

# 2024 Grain Market Outlook

## *"Winning-The-Game"* Grain Marketing Webinars

Kansas State University

May 29, 2024

DANIEL O'BRIEN

EXTENSION AGRICULTURAL ECONOMIST

**KANSAS STATE**  
UNIVERSITY

Department of Agricultural Economics



# U.S. & Global Weather

2

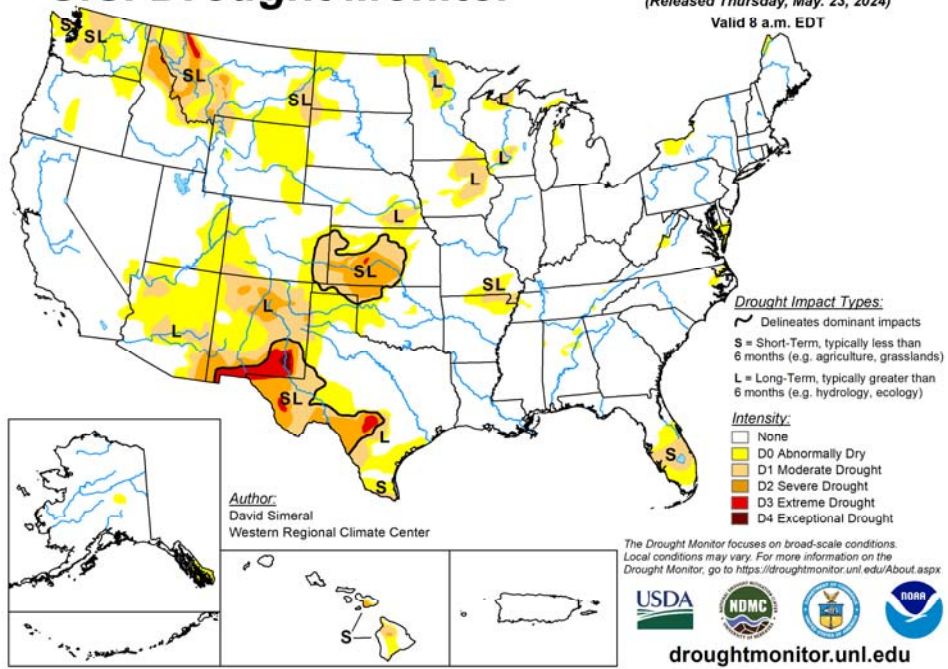


**KANSAS STATE**  
UNIVERSITY Department of Agricultural Economics

# U.S. Drought Monitor

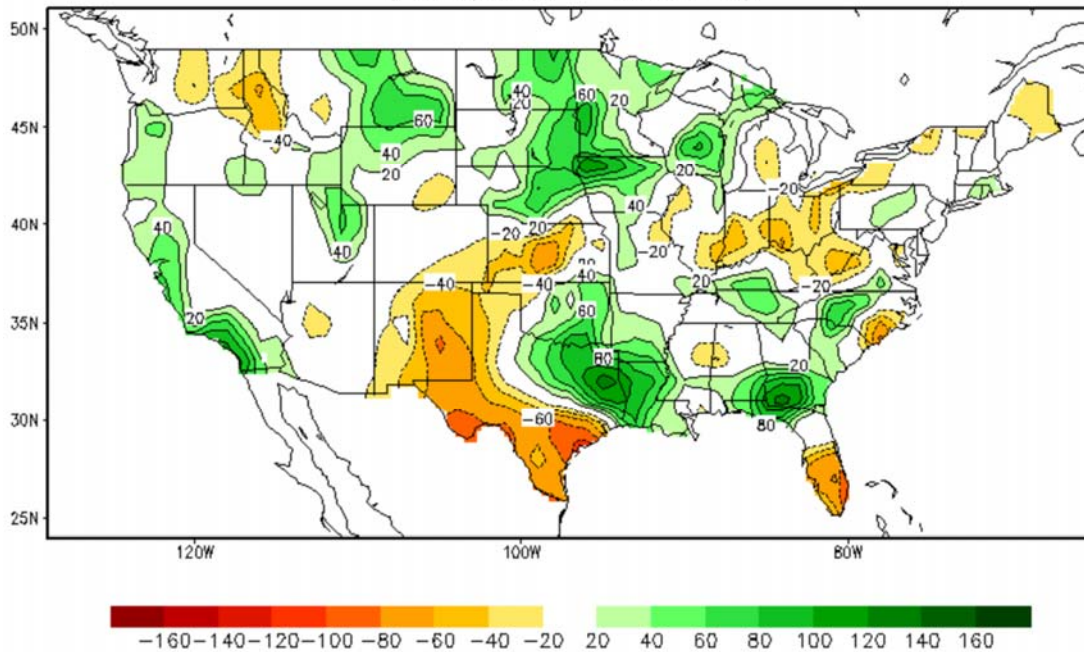
May 21, 2024  
(Released Thursday, May 23, 2024)  
Valid 8 a.m. EDT

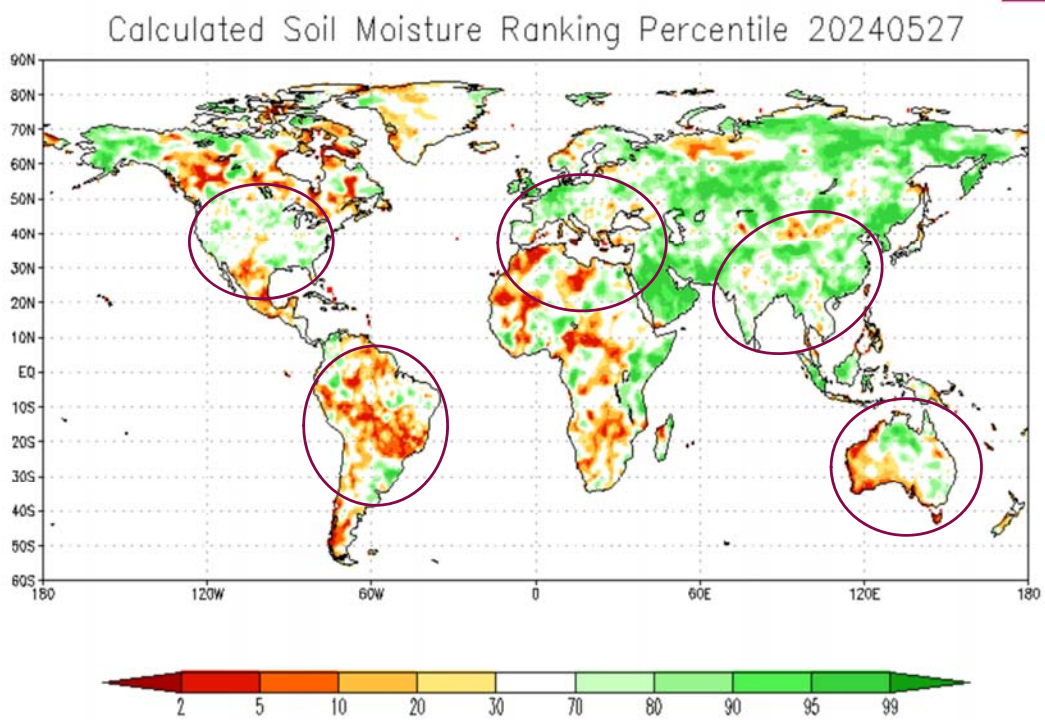
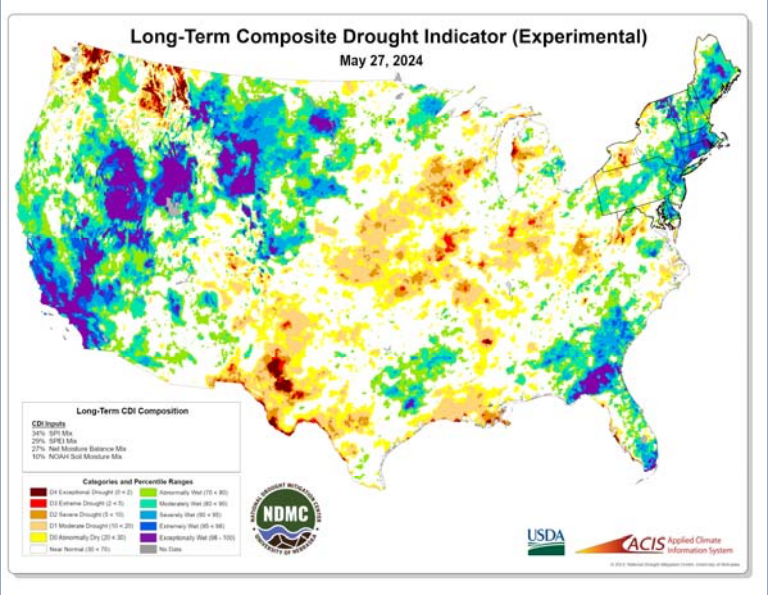
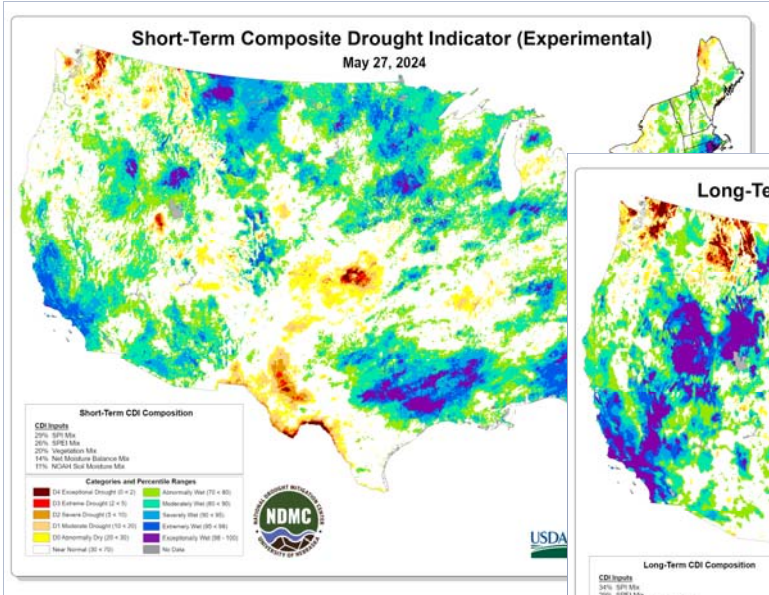
3

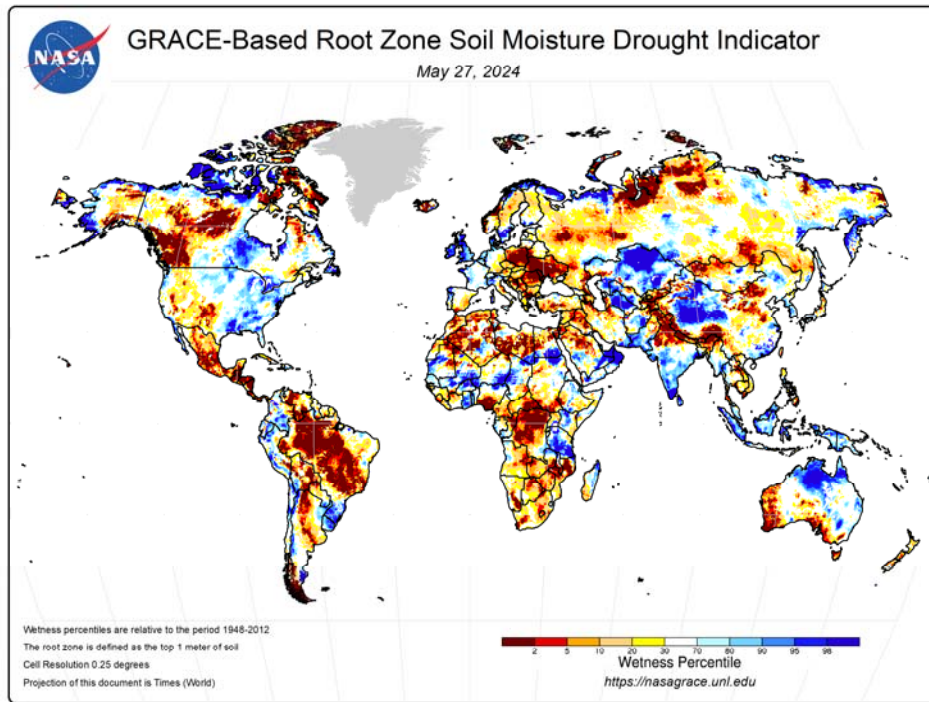


## Predicted Soil Moisture Anomaly (mm) (29May2024-05Jun2024)

4







7

## EL NIÑO/SOUTHERN OSCILLATION (ENSO)

8

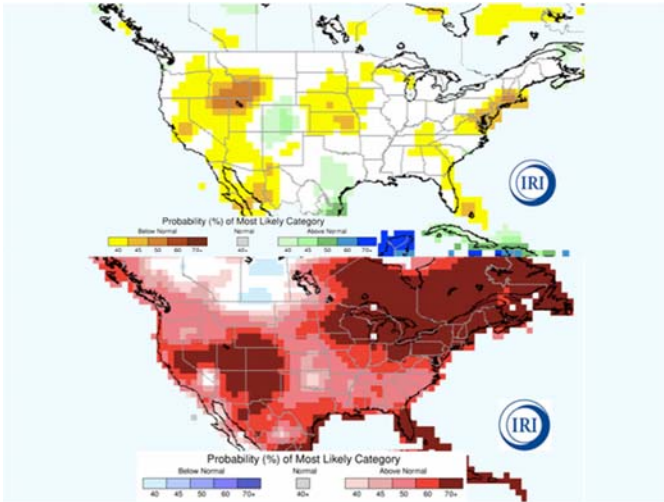
Diagnostic Discussion; Climate Prediction Center / NCEP / NWS, April 11, 2024

- A *transition from El Niño to ENSO-neutral* is likely by **April-June 2024 (85% chance)**, with the odds of *La Niña developing by June-August 2024 (60% chance)*

### DTN Ag Weather Forum: How Could a Developing La Nina Affect Corn Yields? <sup>3/18/2024</sup>

Bryce Anderson, Ag Meteorologist Emeritus, @BAndersonDTN (Twitter)

- With La Nina indicated to form by mid to late summer, **there is a notable potential decline in corn production** from levels posted in [USDA's 2024 Outlook Forum](#).
- The **Outlook Forum** projected U.S. corn production at **15.04 bb in 2024**. Applying that 7% potential decline in production in 2010 and 2020 to the [2024 USDA Outlook Forum](#) numbers for corn would give a total corn production number of **13.99 bb** -- *1.05 bb less than the Outlook Forum projection*. That, in turn, would mean that the **total U.S. corn supply** would be **less** than the projected record total supply of 17.237 bb that the Outlook Forum noted.
  - **La Nina settling in during the last half of the growing season** in the analog years of 2010 and 2020 was significant in its *shaving of U.S. corn production* & suggests that there could be *some corn yield & production downgrading* as the 2024 season progresses.



# Ag Weather Forum

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How Could a Developing La Nina Affect Corn Yield?

