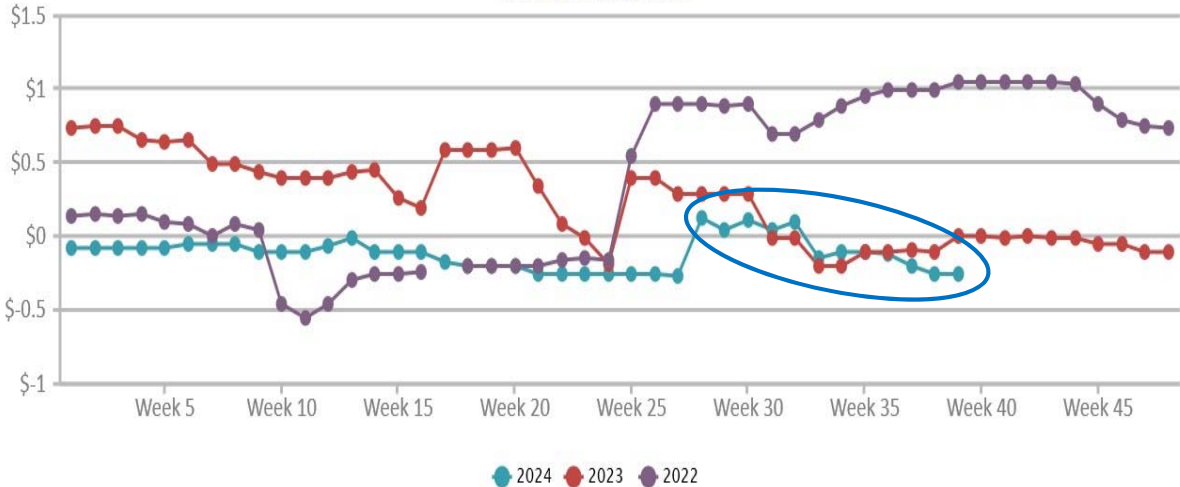
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SALINA, KS: Corn Basis - CARGILL

www.AgManager.info



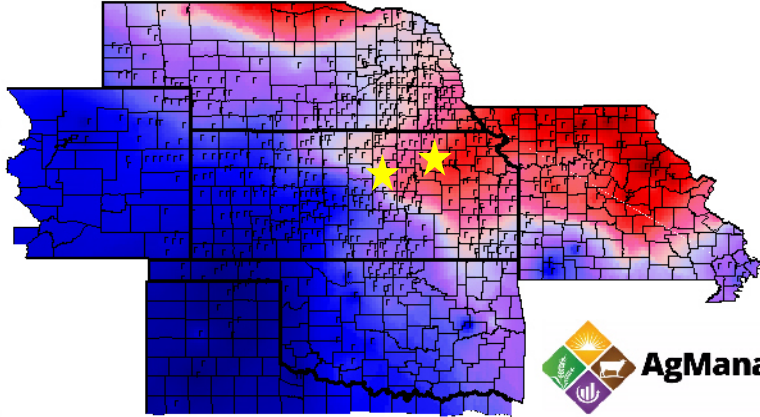
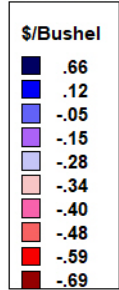
Through October 16, 2024



Corn Basis, 10-16-2024

Basis = Cash Price - Nearby Futures Price

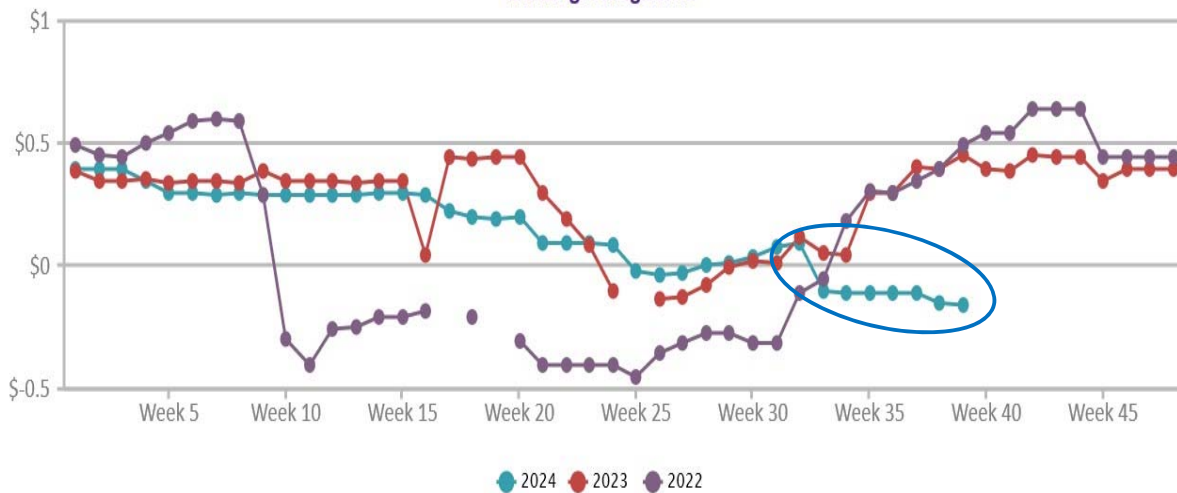
CBT Dec Futures Price: \$4.05



Kansas Cash & Futures Prices	
Date	
10/23/2024 - Closes	
Grain Futures Contracts	
Closing \$	
DEC 2024 Corn ^{"New" MY 2024/25 Harvest Futures}	\$4.1975
DEC 2025 Corn ^{"Next" MY 2025/26 Harvest Futures}	\$4.4175
10/23/2024 - Closes	
Cash Grain & Harvest Contract Prices @ Kansas Grain Elevators	
<i>Representing the highest bids available at each location</i>	
Cash Market Spot & FC Bids	Colby ^{Area} Salina ^{Area} Topeka ^{Area} Garden City ^{Area} Hutchinson ^{Area} Columbus ^{Area}
	NW KS NC KS EC-NE KS SW KS SC KS SE KS
Corn Spot Cash\$: Fall ²⁰²⁴	\$4.35 \$4.04 \$3.75 \$4.60 \$4.20 \$4.10
2024 Harvest Cash Market Basis	\$0.15 (\$0.16) (\$0.45) \$0.40 \$0.00 (\$0.10)
Corn Harvest FC\$: Fall ²⁰²⁵	\$4.24 \$4.27 \$3.92 \$4.46 \$4.40 \$4.07
"Next Crop" MY 2025/26 Harvest Frwd Contract	(\$0.18) (\$0.15) (\$0.50) \$0.04 (\$0.02) (\$0.35)
2024 "Spot Cash" Soybean vs Corn \$ Ratio	2.07 2.34 2.52 1.99 2.31 2.40
2025 "New Crop" Soybean vs Corn \$ Ratio	#VALUE! 2.29 2.44 2.12 2.23 2.46

SALINA, KS: Grain Sorghum Basis - CARGILL

www.AgManager.info

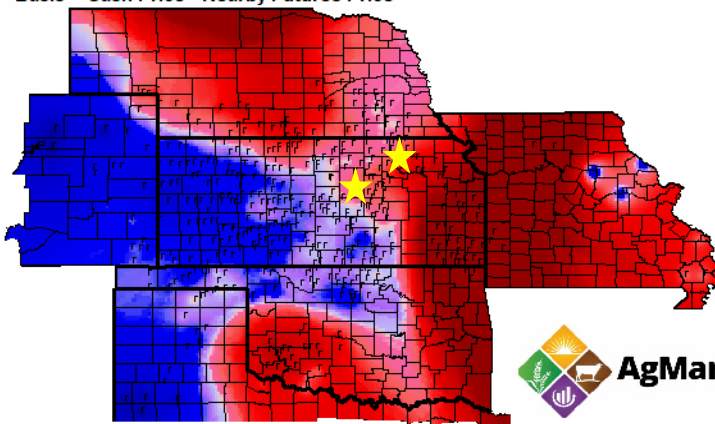
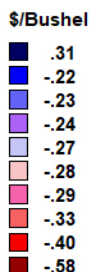


Through October 17, 2024

Grain Sorghum Basis, 10-16-2024

Basis = Cash Price - Nearby Futures Price

CBT Corn
Dec Futures
Price: \$4.05

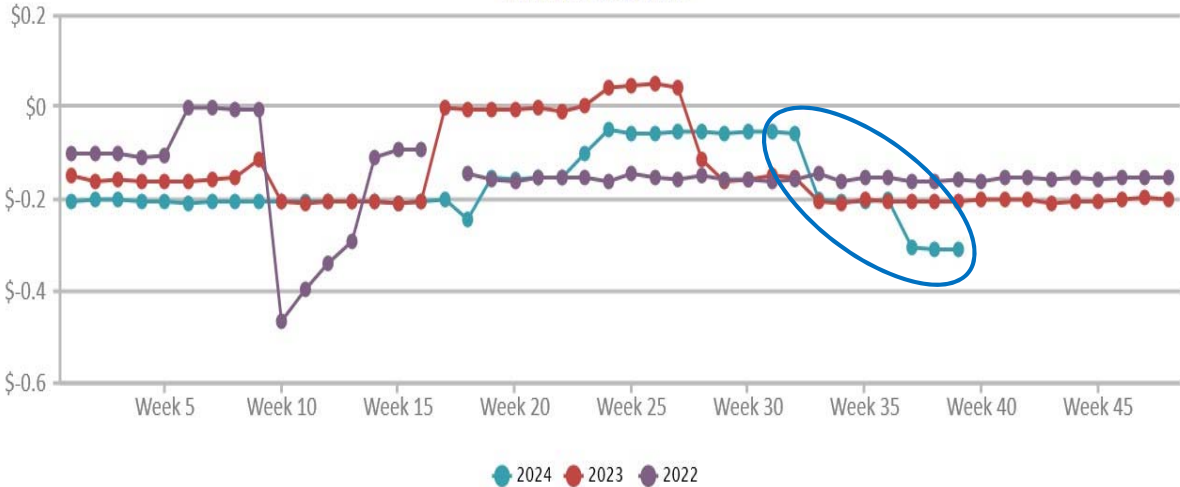


Kansas Cash & Futures Prices						
Date						
10/23/2024 - Closes						
Grain Futures Contracts		Closing \$				
DEC 2024 Corn	"New" MY 2024/25 Harvest Futures	\$4.1975				
DEC 2025 Corn	"Next" MY 2025/26 Harvest Futures	\$4.4175				
10/23/2024 - Closes		Cash Grain & Harvest Contract Prices @ Kansas Grain Elevators				
<i>Representing the highest bids available at each location</i>						
Cash Market Spot & FC Bids	Colby ^{Area}	Salina ^{Area}	Topeka ^{Area}	Garden City ^{Area}	Hutchinson ^{Area}	Columbus ^{Area}
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Grain Sorghum Spot Cash\$: Fall ²⁰²⁴	\$4.02	\$4.04	\$3.90	\$4.04	\$4.10	\$3.70
2024 Harvest Cash Market Basis	(\$0.18)	(\$0.16)	(\$0.30)	(\$0.16)	(\$0.10)	(\$0.50)
Grain Sorghum Harvest FC\$: Fall ²⁰²⁵	\$3.77	\$4.12	\$3.87	\$4.07	\$4.17	\$3.52
"Next Crop" MY 2025/26 Harvest Frwd Contract	(\$0.65)	(\$0.30)	(\$0.55)	(\$0.35)	(\$0.25)	(\$0.90)



