Updated Supply & Demand for Corn & Soybeans

Implications of USDA Grain Stocks and Acreage Reports

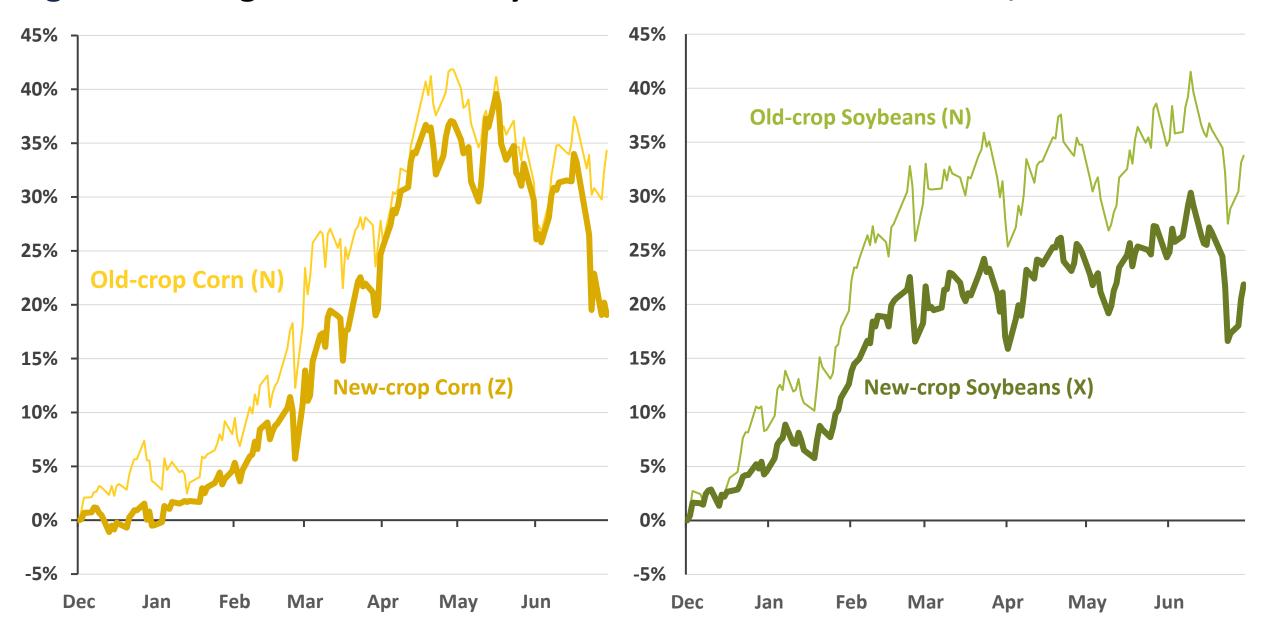


Scott Irwin sirwin@Illinois.edu

farmdoc

Joe Janzen jjanzen@Illinois.edu