3/18/2024 | 9:49 AM CDT



By Bryce Anderson, Ag Meteorologist Emeritus

Connect with Bryce:

[@BAndersonDTN](#)

Public & private seasonal forecasts, such as the **International Climate & Research Institute (IRI)**, call for “*warm to hot*” weather & “*drier-than-usual*” conditions in the central U.S. during the corn-filling period of **July, August & September** because of a **forming La Nina event** in the Pacific Ocean. (IRI graphic)

<https://www.dtnpf.com/agriculture/web/aq/news/article/2024/03/18/developing-la-nina-affect-corn-yield-2>

# Feedgrain Markets

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**KANSAS STATE UNIVERSITY**

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# ELEC. CORN (@C2024N)

Print

11

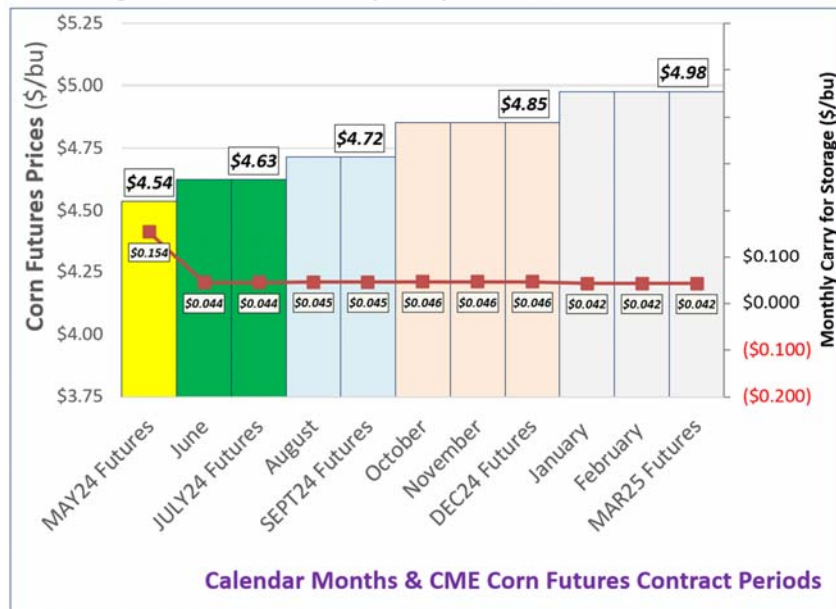


## CME Corn Futures *Lead & Deferred Contracts*



12

Closing Prices as of Tuesday, May 28, 2024



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

TFC Commodity Charts

13

ZC - Corn (Globex) - Monthly Chart

Change: 14.500

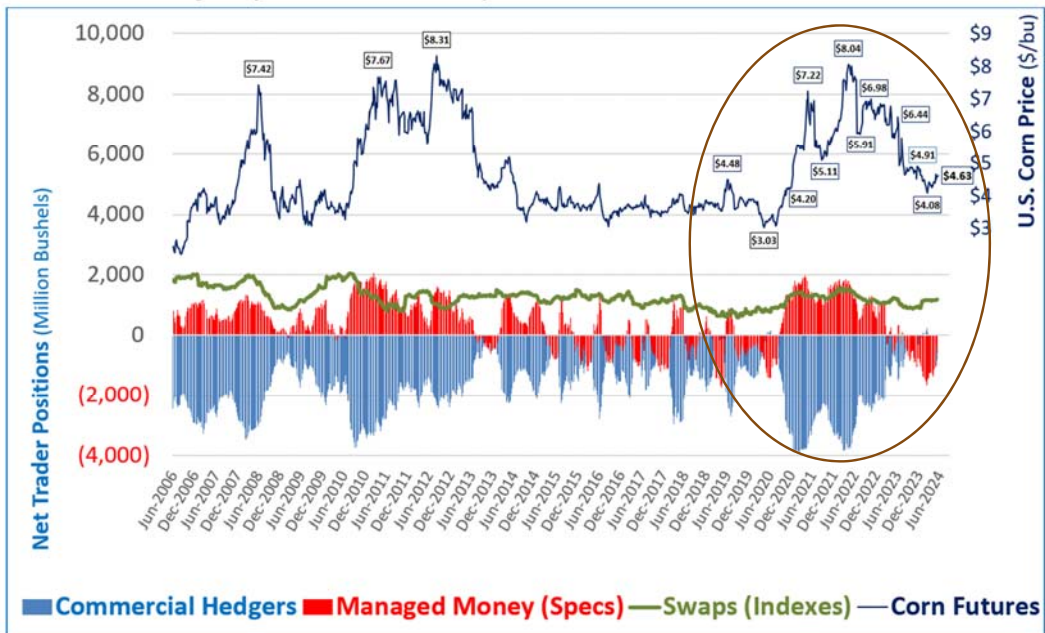
05/29/2024 O: 446.750 H: 475.500 L: 443.750 C: 461.250 Vol: 378940 OI: 1498434



# Corn Futures-Net Position of Traders

14

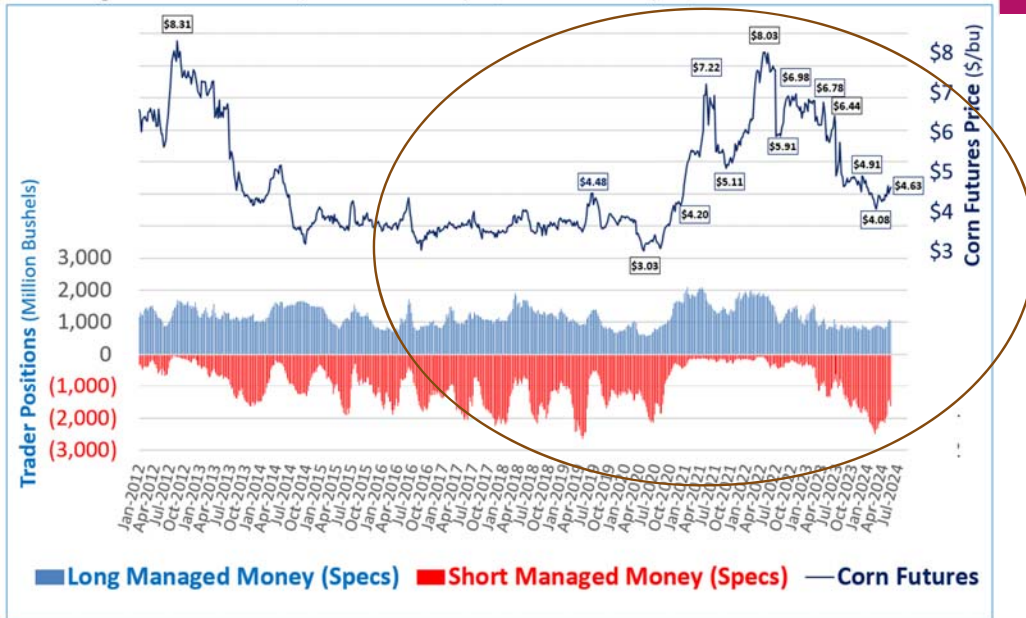
June 2006 through May 21, 2024 <sup>CFTC Data</sup> + May 28, 2024 JULY <sup>2024</sup> Corn Futures Closes



# Corn Futures - Managed Money Traders Specs

15

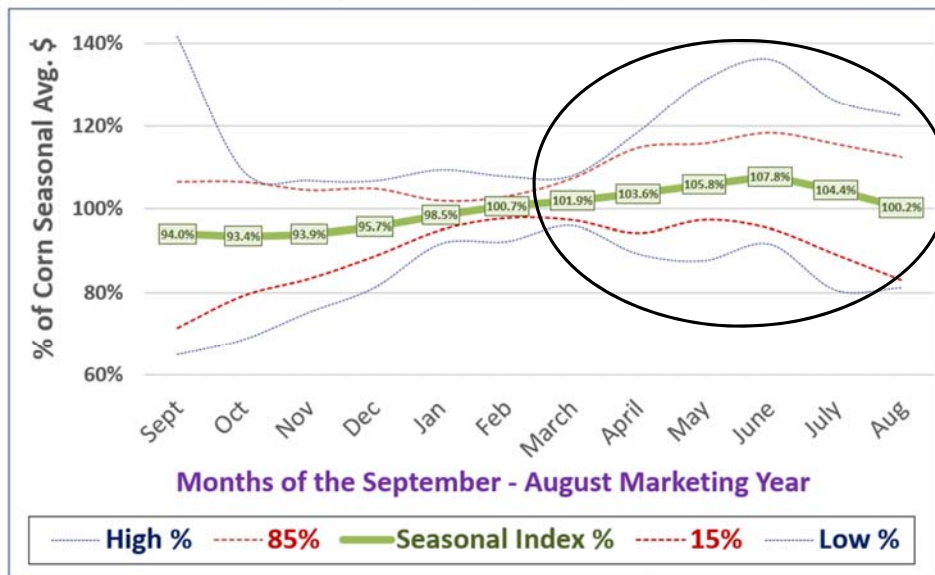
Long & Short Positions, June 2012 thru May 21, 2024<sup>CFTC Data</sup> + May 28, 2024 JULY<sup>2024</sup> Corn Futures <sup>Closes</sup>



# Corn Seasonal Price Index <sup>Kansas</sup>

16

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

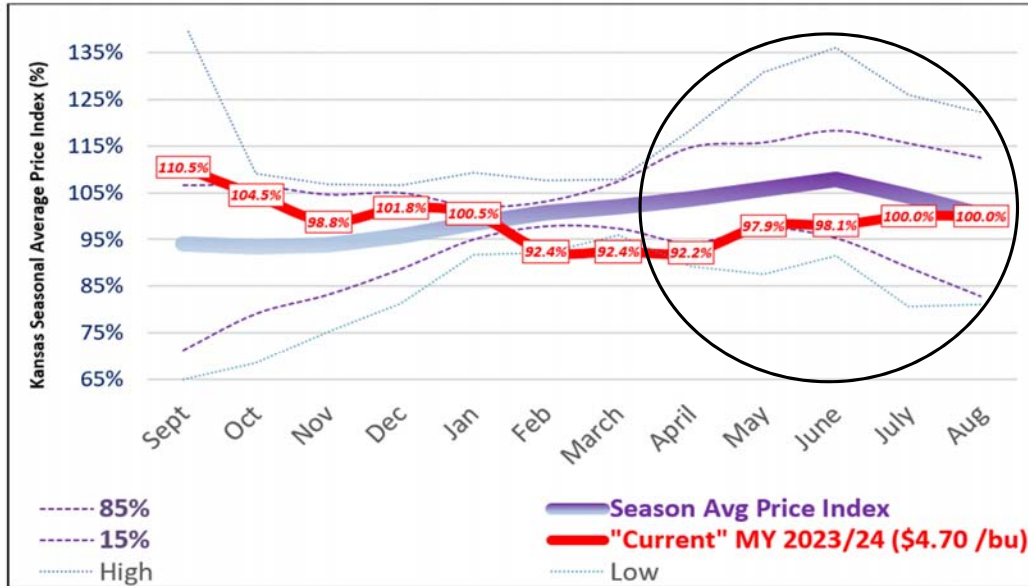




# U.S & Kansas Corn Seasonal \$'s

17

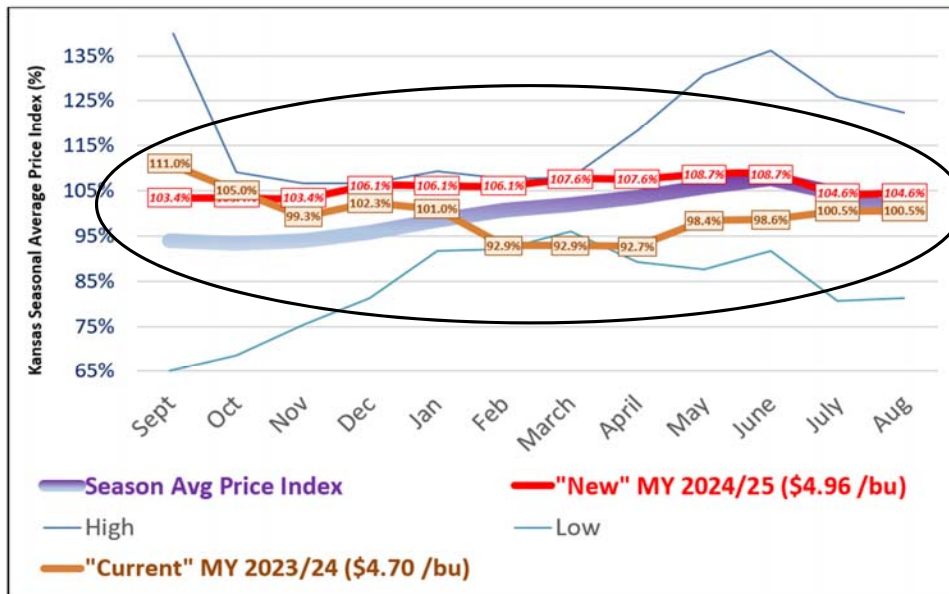
MY 1999/00 – MY 2022/23 plus "Current" 2023/24 as of 5/28/2024 – Futures Estimate



