



*Caring for You and Your Farm*®

*Professional Services for Farmland Owners and Investors:*

- **Professional Farm Management**
- **Farmland Sales & Acquisitions**
- **Farmland Auctions**
- **Trusted Farmland Appraisals**





*Caring for You and Your Farm*®

**Landowner Educational Seminar  
Summer 2024**

**Grain Markets**



[www.Hertz.ag](http://www.Hertz.ag)



# Marketing Decisions

- Today's Markets
- Weather
- Supply/Demand
- Corn
- Soybeans
- Brazil
- China
- Outlook



# Today's Price

Corn		Soybeans	
	2024		2024
Cash		Cash	
October		October	
December		December	

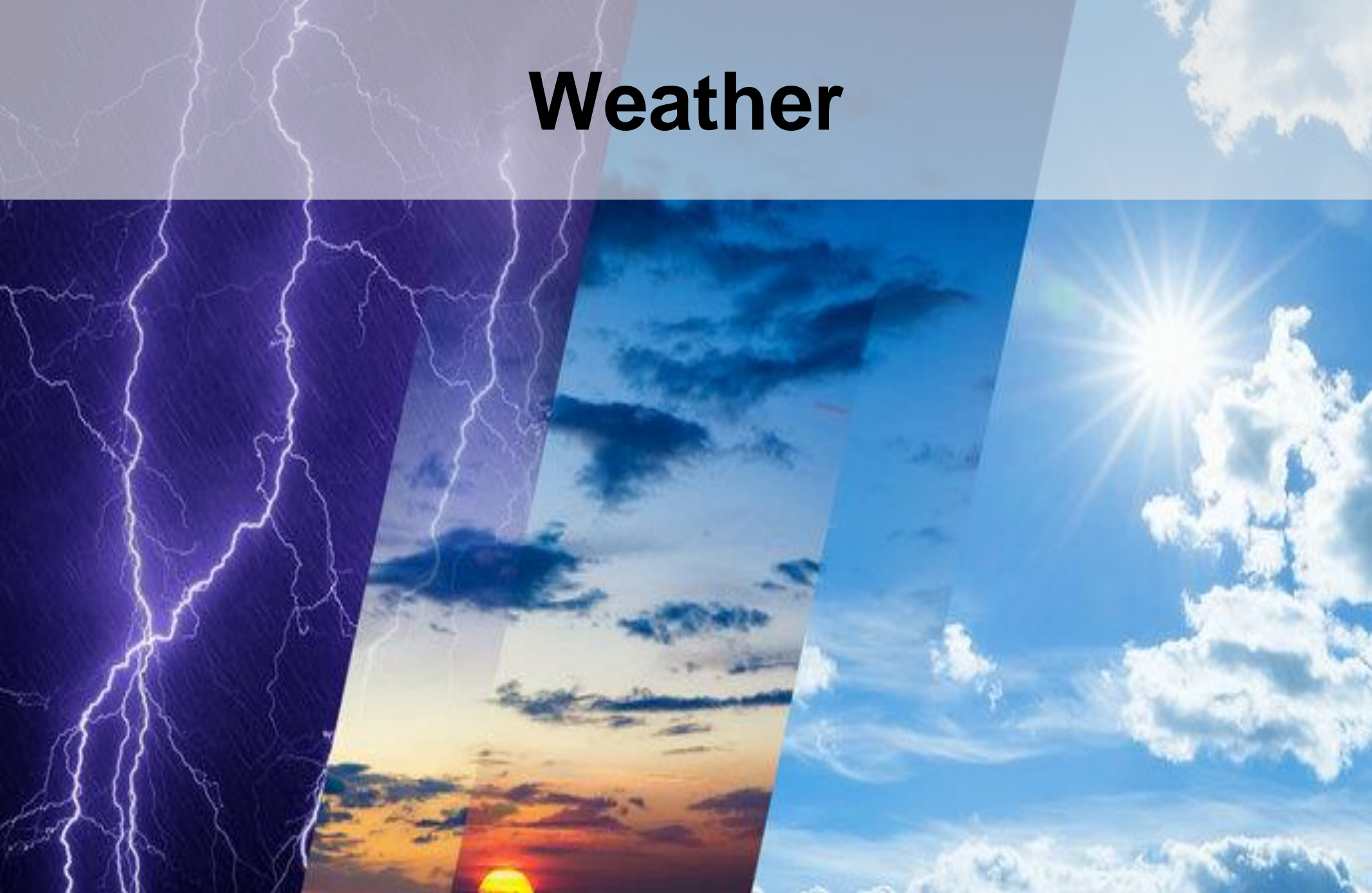


# Incredibly Interesting Times

- Farm Wealth is at an All-Time New High
- Debt to Asset Ratio Near the Lowest in History
- Farm Size is Accelerating at an Unprecedented Rate
- New Technology is a Strong Market Driver



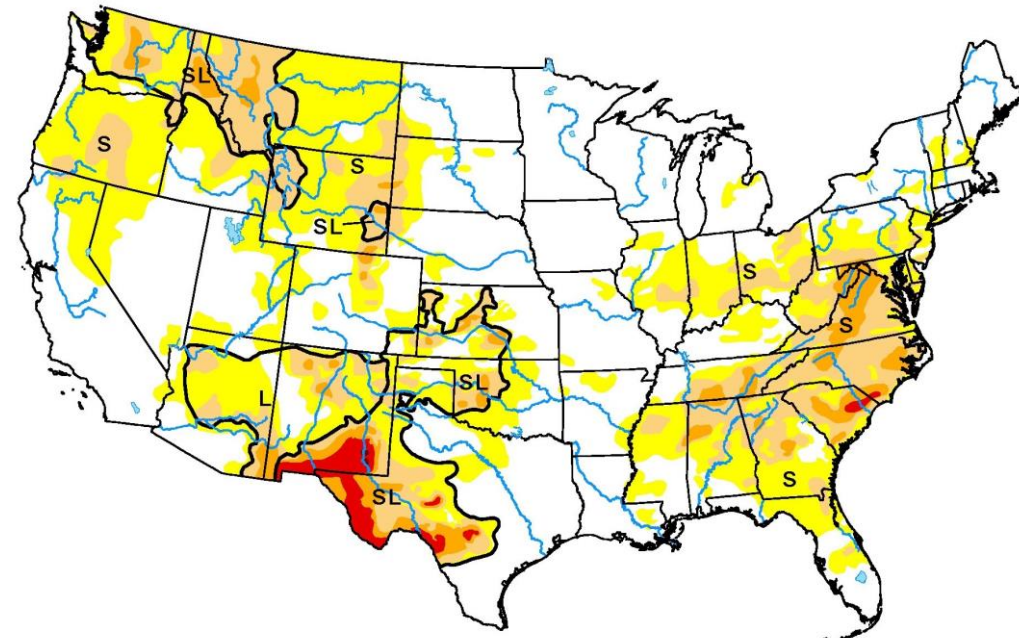
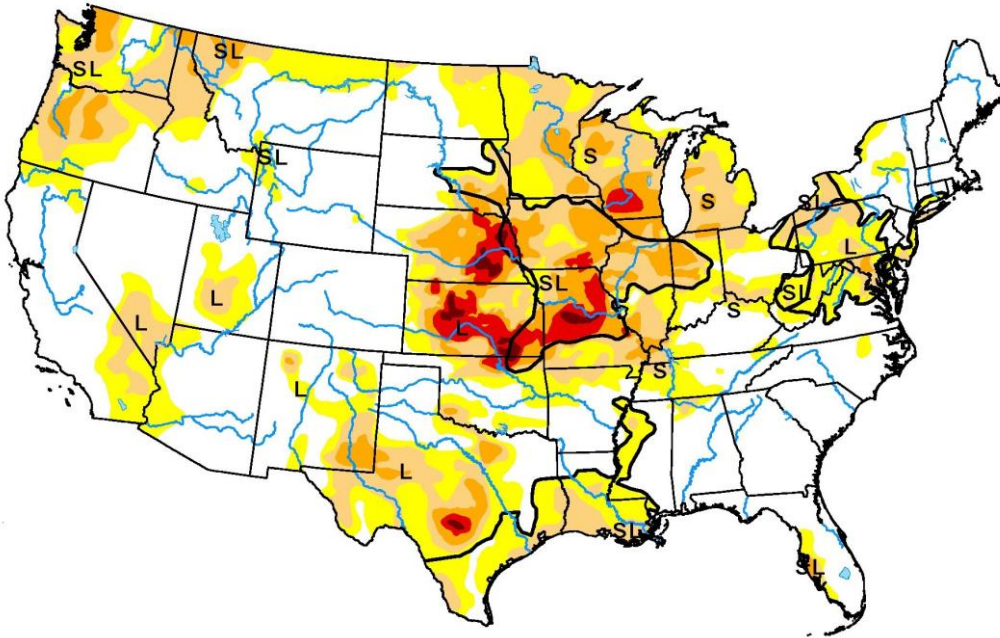
# Weather



# U.S. Drought Monitor

July 11, 2023

July 9, 2024



## Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

## Intensity:

- Yellow D0 Abnormally Dry
- Light Orange D1 Moderate Drought
- Orange D2 Severe Drought
- Red D3 Extreme Drought
- Dark Red D4 Exceptional Drought



Source: <http://droughtmonitor.unl.edu/>

[www.Hertz.ag](http://www.Hertz.ag)

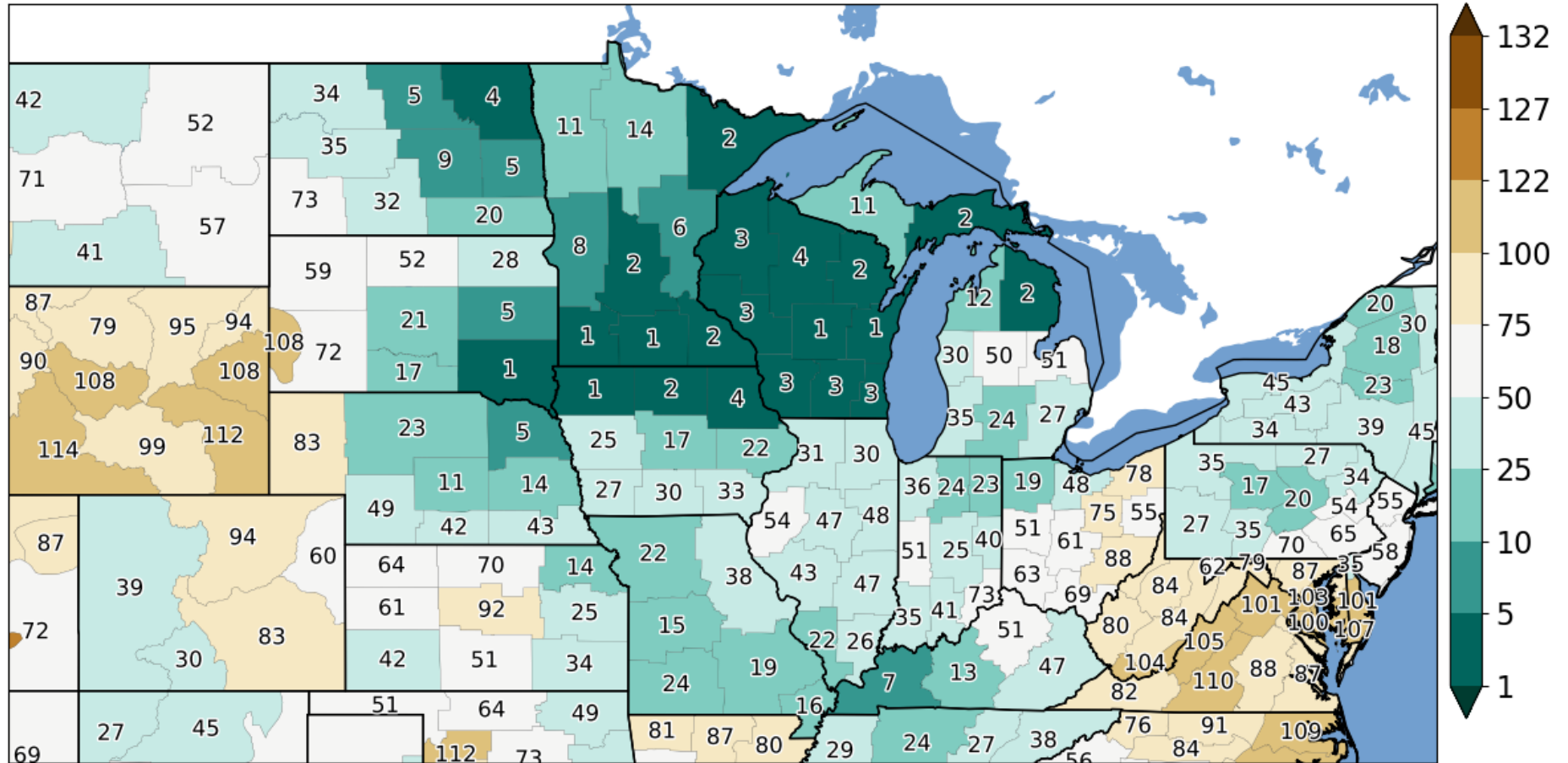


# Total Precipitation Ranks by Climate District

## April 1– July 1, 2024



1 Apr 2024 ~7 AM till 1 Jul 2024 ~7 AM Total Precipitation Ranks by Climate District  
Based on IEM Estimates, 1 is wettest out of 132 total years (1893-2024)



Generated at 9 Jul 2024 9:21 AM CDT in 54.94s

data units ::  
IEM Autoplot App #24



Source: IEM

[www.Hertz.ag](http://www.Hertz.ag)