SALINA, KS: Hard Red Winter Wheat Basis - CARGILL

www.AgManager.info



Through October 17, 2024

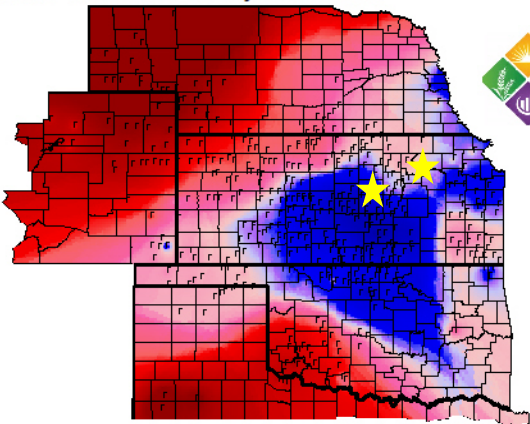


Wheat Basis, 10-16-2024

Basis = Cash Price - Nearby Futures Price

KCBT Dec Futures Price: \$5.89

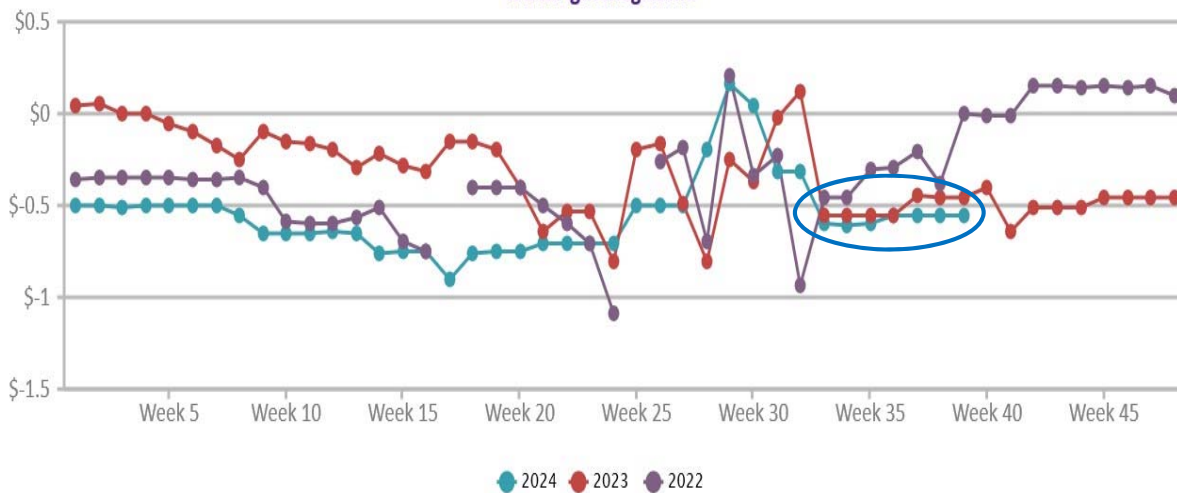
\$/Bushel	
Dark Blue	.01
Blue	-.53
Light Blue	-.54
Very Light Blue	-.55
White	-.57
Light Pink	-.59
Pink	-.65
Red	-.73
Dark Red	-.76
Black	-.99



Kansas Cash & Futures Prices	
Date	
10/23/2024 - Closes	
Grain Futures Contracts	Closing \$
DEC 2024 KC HRW Wheat ^{"Current" MY 2024/25 Futures}	\$5.8725
JULY 2025 KC HRW Wheat ^{"Next" MY 2025/26 Harvest Future}	\$6.1775
10/23/2024 - Closes	Cash Grain & Harvest Contract Prices @ Kansas Grain Elevators
<i>Representing the highest bids available at each location</i>	
Cash Market Spot & FC Bids	Colby ^{Area} Salina ^{Area} Topeka ^{Area} Garden City ^{Area} Hutchinson ^{Area} Columbus ^{Area}
	NW KS NC KS EC-NE KS SW KS SC KS SE KS
KC HRW Wheat Harvest Spot Cash\$	\$5.16 \$5.58 \$5.57 \$5.33 \$5.59 \$5.28
"New Crop" MY 2024/25 HRW Wheat Spot Basis	(\$0.71) (\$0.29) (\$0.30) (\$0.54) (\$0.28) (\$0.59)
KC HRW Wheat FC\$ ^{2025 Harvest Futures}	None \$5.80 \$5.78 \$5.64 \$5.84 \$5.54
"Next Crop" MY 2025/26 HRW Hvst FC\$ Basis	#VALUE! (\$0.38) (\$0.40) (\$0.54) (\$0.34) (\$0.64)

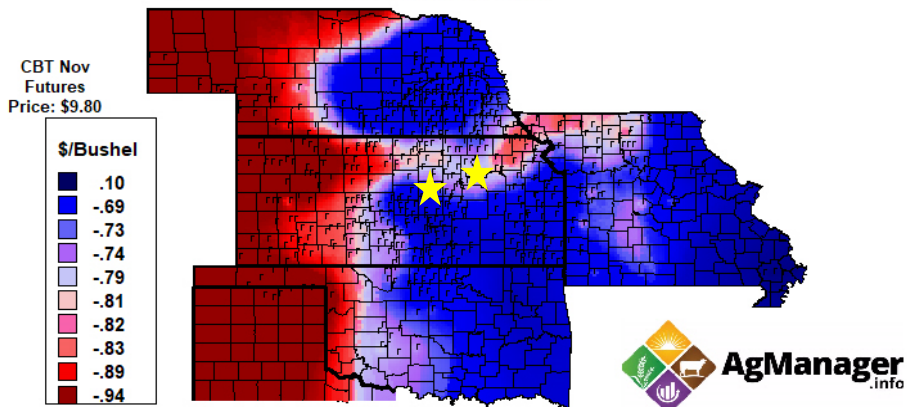
SALINA, KS: Soybeans Basis - CARGILL

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Soybean Basis, 10-16-2024

Basis = Cash Price - Nearby Futures Price



Kansas Cash & Futures Prices						
Date						
10/23/2024 - Closes						
Grain Futures Contracts		Closing \$				
NOV 2024 Soybean ^{"New" MY 2024/25 Harvest Futures}		\$9.9925				
NOV 2025 Soybeans ^{"Next" MY 2025/26 Harvest Futures}		\$10.3625				
10/23/2024 - Closes						
Cash Grain & Harvest Contract Prices @ Kansas Grain Elevators						
<i>Representing the highest bids available at each location</i>						
Cash Market Spot & FC Bids	Colby ^{Area}	Salina ^{Area}	Topeka ^{Area}	Garden City ^{Area}	Hutchinson ^{Area}	Columbus ^{Area}
	NW KS	NC KS	EC-NE KS	SW KS	SC KS	SE KS
Soybean Spot Cash\$: Fall ²⁰²⁴	\$9.01	\$9.45	\$9.44	\$9.15	\$9.70	\$9.86
2024 Harvest Cash Market Basis	(\$0.98)	(\$0.54)	(\$0.55)	(\$0.84)	(\$0.29)	(\$0.13)
Soybean Harvest FC\$: Fall ²⁰²⁵	None	\$9.77	\$9.57	\$9.47	\$9.81	\$10.01
"Next Crop" MY 2025/26 Harvest Frwd Contract	#VALUE!	(\$0.59)	(\$0.79)	(\$0.89)	(\$0.55)	(\$0.35)
2024 "Spot Cash" Soybean vs Corn \$ Ratio	2.07	2.34	2.52	1.99	2.31	2.40
2025 "New Crop" Soybean vs Corn \$ Ratio	#VALUE!	2.29	2.44	2.12	2.23	2.46

Corn Markets

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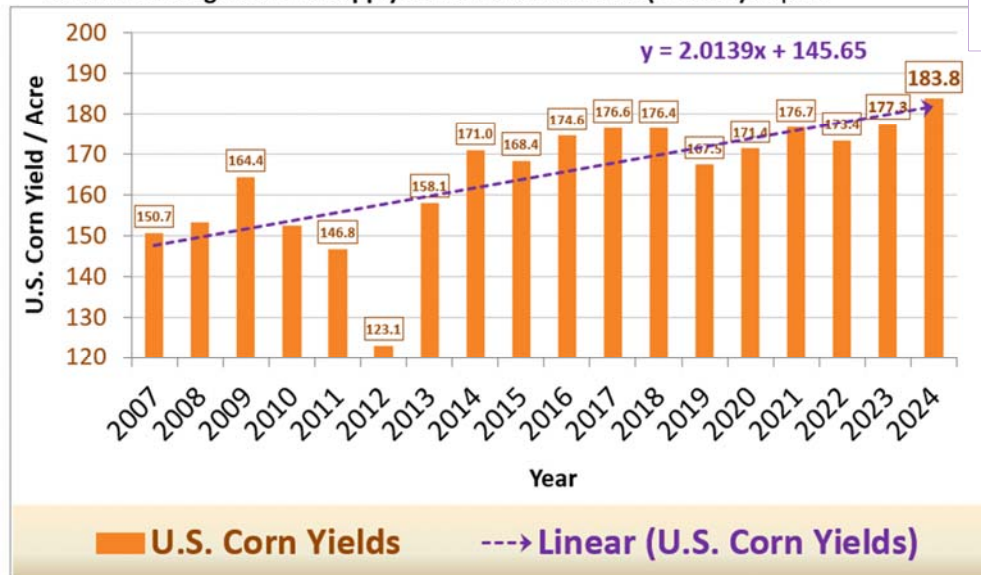
KANSAS STATE UNIVERSITY