# U.S & Kansas Corn Seasonal \$'s

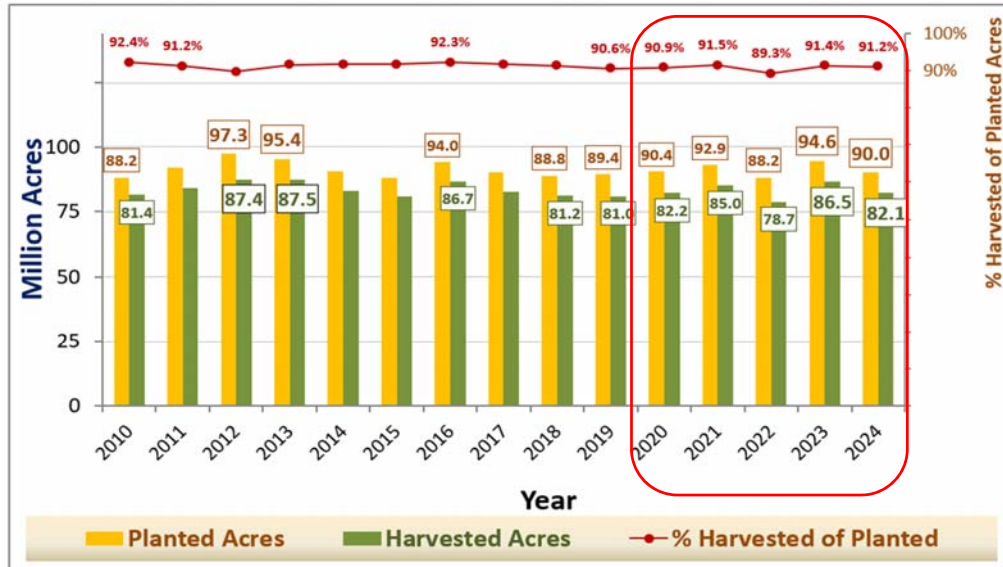
18

MY 1999/00 – MY 2022/23 plus "Current" 2023/24 & "New" 2024/25 as of 5/28/2024



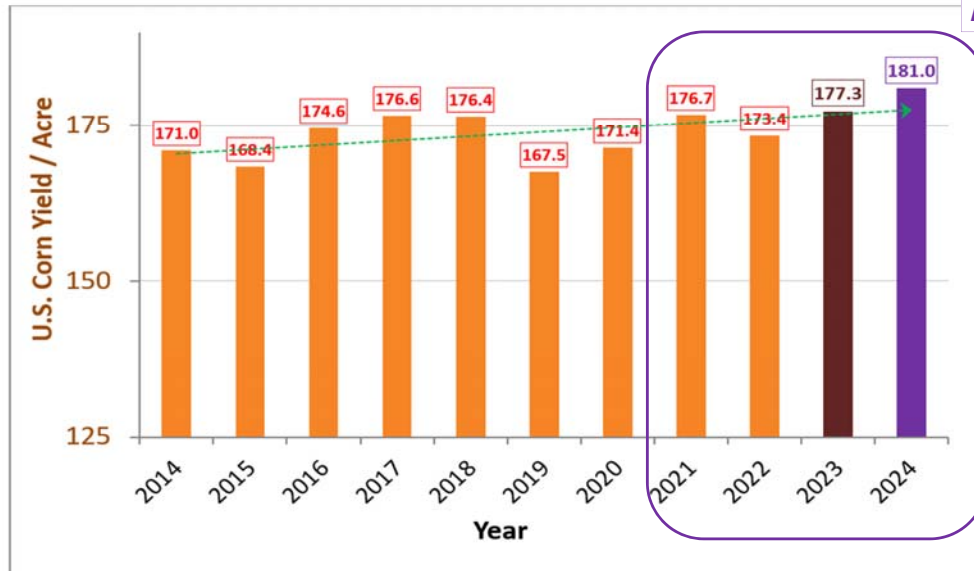
# U.S. Corn Acres for 2010-2024

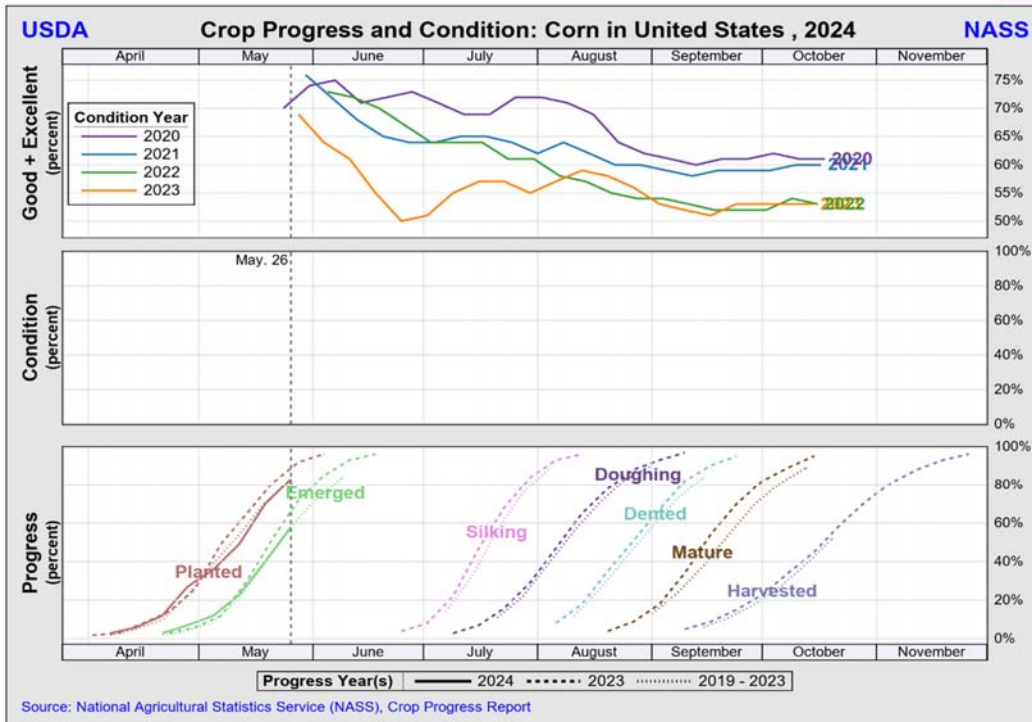
Sources: USDA WASDE Report 5/10/2024



# U.S. Corn Yields for 2014-2024

Source: The USDA WASDE Report 5/10/2024 Ag Outlook



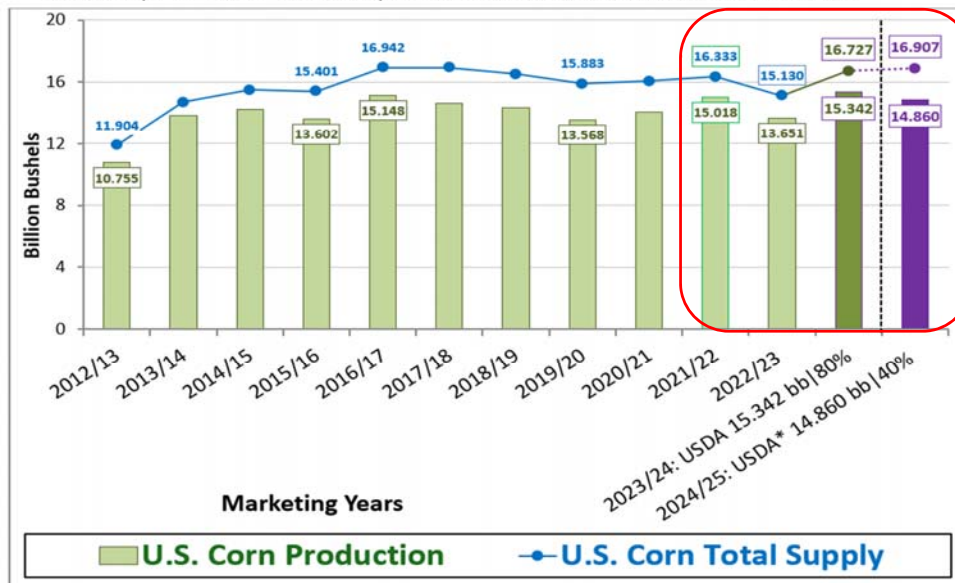


21

# U.S. Corn Production & Supplies

22

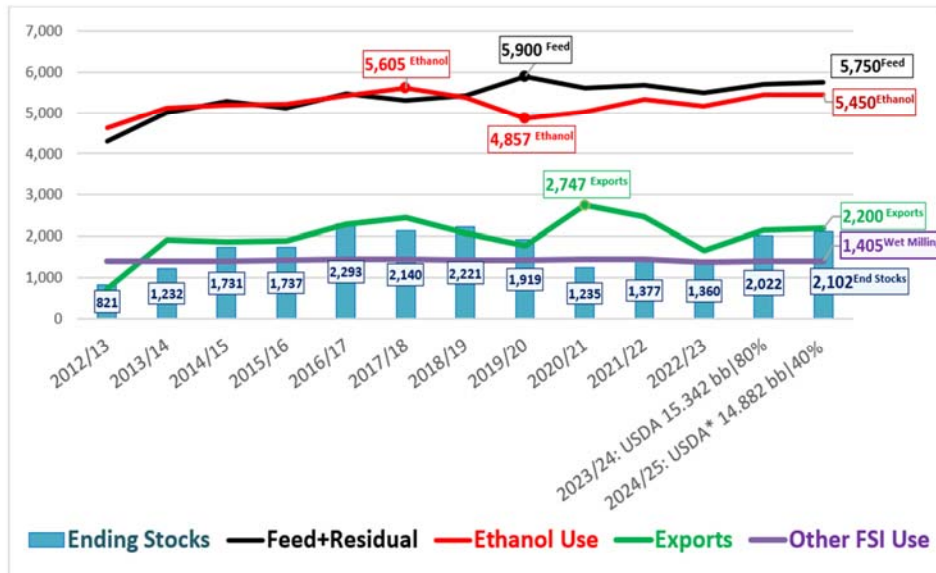
MY 2012/13 - "New" MY 2024/25: as of the 5/10/2024 WASDE + KSU estimates



# U.S. Corn Use & Ending Stocks

23

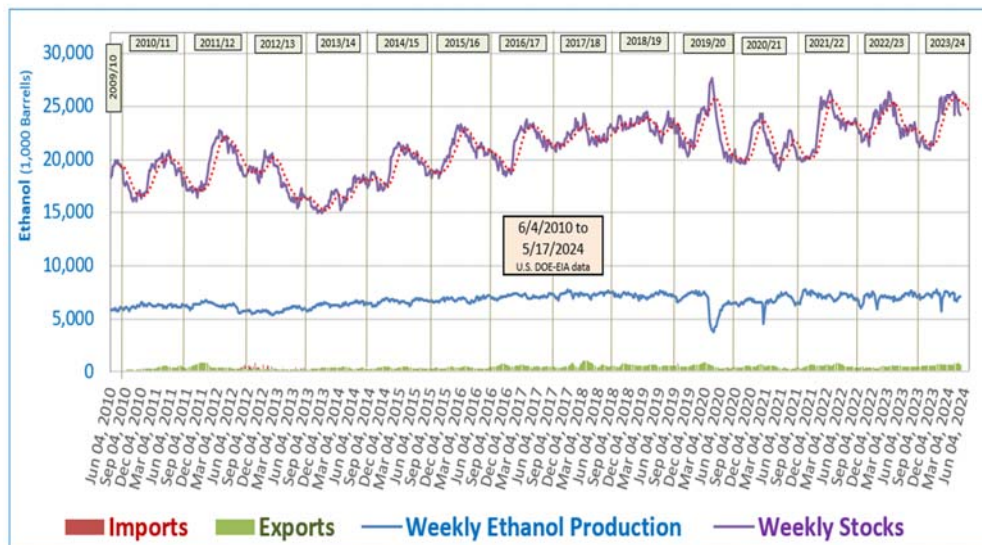
MY 2012/13 thru "New Crop" MY 2024/25 as of the 5/10/2024 WASDE + KSU estimates



# U.S. Ethanol Production & Stocks Weekly

24

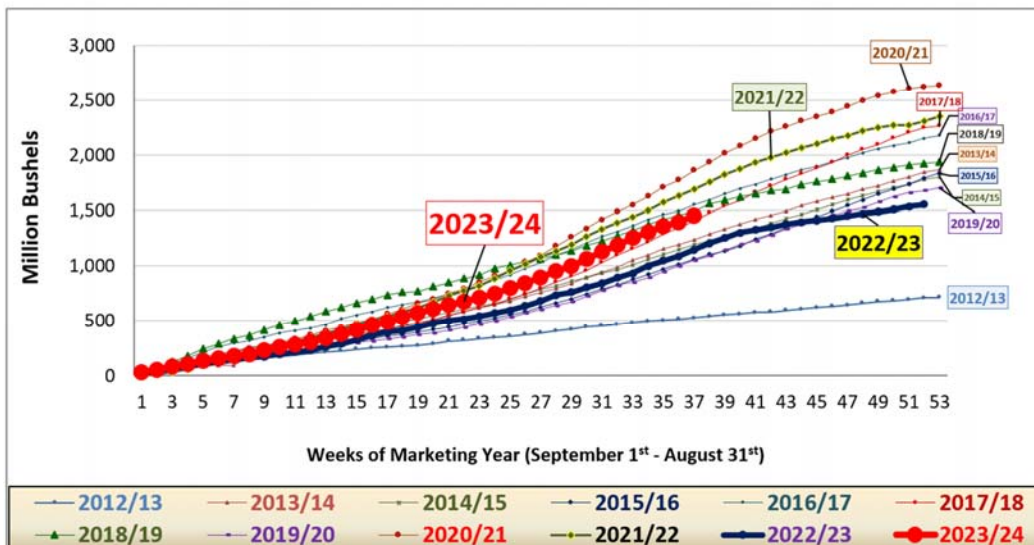
Based on U.S. DOE – EIA on U.S. Ethanol Industry Trends as of May 17, 2024



US #2 Yellow Corn -Bulk							
Ethanol Plant							
State/Province/Region	Sale Type	Basis (¢/bu)	Basis Change	Price (\$/Bu)	Price Change	Average	Year Ago
Illinois	Bid	-25.00N to 15.00N	UNCH	4.3750-4.7750	DN 0.0225	4.6021	6.3350
Indiana	Bid	-18.00N to 15.00N	UNCH	4.4450-4.7750	DN 0.0225	4.5606	6.3756
Iowa East	Bid	-3.00N to 18.00N	UNCH-UP 6	4.5950-4.8050	DN 0.0225-UP 0.0375	4.6808	6.4092
Iowa West	Bid	-15.00N to 25.00N	UNCH	4.4750-4.8750	DN 0.0225	4.7041	6.6409
Kansas	Bid	20.00N to 80.00N	UNCH	4.8250-5.4250	DN 0.0225	5.1625	6.6000
Michigan	Bid	-55.00N to -30.00N	UNCH	4.0750-4.3250	DN 0.0225	4.2083	6.0067
Minnesota	Bid	-43.00N to 10.00N	UNCH	4.1950-4.7250	DN 0.0225	4.4964	6.4560
Missouri	Bid	-25.00N to -10.00N	UNCH	4.3750-4.5250	DN 0.0225	4.4625	6.2925
Nebraska	Bid	-8.00N to 35.00N	UNCH	4.5450-4.9750	DN 0.0225	4.7497	6.6736
Ohio	Bid	-30.00N to -10.00N	UNCH	4.3250-4.5250	DN 0.0225	4.4583	6.2900
South Dakota	Bid	-40.00N to 4.00N	UNCH-UP 3	4.2250-4.6650	DN 0.0225-UP 0.0075	4.3381	6.4677
Wisconsin	Bid	-40.00N to -18.00N	UNCH	4.2250-4.4450	DN 0.0225	4.3500	5.9920

## U.S. Corn Exports: MY 2012/13 thru "Current" MY 2023/24

Based on USDA FAS Weekly Export reports through 5/16/2024



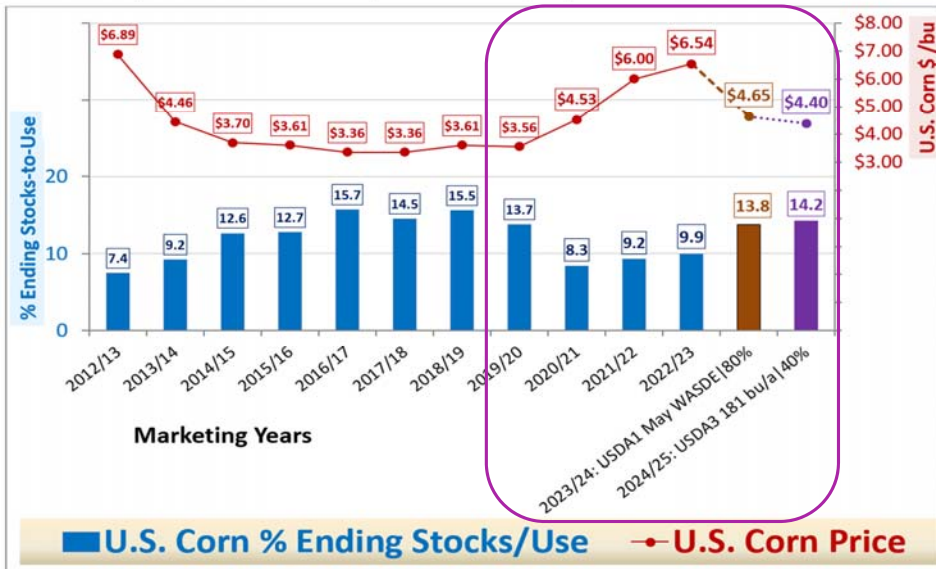
# U.S. Corn Stocks & % Stocks-to-Use

MY 2012/13 – “New” MY 2024/25 as of the 5/10/2024 WASDE + KSU estimates



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

MY 2012/13 – “New” MY 2024/25 as of the 5/10/2024 WASDE + KSU estimates



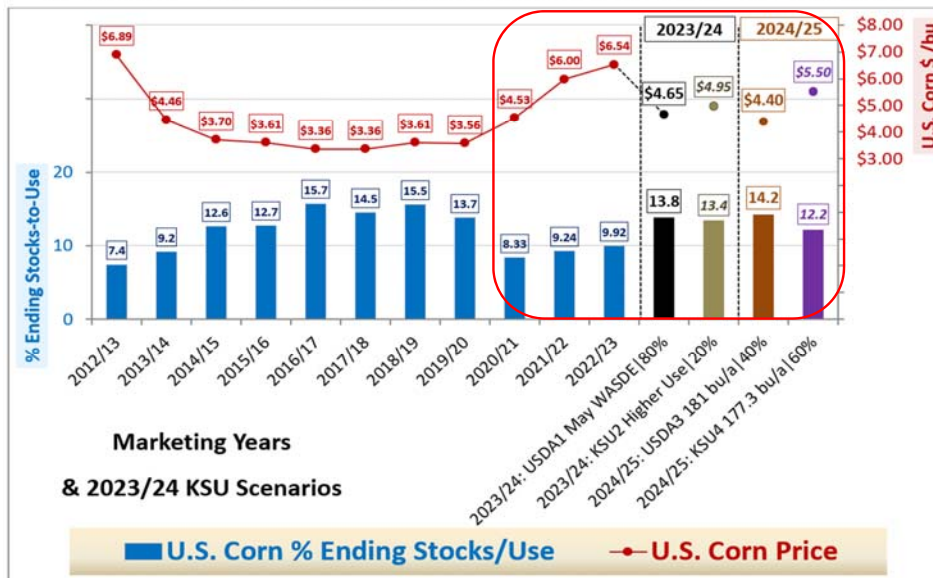
# U.S. Corn Supply-Demand Balance Sheet

"Current" MY 2023/24 & "New" 2024/25 as of the 5/10/2024 WASDE + KSU Ests. <sup>5/28/2024</sup>