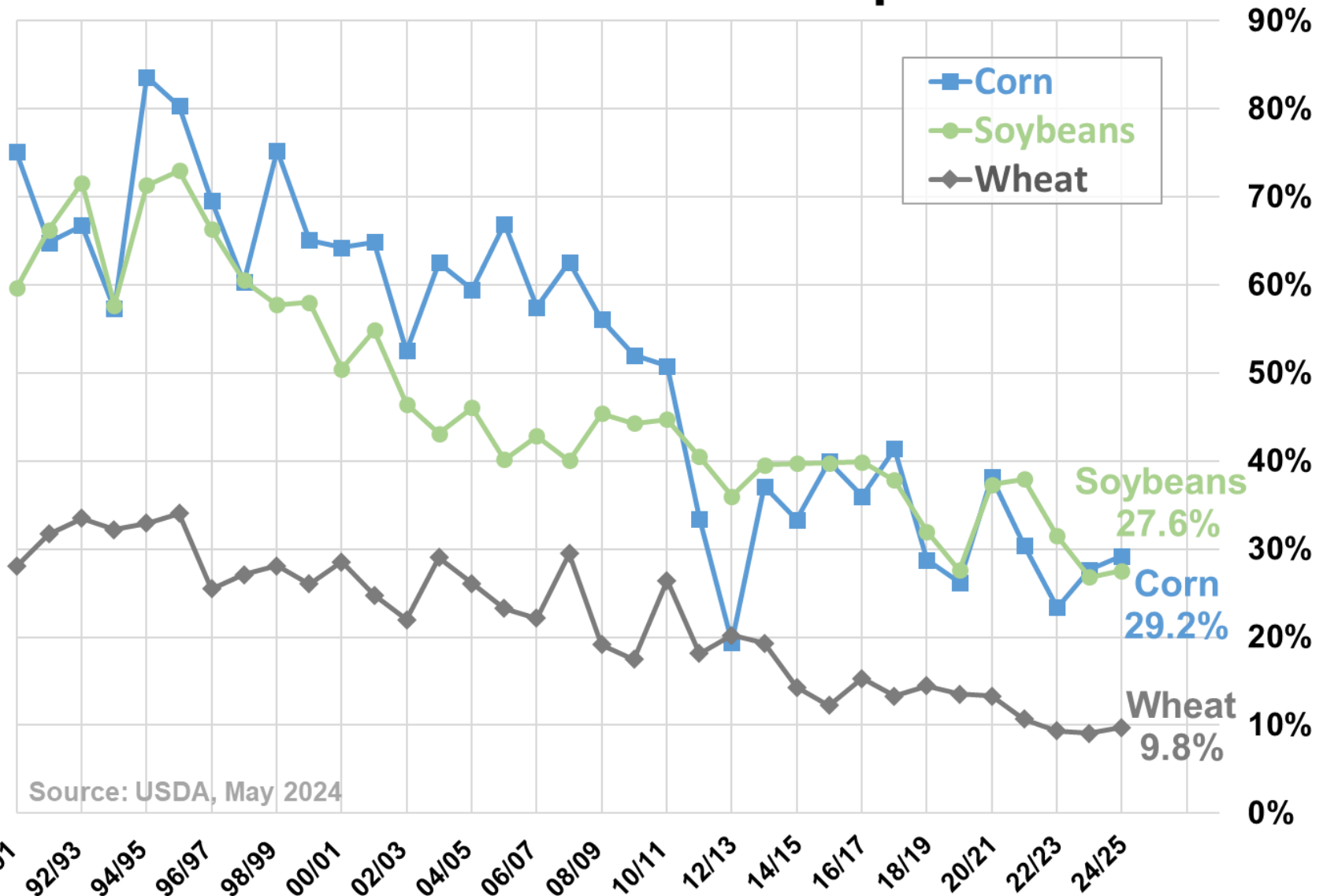




# Agricultural Trade



# U.S. Share of World Exports



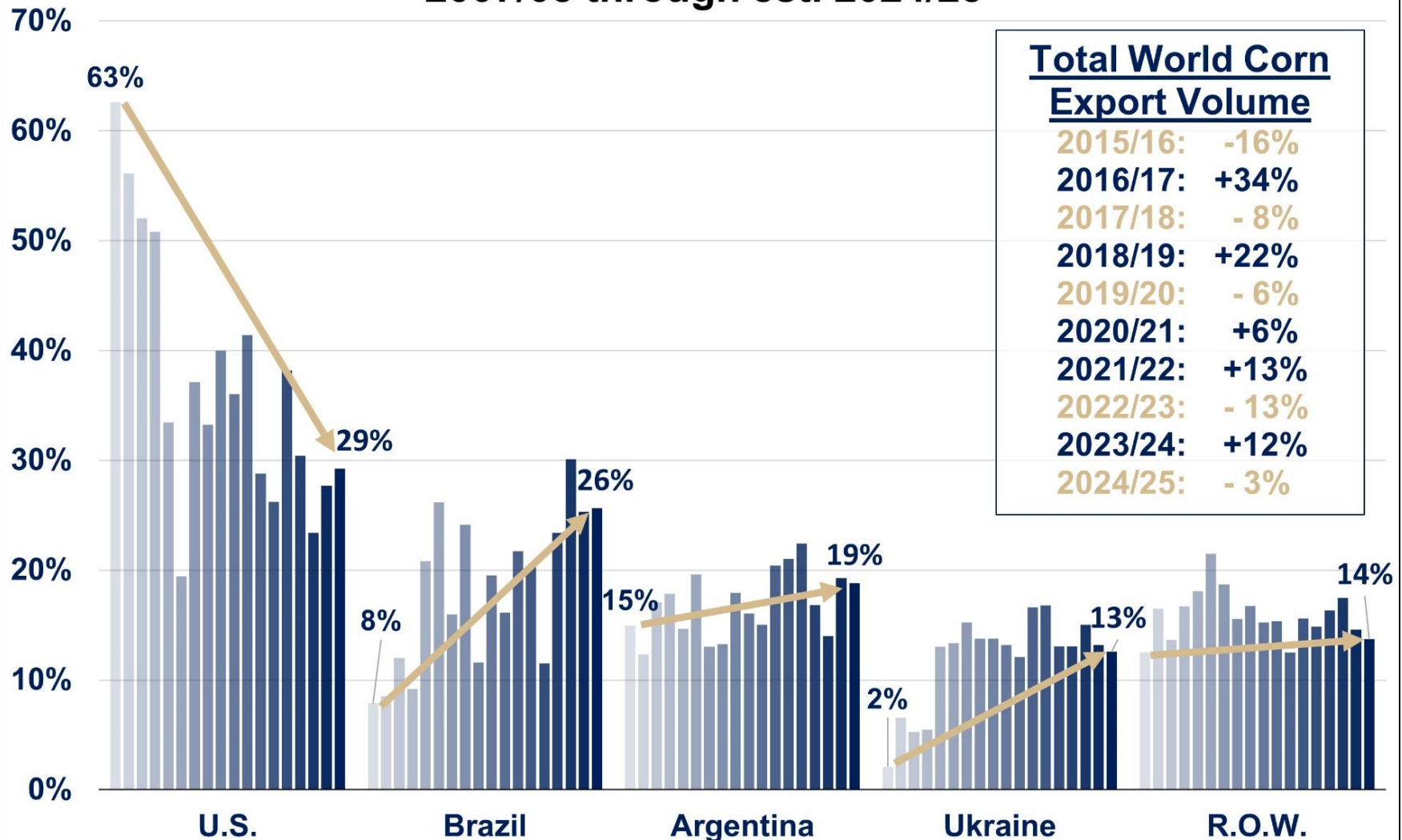
Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# World Corn Export Share

## 2007/08 through est. 2024/25



### Total World Corn Export Volume

2015/16:	-16%
2016/17:	+34%
2017/18:	-8%
2018/19:	+22%
2019/20:	-6%
2020/21:	+6%
2021/22:	+13%
2022/23:	-13%
2023/24:	+12%
2024/25:	-3%

Source: USDA, May 2024

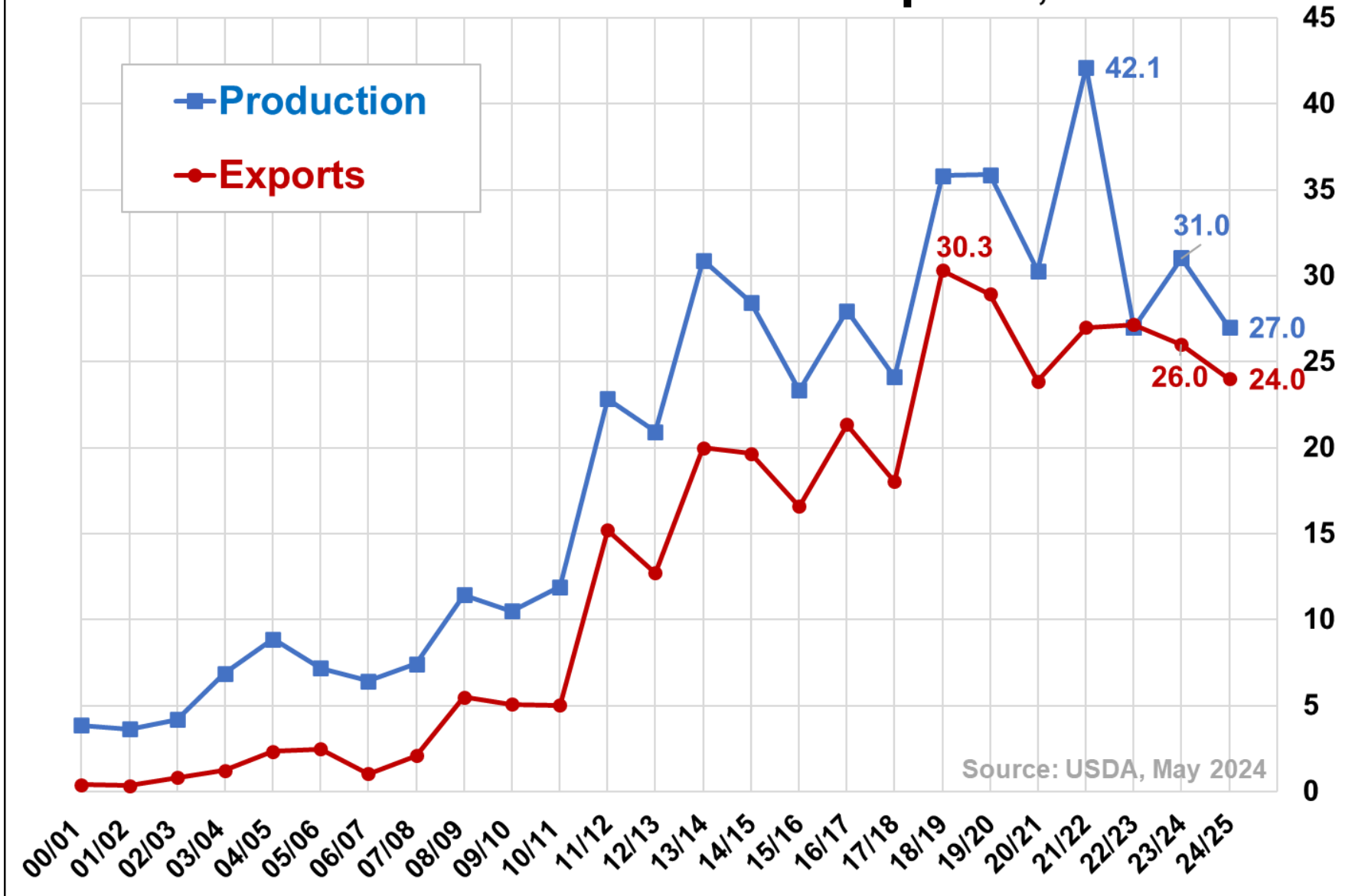


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# Ukraine Corn Production and Exports, million metric

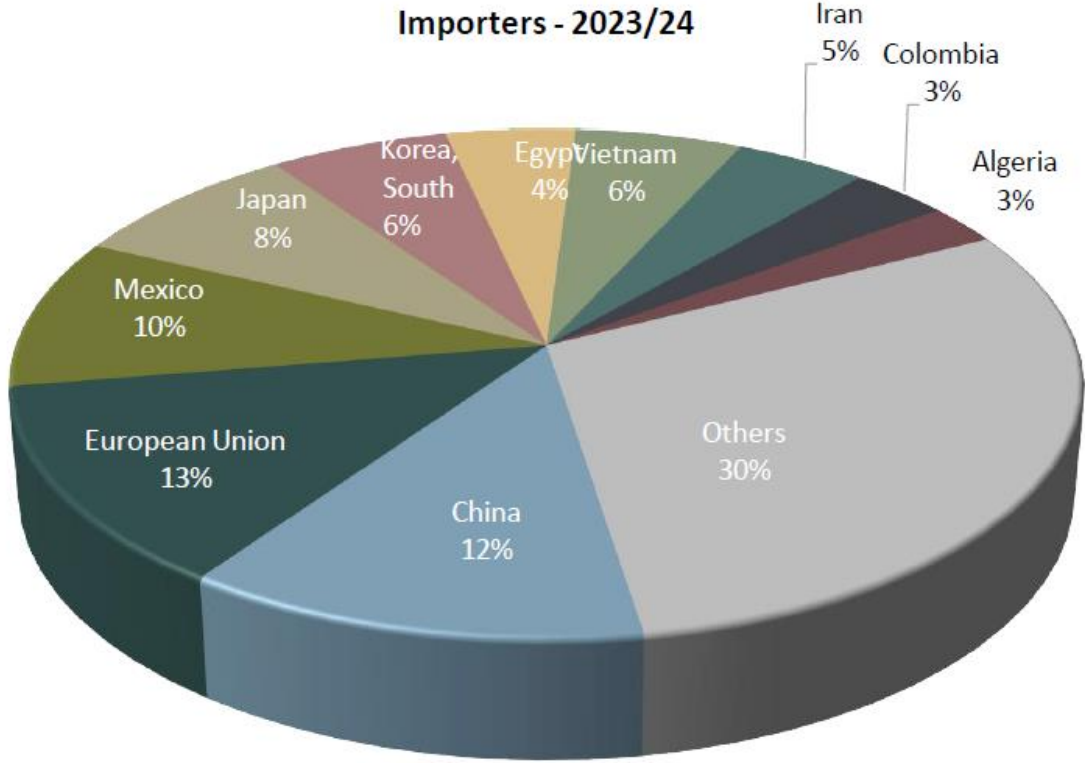


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# World Corn Imports



<u>Major Importers (MMT)</u>	<u>2021/22</u>	<u>2022/23</u>	<u>2023/24</u>
China	19.7	24.5	24.0
European Union	21.9	18.0	23.0
Mexico	17.6	17.2	18.0
Japan	15.0	15.0	15.5
<b>World</b>	<b>184.5</b>	<b>175.1</b>	<b>188.4</b>



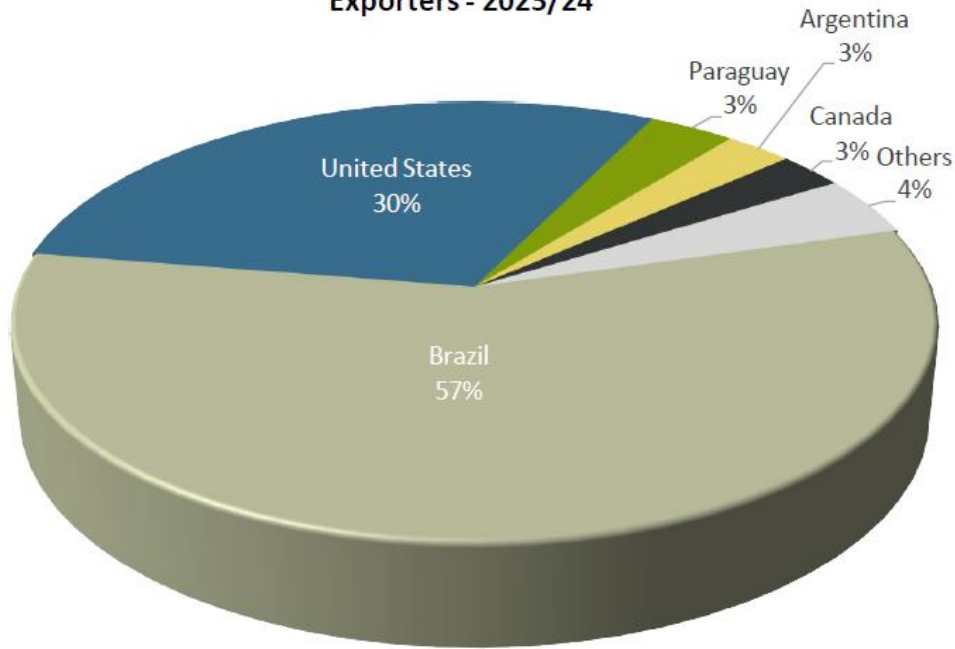
Source: USDA

[www.Hertz.ag](http://www.Hertz.ag)

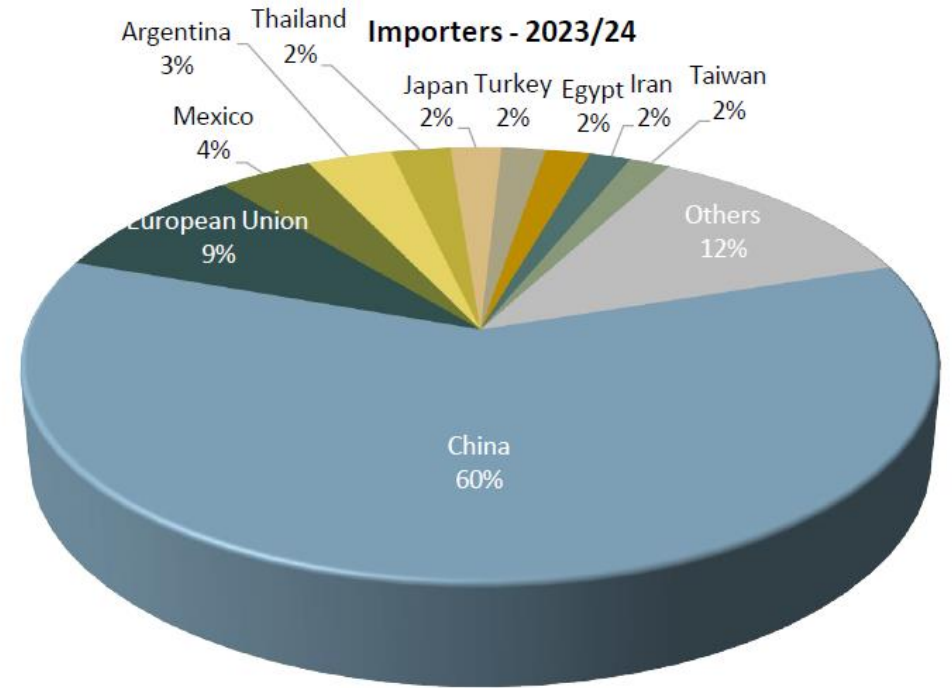


# World Soybean Trade

Exporters - 2023/24



Importers - 2023/24



Major Exporters (MMT)	2021/22	2022/23	2023/24
Brazil	79.1	94.0	96.5
United States	58.6	53.9	50.3
Paraguay	2.3	5.7	5.9
Argentina	2.9	3.8	4.6
<b>World</b>	<b>153.9</b>	<b>168.9</b>	<b>169.3</b>

Major Importers (MMT)	2021/22	2022/23	2023/24
China	91.6	99.0	99.0
European Union	14.5	13.9	14.0
Mexico	6.0	6.4	6.4
Argentina	3.8	8.7	5.7
<b>World</b>	<b>156.6</b>	<b>165.8</b>	<b>166.6</b>



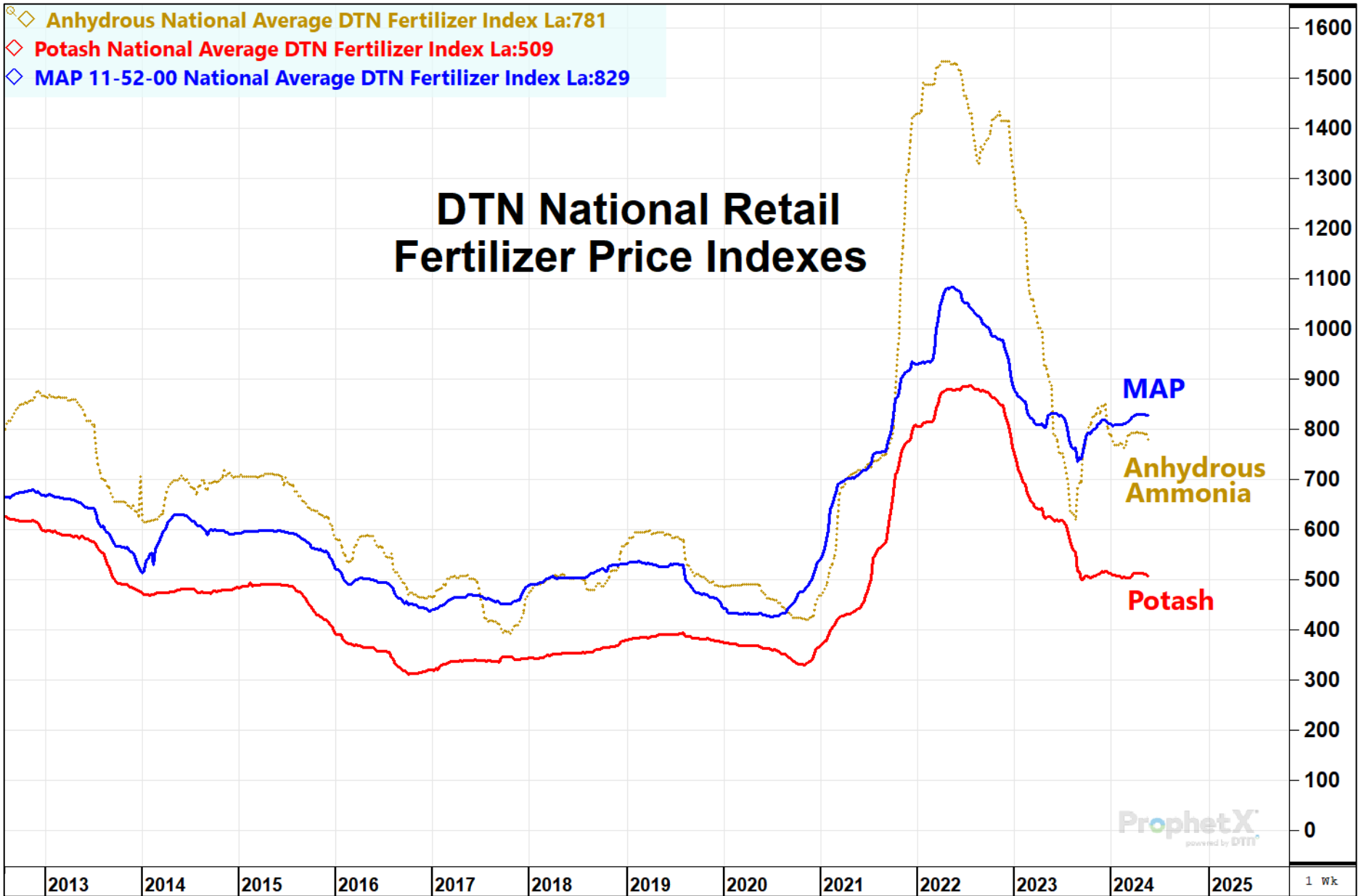
Source: USDA

[www.Hertz.ag](http://www.Hertz.ag)