Department of Agricultural Economics

U.S. Corn Yields for 2007-2024

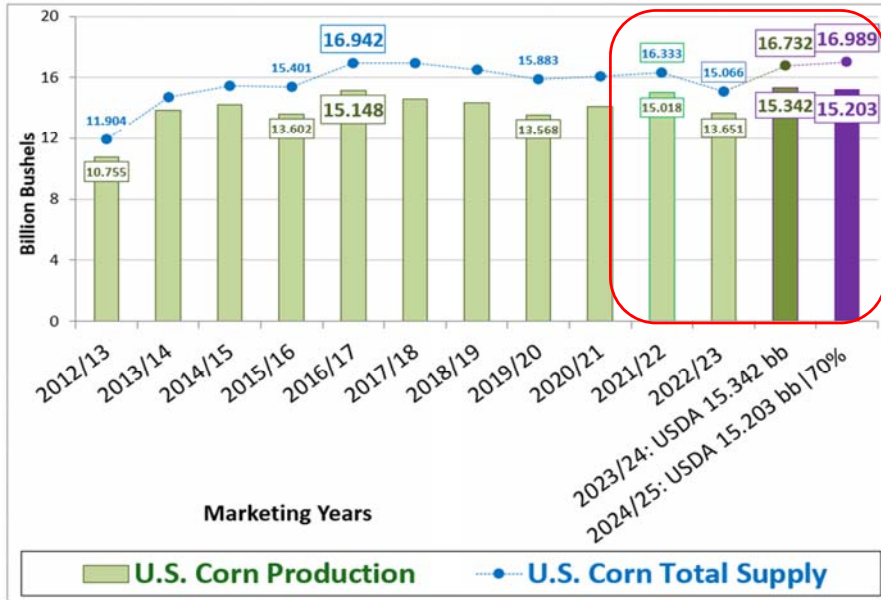
USDA World Agricultural Supply & Demand Estimates (WASDE) Report 10/11/2024

1 52
183.8 bu/ac
in 2024^{USDA}



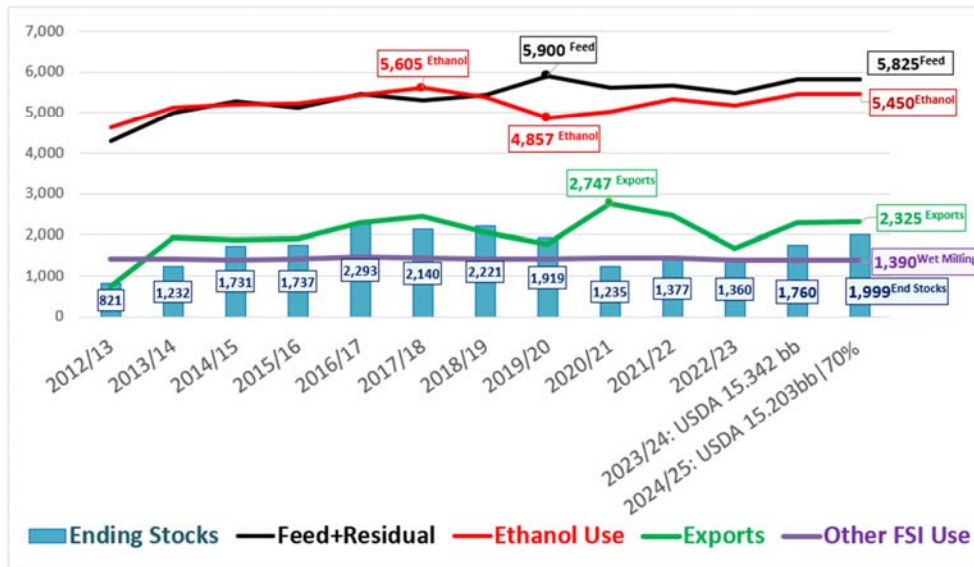
U.S. Corn Production & Supplies

MY 2012/13 - "New" MY 2024/25: as of the 10/11/2024 WASDE Report + KSU estimates



U.S. Corn Use & Ending Stocks

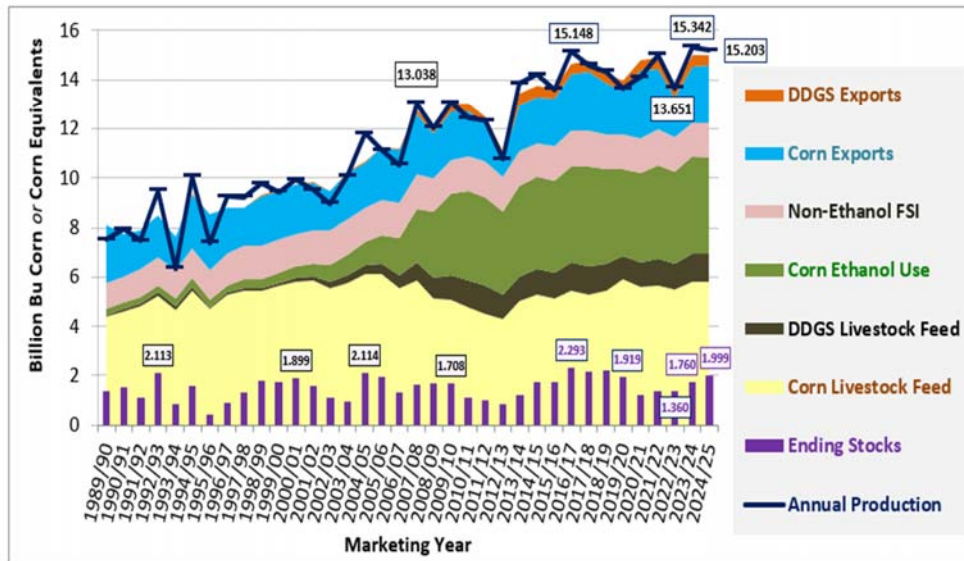
MY 2012/13 thru "New Crop" MY 2024/25 as of the 10/11/2024 WASDE Report + KSU estimates



U.S. Corn Supply-Demand w. DDGS *Adj.*

55

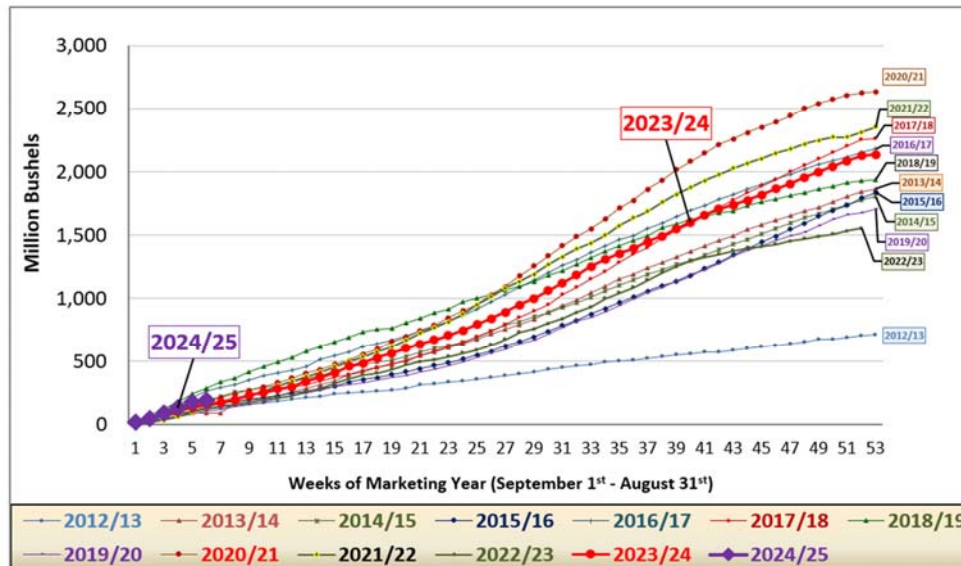
MY 2012/13 thru "New Crop" MY 2024/25 as of the 10/11/2024 WASDE Report + KSU estimates



U.S. Corn Exports MY 2012/13 thru "New Crop" MY 2024/25

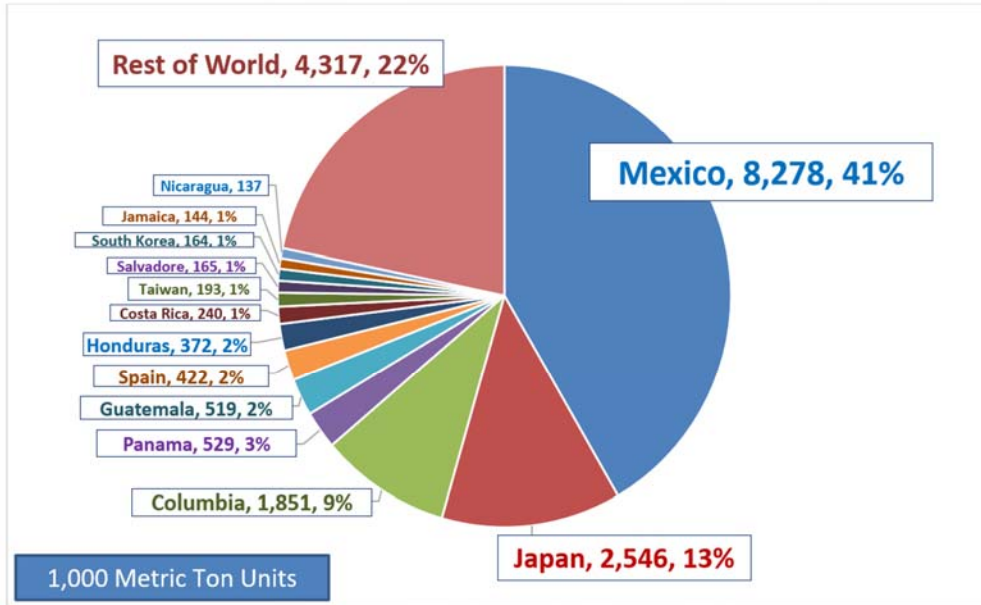
56

Based on USDA FAS Weekly Export reports through 10/10/2024



U.S. Corn Export Outstanding Sales + Shipments

"New Crop" MY 2024/25 as of the 10/10/2024 USDA U.S. Export Forward Purchases (1,000 mt)



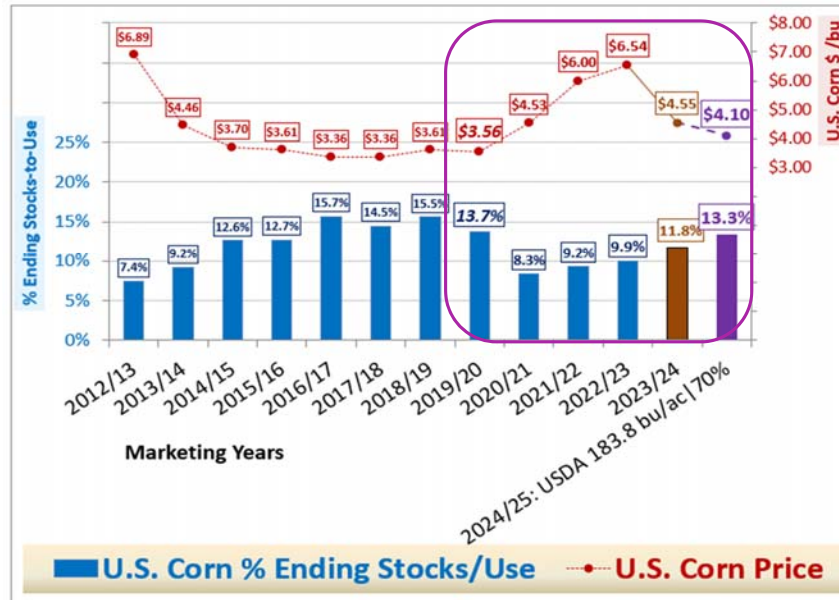
U.S. Corn Stocks & % Stocks-to-Use

MY 2012/13 – "New" MY 2024/25 as of the 10/11/2024 WASDE Report + KSU ests.