Item	A. USDA #1 "Current" MY 2023/24 = 177.3 bu/ac 2.172 mb Ending Stocks	B. KSU #2 "Current" MY 2023/24 "Higher Ethanol, Exports" + 25 mb Ethanol & + 25 mb Exports	C. USDA #3 "New Crop" MY 2024/25 USDA May 2024 WASDE 181 bu/acre Yield 2.102 bb Ending Stocks	D. KSU #4 "New Crop" MY 2024/25 Historic Max U.S. Yield 177.3 bu/acre Yield 1.798 bb Ending Stocks
% Probability of Occurring (KSU)	80% <sup>KSUest</sup>	20% <sup>KSUest</sup>	40% <sup>KSUest</sup>	60% <sup>KSUest</sup>
Planted Area (million acres)	94,641	94,641	90,036	90,036
Harvested Area (million acres)	86,513	86,513	82,099	82,099
Yield / harvested acre (bu/ac)	177.3	177.3	181.0	-3.7 bu/ac 177.3
Million Bushels				
Production (million bu.)	15,342	15,342	14,860	-304 mb 14,556
Total Supply (million bu.)	16,727	16,727	16,907	-304 mb 16,603
Ethanol for fuel Use (million bu.)	5,450	+ 25 mb 5,475	5,450	5,450
Exports (million bu.)	2,150	+ 25 mb 2,175	2,200	2,200
Total Use (million bu.)	14,705	+ 50 mb 14,755	14,805	14,805
Ending Stocks (million bu.)	2,022	- 50 mb 1,972	2,102	-304 mb 1,798
% Ending Stocks-to-Use	13.75%	13.36%	14.20%	12.15%
U.S. Corn Average Farm Price (\$/bushel)	\$4.65 <sup>USDA</sup> \$4.70 <sup>KSU 5/28/2024</sup>	\$4.95 <sup>KSU</sup> \$4.70 <sup>KSU 5/28/2024</sup>	\$4.40 <sup>USDA</sup> \$4.96 <sup>KSU 5/28/2024</sup>	\$5.50 <sup>KSU</sup> \$4.96 <sup>KSU 5/28/2024</sup>

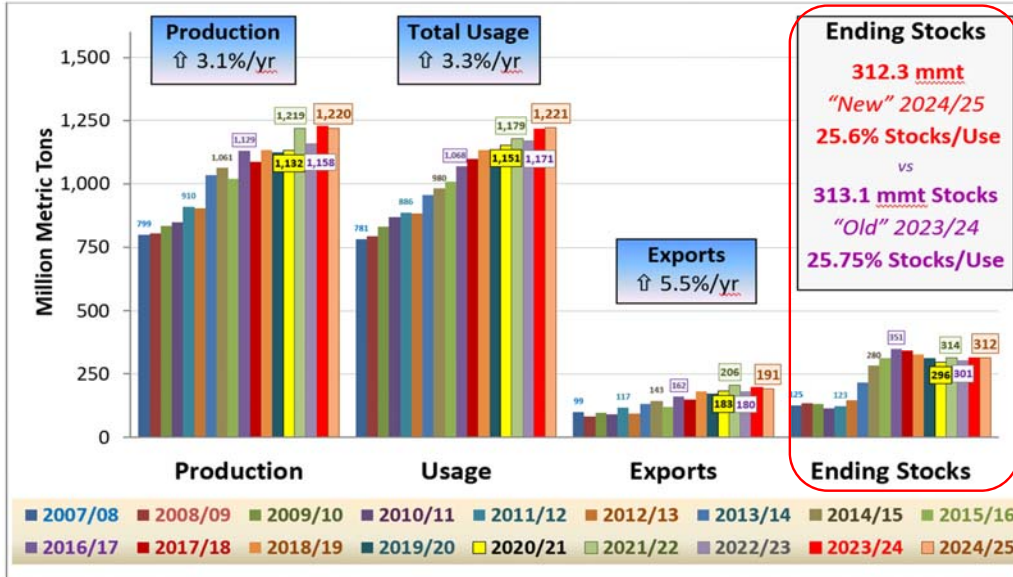
# U.S. Corn % Stocks/Use vs Corn \$

MY 2012/13 – "New" MY 2024/25 as of the 5/10/2024 WASDE + KSU estimates



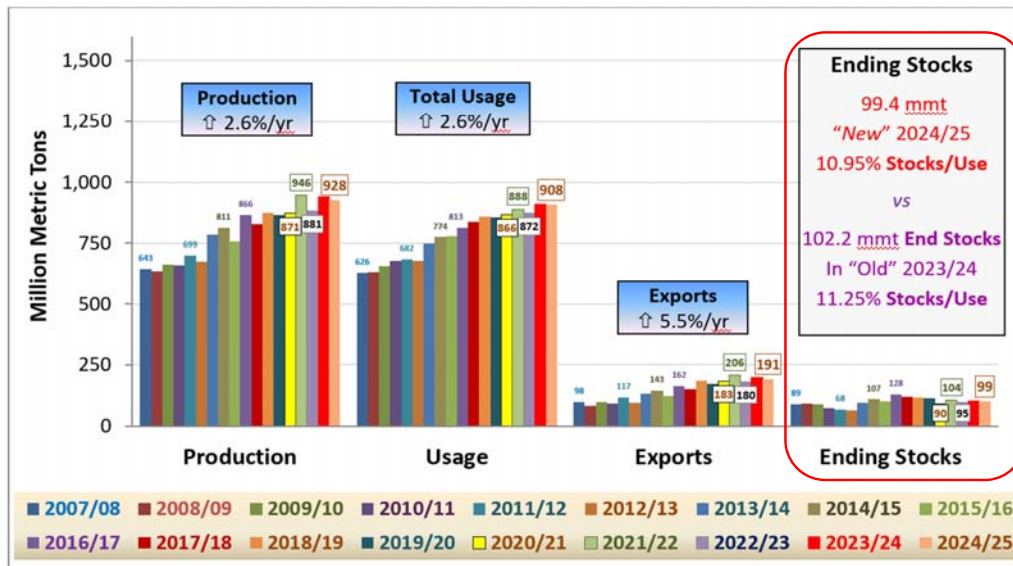
# World Corn Supply-Demand

MY 2007/08 – “New” MY 2024/25 as of the May 10, 2024 USDA WASDE Report



# “World Less-China” Corn Supply-Demand

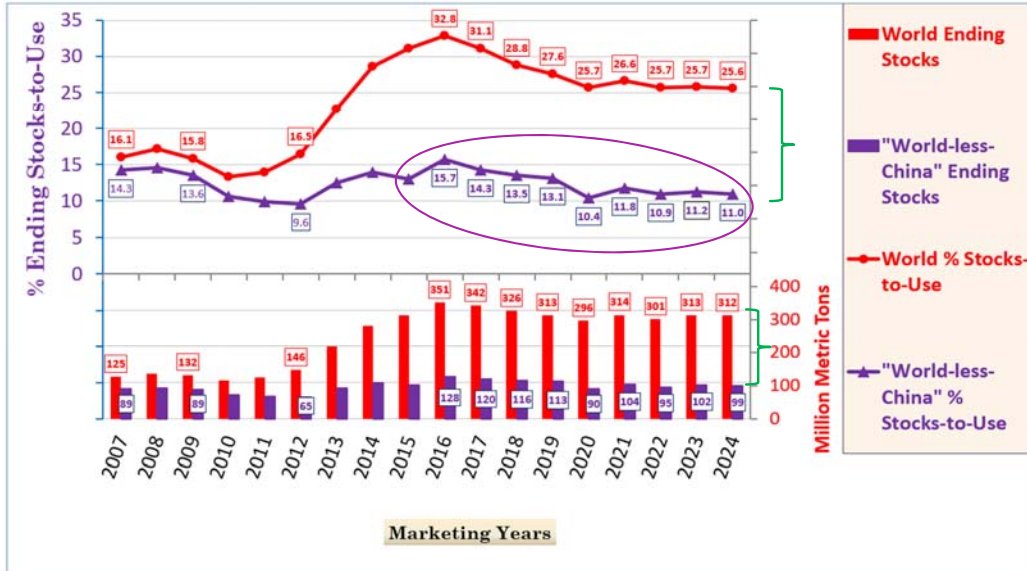
MY 2007/08 – “New” MY 2023/24 as of the May 10, 2024 USDA WASDE Report





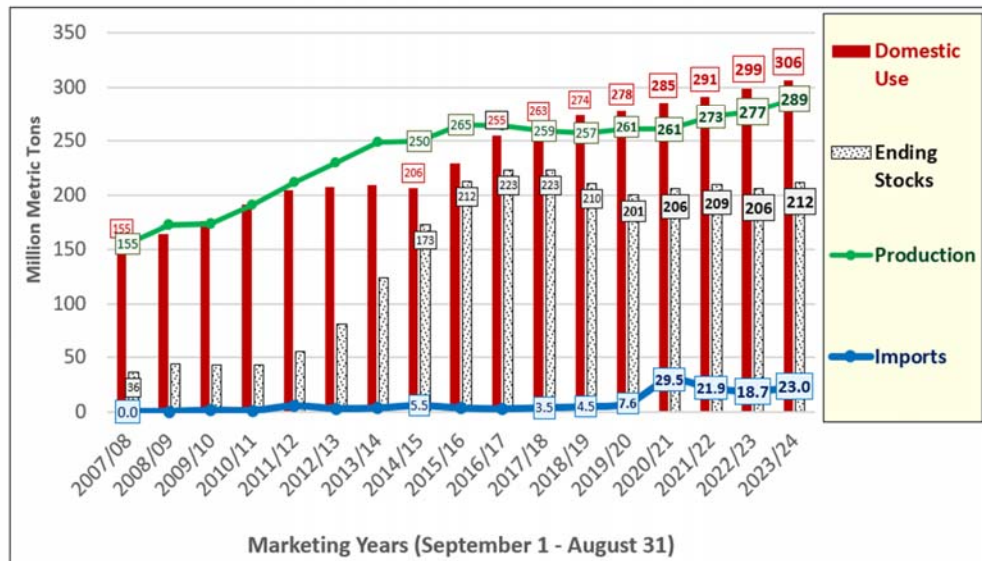
# World vs World<sup>Less-China</sup> Corn % Stocks-to-Use

MY 2007/08 through "New" MY 2024/25, as of the May 10, 2024 USDA WASDE report



# China Corn Supply-Demand

MY 2007/08 – "Current" MY 2023/24, as of the April 11, 2024 USDA WASDE report



# Brazil Corn Supply-Demand

MY 2007/08 – “New” MY 2024/25, as of the May 10, 2024 USDA WASDE report



# Argentina Corn Supply-Demand

MY 2007/08 – “New” MY 2024/25, as of the May 10, 2024 USDA WASDE report



# South America Corn Supply-Demand

MY 2007/08 – “New” 2024/25, as of the May 10, 2024 USDA WASDE



# Ukraine Corn Supply-Demand

MY 2007/08 – “Current” 2023/24, as of the May 10, 2024 USDA WASDE Report



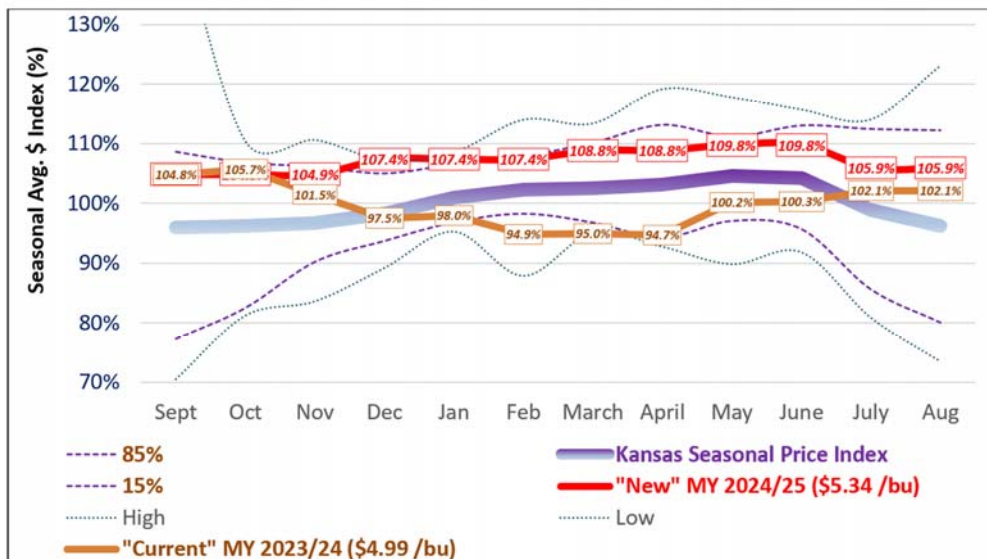
# Russia Corn Supply-Demand

MY 2007/08 – “Current” 2023/24, as of the April 11, 2024 USDA WASDE



# Kansas Sorghum Seasonal Prices

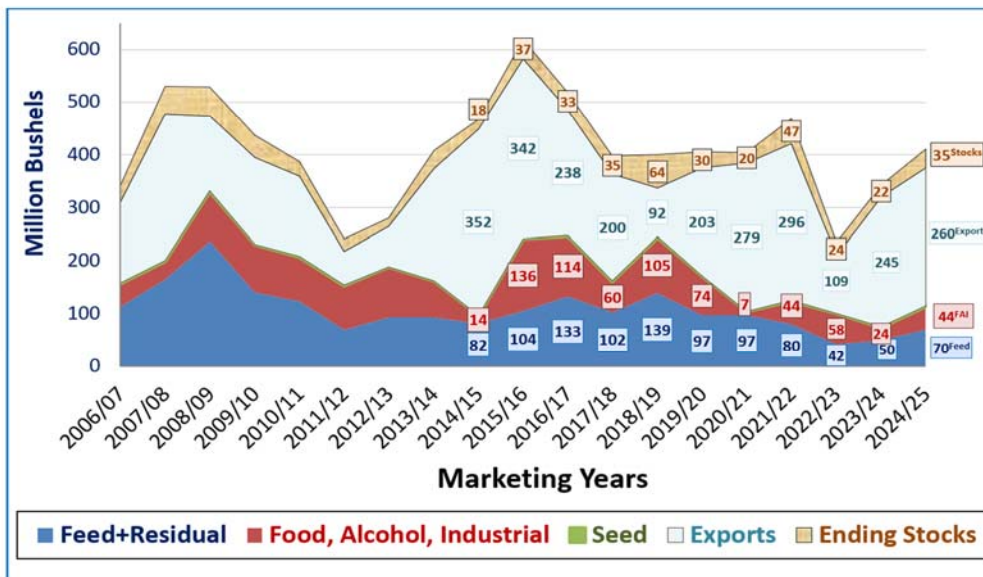
MY 1999/00 – MY 2022/23 plus “Current” 2023/24 & “New” 2024/25 as of 5/28/2024