# Corn Market





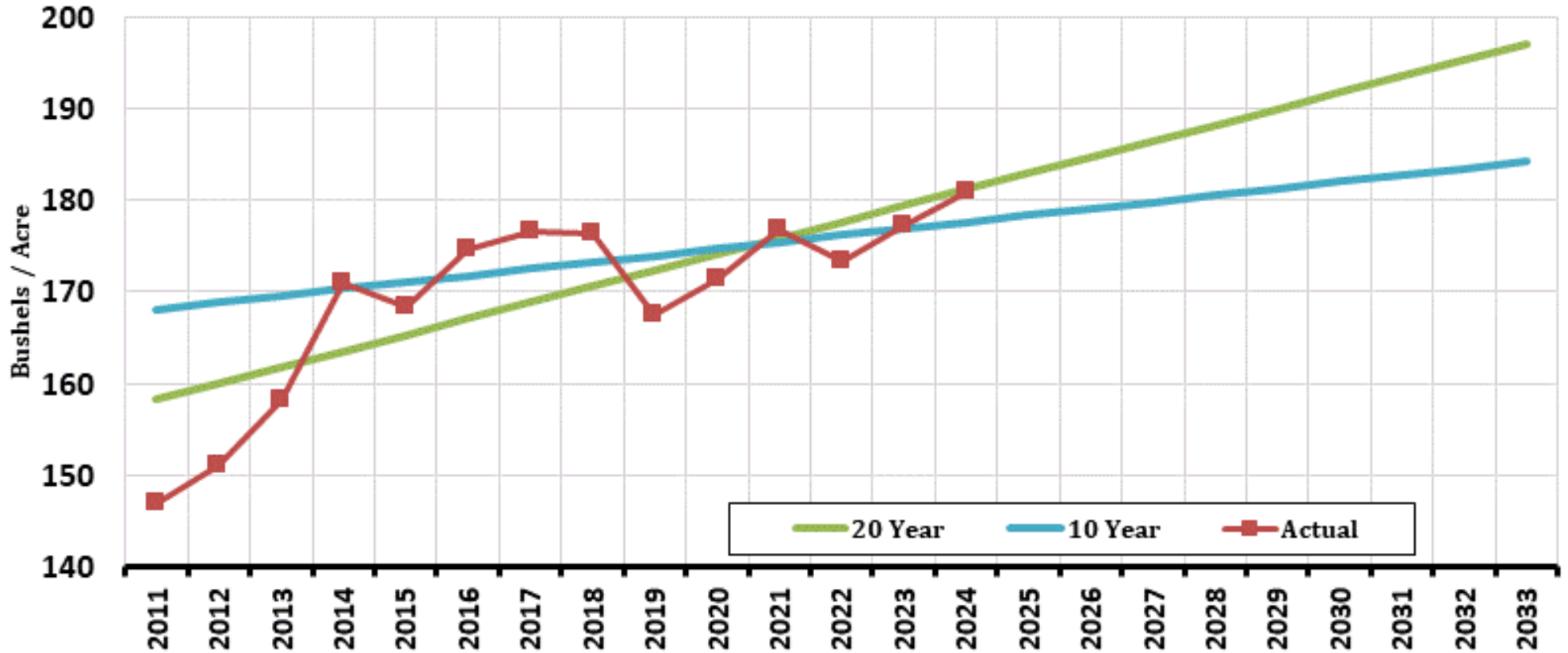
Source: DTN

[www.Hertz.ag](http://www.Hertz.ag)





# U.S. Corn Yield Actual vs. Trend Line



Updated: 07/12/2024

The Hightower Report



Source: The Hightower Report

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Corn Supply and Use

Marketing Year (2023 = 9/1/23 to 8/31/24)		2020	2021	2022	2023	2024
Area Planted	(mil. acres)	90.7	93.3	88.2	94.6	91.5
Yield	(bu./acre)	171.4	176.7	173.4	177.3	181.0
Production	(mil. bu.)	14,111	15,074	13,657	15,342	15,100
Beg. Stocks	(mil. bu.)	1,919	1,235	1,377	1,360	1,877
Imports	(mil. bu.)	24	24	39	30	25
Total Supply	(mil. bu.)	16,055	16,333	15,066	16,732	17,002
Feed & Residual	(mil. bu.)	5,607	5,718	5,486	5,775	5,825
Ethanol	(mil. bu.)	5,028	5,275	5,176	5,450	5,450
Food, Seed, & Other	(mil. bu.)	1,439	1,440	1,383	1,405	1,405
Exports	(mil. bu.)	2,747	2,471	1,661	2,225	2,225
Total Use	(mil. bu.)	14,821	14,956	13,706	14,855	14,905
Ending Stocks	(mil. bu.)	1,235	1,377	1,360	1,877	2,097
Season-Average Price	(\$/bu.)	4.53	6.00	6.54	4.65	4.30



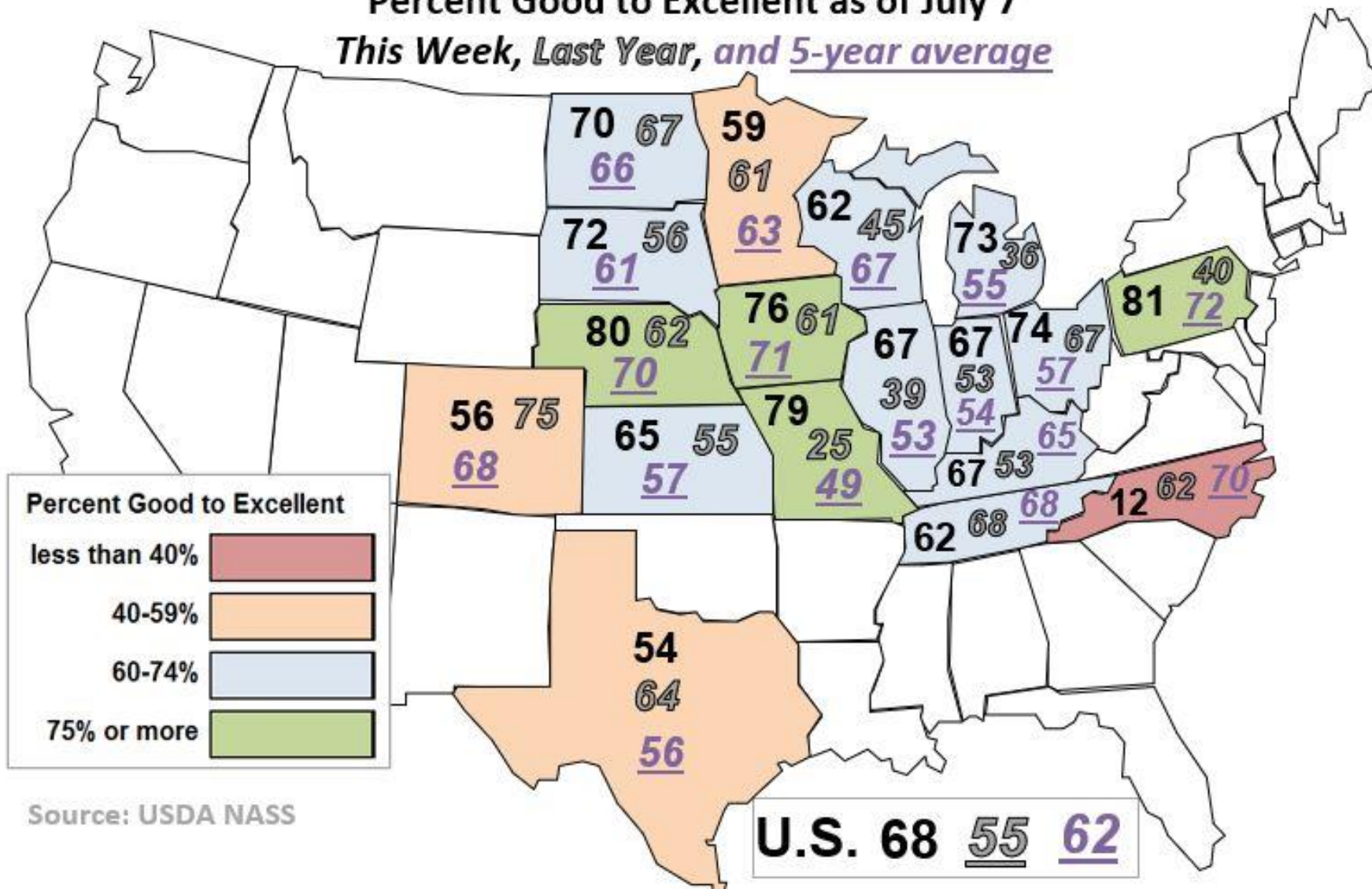
Source: Chad E. Hart

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Corn Condition, Percent Good to Excellent as of July 7

*This Week, Last Year, and 5-year average*



Source: USDA NASS

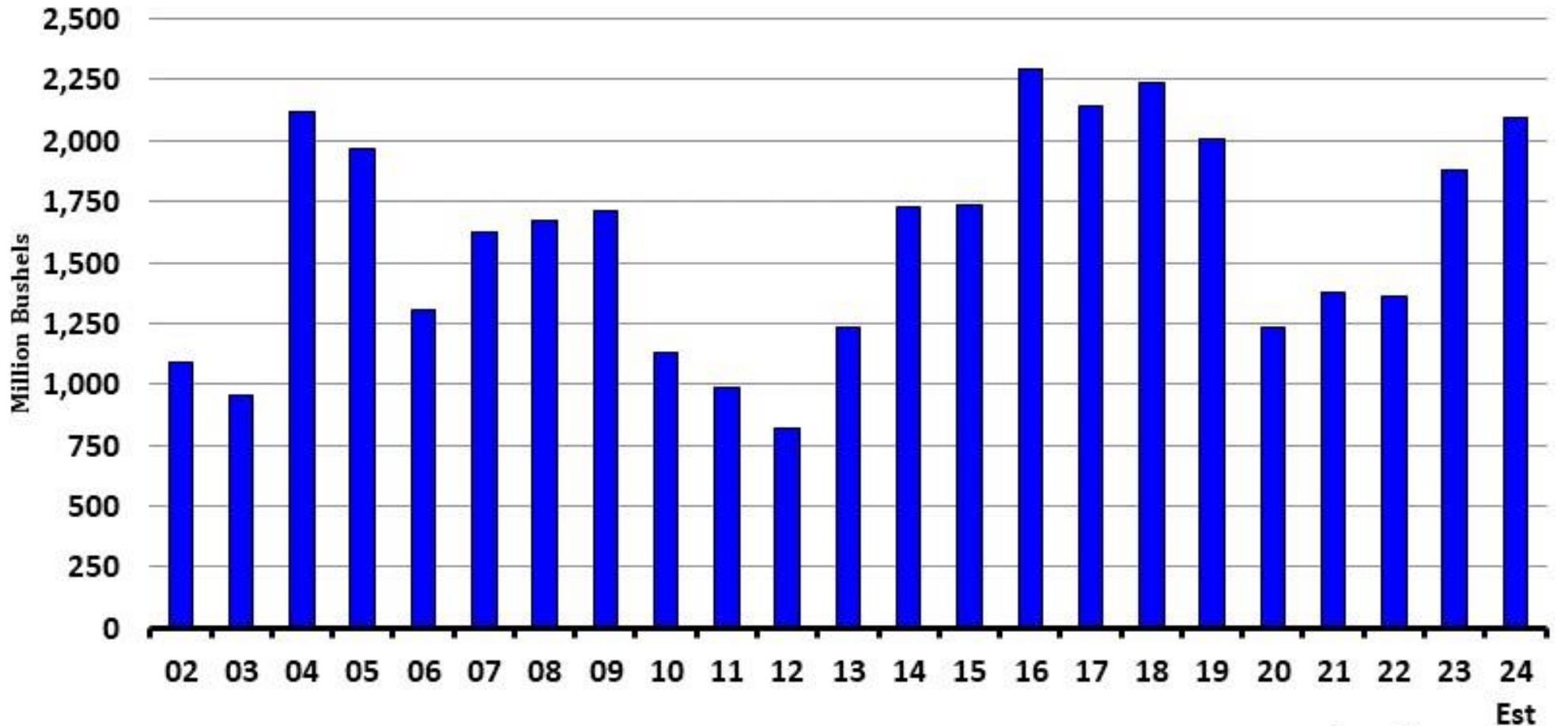


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Corn Ending Stocks



Most Recent: 2,097 As Of 07/12/2024

The Hightower Report

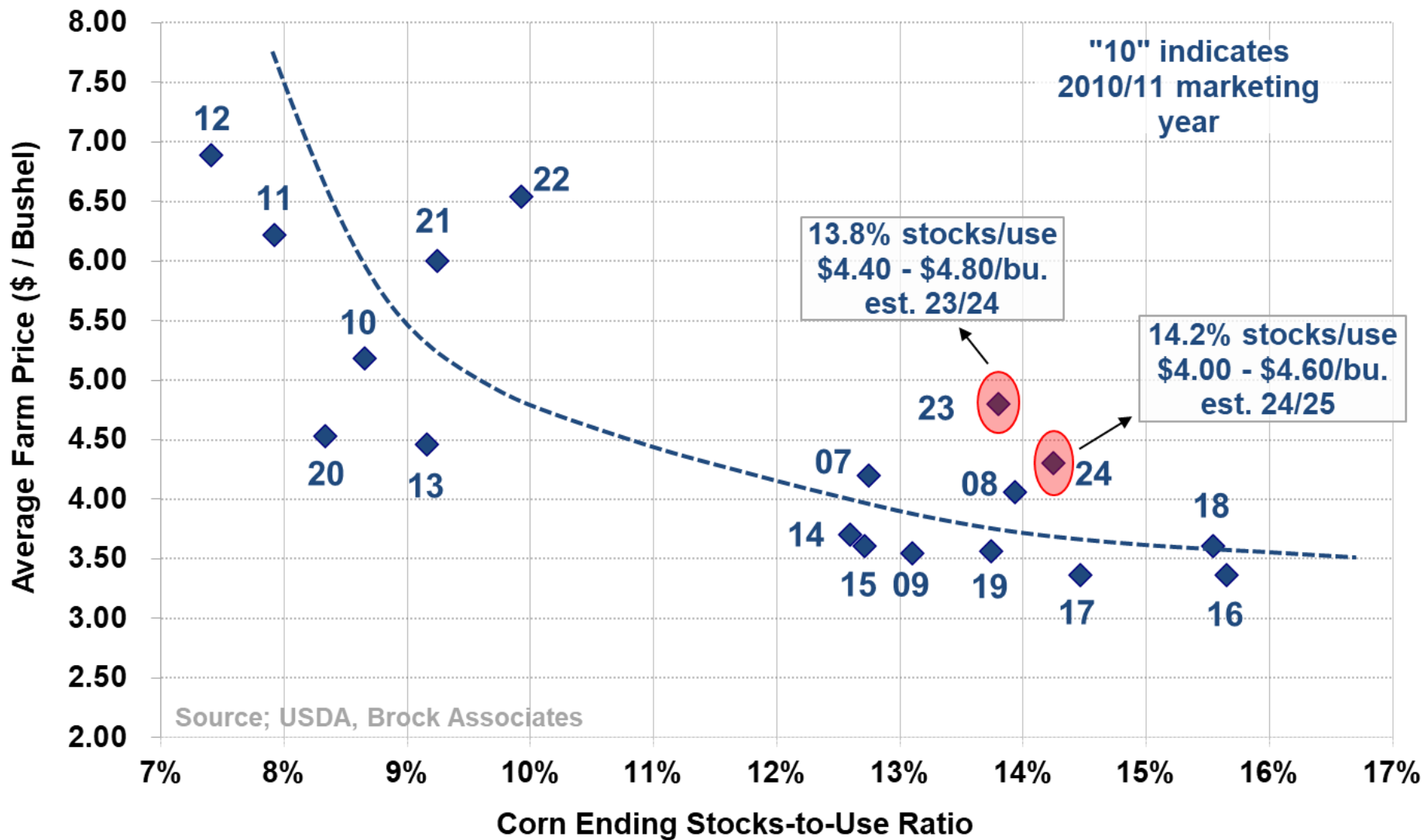


Source: The Hightower Report

[www.Hertz.ag](http://www.Hertz.ag)