Figure 1: Change in Corn and Soybean Futures Prices since Dec 1, 2021



Source: Bloomberg

Figure 2: Corn and Soybean Market Reaction to Report Release, June 30

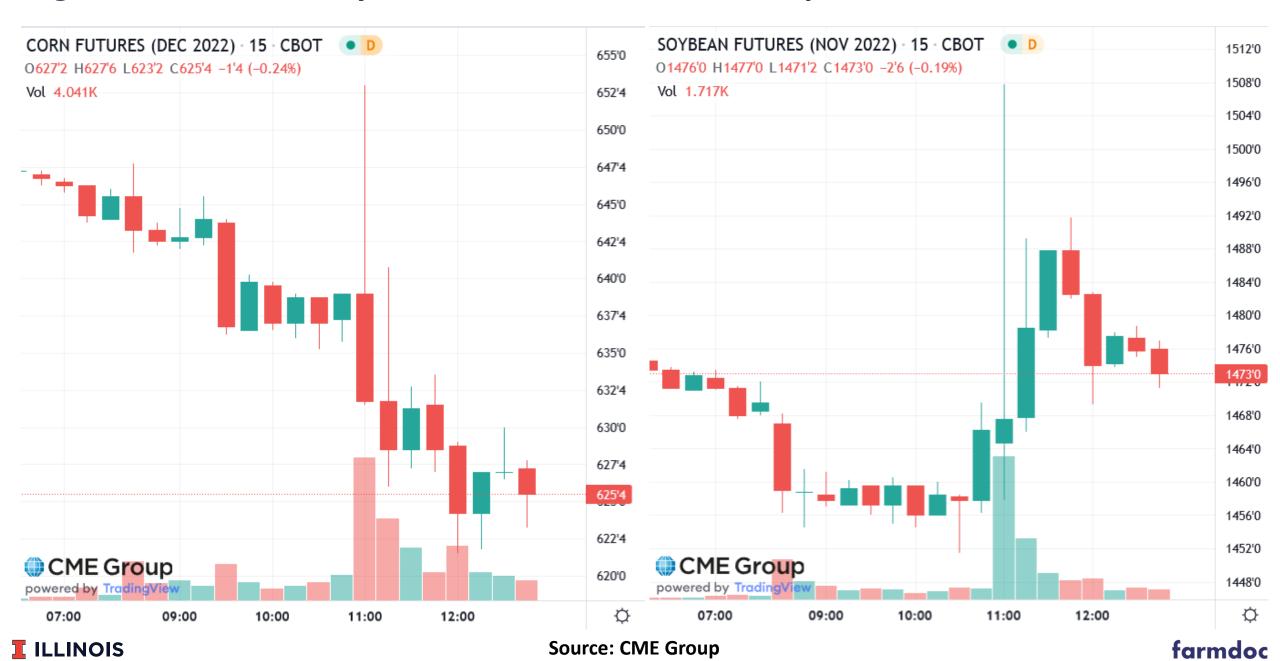
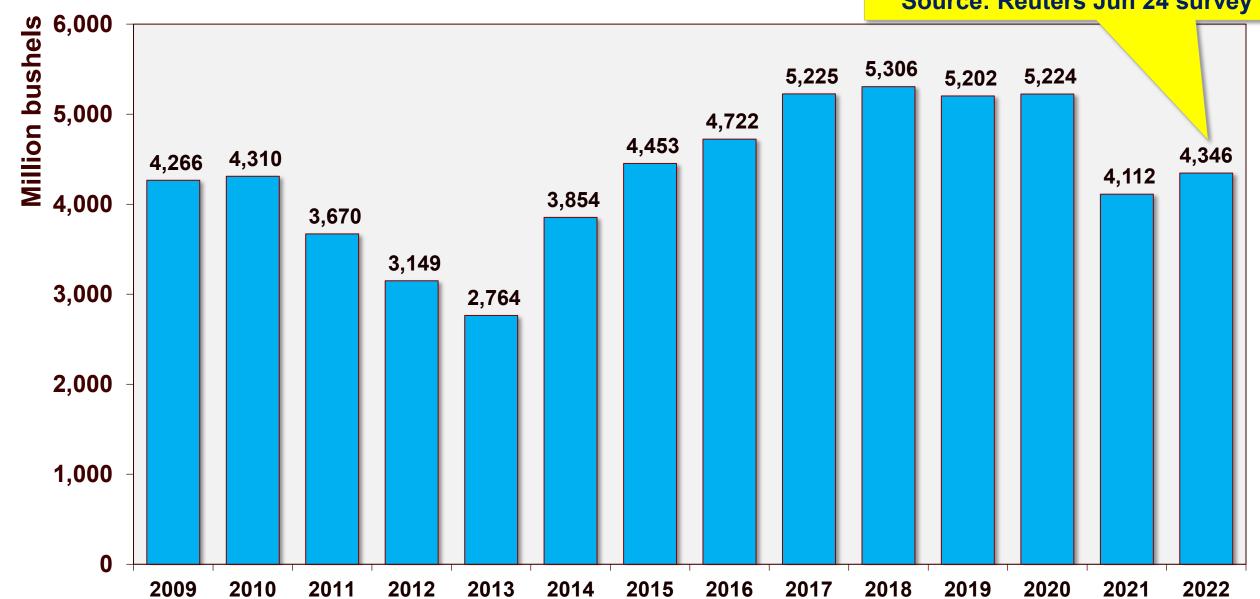