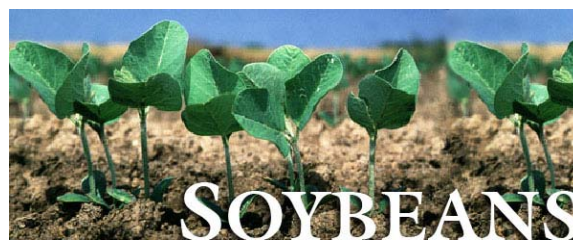


# U.S. Sorghum Use & End Stocks

MY 2006/07 - "New" 2024/25 as of the May 10, 2024 WASDE Report



# Soybean Markets



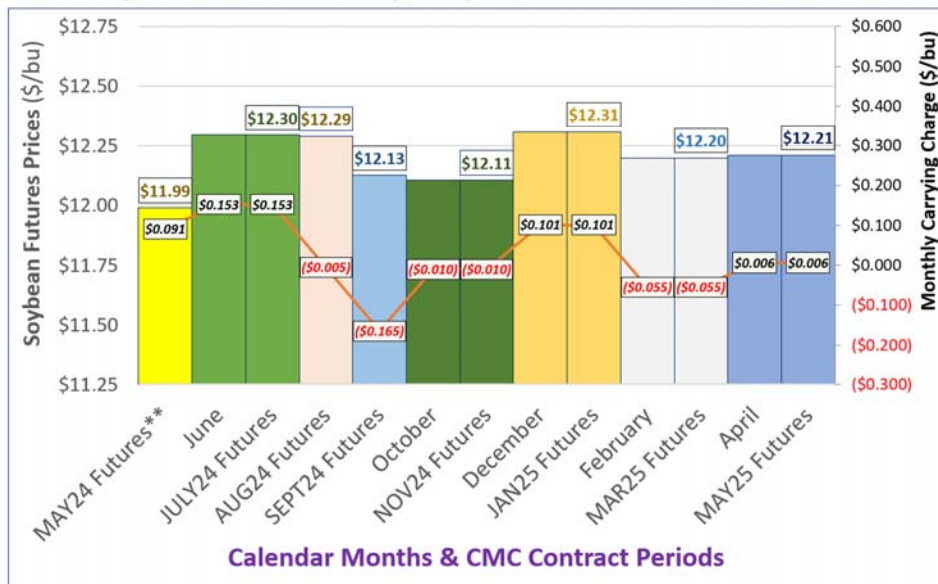
ELEC. SOYBEANS (@S2024N)



\$12.29 1/2

**CME Soybean Futures** *Lead & Deferred Contracts*

Closing Prices as of Tuesday, May 28, 2024



# Monthly Commodity Futures Price Chart Soybeans (Globex) (CBOT)

TFC Commodity Charts

45

ZS - Soybeans (Globex) - Monthly Chart

Change: 56.750

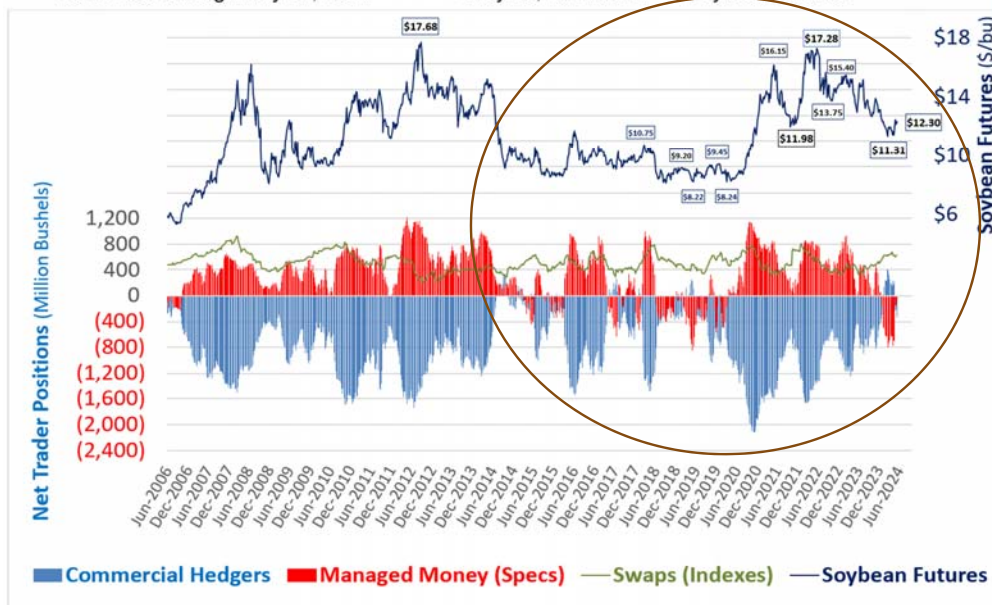
05/29/2024 O: 1161.000 H: 1258.250 L: 1156.250 C: 1217.750 Vol: 253885 OI: 763308



# Soybean Futures-Net Position of Traders

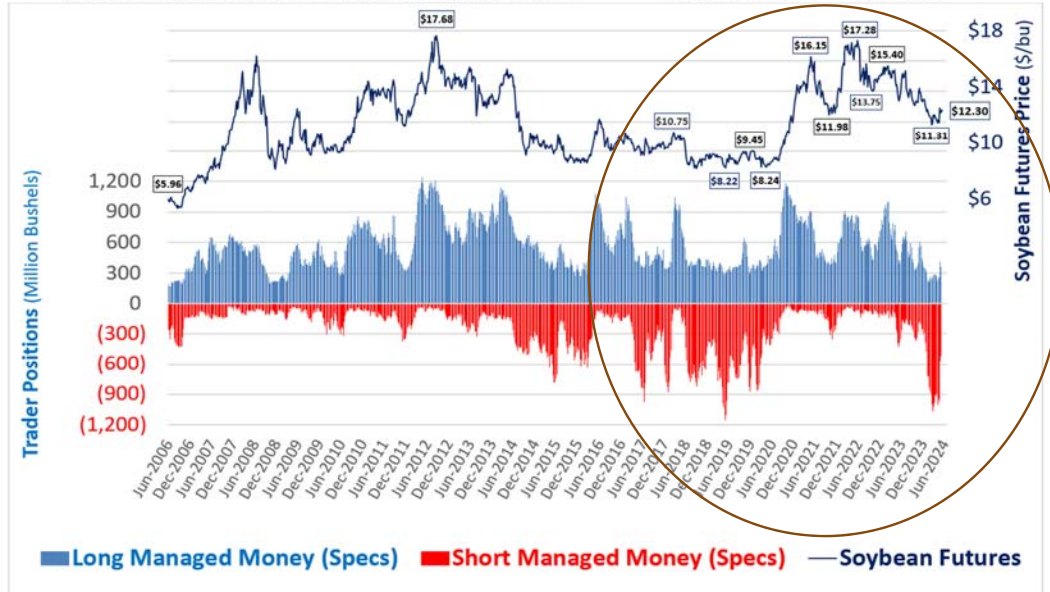
46

June 2006 through May 21, 2024 CFTC Data + May 28, 2024 JULY 2024 Soybean Futures



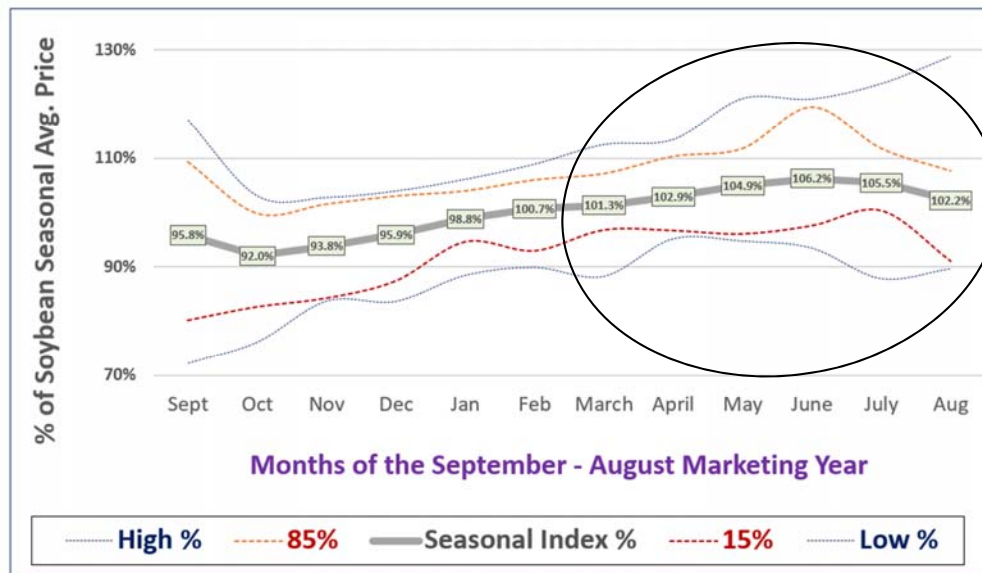
# Soybean Futures - Managed Money Traders Specs

Long & Short Positions, June 2006 thru May 21, 2024 CFTC Data + 5/28/2024 JULY 2024 Soybeans



# Kansas Soybean Seasonal Price Index

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

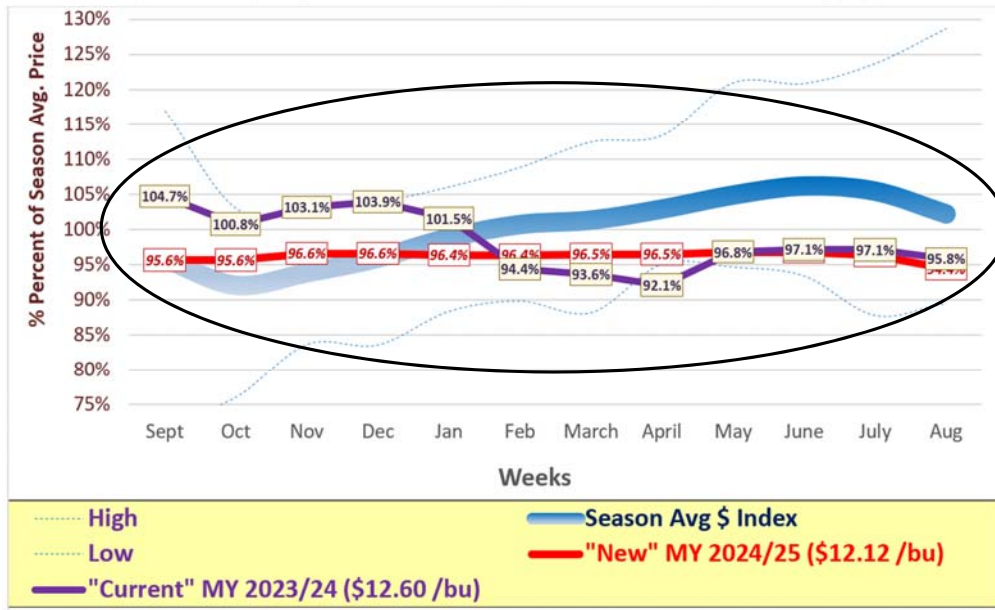




# U.S. & KS Soybean Seasonal Prices

49

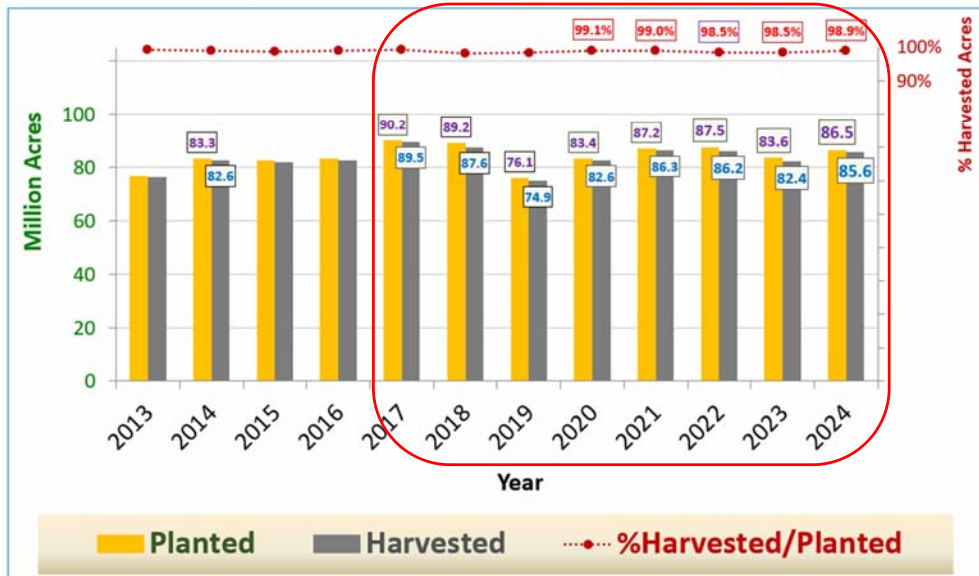
MY 1999/00 – 2022/23 plus "Current" 2023/24 & "New" 2024/25 on May 28, 2024