## U.S. Corn Ending Stocks/Use Ratio vs. Average Price (2007/08 to 2024/25)



Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# Corn Demand



# U.S. Corn Exports



Most Recent: 2,225 As Of 07/12/2024

The Hightower Report

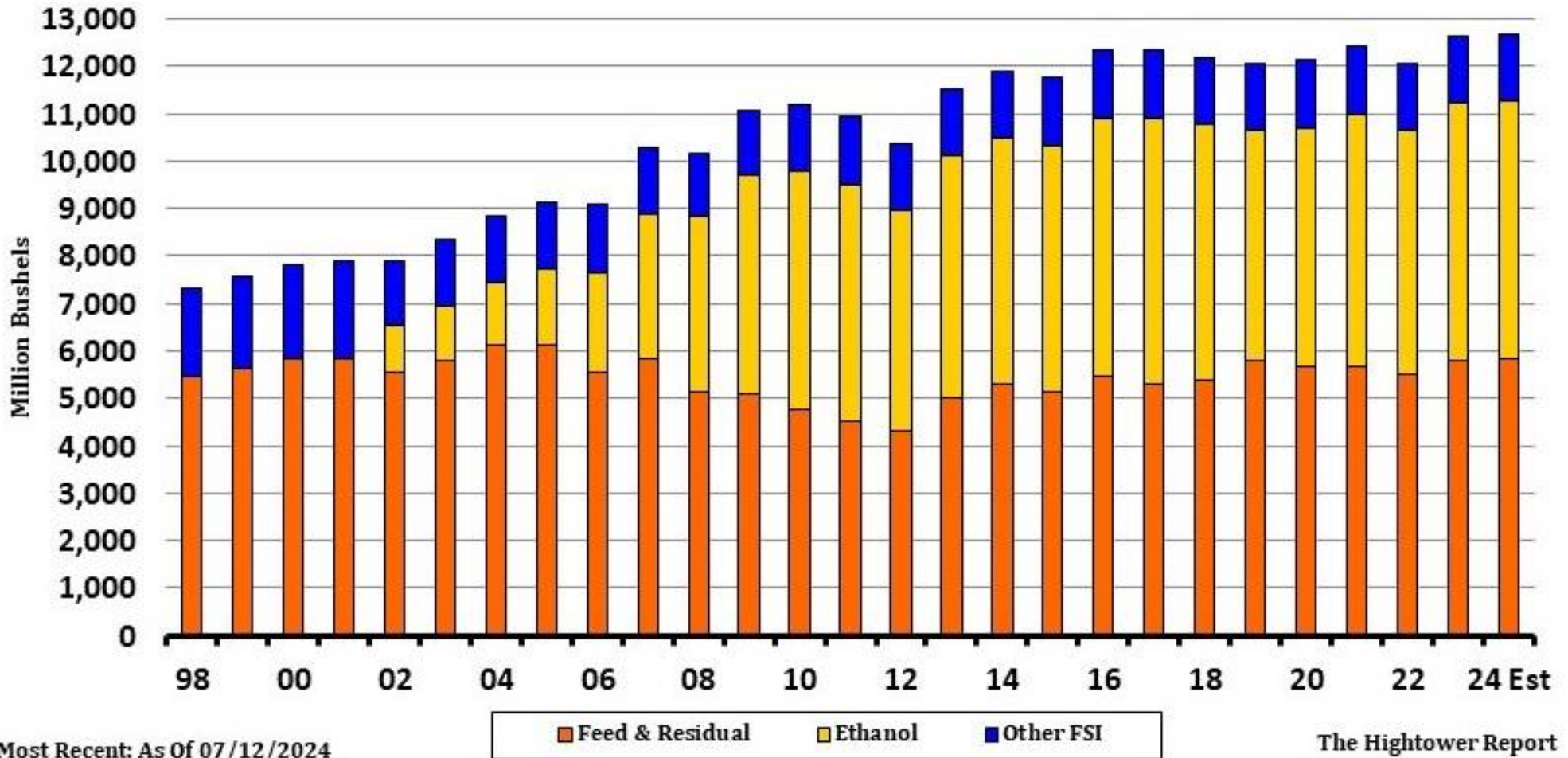


Source: The Hightower Report

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Corn Total Usage



Source: CME Group

[www.Hertz.ag](http://www.Hertz.ag)

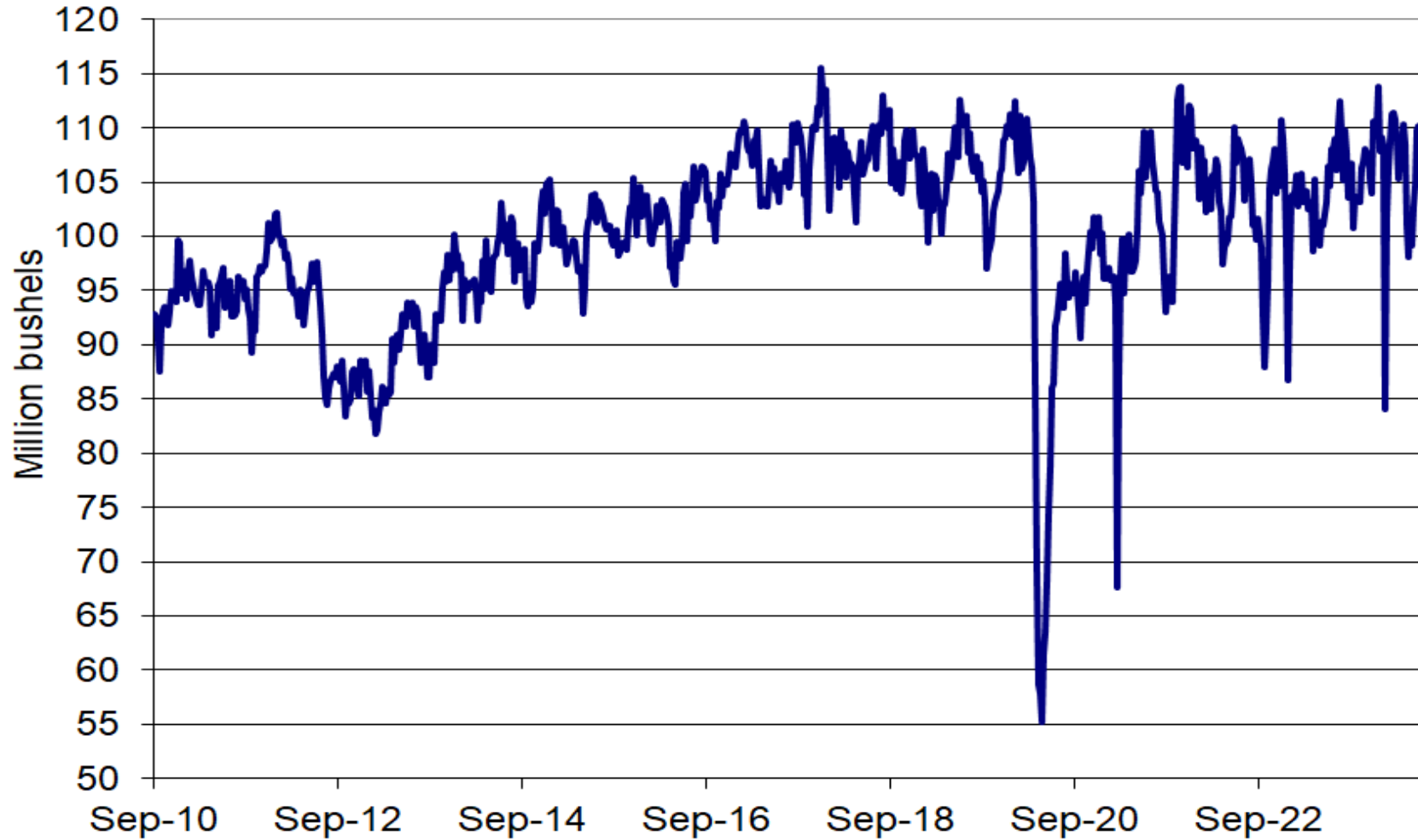




# Renewable Fuels



# Corn Grind for Ethanol

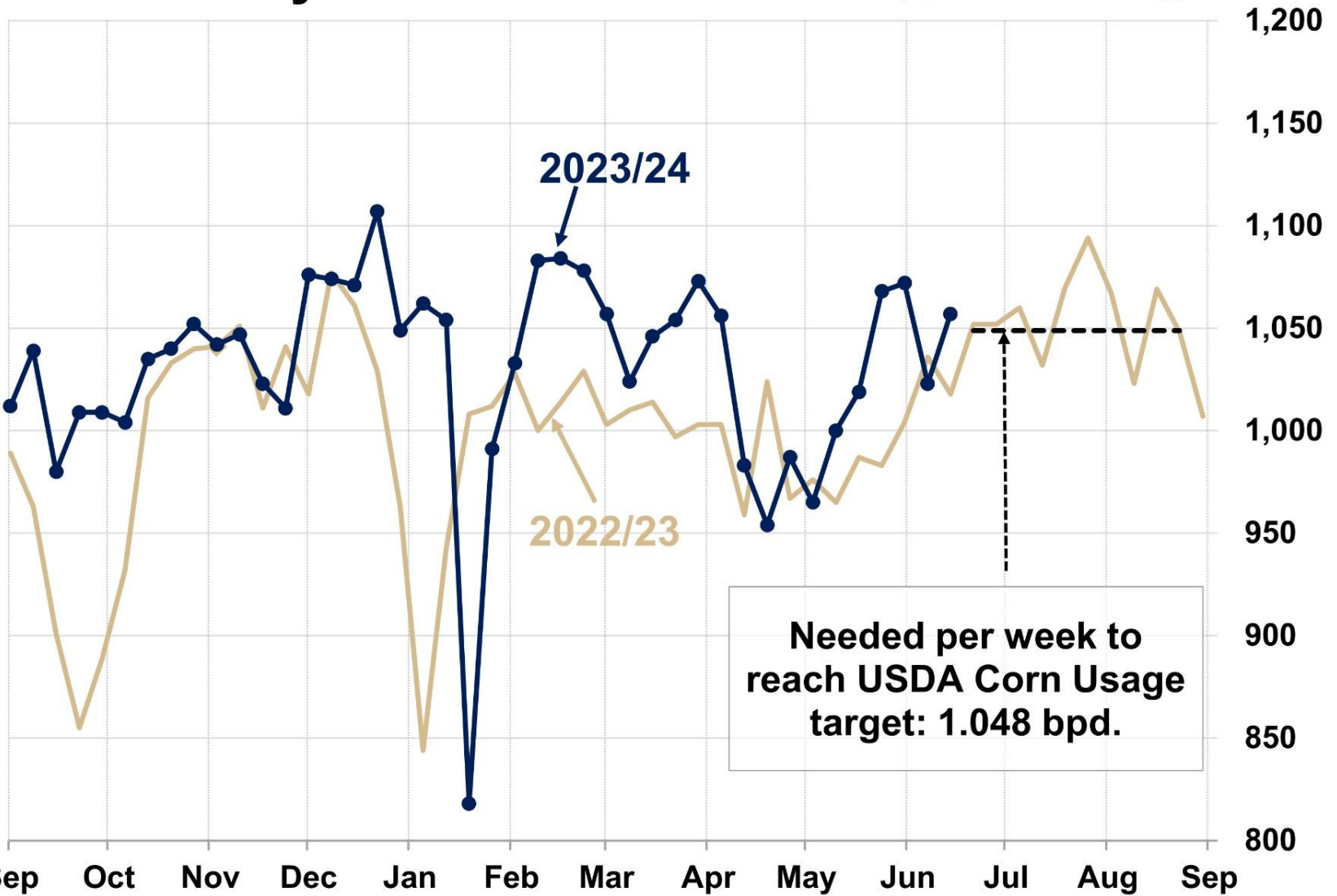


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# Weekly Ethanol Production (1,000 barrels/day)



Source: EIA, Brock Associates, through June 14



Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# Weekly Gasoline Demand

## 4 Week Average

mil. bbl/day

10.0

9.5

9.0

8.5

8.0

7.5

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Source: EIA, through June 14 2024

Last 5 Year Range  
Excluding 2020  
(2018, 2019, 2021, 2022, 2023)

Average

2024



Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# BIODIESEL

Developed by Rudolph Diesel in 1890



Transesterification of vegetable oils & animal fats



Require separate storage & handling due to cold-weather properties



20% maximum blend (B20)



Higher cloud point (can gel in cold temps)



# RENEWABLE DIESEL

Chemically identical to petroleum diesel

Hydrotreating process utilizing a variety of feedstocks

Can use existing pipelines & infrastructure

A 'drop-in' fuel that can be used as 1-for-1 replacement

Very low cloud point (won't gel)

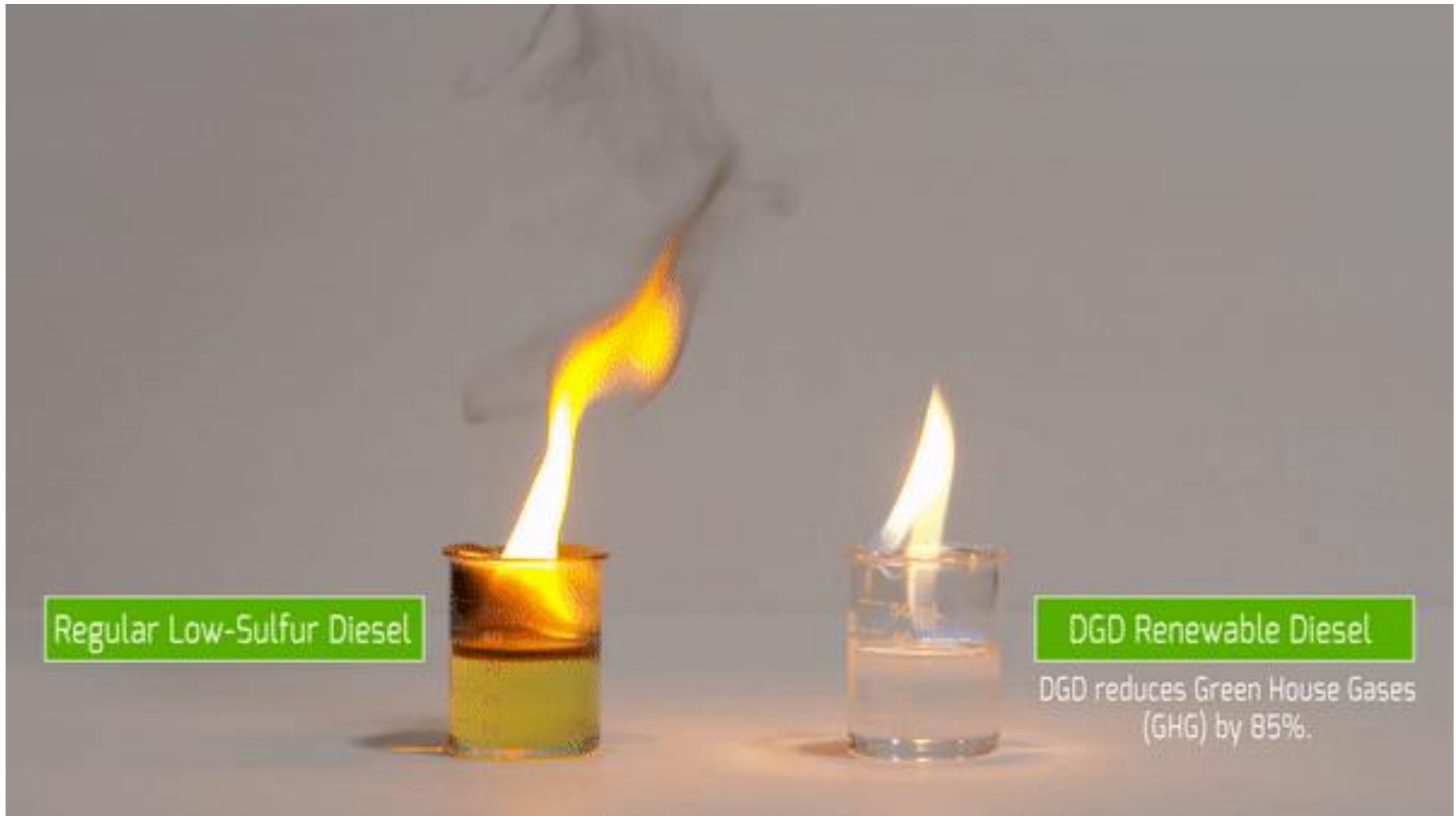
Source: Energy Information Administration

@SusanNOBULL

Source: EIA

[www.Hertz.ag](http://www.Hertz.ag)

# Renewable Diesel

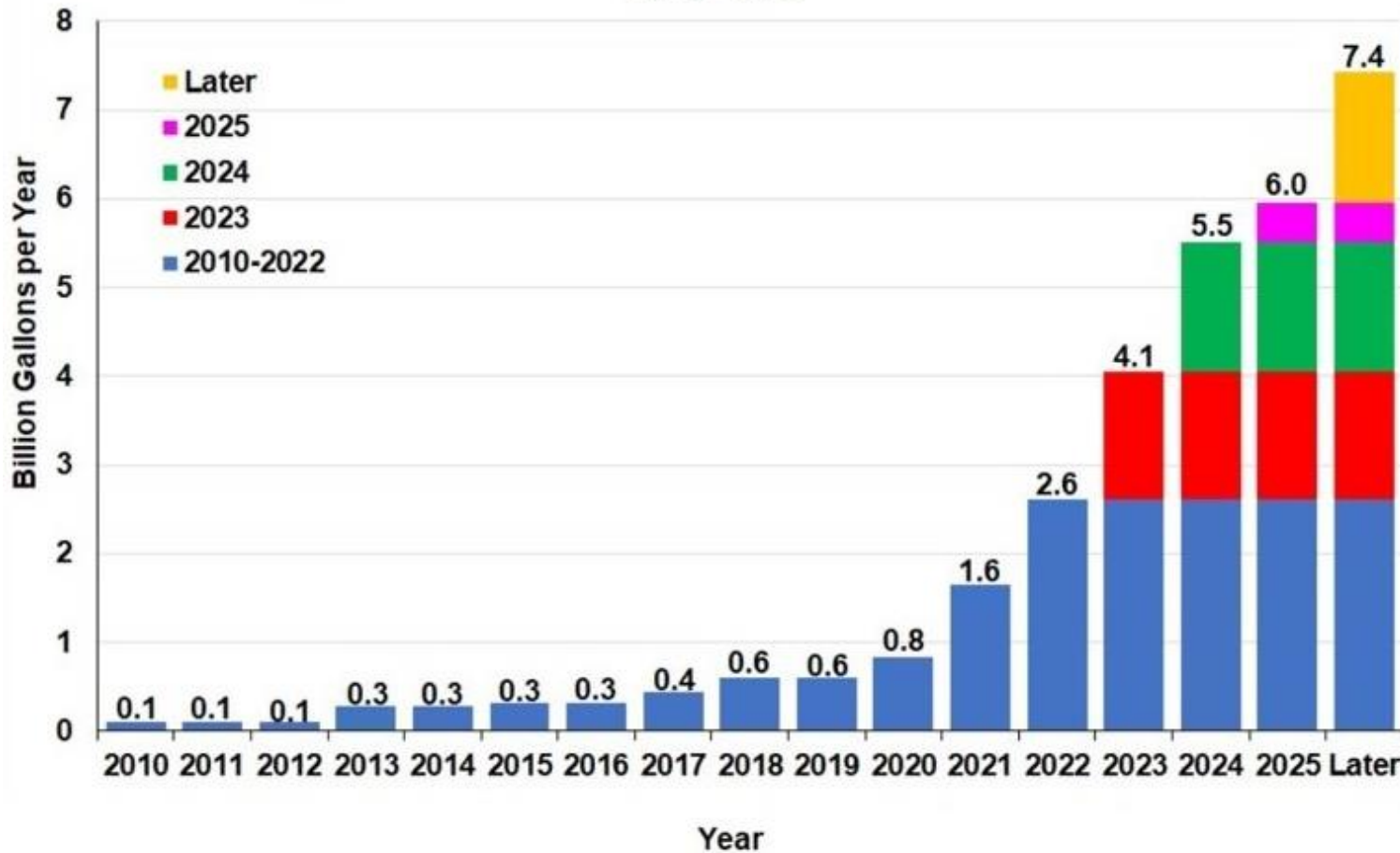


Source: EIA

[www.Hertz.ag](http://www.Hertz.ag)

# Renewable Diesel Push

Figure 1. Annual U.S. Renewable Diesel Nameplate Production Capacity, Actual for 2010 - 2022 and Projected for 2023 - 2025 and Later



Source: EIA

[www.Hertz.ag](http://www.Hertz.ag)



# Sustainable Aviation Fuel – SAF

## FUELING THE FUTURE FOR CLEANER SKIES

Honeywell

Take off with UOP's ethanol to jet (ETJ) process technology. The next generation of renewable fuels.