Figure 3: USDA June 1 Corn Stocks Estimate

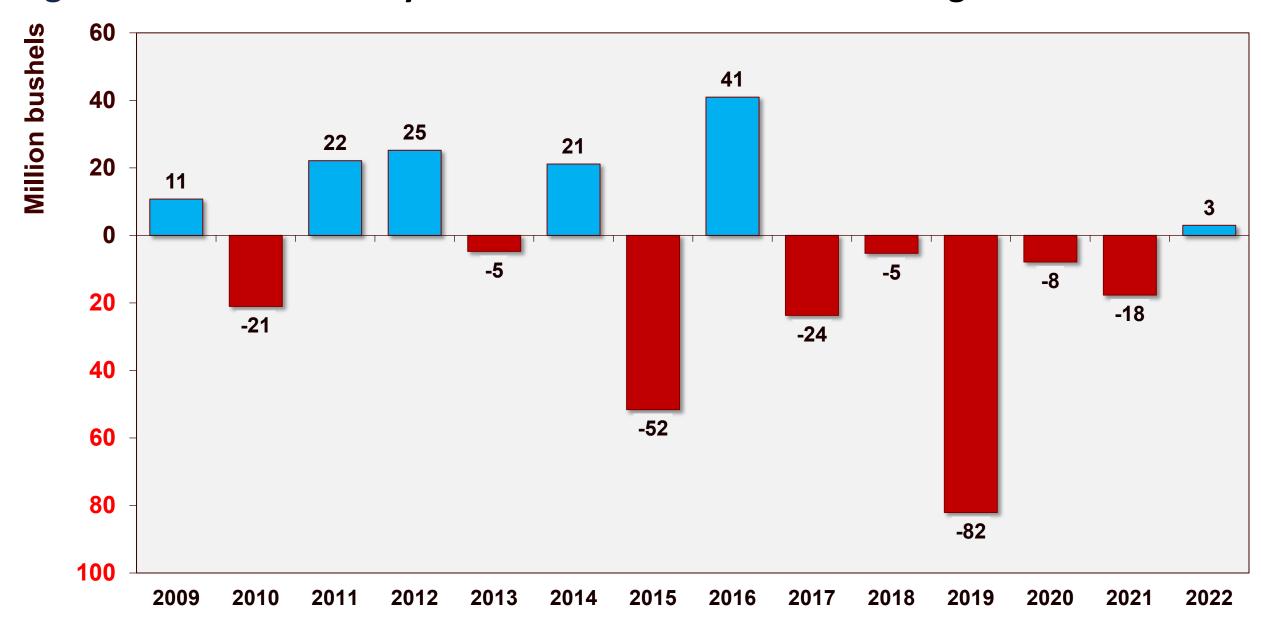
Avg. Analyst Guess = 4,343 mbu Source: Reuters Jun 24 survey



IILLINOIS

Source: USDA NASS

Figure 4: USDA June 1 Soybean Stocks Estimate Minus Average Guess



Source: USDA NASS and Reuters

Figure 5: Old-Crop US Corn Balance Sheet

	(in millions of bushels unless noted)	2020/21	2021/22 USDA Jun WASDE	2021/22 <i>farmdoc</i> forecast
Supply	Area Planted (mil. acres)	90.7	93.4	93.4
	Area Harvested (mil. acres)	82.3	85.4	85.4
	Yield (bu./acre)	171.4	177.0	177.0
	Beginning Stocks	1,919	1,235	1,235
	Production	14,111	15,115	15,115
	Imports	24	25	25
	Total Supply	16,055	16,375	16,375
Use	Feed and Residual	5,602	5,625	5,625
	Food, Seed, and Industrial	6,466	6,815	6,815
	Ethanol	5,208	5,375	5,375
	Exports	2,753	2,450	2,375
	Total Use	14,821	14,890	14,815
	Ending Stocks	1,235	1,485	1,560
	Stocks-to-Use (%)	8.3	10.0	10.5
	Season Average Price (\$/bu.)	\$4.53	\$5.95	\$5.95