# U.S. Soybean Acres for 2013-2024

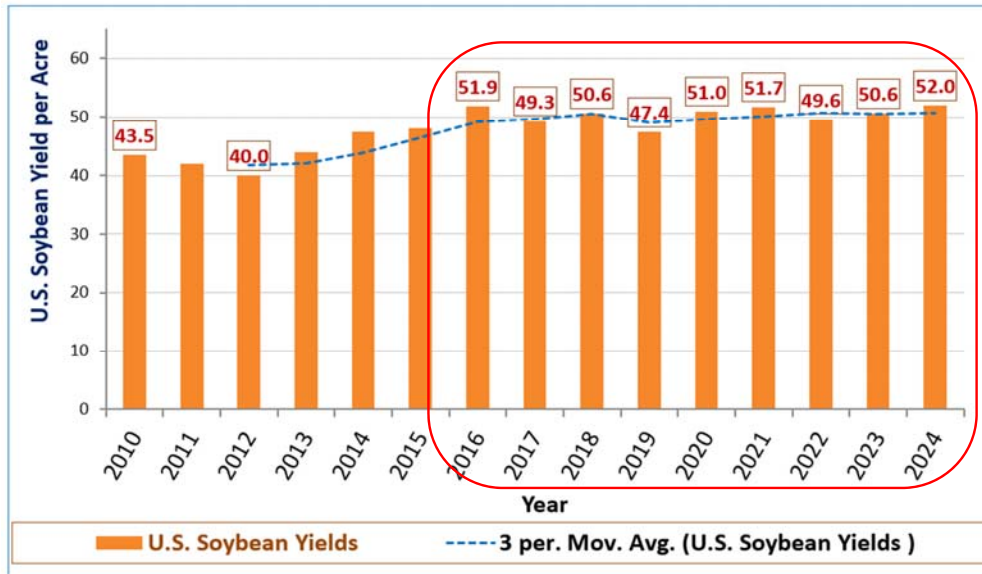
50

Years 2013-2024, as of the USDA WASDE Report on 5/10/2024



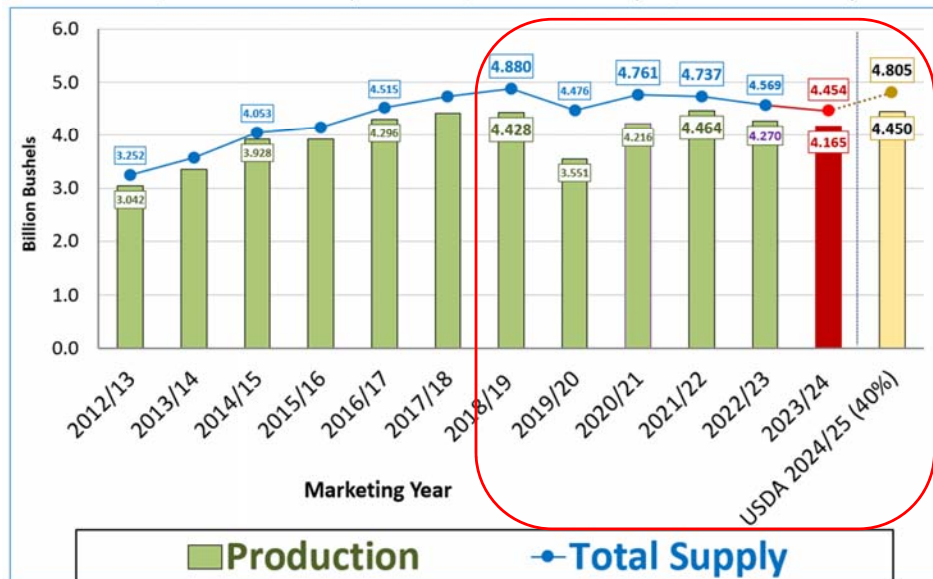
# U.S. Soybean Yields: 2010-2024

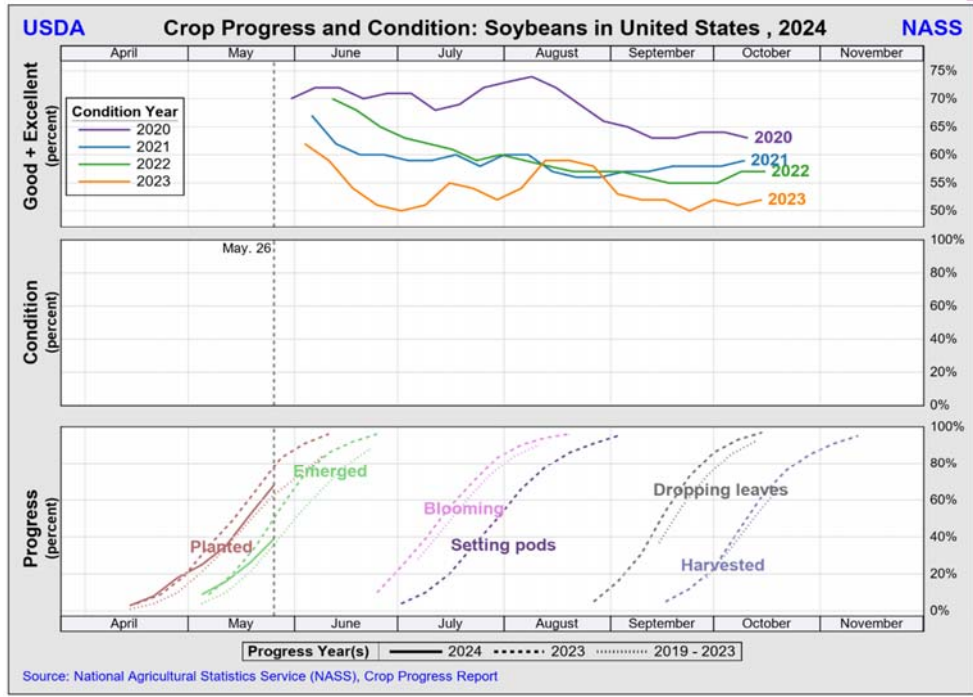
Years 2013-2024, as of the USDA WASDE Report on May 10, 2024



# U.S. Soybean Production & Supply

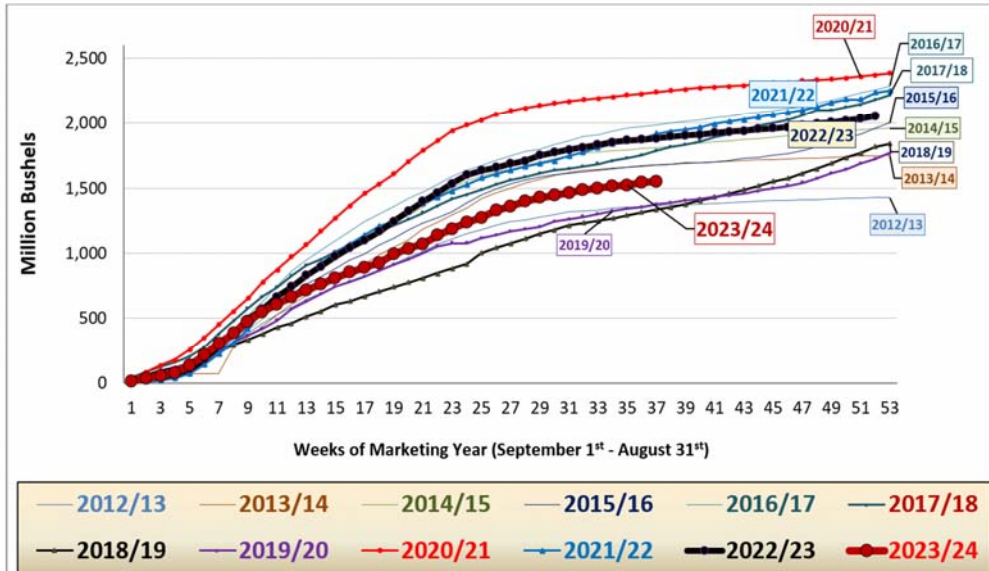
MY 2012/13 thru "New Crop" MY 2024/25 as of the May 10, 2024 WASDE Report





# U.S. Soybean Exports

MY 2012/13 thru "Current" MY 2023/24, USDA FAS Weekly Export reports thru 5/16/2024



# U.S. Soybean Use & Ending Stocks

MY 2012/13 – “New” 2024/25 as of the USDA May 10, 2024 WASDE Report



# U.S. Soybean Stocks & % Stocks-to-Use

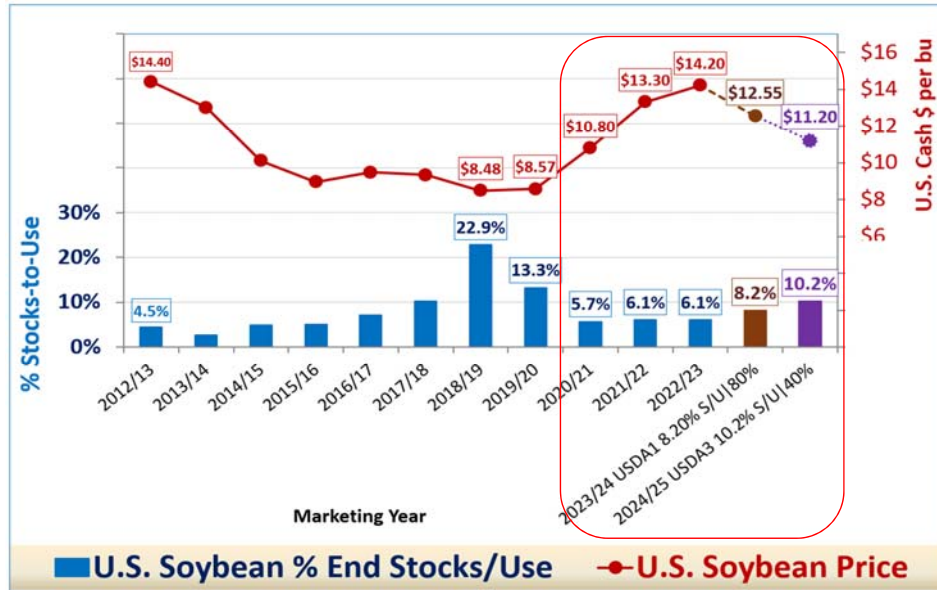
MY 2012/13 - “New” MY 2024/25 as of the USDA May 10, 2024 WASDE Report



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

57

MY 2012/13 - "New" MY 2024/25 as of the USDA May 10, 2024 WASDE Report + KSU Ests.



# U.S. Soybean Projected S-D "Current" MY 2023/24 & "New" MY 2024/25

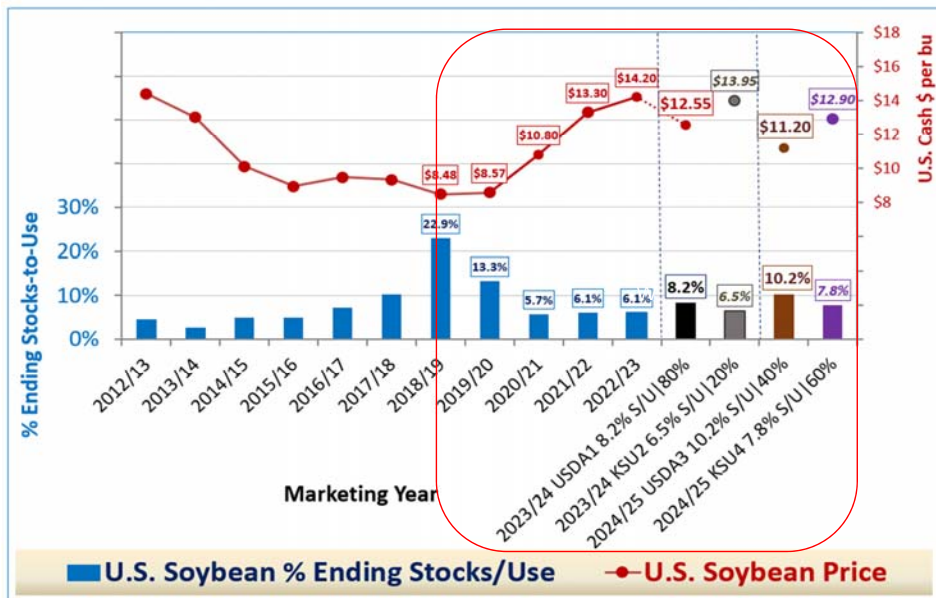
58

"Current" MY 2023/24 & "New" 2024/25 sourced from the May 10, 2024 WASDE Report + KSU Estimates 5/29/2024

Item	A. USDA Scenario #1 "Current" MY 2023/24 = 50.6 bu/ac 340 mb Ending Stocks	B. KSU Scenario #2 "Current" MY 2023/24 "Higher Crush, Exports" + 35 mb Domestic Crush & + 35 mb Exports	C. USDA Scenario #3 "New" MY 2024/25 = 52.0 bu/ac 445 mb Ending Stocks	D. KSU Scenario #4 "New" MY 2024/25 = 50.0 bu/ac 334 mb Ending Stocks
	80% <sup>KSUest</sup>	20% <sup>KSUest</sup>	40% <sup>KSUest</sup>	60% <sup>KSUest</sup>
% Probability of Occurring (KSU)	80% <sup>KSUest</sup>	20% <sup>KSUest</sup>	40% <sup>KSUest</sup>	60% <sup>KSUest</sup>
Planted Area (million acres)	83.600	83.600	86.510	86.510
Harvested Area (million acres)	82.356	82.356	85.577	85.577
Yield / harvested acre (bu/ac)	50.6	50.6	52.0	50.0
Beginning Stocks (million bushels)	264	264	340	340
Production (million bu.)	4,165	4,165	4,450	(-171 mb) 4,279
Total Supply (million bu.)	4,454	4,454	4,805	(-171 mb) 4,634
Domestic Crushings	2,300	(+35 mb) 2,335	2,425	(-30 mb) 2,395
Exports	1,700	(+35 mb) 1,735	1,825	(-30 mb) 1,790
Total Use	4,114	(+70 mb) 4,184	4,360	(-60 mb) 4,300
Ending Stocks	340	(-70 mb) 270	445	(-111 mb) 334
% Ending Stocks-to-Use	8.20%	6.45%	10.21%	7.77%
U.S. Avg. Farm Price (\$/bu)	\$12.55 <sup>USDA</sup> \$12.60 <sup>KSU 5/28/2024</sup>	\$13.95 <sup>KSU</sup> \$12.60 <sup>KSU 5/28/2024</sup>	\$11.20 <sup>USDA</sup> \$12.12 <sup>KSU 5/28/2024</sup>	\$12.90 <sup>KSU</sup> \$12.12 <sup>KSU 5/28/2024</sup>

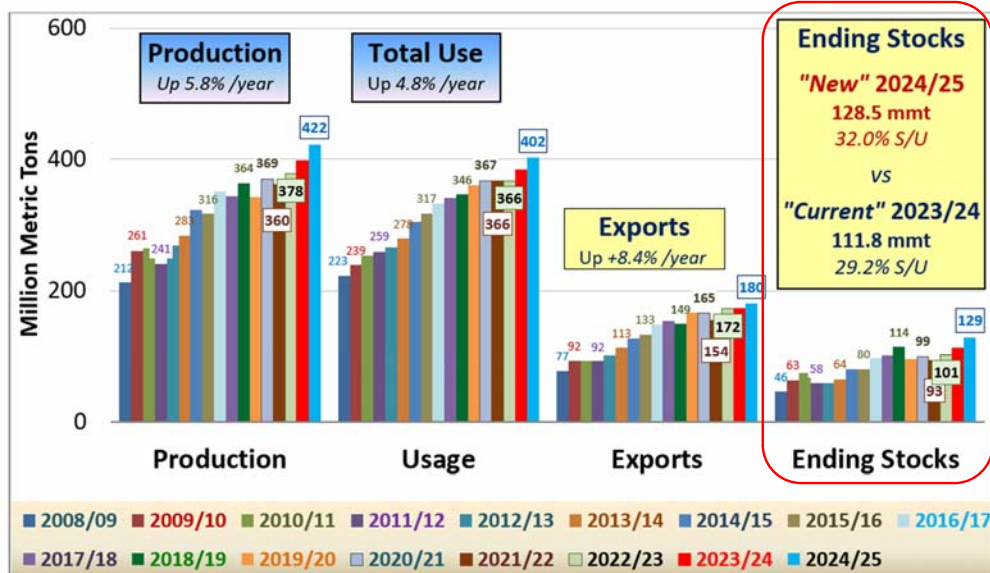
# U.S. Soybean % S/U vs U.S. Cash\$

MY 2012/13 - "New" MY 2024/25 as of the USDA May 10, 2024 WASDE Report + KSU Ests.



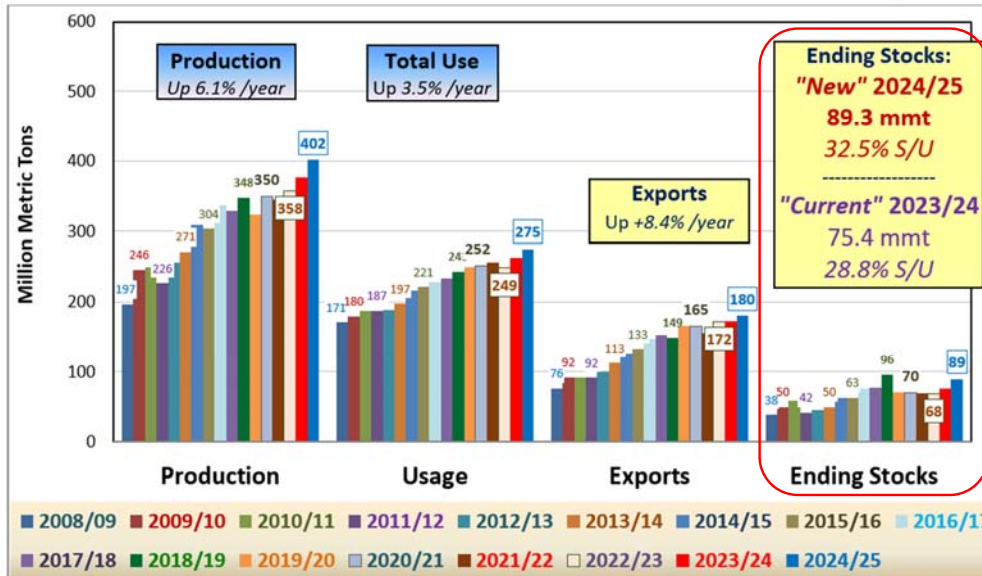
# World Soybean Use & End Stocks

MY 2008/09 thru "New" MY 2023/24 as of the 5/10/2024 WASDE Report



# World *Less-China* Soybean Use & End Stocks

MY 2008/09 thru "New" MY 2023/24 as of the 5/10/2024 WASDE Report



## Brazil Soybean Supply-Demand

MY 2007/08 – "New" MY 2024/25 as of the May 10, 2024 USDA WASDE Report



## Argentina Soybean Supply-Demand

MY 2007/08 – "New" MY 2024/25 as of the May 10, 2024 USDA WASDE Report



# Wheat Markets

63

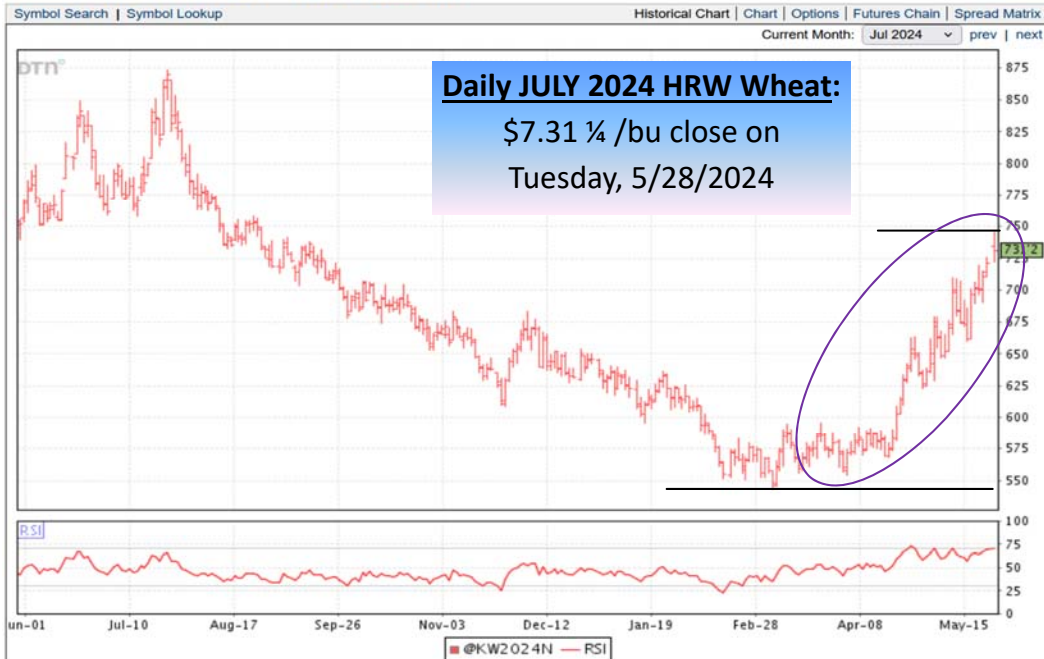


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## ELEC. HRW WHEAT (@KW2024N)