5. SUSTAINABLE AVIATION FUEL (SAF)

### BENEFITS OF ETJ

-  High jet yield output
-  Lower CAPEX & OPEX
-  Reduced GHG emissions
-  Higher profit margins



Source: Honeywell

[www.Hertz.ag](http://www.Hertz.ag)





# Sustainable Aviation Fuel – SAF

- Over 450,000 flights using **SAF – 50 airlines test.**
- **SAF reduces emissions by 75-90% reducing the carbon footprint of the airlines.**
- The WH wants 3B gallons by 2030 and a full 35B gallons by 2050.
- Today, we take 5B bushels of corn to make 17B gallons of ethanol. To meet 35B gallons an **ADDITIONAL 10B bushels of corn** would be needed to meet this demand if all the technology comes together on this.
- Only SAF plant online is in Georgia and is importing ethanol from South America because of lower CI scores.
- Summit pipeline approved.
- **Could be huge boom for farmers if policy is written correctly.**

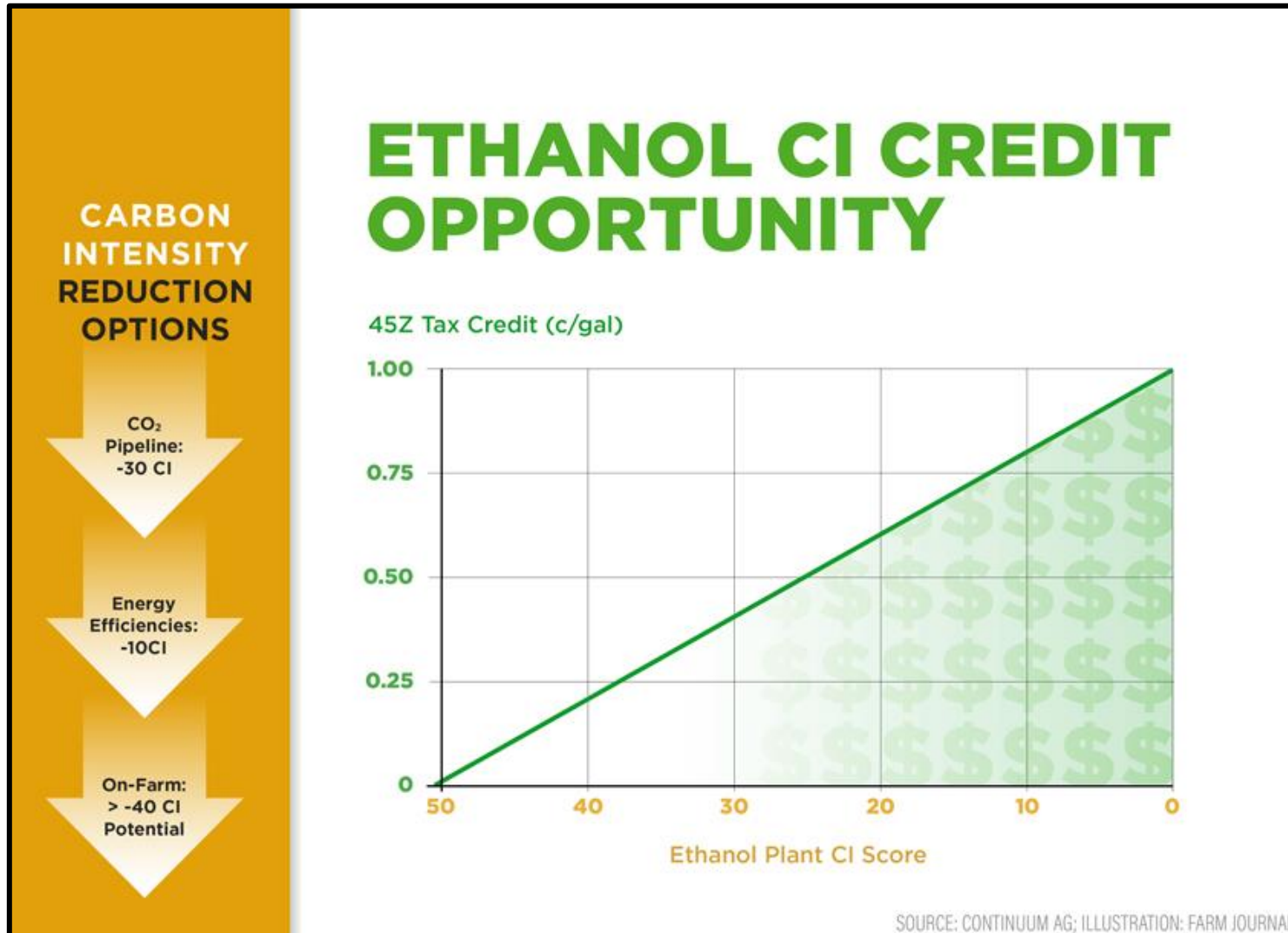


# 45Z Tax Credit

- Incentive for biofuel producers to lower carbon intensity (CI) scores starting Jan. 1, 2025
- Ethanol plant typical CI = 50-60
  - Every point below 50 earns \$.02 per gal tax credit
  - How?
    - Carbon Capture Storage (ex. pipelines)
    - Improved energy efficiency
    - Low-carbon feedstocks (corn, soybeans)
      - Utilizing no-till, cover crops, efficient fertilizer use
      - Calculations will be based on IRS rules (still TBD)
      - Processors **may** provide premium for low-carbon grain; no programs in place yet



# 45Z Tax Credit



Source: Continuum Ag

[www.Hertz.ag](http://www.Hertz.ag)



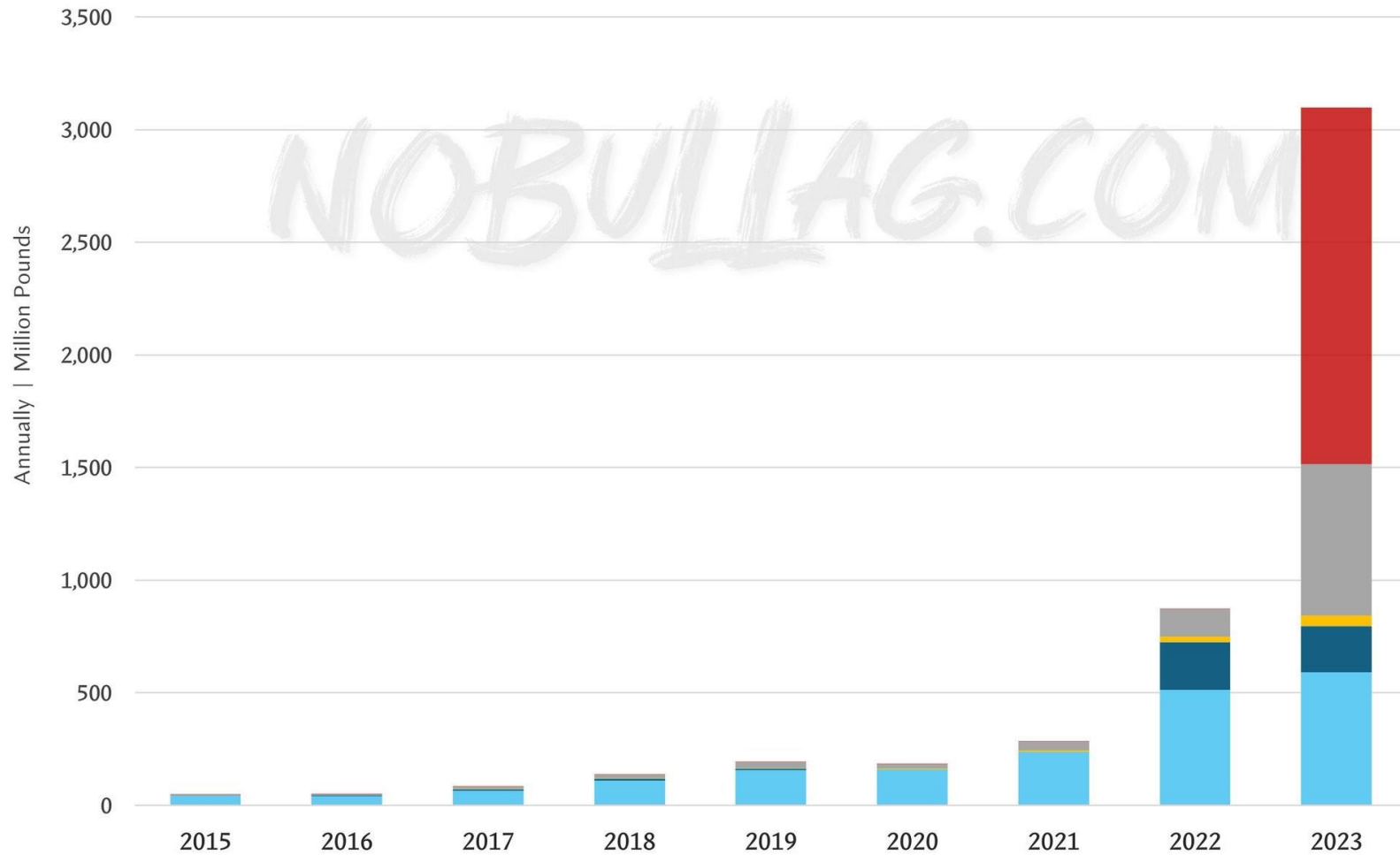


# Used Cooking Oil Imports by Origin

Canada | Australia | Mexico | Other | China

United States<sup>®</sup>  
**Census**  
Bureau

@SusanNOBULL



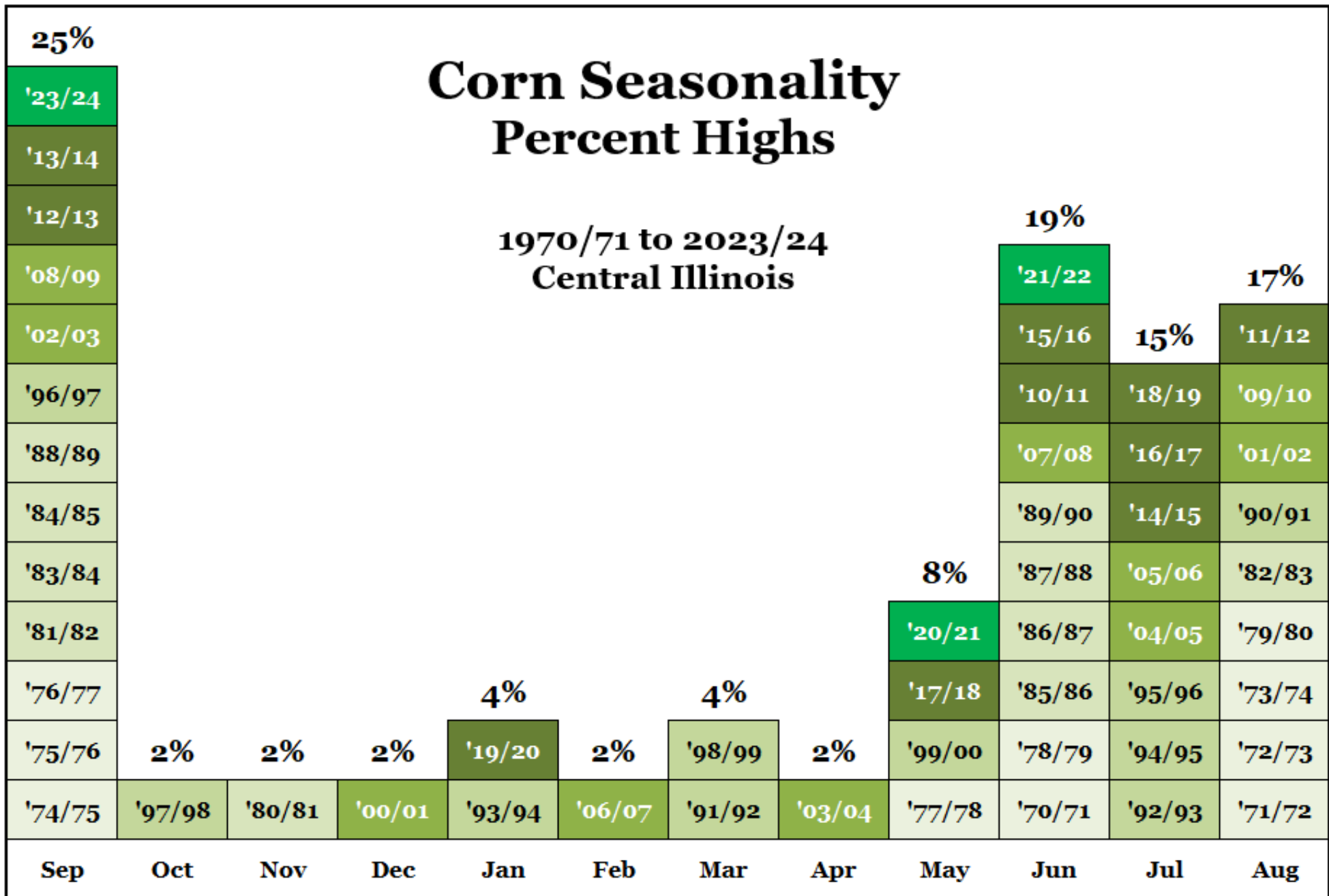
Source: US Census Bureau



Source: No Bull Ag

[www.Hertz.ag](http://www.Hertz.ag)