Figure 6: Corn Export Sales by Week of Marketing Year to June 16, 2022

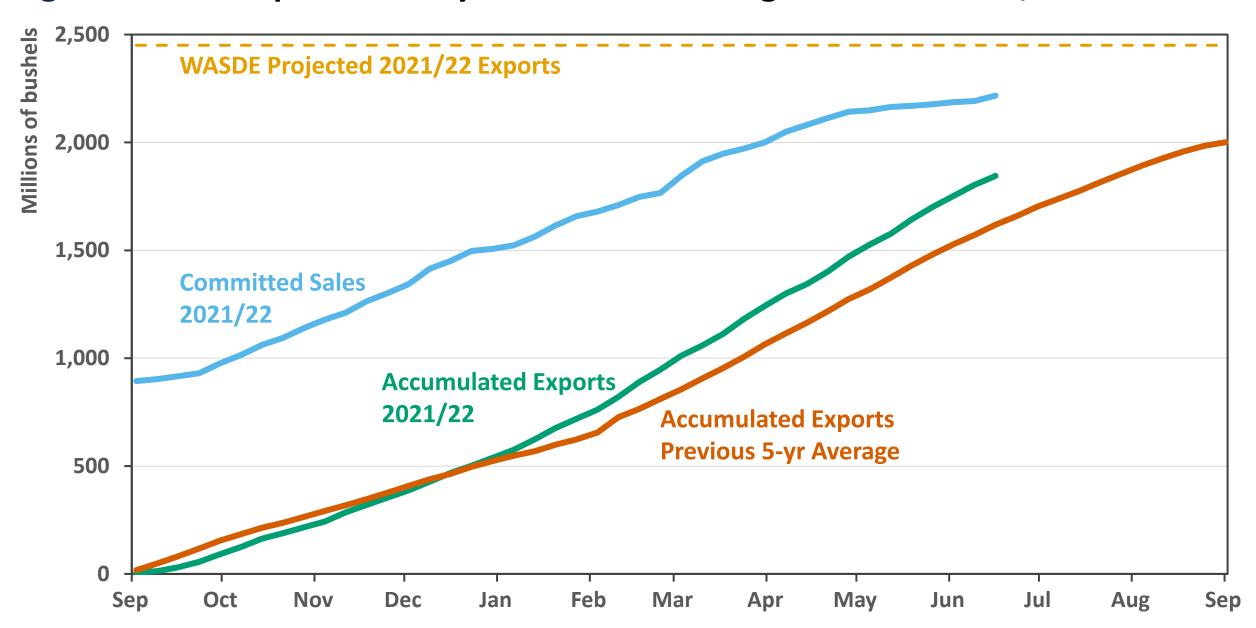


Figure 7: USDA June 1 Soybean Stocks Estimate

Avg. Analyst Guess = 965 mbu Source: Reuters Jun 24 survey

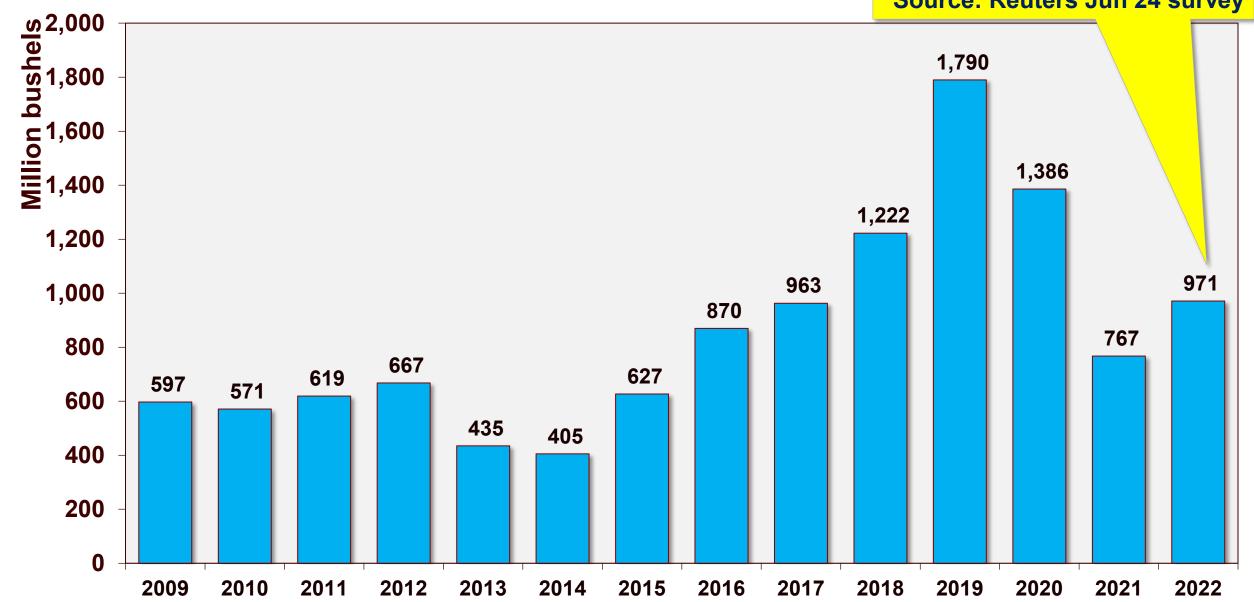