Print

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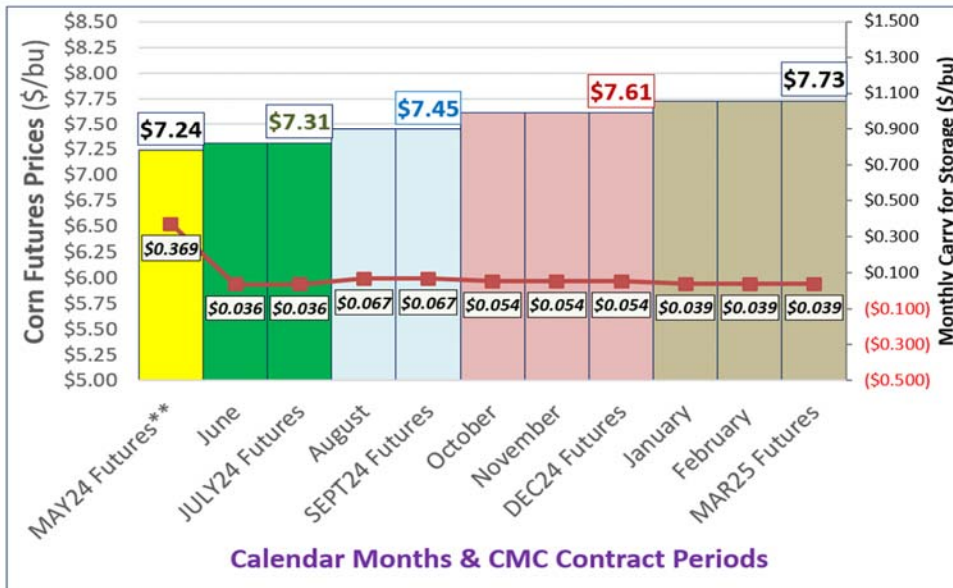


\$7.31 1/4



# CME KS HRW Wheat Futures *Lead & Deferred Contracts*

MAR<sup>2024</sup> – DEC<sup>2024</sup> Closing Prices as of Tuesday, May 28, 2024



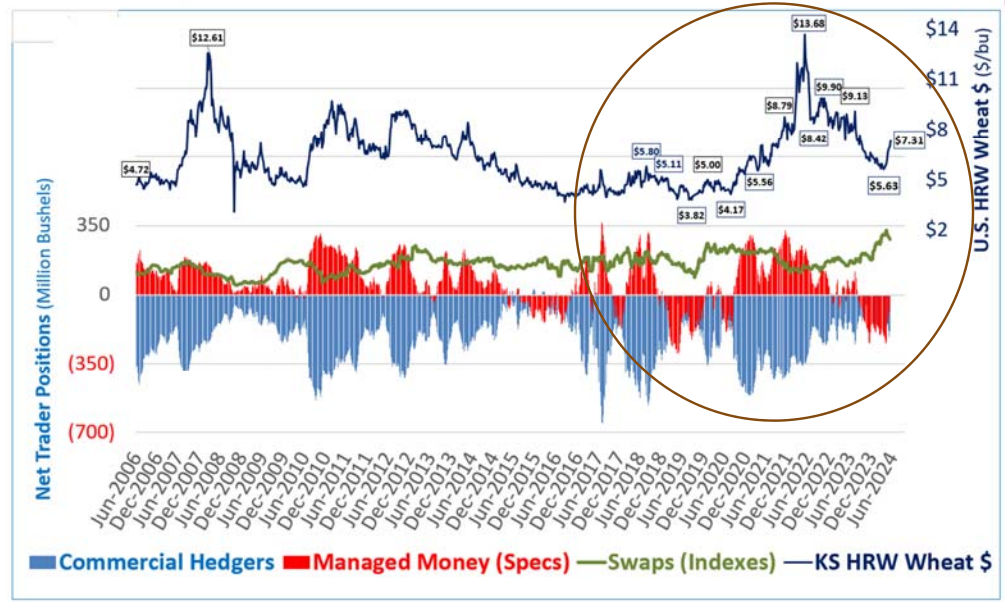
## Monthly Commodity Futures Price Chart TFC Commodity Charts Wheat (Kansas) (Electronic) (KCBT)

KE - Wheat (Kansas) (Electronic) - Monthly Chart Change: 88.750  
05/29/2024 O: 634.250 H: 746.250 L: 622.750 C: 723.000 Vol: 69666 OI: 235660



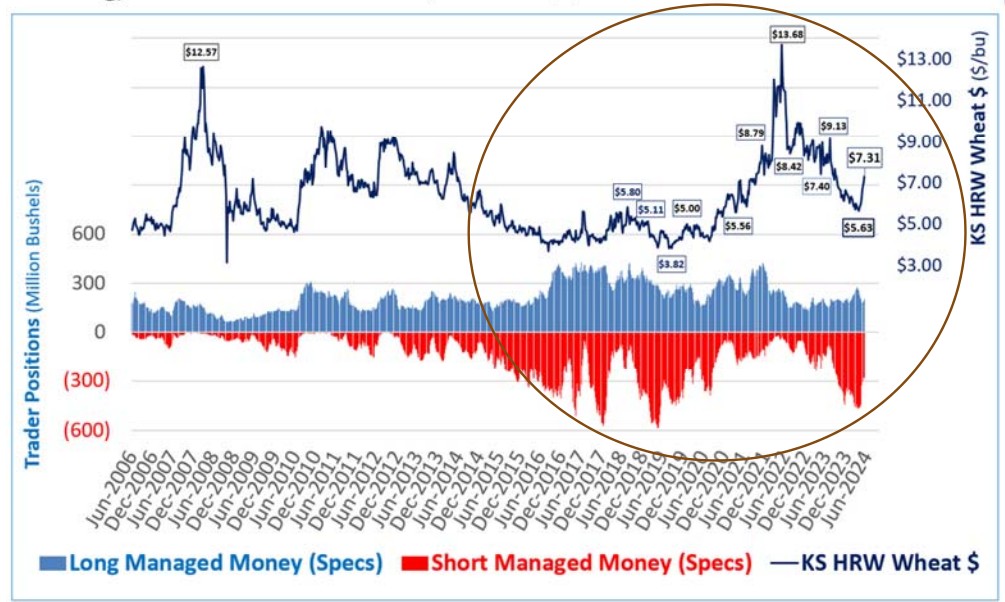
# KS HRW Wheat <sup>CME</sup> - Net Position of Traders

June 2006 thru May 21, 2024 (Weekly CFTC Data) with 5/28/2024 Futures Market Closes for JULY 2024 Kansas HRW Wheat



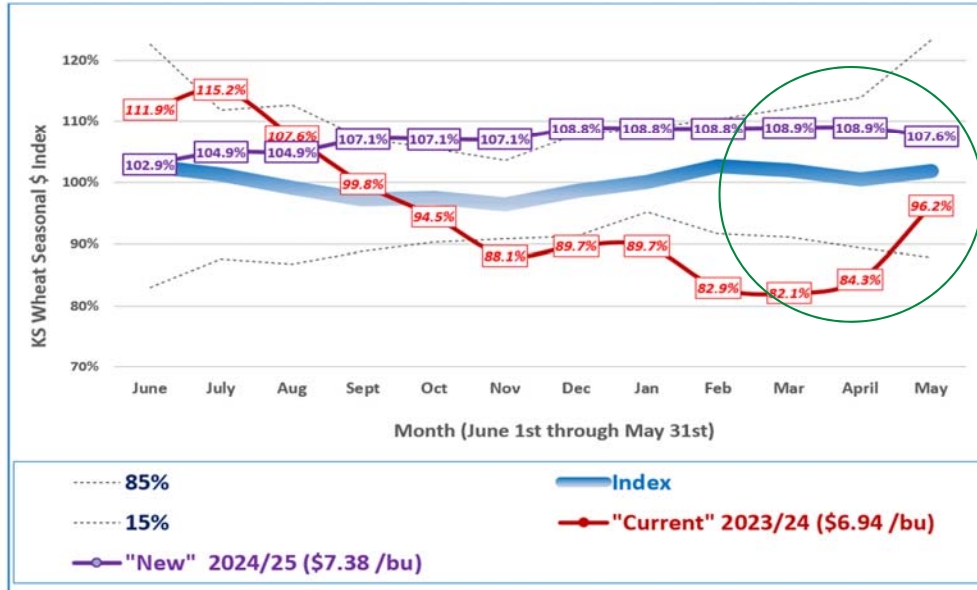
# KS HRW Wheat <sup>CME</sup> - Managed Money Traders <sup>Specs</sup>

Long/Short Positions + Futures \$'s: June 2006 – 5/21/2024 CFTC Data with 5/28/2024 Futures for JULY 2024 KS HRW Wheat



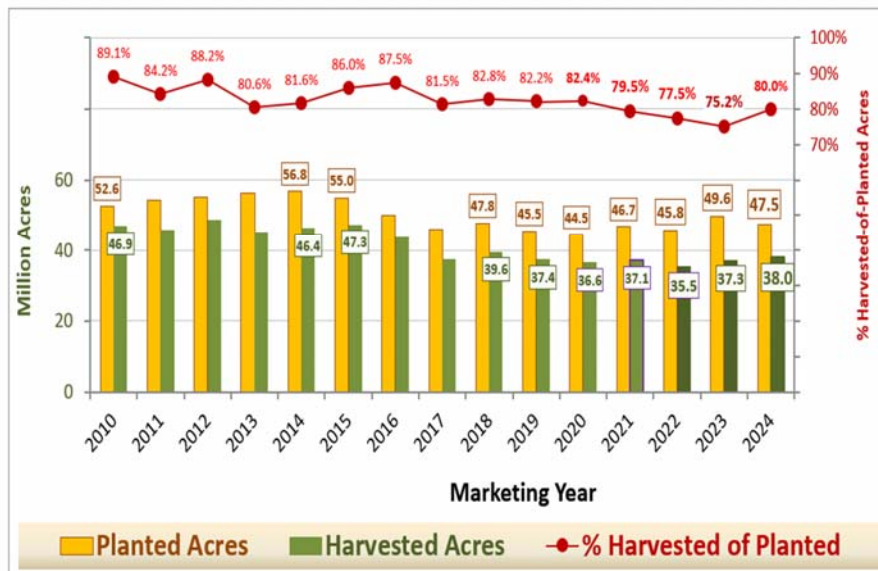
# Hard Red Winter <sup>HRW</sup> Wheat Seasonal \$'s

MY 1999/00 – 2022/23 + "Current" MY 2023/24 & "New Crop" MY 2024/25 as of 5/28/2024



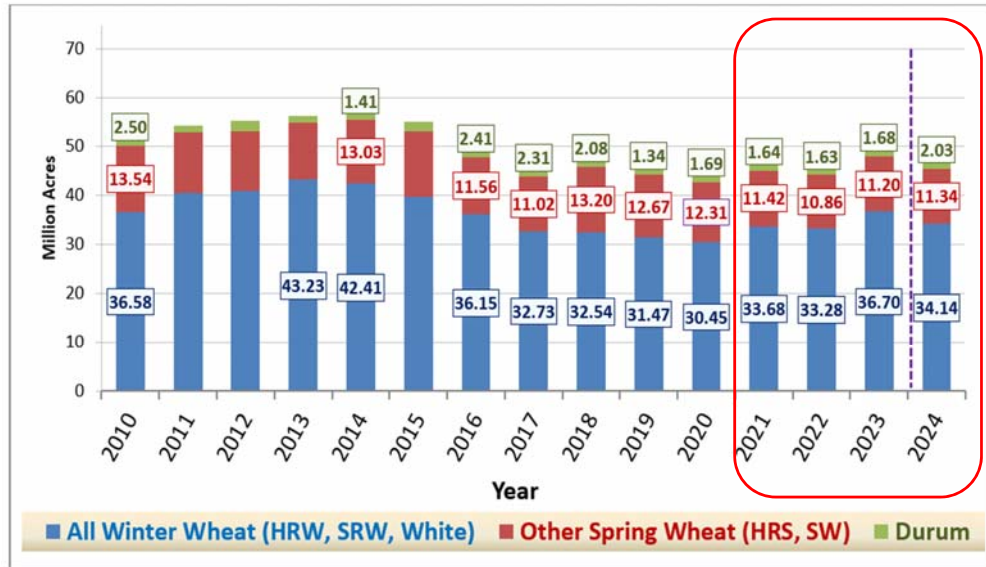
# U.S. Wheat Planted & Harvested Acres

(MY 2010/11 – MY 2024/25) – USDA Prospective Plantings <sup>3/28/2024</sup> & WASDE <sup>May 10, 2024</sup> Reports



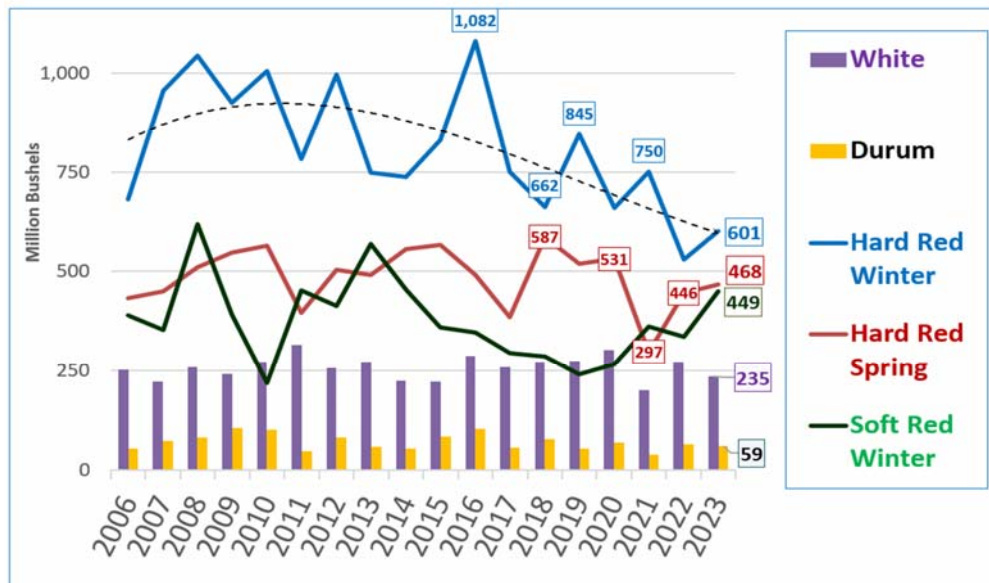
# U.S. Wheat Planted Acreage 2010-2024

All Winter, Other Spring & Durum (2010+) – USDA Prospective Plantings 3/28/2024 & WASDE May 10, 2024 Reports