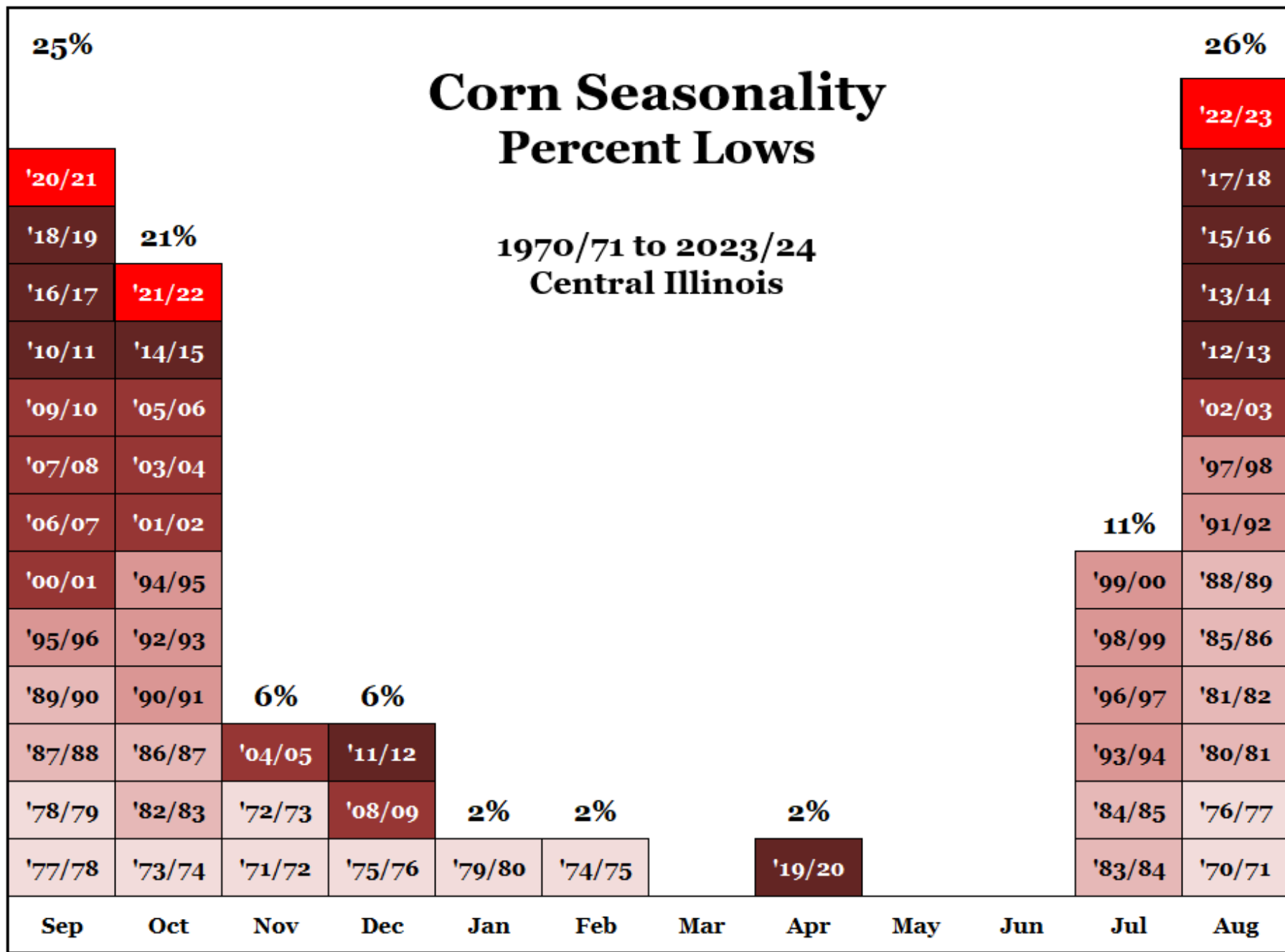




Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



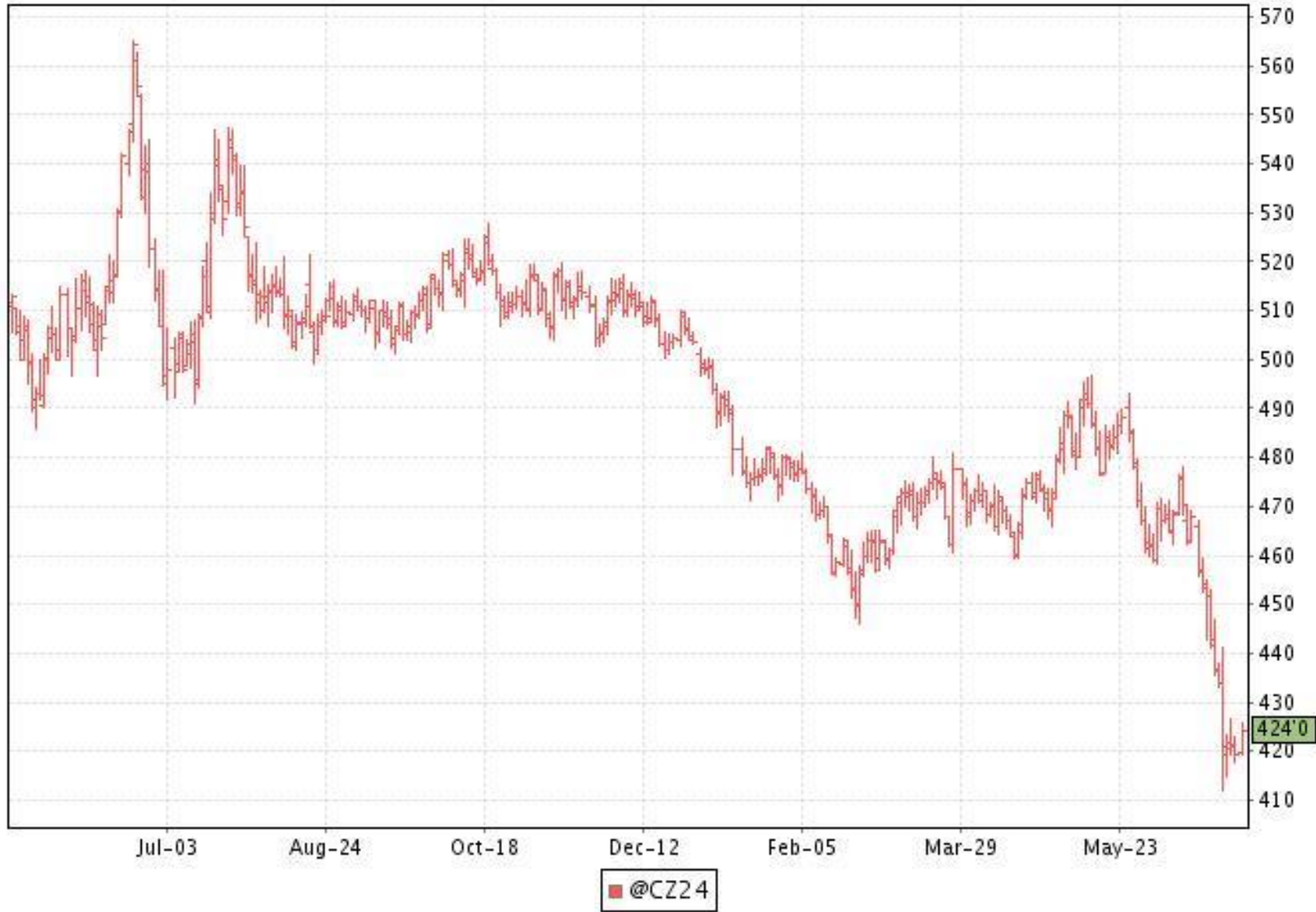


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# December 2024 Corn Chart

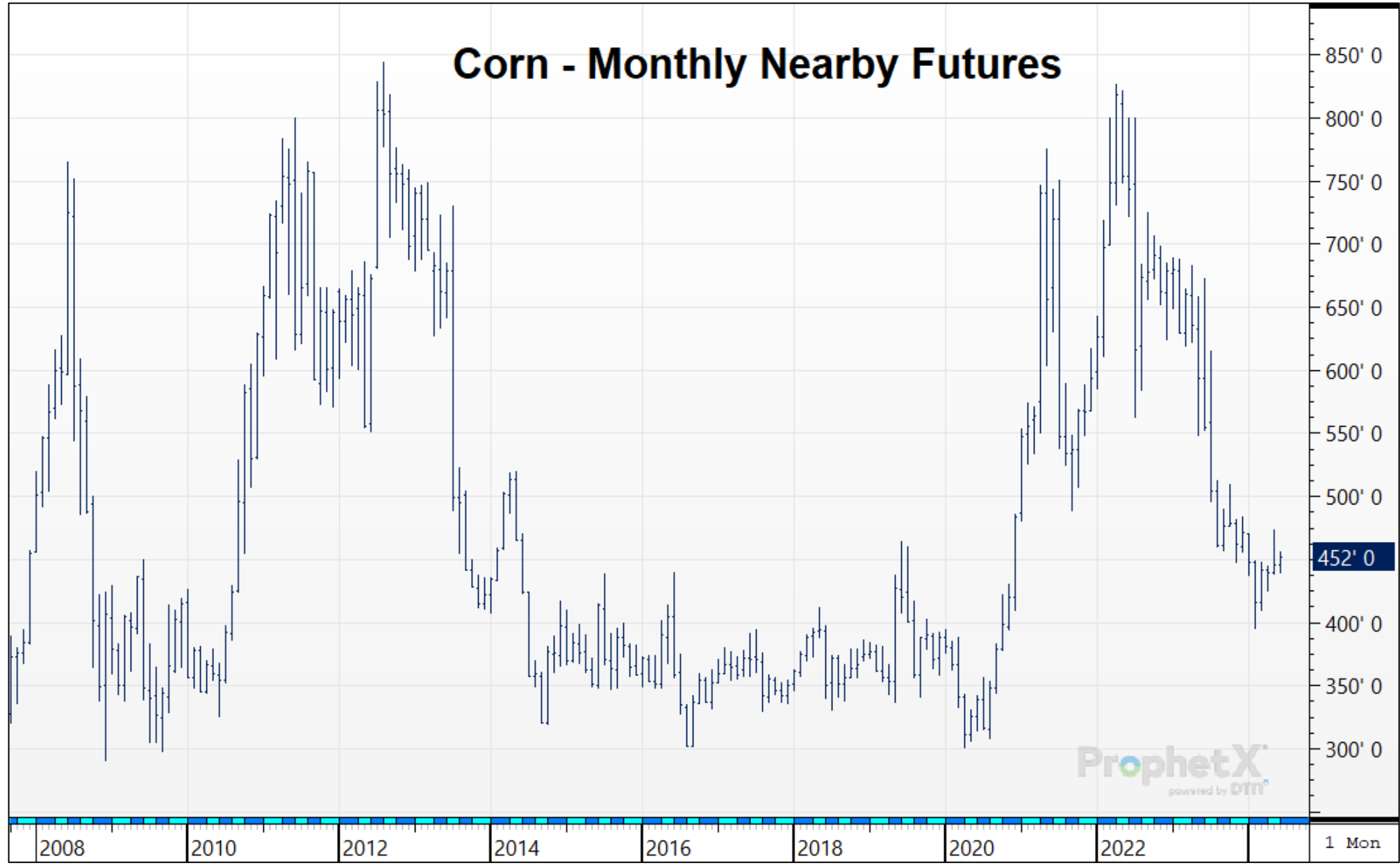


Source: DTN

[www.Hertz.ag](http://www.Hertz.ag)



# Corn - Monthly Nearby Futures



ProphetX  
powered by DTN



Source: DTN

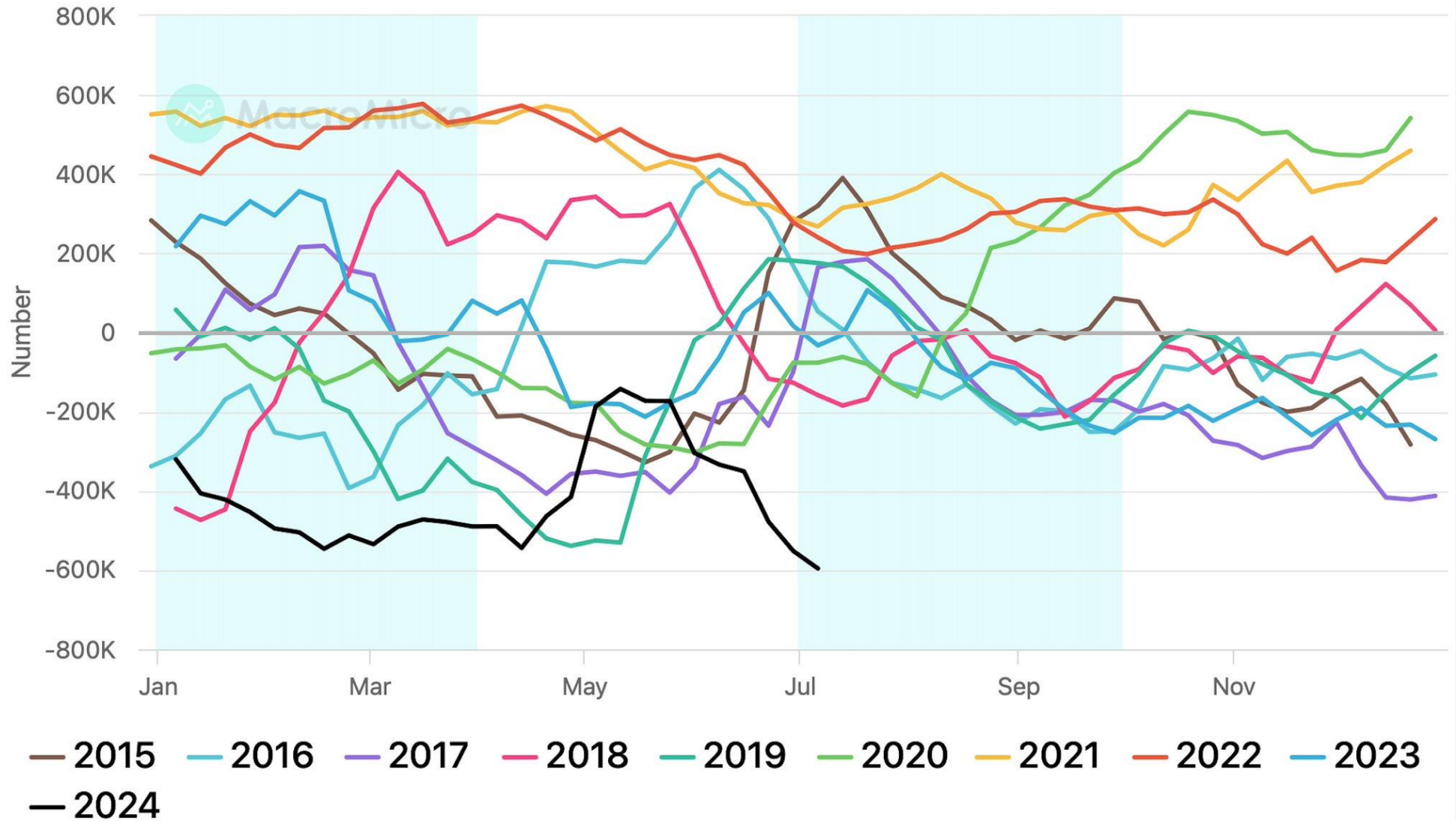
[www.Hertz.ag](http://www.Hertz.ag)





# Managed Money Net Position (Corn + Soybeans + Wheat)

MacroMicro.me | DDFalpha



Source: MacroMicro.me

[www.Hertz.ag](http://www.Hertz.ag)



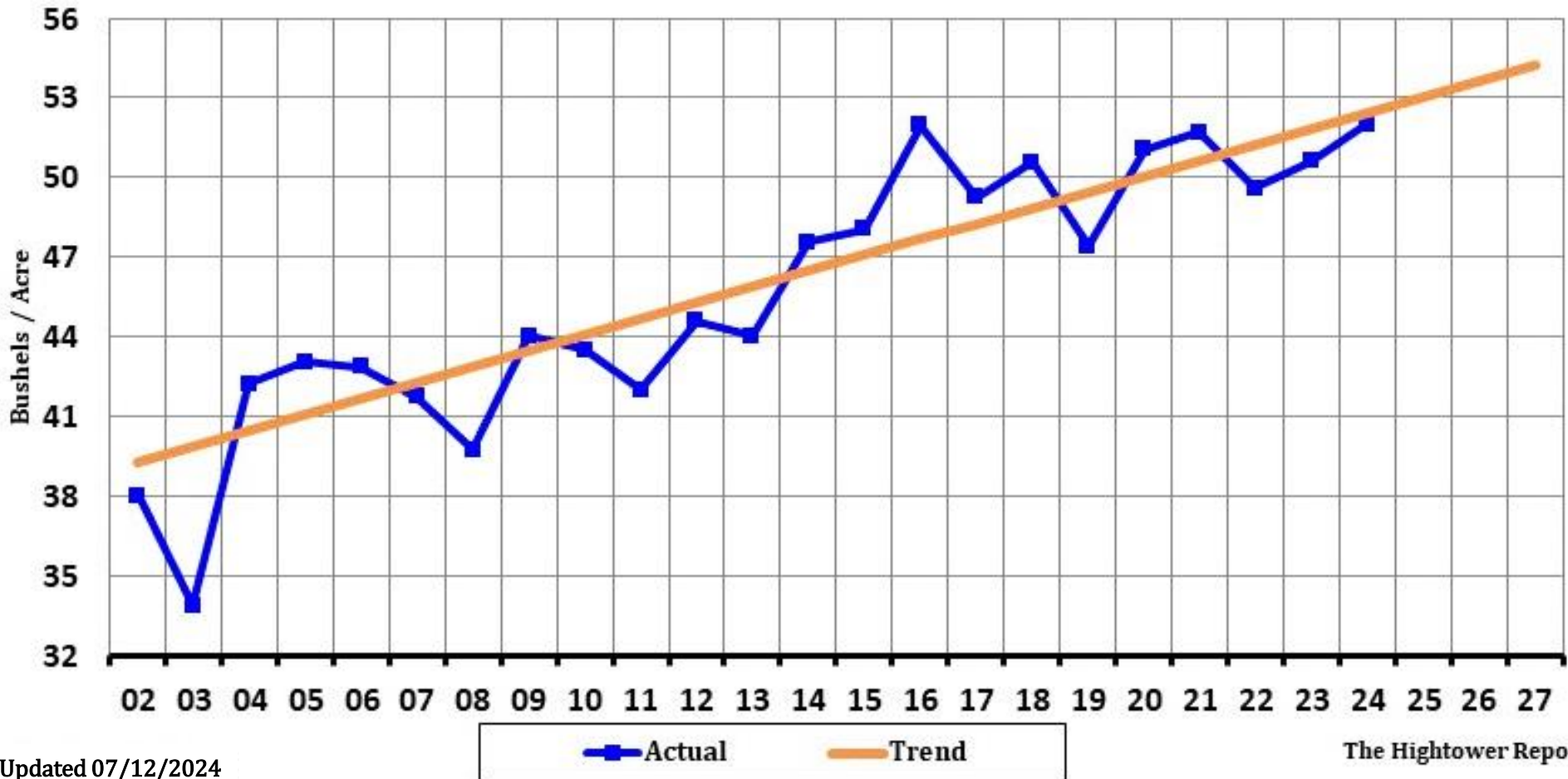
# Soybean Market



[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Soybean Yield Actual vs. Trendline



Source: The Hightower Report

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Soybean Supply and Use

Marketing Year (2023 = 9/1/23 to 8/31/24)		2020	2021	2022	2023	2024
Area Planted	(mil. acres)	83.4	87.2	87.5	83.6	86.1
Yield	(bu./acre)	51.0	51.7	49.6	50.6	52.0
Production	(mil. bu.)	4,216	4,465	4,270	4,165	4,435
Beg. Stocks	(mil. bu.)	525	257	274	264	345
Imports	(mil. bu.)	20	16	25	20	15
Total Supply	(mil. bu.)	4,761	4,738	4,569	4,449	4,795
Crush	(mil. bu.)	2,141	2,204	2,212	2,290	2,425
Seed & Residual	(mil. bu.)	97	103	101	114	110
Exports	(mil. bu.)	2,265	2,158	1,992	1,700	1,825
Total Use	(mil. bu.)	4,504	4,464	4,305	4,104	4,360
Ending Stocks	(mil. bu.)	257	274	264	345	435
Season-Average Price	(\$/bu.)	10.80	13.30	14.20	12.50	11.10