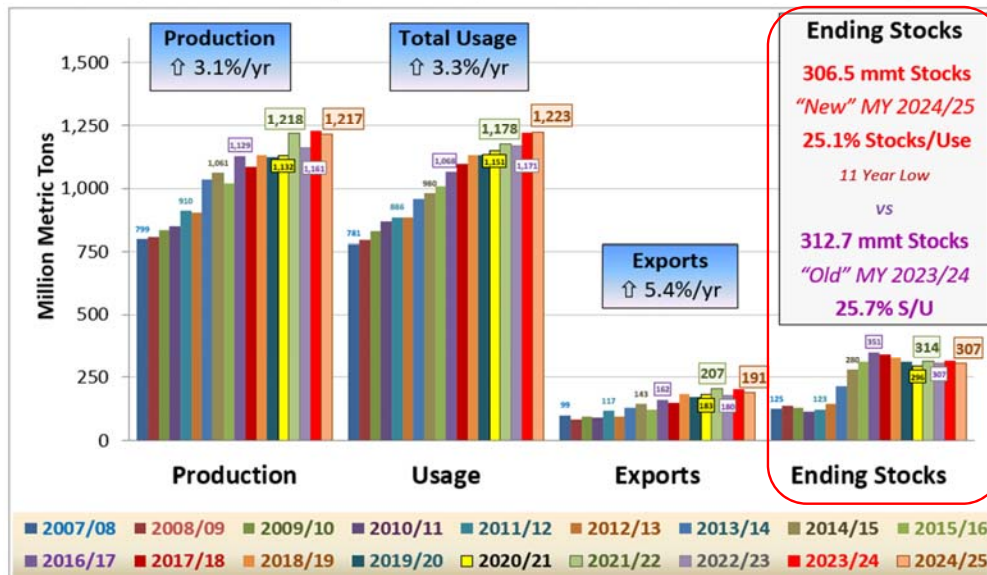
U.S. Corn % Stocks/Use vs Corn \$

MY 2012/13 – “New” MY 2024/25 as of the 10/11/2024 WASDE + KSU estimates



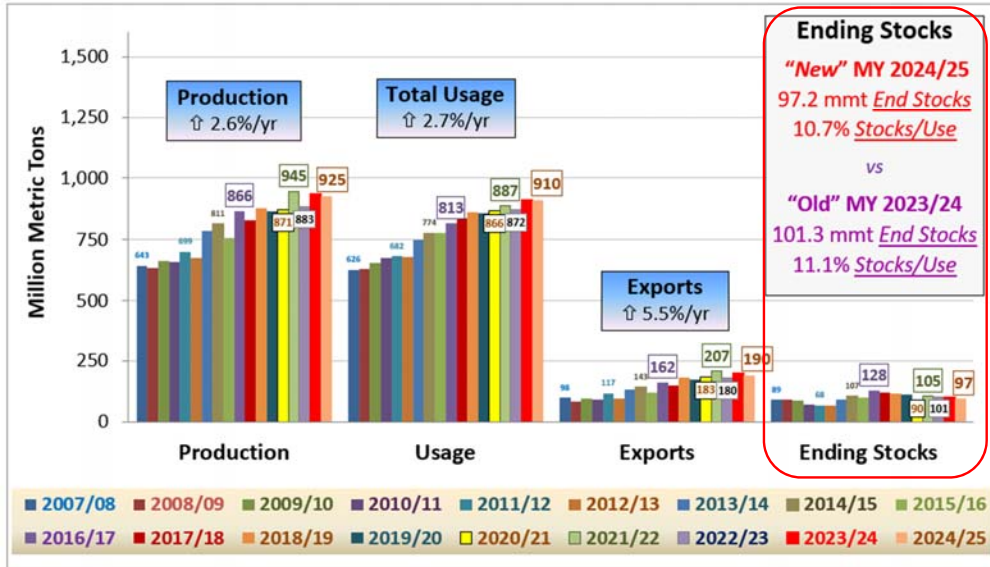
World Corn Supply-Demand

MY 2007/08 – “New Crop” MY 2024/25 as of the October 11, 2024 USDA WASDE Report



"World Less-China" Corn Supply-Demand

MY 2007/08 – "New" MY 2024/25 as of the October 11, 2024 USDA WASDE Report



World vs World Less-China Corn % Stocks-to-Use

MY 2007/08 thru "New Crop" 2024/25, as of the October 11, 2024 USDA WASDE report



Brazil Corn Supply-Demand

63

MY 2007/08 – “New Crop” MY 2024/25, as of the October 11, 2024 USDA WASDE report



Mexico Corn Supply-Demand

64

MY 2007/08 – “New Crop” MY 2024/25, as of the October 11, 2024 USDA WASDE report



Ukraine Corn Supply-Demand

MY 2007/08 – “New Crop” MY 2024/25, as of the October 11, 2024 USDA WASDE Report



Russia Corn Supply-Demand

MY 2007/08 – “New Crop” MY 2024/25, as of the October 11, 2024 USDA WASDE Report



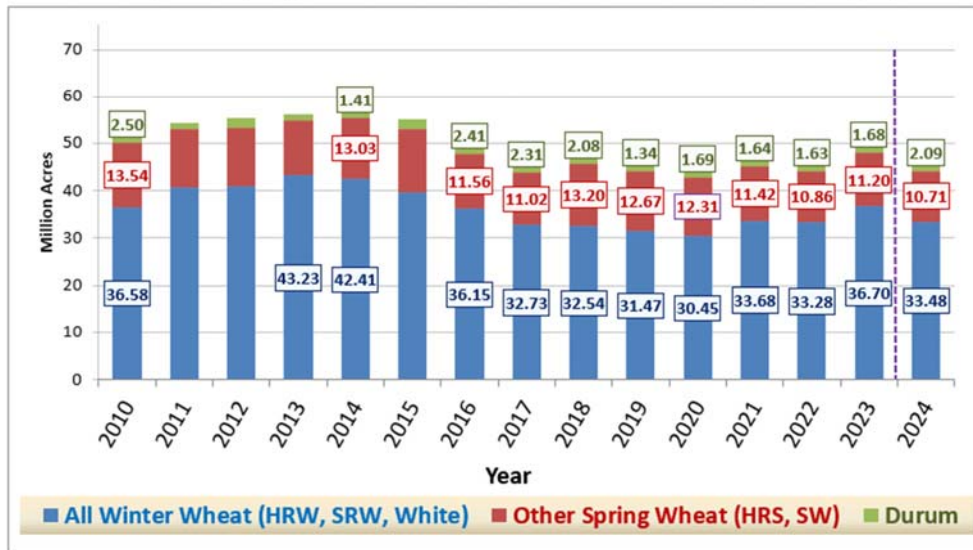
Wheat Markets



U.S. Wheat Planted Acreage 2010-2024

67

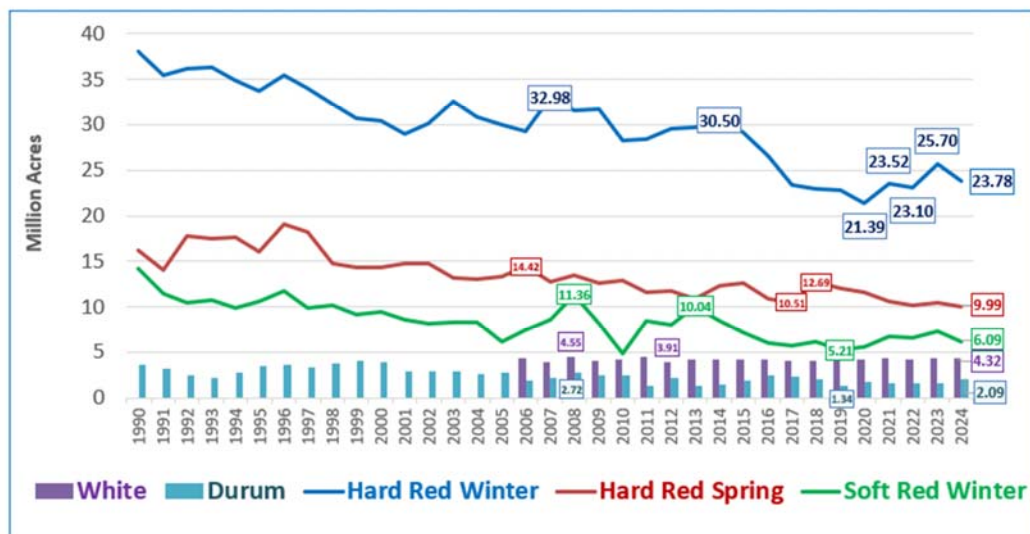
All Winter, Other Spring & Durum ⁽²⁰⁰⁰⁺⁾ – USDA NASS & WASDE Reports on 9/12/2024