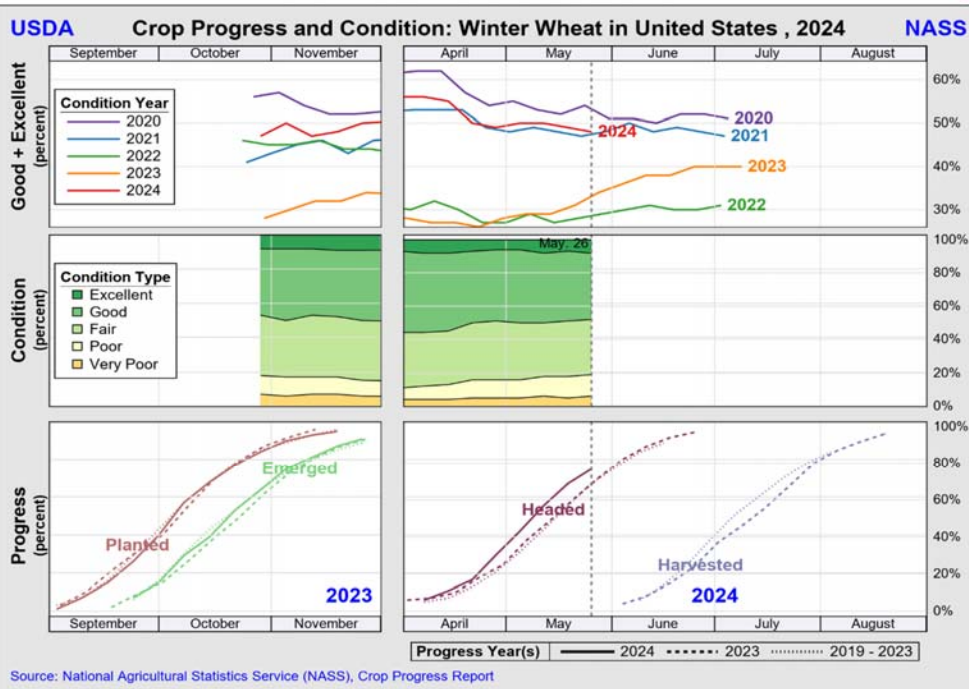
# U.S. Wheat Production by Class

As of the USDA May 10, 2024 WASDE Report



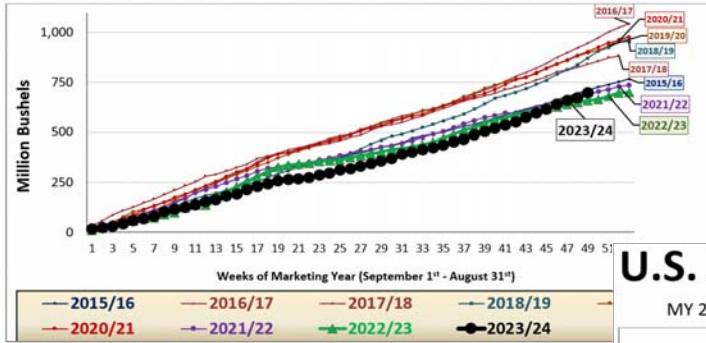
# U.S. Wheat Total Supplies

MY 2004/05 – 2024/25 as of the May 10, 2024 USDA WASDE Report



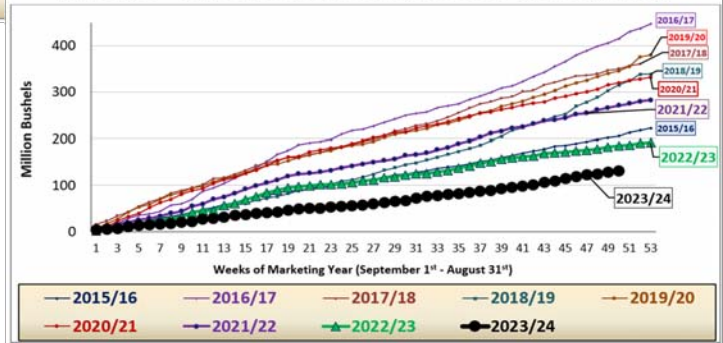
# U.S. All Wheat Exports

MY 2015/16 - "Current" 2023/24 as of 5/16/2024, USDA FAS Weekly Exports



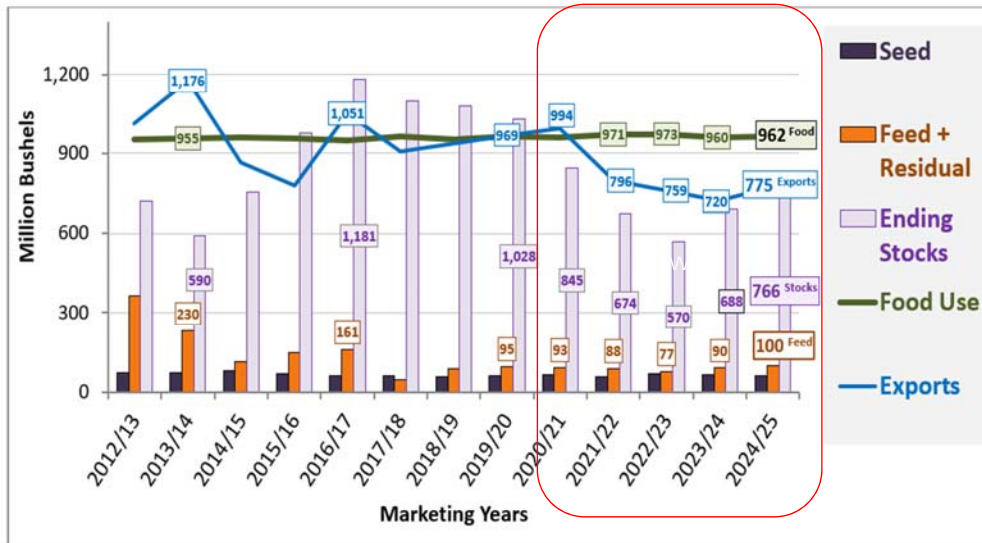
# U.S. HRW Wheat Exports

MY 2015/16 - "Current" 2023/24 as of 5/16/2024 USDA FAS Weekly Exports



# U.S. Wheat Use & Ending Stocks

MY 2012/13 - "New" 2024/25 as of the May 10, 2024 USDA WASDE Report



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

MY 2006/07 – “New” 2024/25 as of the May 10, 2024 USDA WASDE Report



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

MY 2012/13 – “New” 2024/25 as of the May 10, 2024 USDA WASDE Report



# U.S. Wheat Market Outcomes “New” MY 2024/25

79

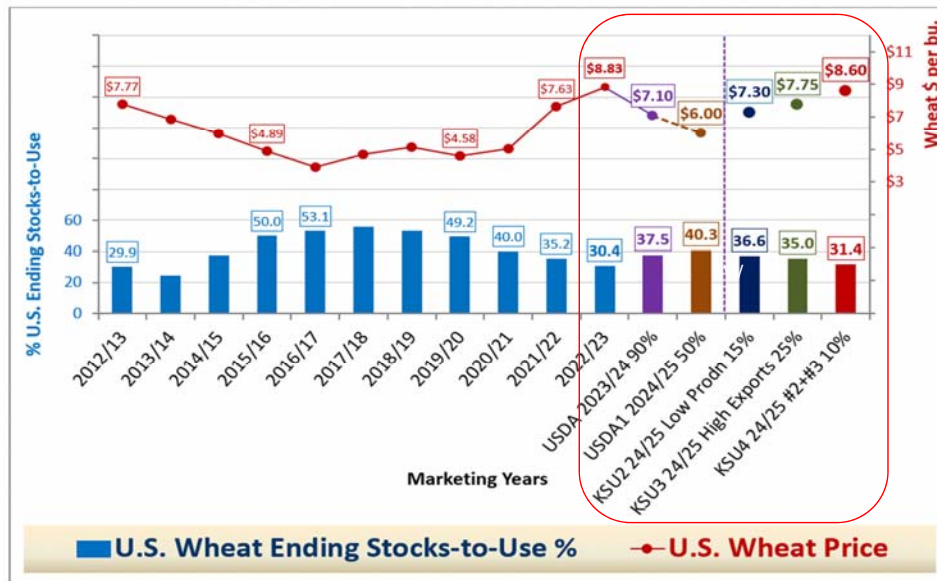
USDA & KSU Proj. based on the 5/10/2024 WASDE + KSU Scenarios

Item	USDA Scenario #1 “New” 2024/25 <small>USDA WASDE May 2024</small>	KSU Scenario #2 “New” 2024/25 <small>Lower HRW+HRS Yields: 47 <sup>bu/a</sup> 36.6% Stocks/Use</small>	KSU Scenario #3 “New” 2024/25 <small>KSU: 850 mb Exports 35.0% Stocks/Use</small>	KSU Scenario #4 “New” 2024/25 <small>Lower HRW+HRS Yields: 47 <sup>bu/a</sup> 850 mb Exports</small>
	<small>% Probability of Happening <sup>KSU est.</sup></small>	50% prob	15% prob.	25% prob
Planted Area (million acres)	47.498	47.498	47.498	47.498
Harvested Area (million acres)	37.996	37.996	37.996	37.996
Yield / harvested acre ( <sup>bu/ac</sup> )	48.9	47.0	48.9	47.0
Million				
Production	1,858	- 72 mb 1,786	1,858	- 72 mb 1,786
Total Supply (million bushels)	2,665	- 71 mb 2,594	2,665	- 71 mb 2,594
Exports	775	775	+ 75 mb 850	+ 75 mb 850
Total Use (million bushels)	1,899	1,899	+ 75 mb 1,974	+ 75 mb 1,974
Ending Stocks (million bushels)	766	- 71 mb 695	- 75 mb 691	- 146 mb 620
% Ending Stocks-to-Use	40.34%	36.60%	35.01%	31.41%
U.S. Wheat Avg. Farm Price (\$/bushel)	\$6.00 <small>Vs \$7.38 /bu, 5/28/2024 KSU-HRW Futures</small>	\$7.30 <small>Vs \$7.38 /bu, 5/28/2024 KSU-HRW Futures</small>	\$7.75 <small>Vs \$7.38 /bu, 5/28/2024 KSU-HRW Futures</small>	\$8.60 <small>Vs \$7.38 /bu, 5/28/2024 KSU-HRW Futures</small>

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

80

MY 2012/13 – “New” 2024/25 as of the May 10, 2024 WASDE + KSU Estimates

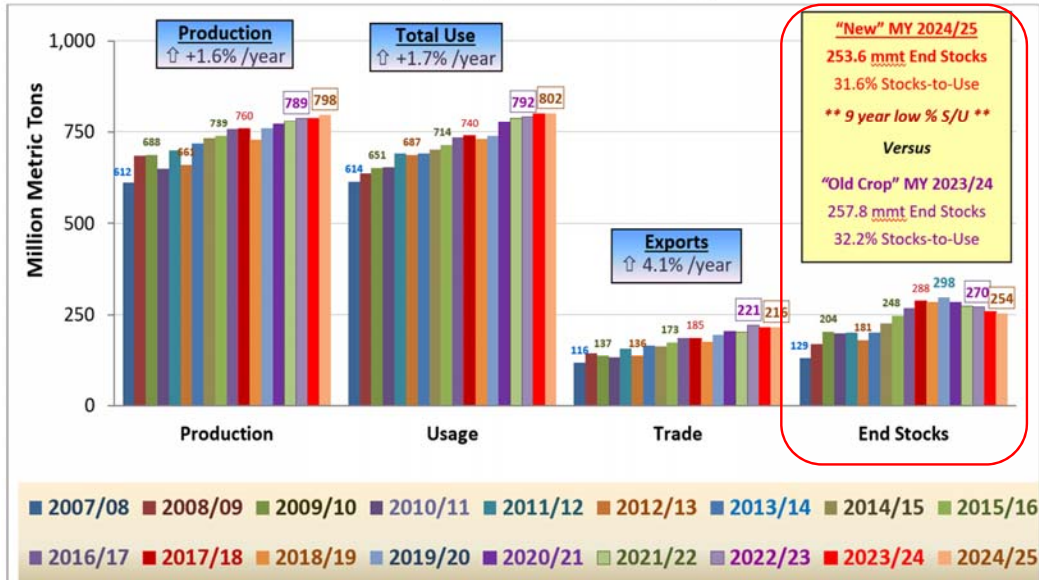




# World Wheat Usage & Ending Stocks

81

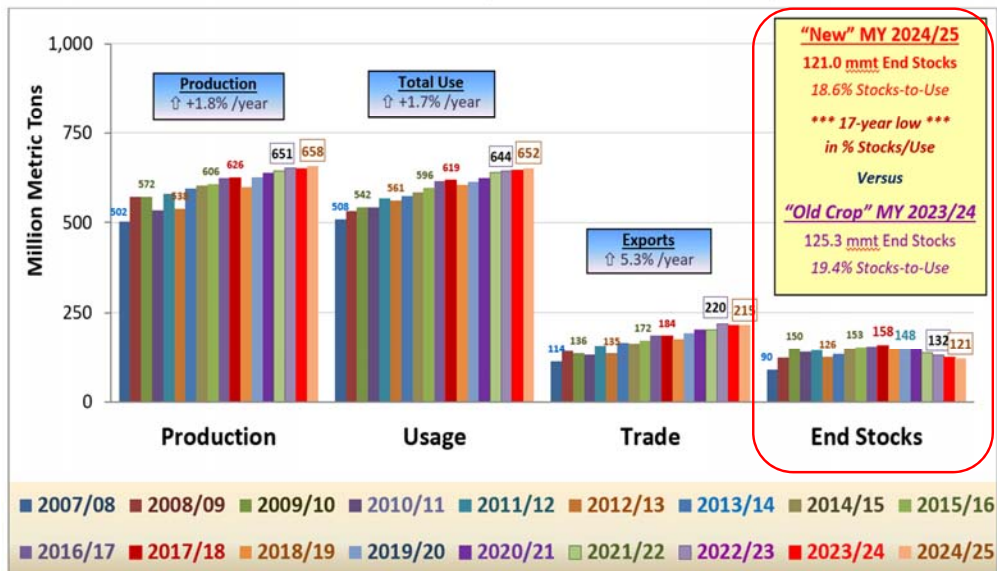
MY 2007/08 - "New" 2024/25 as of the May 10, 2024 USDA WASDE Report



# "World Less-China" Wheat Usage & End Stocks

82

MY 2007/08 - "New" 2024/25 as of the May 10, 2024 USDA WASDE Report



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

MY 2007/08 - "New" MY 2024/25 as of the May 10, 2024 USDA WASDE report



## Russia Wheat Supply-Demand

MY 2013/14 - "New" MY 2024/25 as of the May 10, 2024 USDA WASDE report



## Ukraine Wheat Supply-Demand

MY 2013/14 - "New" MY 2024/25 as of the May 10, 2024 USDA WASDE report



# Closing Perspectives

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## Questions?

**Daniel O'Brien – Extension Ag Economist**

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