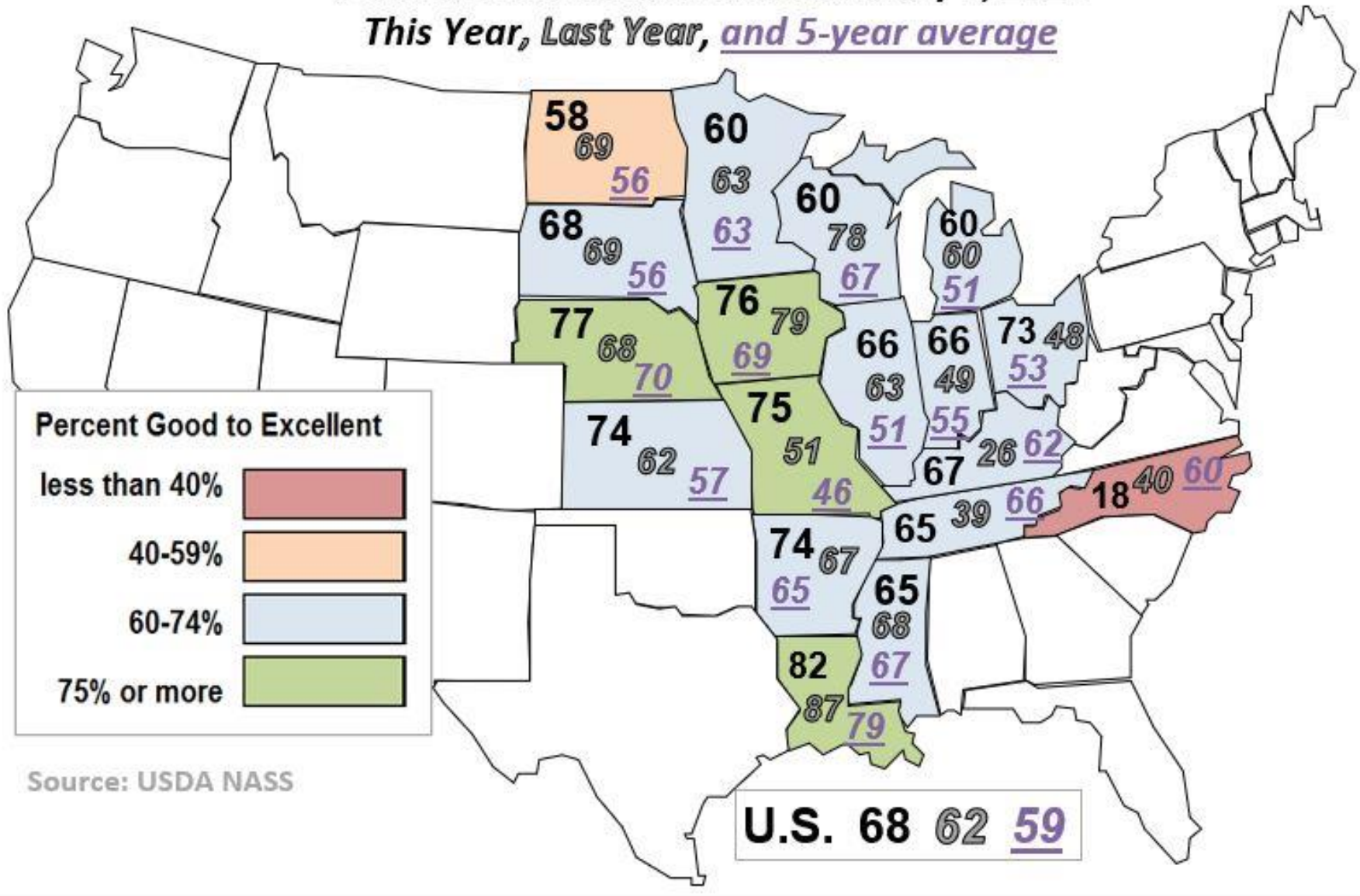
Source: Chad E. Hart

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Soybean Condition, Percent Good to Excellent as of July 7, 2024

*This Year, Last Year, and 5-year average*



**Percent Good to Excellent**

- less than 40%
- 40-59%
- 60-74%
- 75% or more

Source: USDA NASS

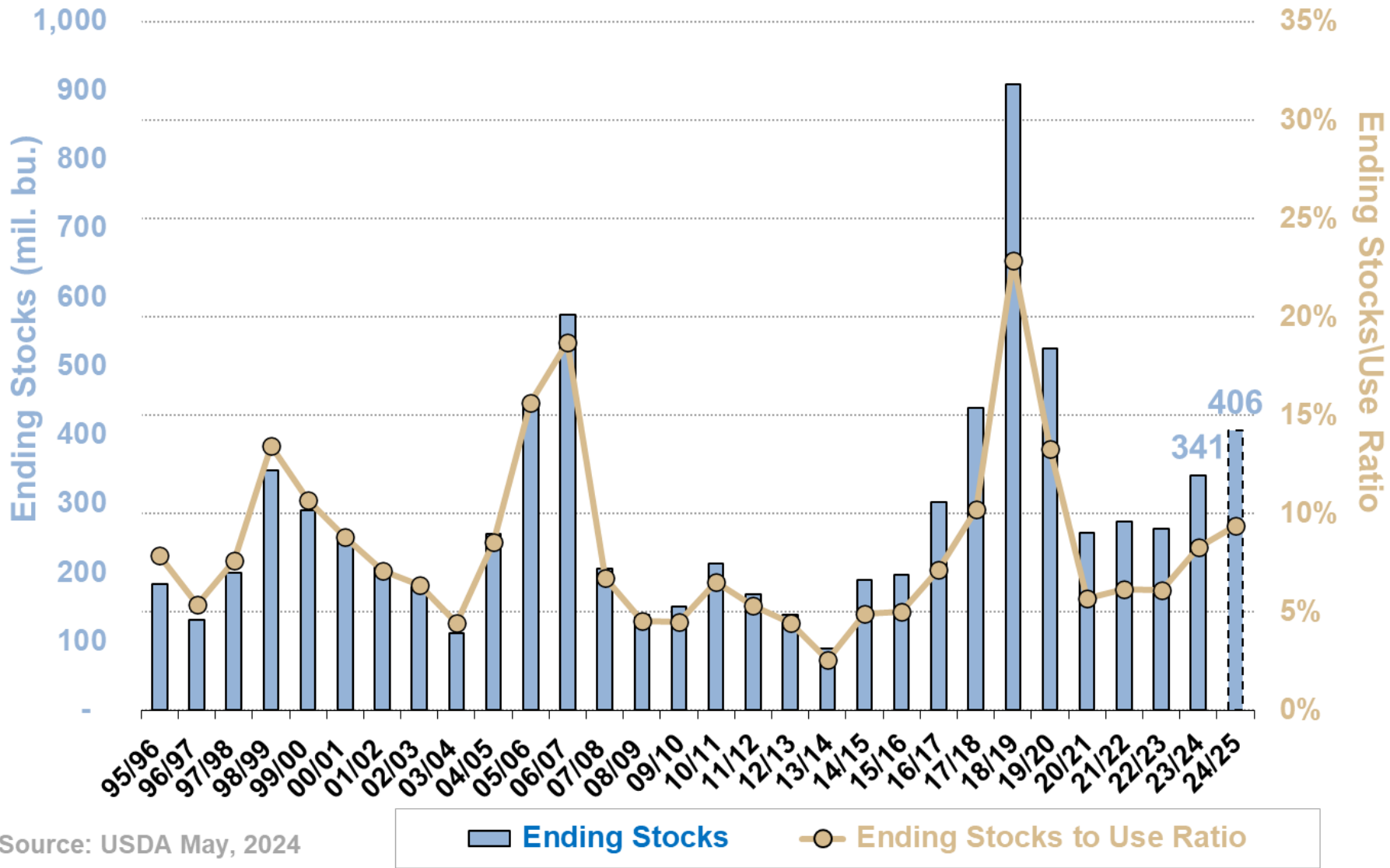


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Soybean Ending Stocks and Stocks/Use Ratio



Source: USDA

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Soybean Exports



Most Recent: 1,825 As Of 07/12/2024

The Hightower Report

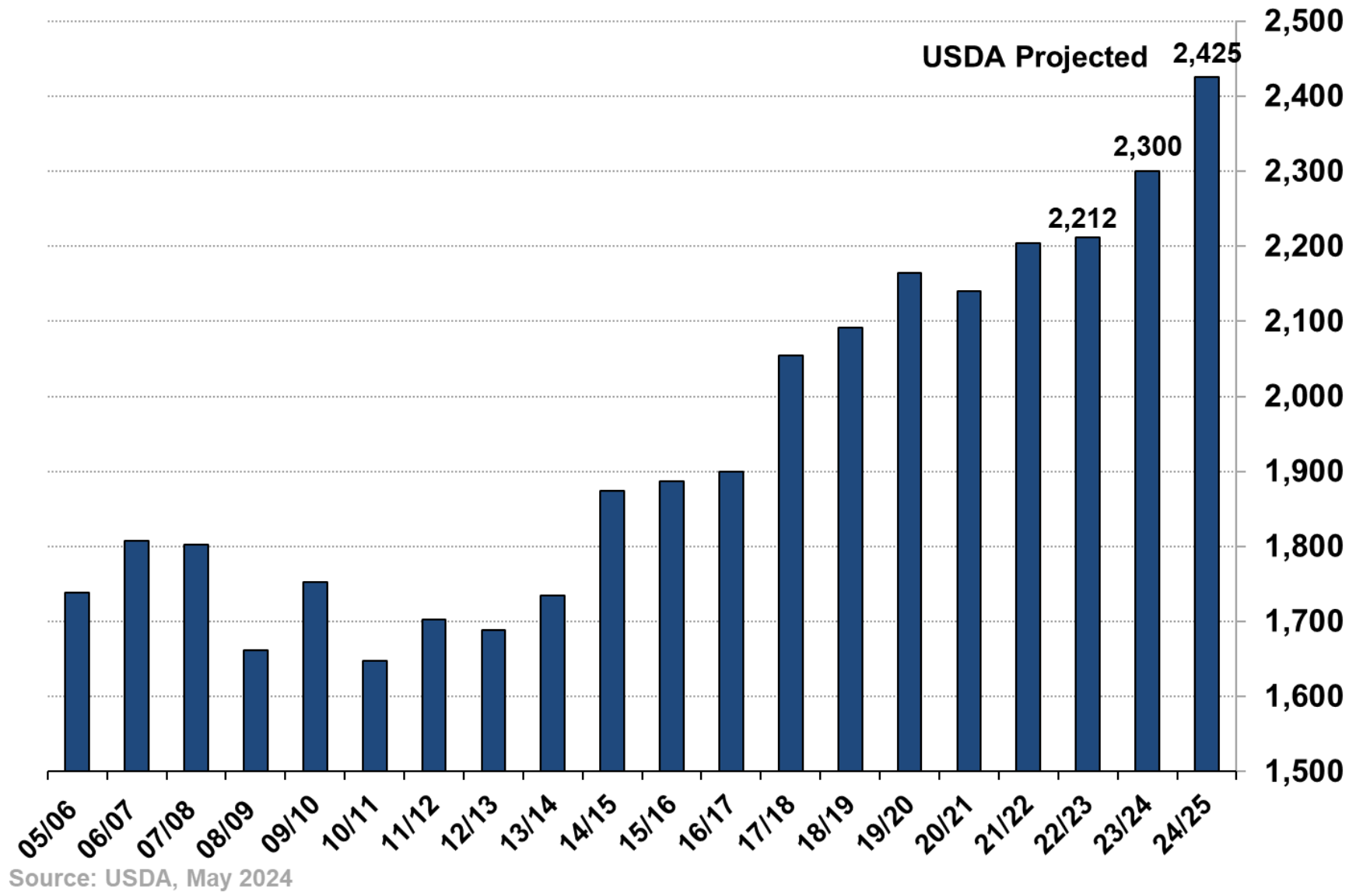


Source: The Hightower Report

[www.Hertz.ag](http://www.Hertz.ag)



# USDA Soybean Crush, million bushels

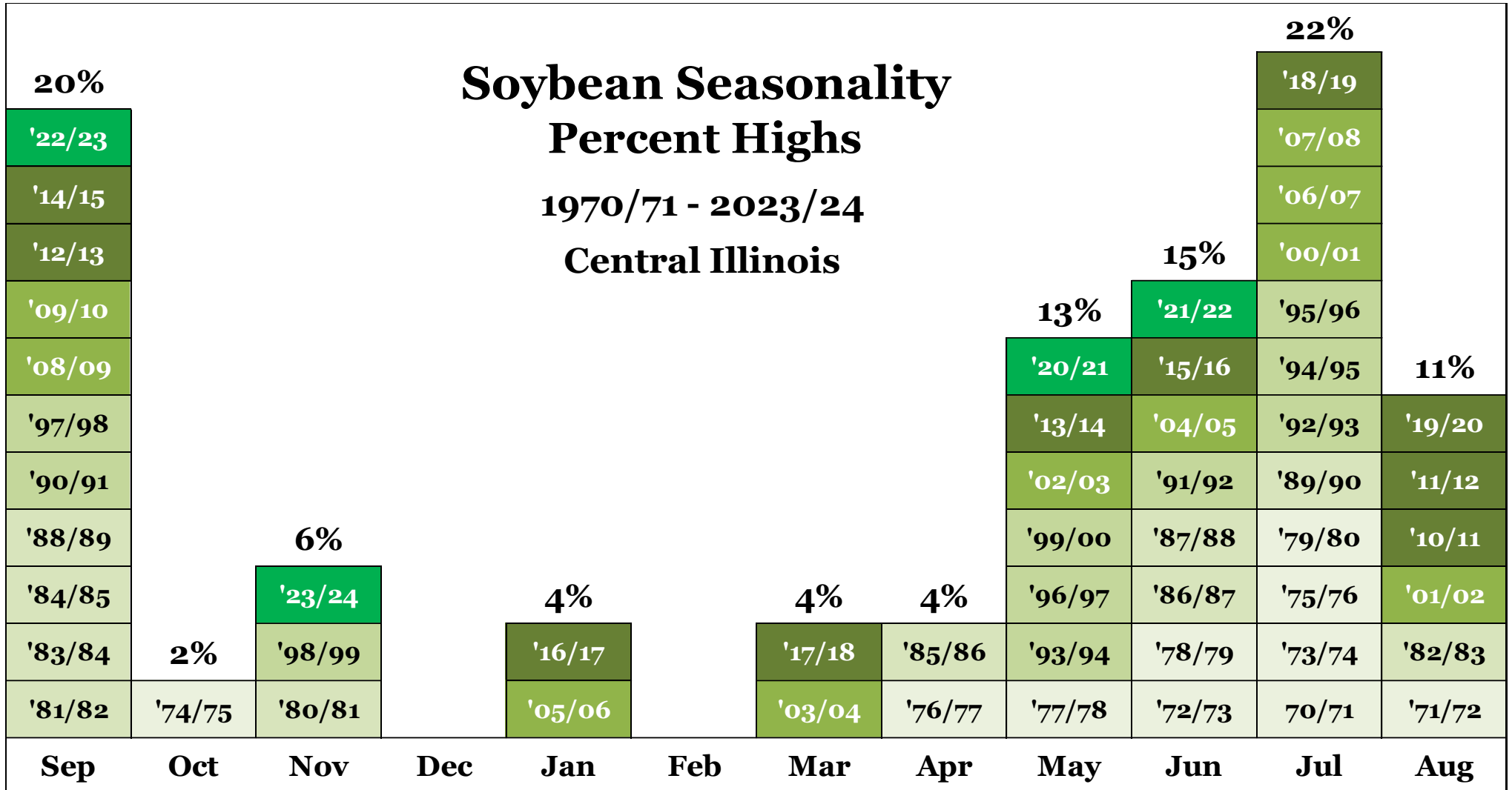


Source: USDA

[www.Hertz.ag](http://www.Hertz.ag)







Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)