U.S. Wheat Planted Acres by Class

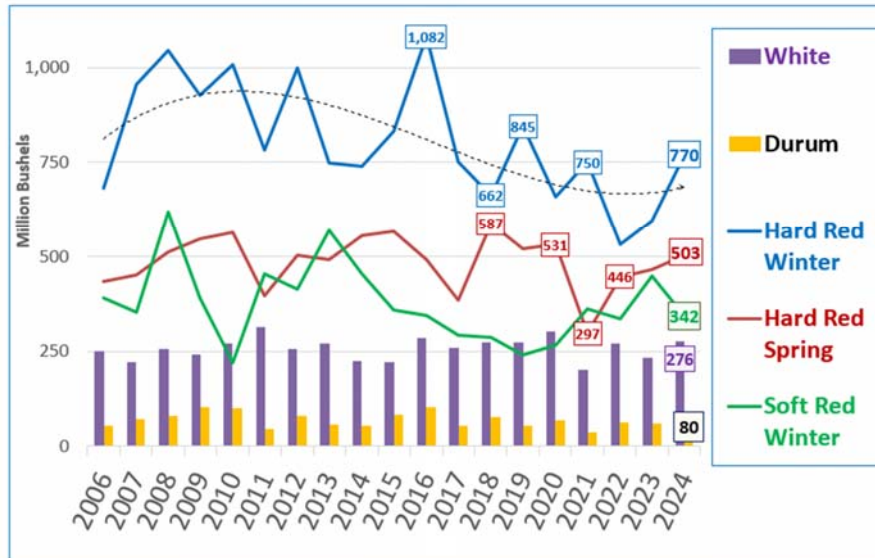
68

Since Year 1990 as of the USDA NASS Crop Production Report, October 11, 2024



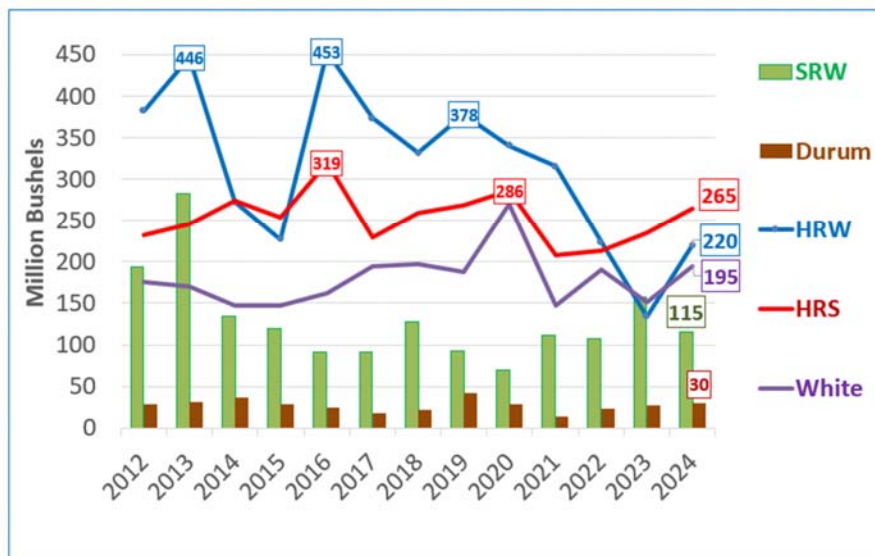
U.S. Wheat Production by Class

From the USDA 10/12/2024 Crop Production & WASDE Reports



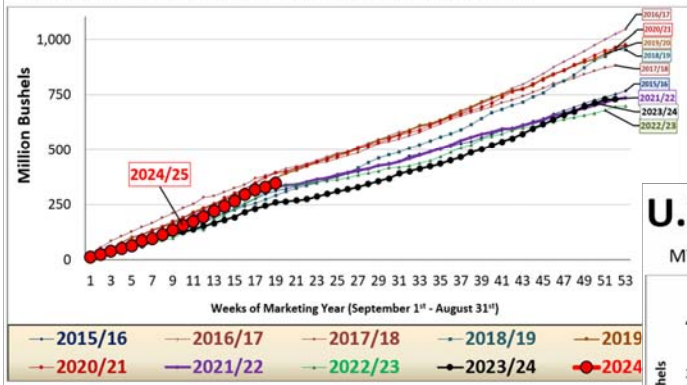
U.S. Wheat Exports by Class

Since Year 1990 as of the October 11, 2024 USDA WASDE



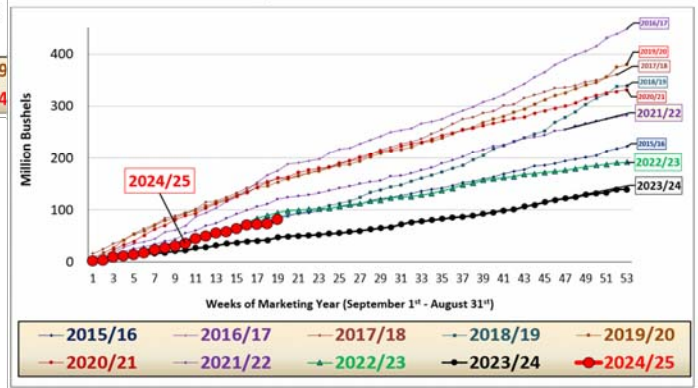
U.S. All Wheat Exports

MY 2015/16 thru "New Crop" MY 2024/25 as of 10/10/2024 USDA FAS Weekly Exports



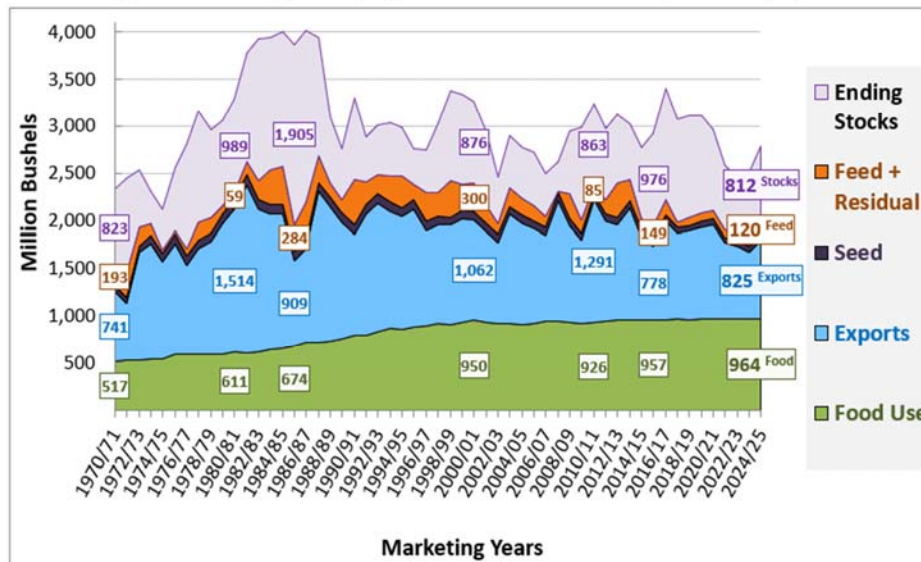
U.S. HRW Hard Red Winter Wheat Exports

MY 2015/16 thru "New Crop" 2024/25 as of 10/10/2024 USDA FAS Weekly Exports



U.S. Wheat Use & Ending Stocks

MY 1970/71 – "New Crop" 2024/25; Source – USDA WASDE Report on 10/11/2024



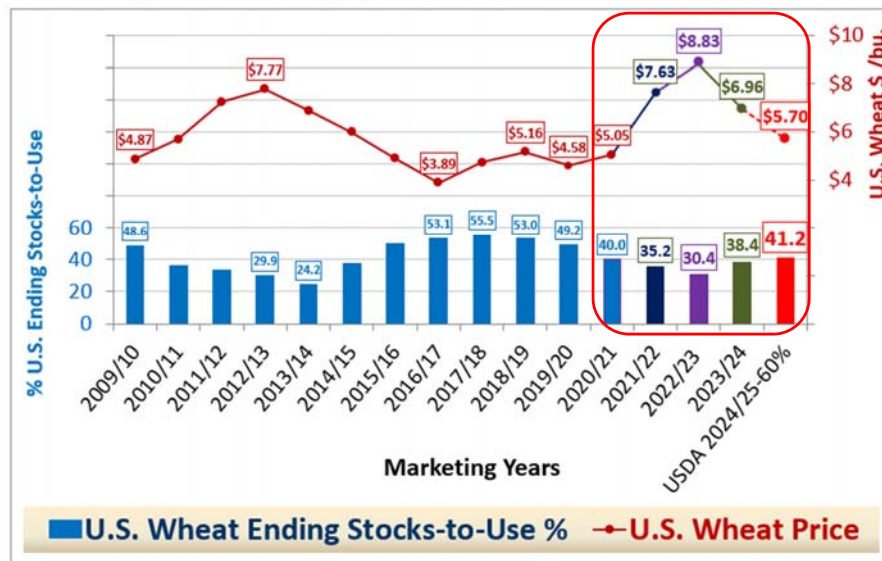
U.S. Wheat Ending Stocks & % S/U

MY 2006/07 – “New” 2024/25; Source – USDA WASDE Report on 10/11/2024



U.S. Wheat % Stocks/Use vs Cash \$'s

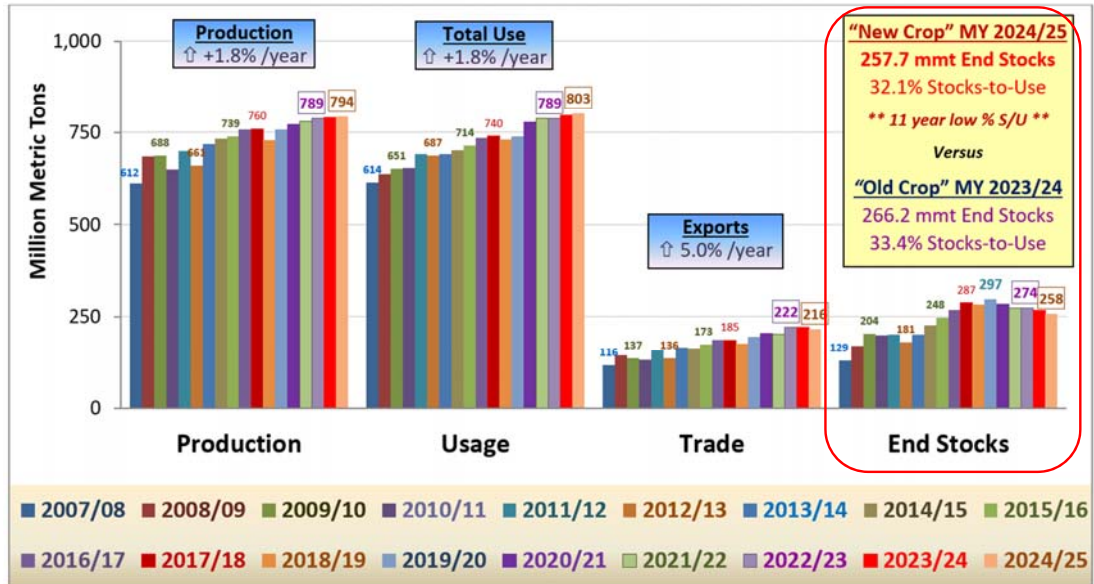
MY 2009/10 – “New” 2024/25; Source – USDA WASDE Report on 10/11/2024



World Wheat Usage & Ending Stocks

75

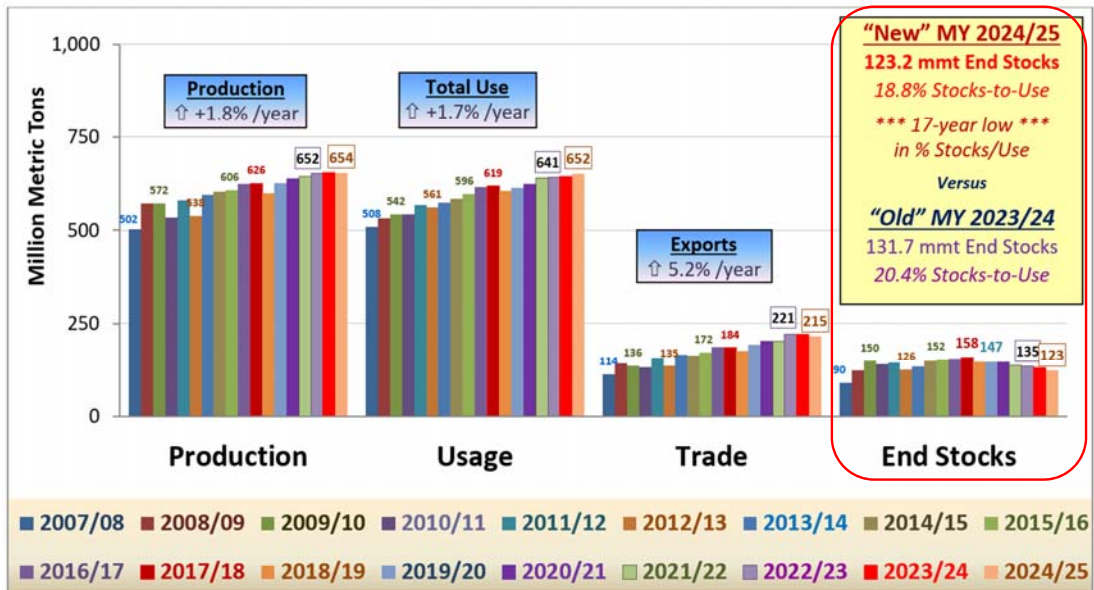
MY 2007/08 - "New Crop" 2024/25 as of the October 11, 2024 USDA WASDE Report



"World Less-China" Wheat Usage & End Stocks

76

MY 2007/08 - "New Crop" MY 2024/25 as of the October 11, 2024 USDA WASDE



World vs "World Less-China" Wheat Stocks & % S/U

MY 2007/08 - "New Crop" MY 2024/25 as of the October 11, 2024 USDA WASDE



Ukraine Wheat Supply-Demand

MY 2013/14 - "New Crop" MY 2024/25 as of the October 11, 2024 USDA WASDE



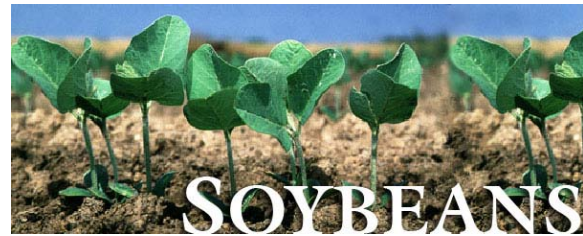
Russia Wheat Supply-Demand

MY 2013/14 - "New Crop" MY 2024/25 as of the October 11, 2024 USDA WASDE



Soybean Markets

79



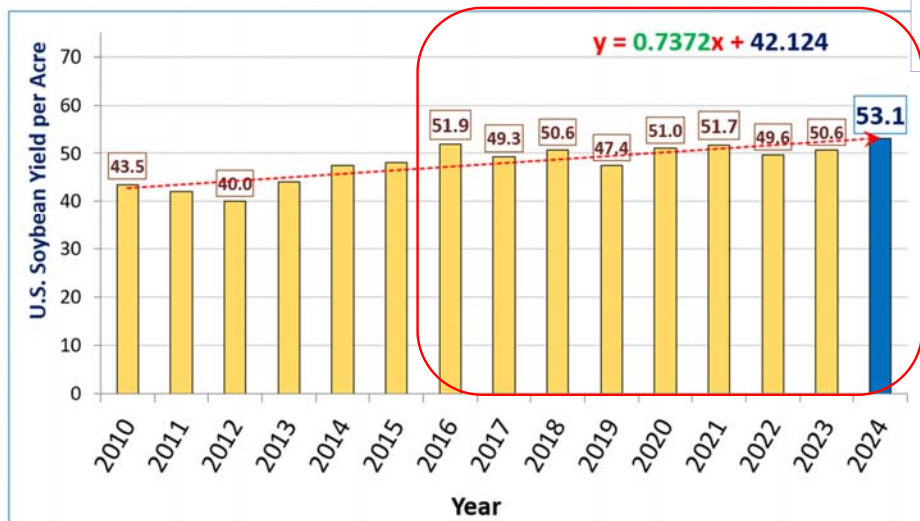
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U.S. Soybean Yields: 2010-2024

80

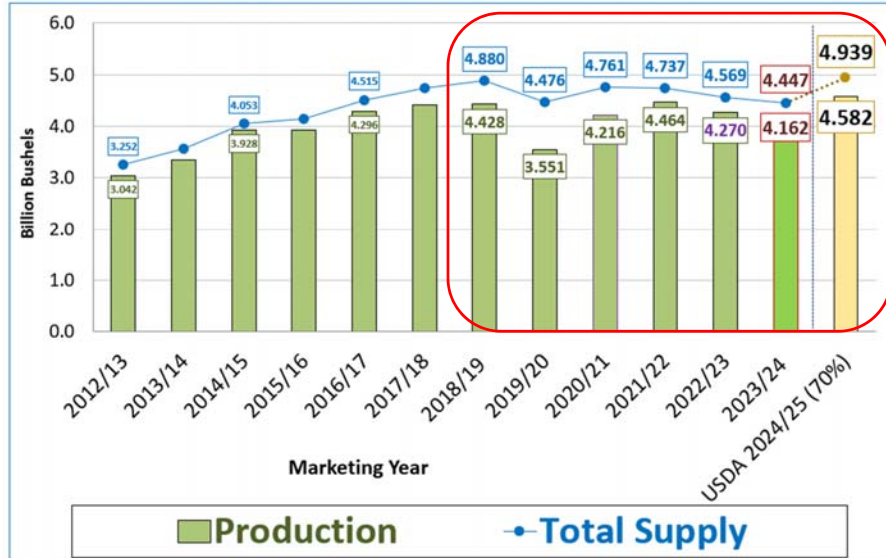
Years 2010-2024, as of the USDA WASDE Report on October 11, 2024



53.1 bu/ac
in 2024^{USDA}

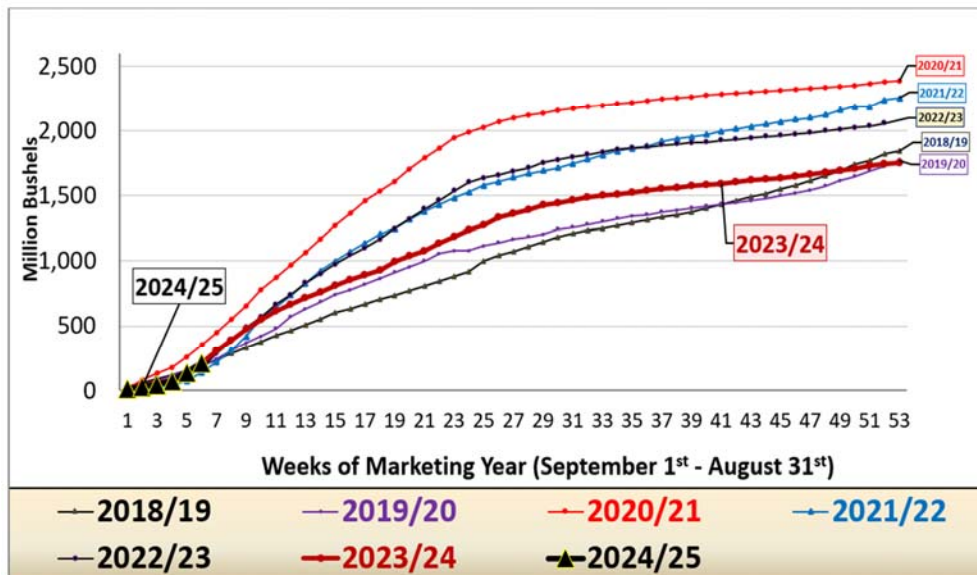
U.S. Soybean Production & Supply

MY 2012/13 thru "New" 2024/25: As of the 10/11/2024 WASDE Report



U.S. Soybean Exports Through 10/10/2024

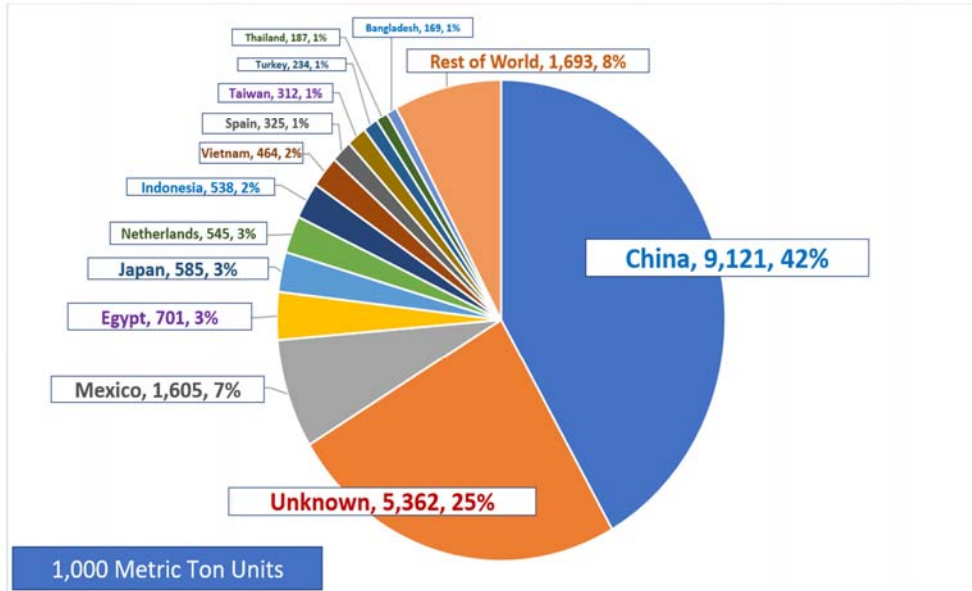
MY 2018/19 thru "Current" MY 2023/24, USDA FAS Weekly Export #s