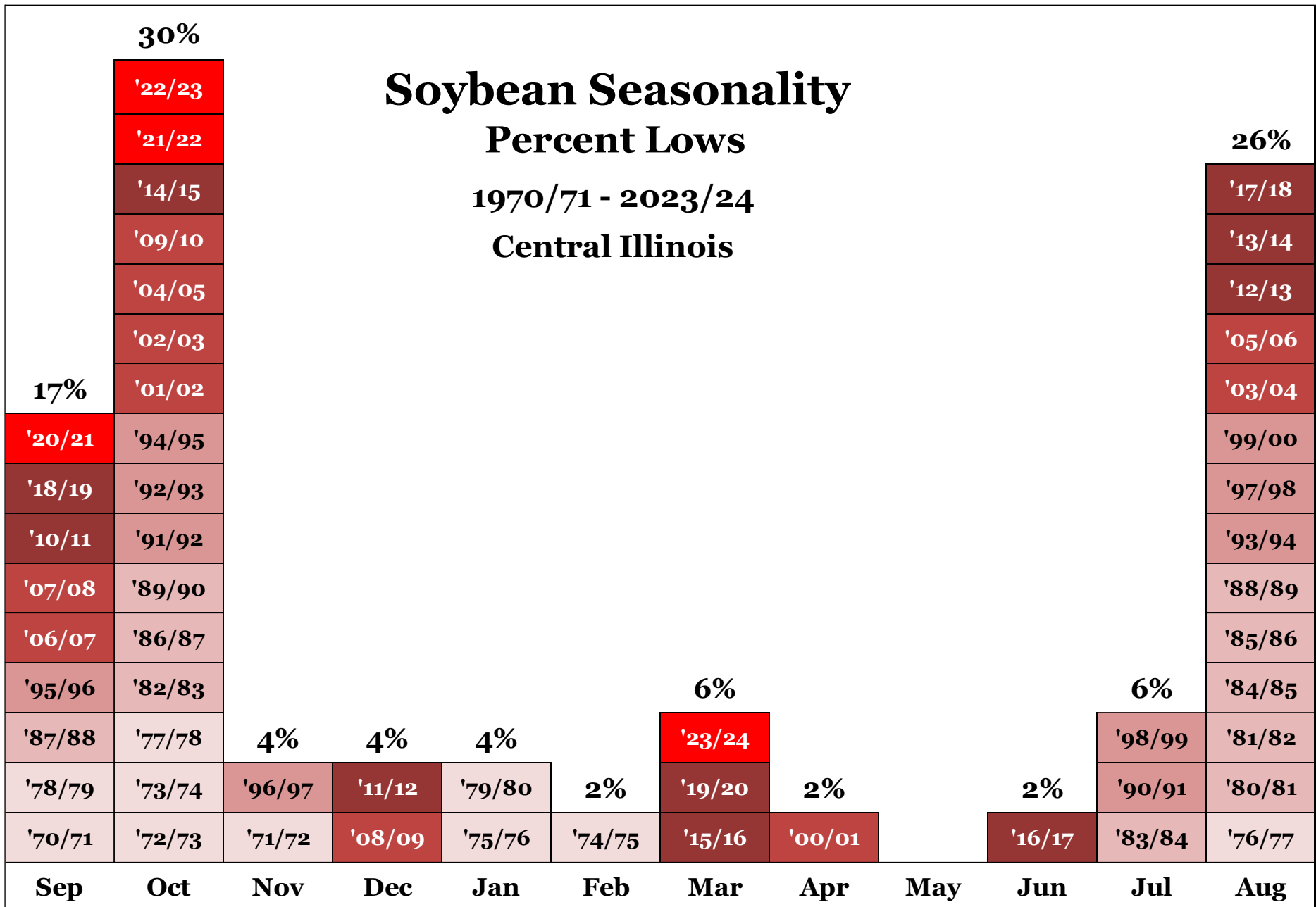


# Soybean Seasonality

## Percent Lows

### 1970/71 - 2023/24

### Central Illinois

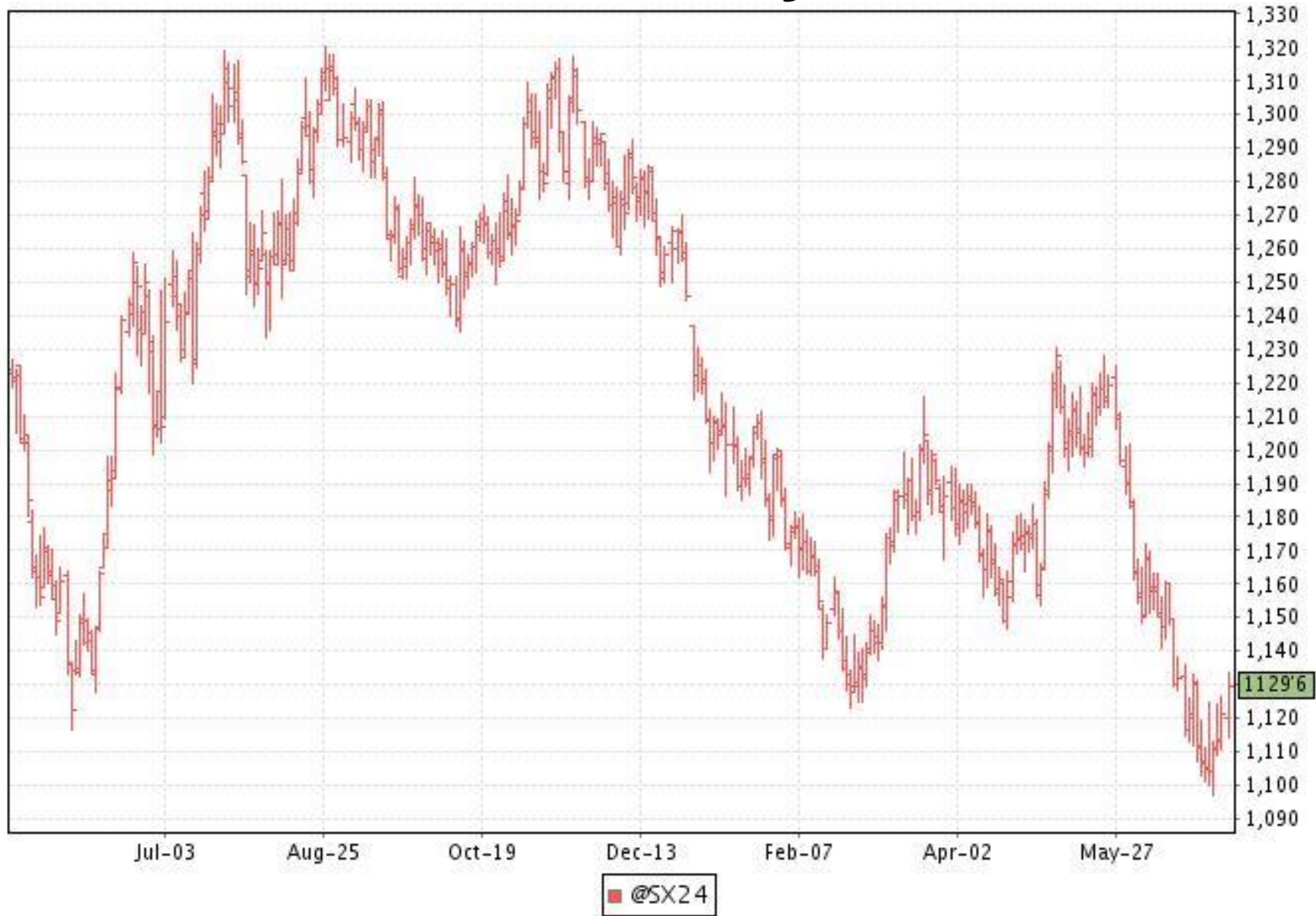


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# December 2024 Soybean Chart

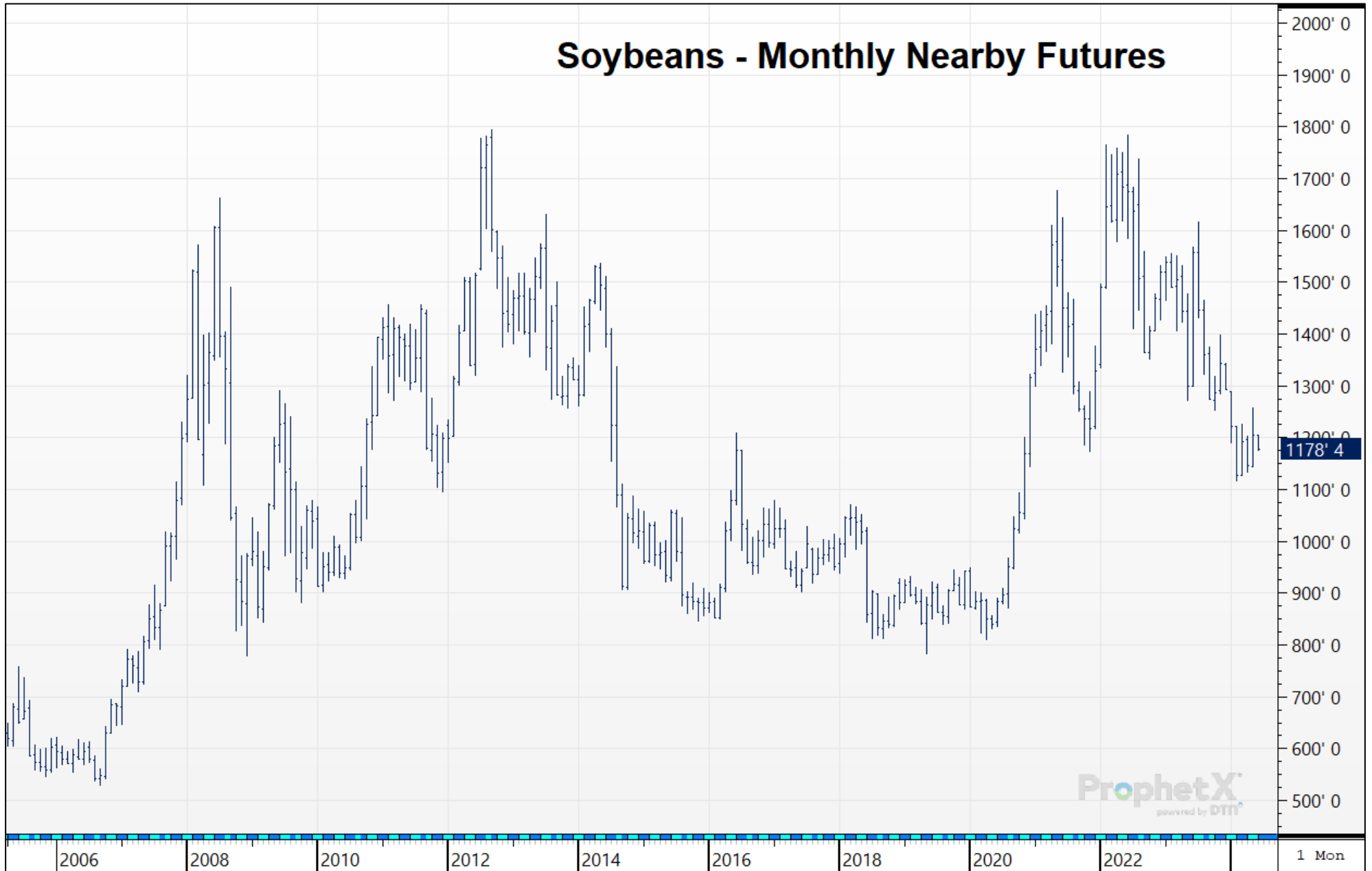


Source: DTN

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# Soybeans - Monthly Nearby Futures



ProphetX<sup>®</sup>  
powered by DTN<sup>®</sup>



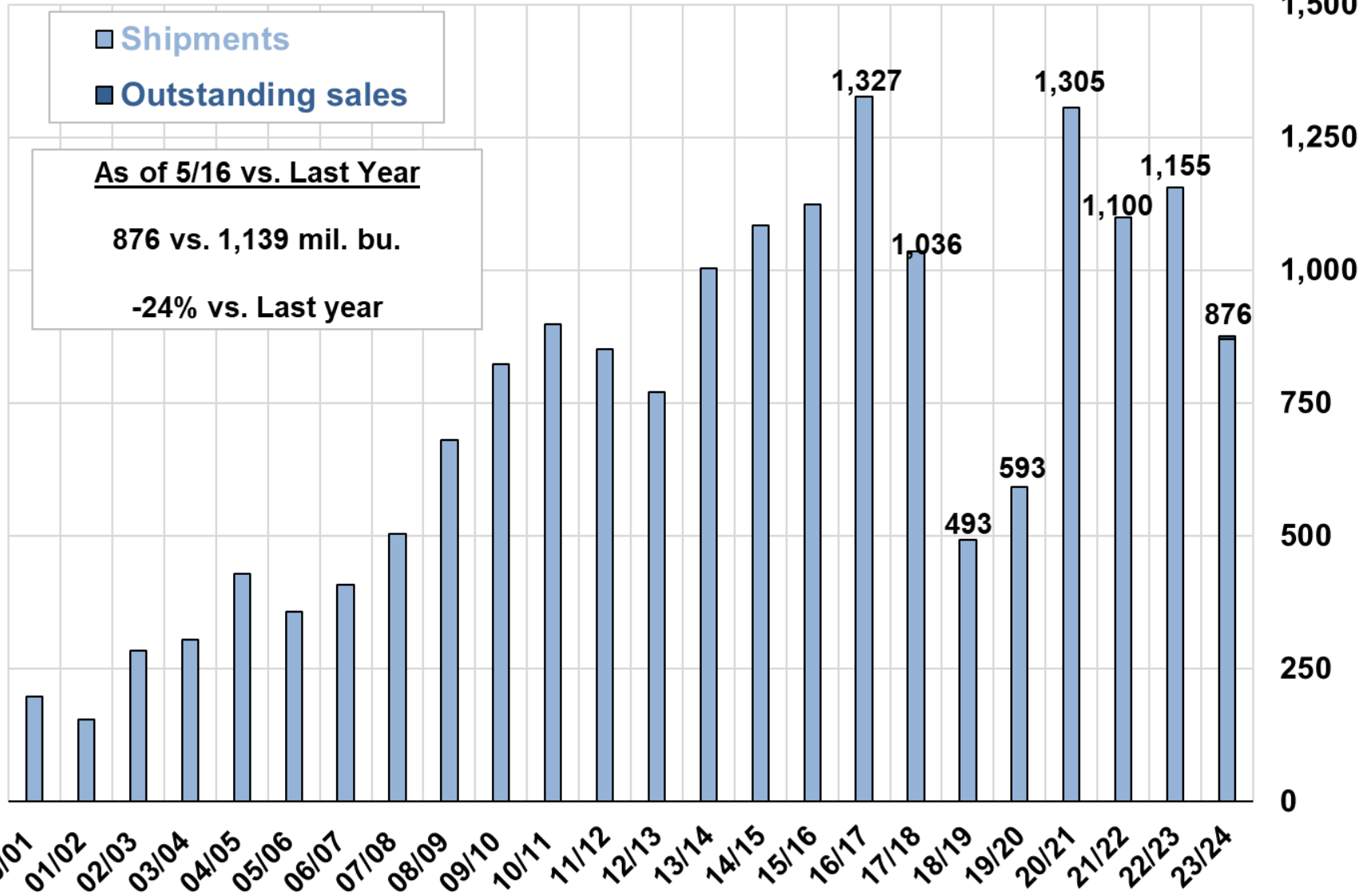
Source: DTN

[www.Hertz.ag](http://www.Hertz.ag)





# U.S. Soybean Export Shipments & Sales to China, million bu.



Source: USDA FAS, to date through May 16, 2024

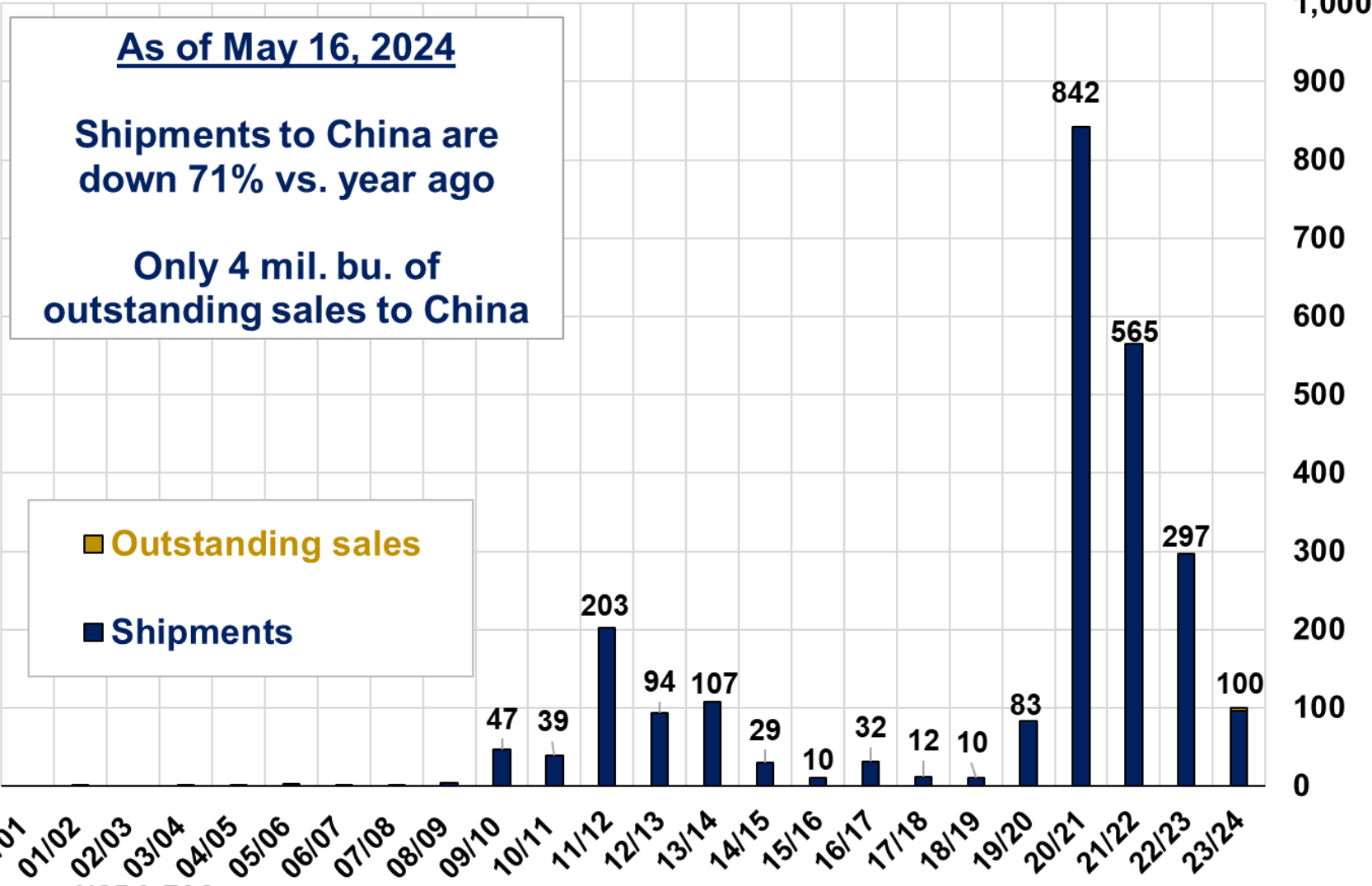


Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# U.S. Corn Exports to China, million bu.



Source: USDA FAS,



Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# B.R.I.C.S. Agreement & Trade

- Stands for Brazil, Russia, India, China, South Africa
- Trying to de-dollarize the global economy to reduce US influence and power on the world
- Members become priority trade partners
  - Could lead to less US exports of grains and other agricultural products
- Saudi Arabia, Iran, Egypt, Ethiopia, and UAE joined in January of 2024
- If successful, could weaken US sanctions
- Chances of long-term success are low
  - USD has universal appeal and liquidity
  - USD is backed by world's largest economy and is already the world's reserve currency





# Outlook



# Key Influences

1. **US & Global Weather**
2. **Election – Tariffs?**
3. **Economic Growth vs Recession – US & China**
4. **Inflation**
5. **Interest Rates**
6. **South American Expansion**
7. **Asset Prices**
  - Equities Due for a Correction
8. **Population Growth**
  - Population of 9 Billion by 2050



Source: Brock Associates

[www.Hertz.ag](http://www.Hertz.ag)



# Questions?





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- Farmland For Sale
- Auctions and Auction Results
- Ag Links
- Request Weekly Farmland Email

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