U.S. Soybean Exports Outstanding Sales + Shipments

83

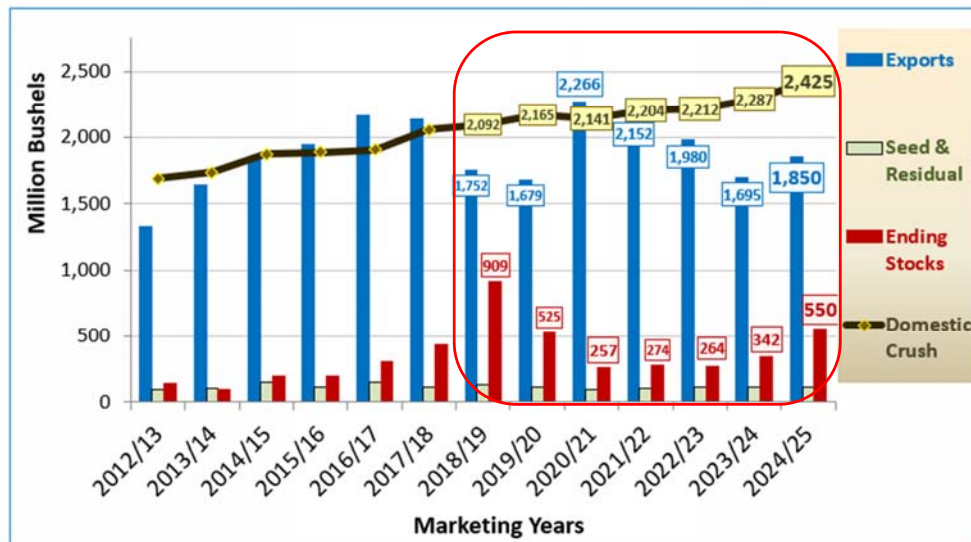
"New Crop" MY 2024/25 as of the 10/10/2024 USDA U.S. Export Forward Purchases (1,000 mt)



U.S. Soybean Use & Ending Stocks

84

MY 2012/13 – "New" 2024/25, Source: 10/11/2024 WASDE Report



U.S. Soybean Stocks & % S/U



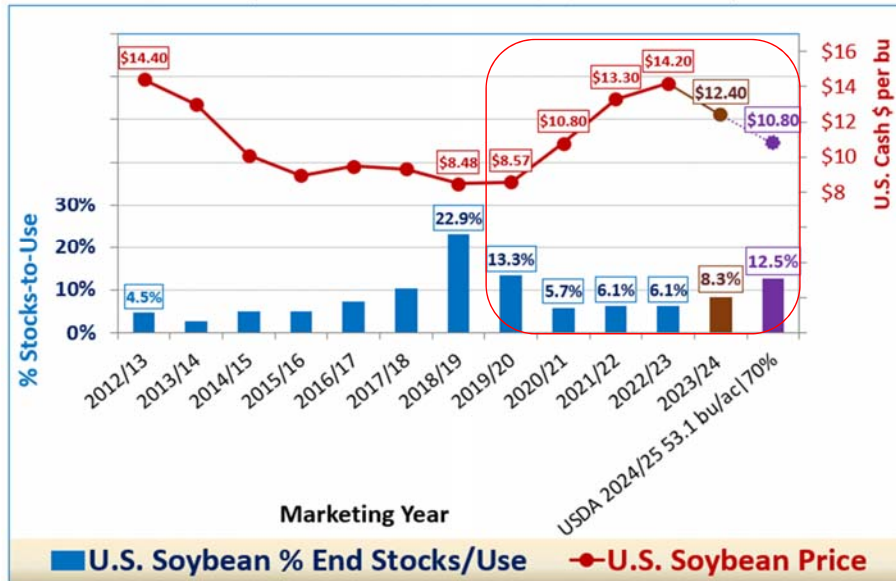
MY 2012/13 through "New" 2024/25; Source: 10/11/2024 WASDE Report



U.S. Soybean % Stocks/Use vs Price\$

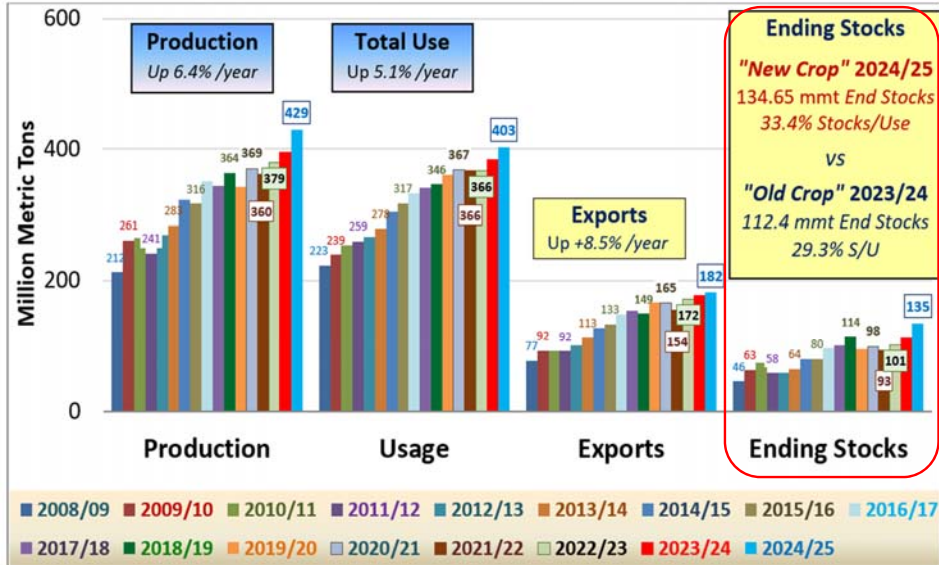


MY 2012/13 through "New" 2024/25; Source: 10/11/2024 WASDE Report



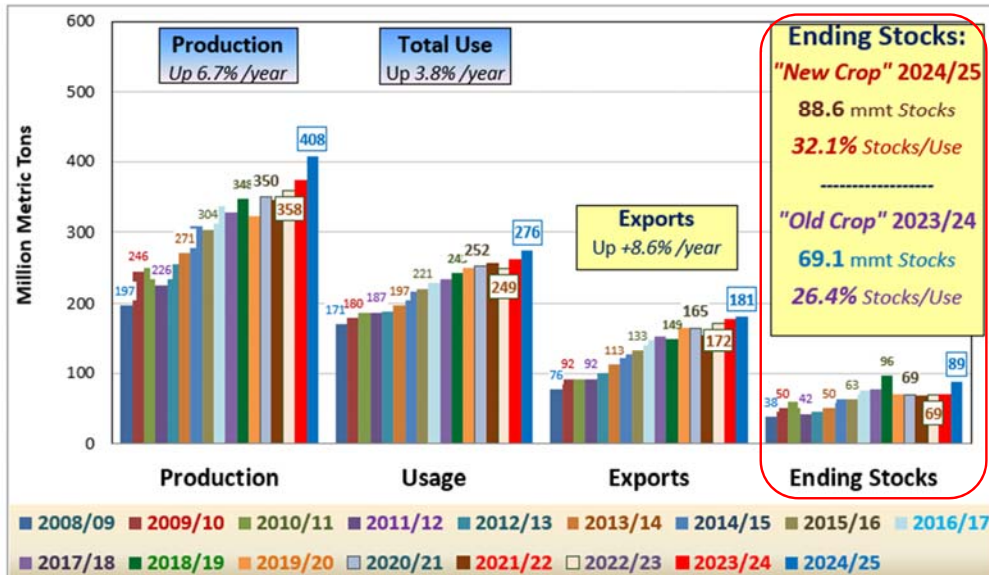
World Soybean S-D & End Stocks

MY 2008/09 thru "New Crop" MY 2024/25 as of the 10/11/2024 WASDE Report



World *Less-China* Soybean S-D & End Stocks

MY 2008/09 thru "New Crop" MY 2024/25 as of the 10/11/2024 WASDE Rpt.



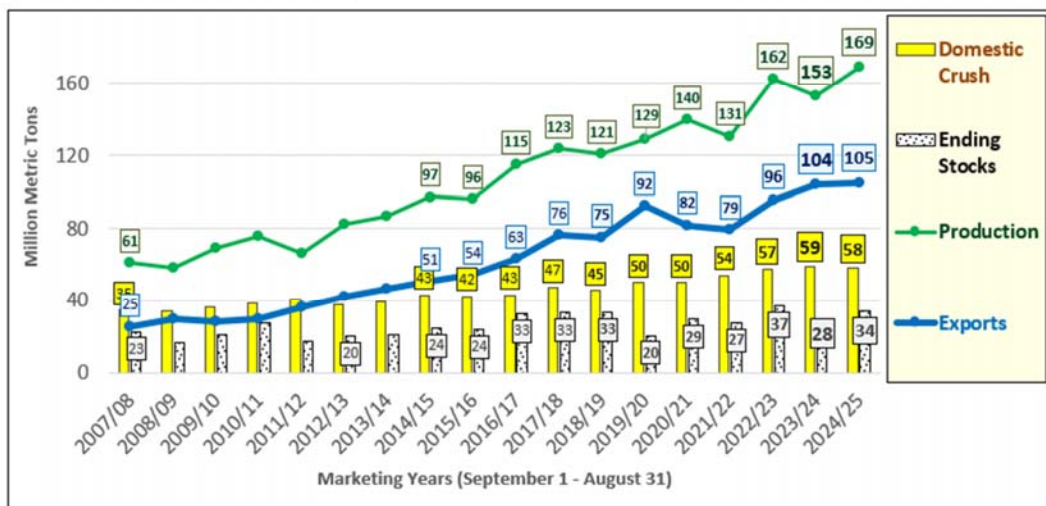
World vs "World Less-China" Soybean % S/U

MY 2007/08 through "New Crop" MY 2024/25, as of the October 11, 2024 USDA WASDE



Brazil Soybean Supply-Demand

MY 2007/08 – "New Crop" MY 2024/25 as of the October 11, 2024 USDA WASDE



Argentina Soybean S-D

MY 2007/08 – “New Crop” MY 2024/25 as of the October 11, 2024 USDA WASDE



China Soybean S-D

MY 2007/08 – “New Crop” MY 2024/25 as of the October 11, 2024 USDA WASDE



U.S. & Global Weather

93

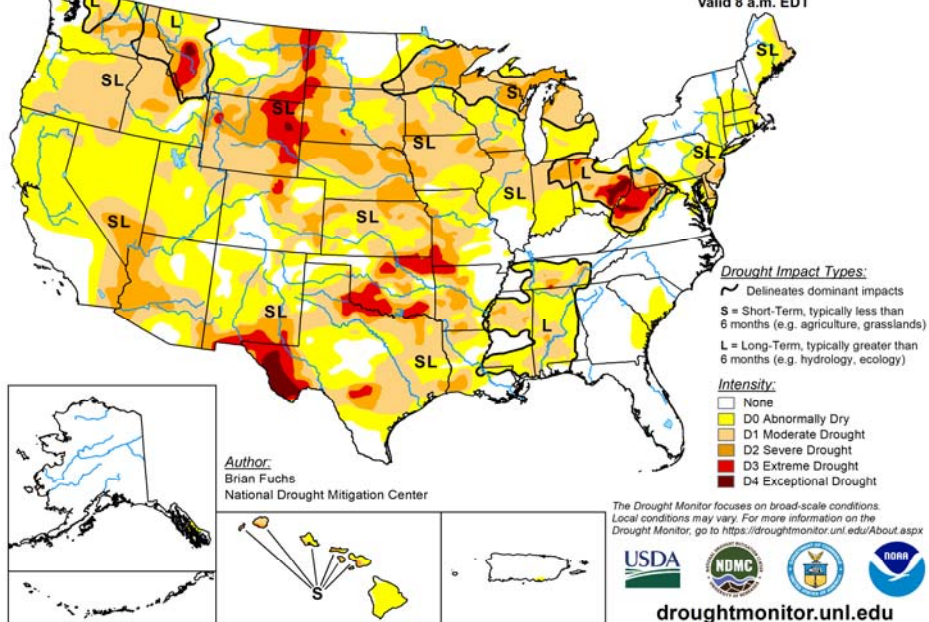


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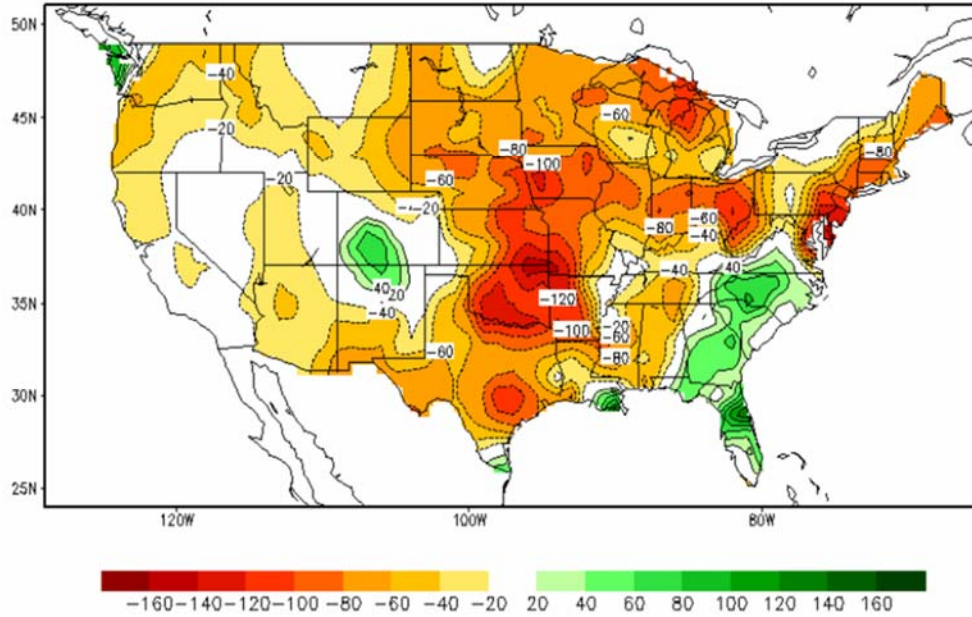
U.S. Drought Monitor

October 15, 2024
(Released Thursday, Oct. 17, 2024)
Valid 8 a.m. EDT

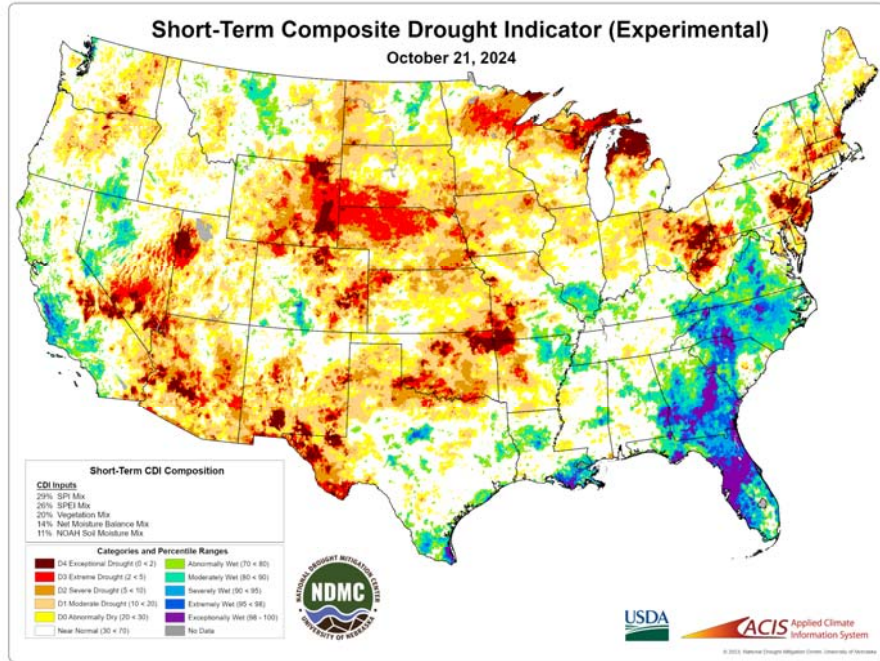
94



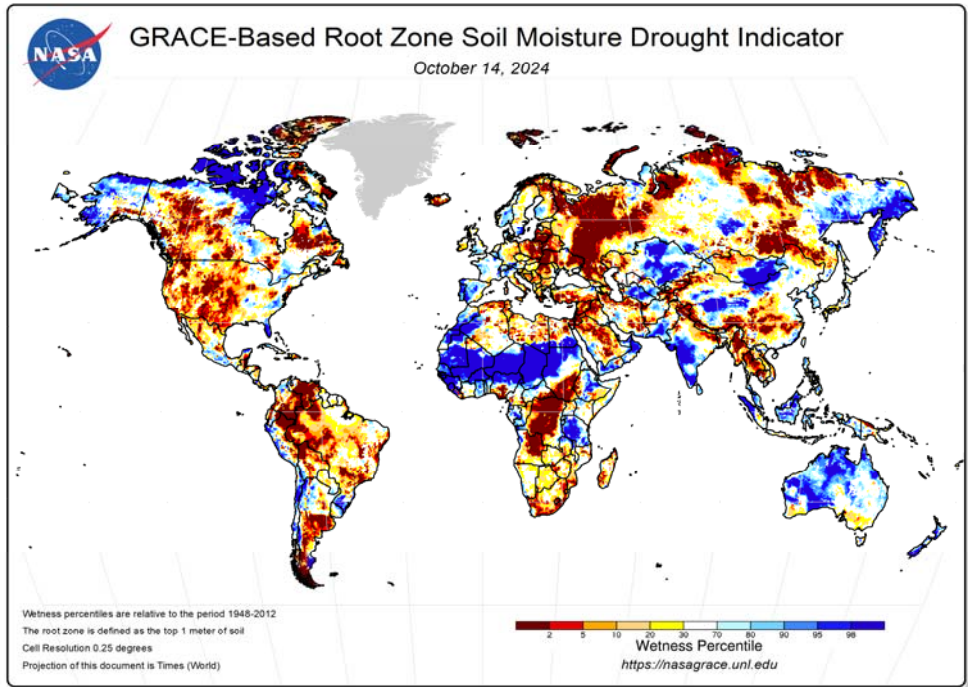
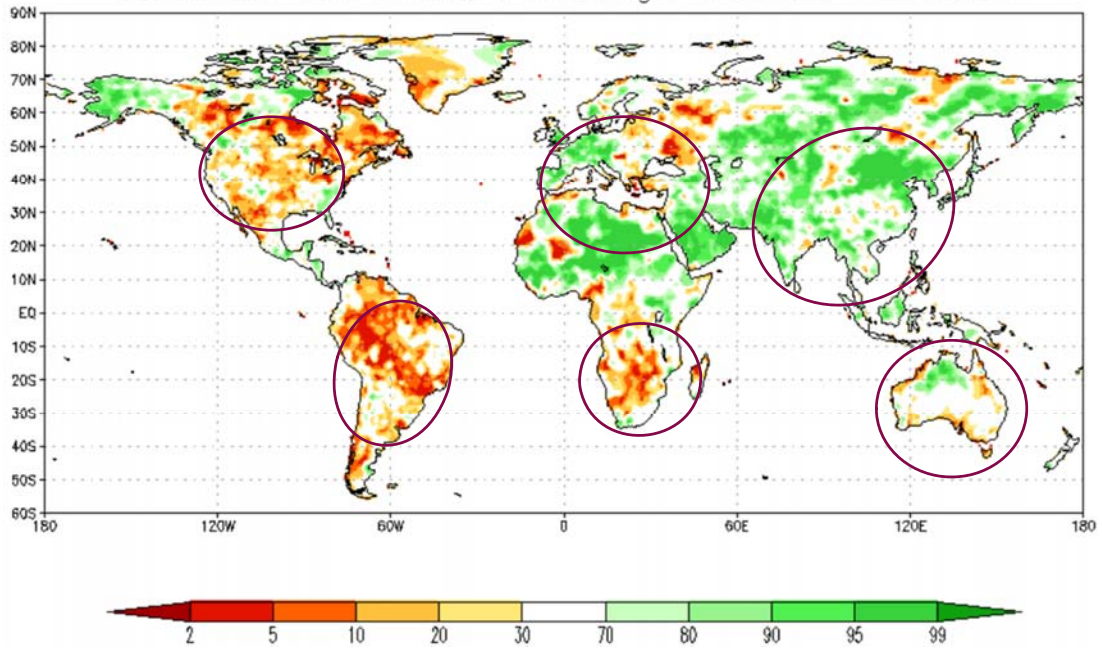
Calculated Soil Moisture Anomaly (mm) OCT 22, 2024



Short-Term Composite Drought Indicator (Experimental) October 21, 2024



Calculated Soil Moisture Ranking Percentile 20241022



Final Perspectives & Questions

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Questions?

Daniel O'Brien – Extension Ag Economist

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www.AgManager.info



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