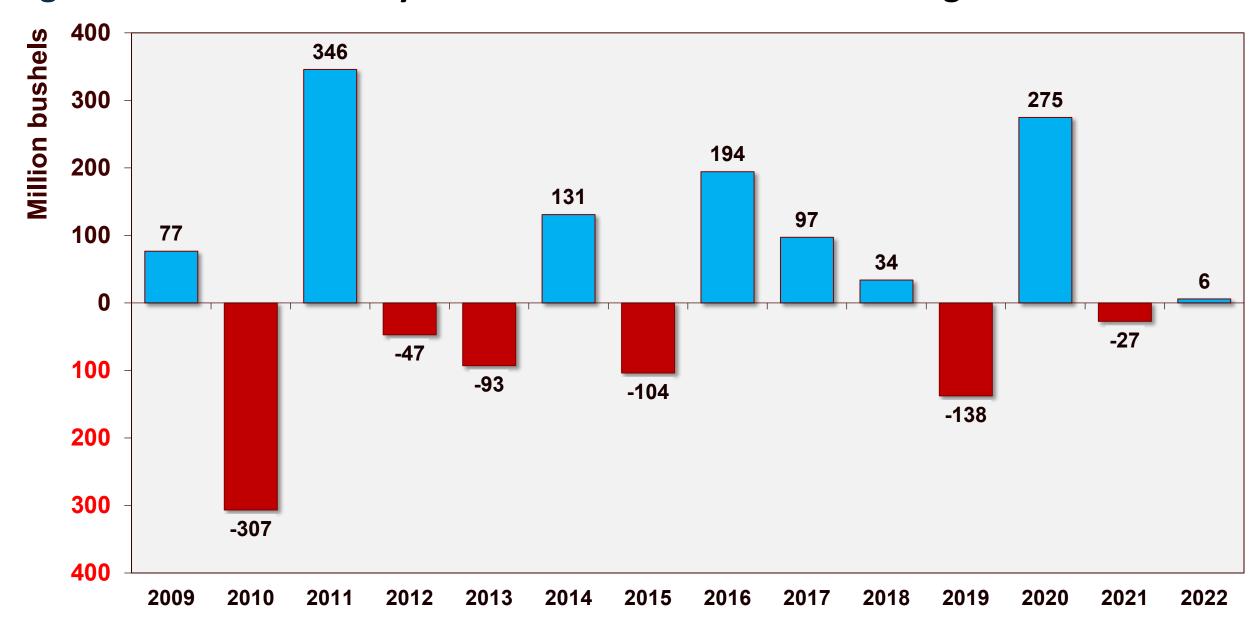


Figure 8: USDA June 1 Soybean Stocks Estimate Minus Average Guess



Source: USDA NASS and Reuters

Figure 9: Old-Crop US Soybean Balance Sheet

	(in millions of bushels unless noted)	2020/21	2021/22 USDA June WASDE	2021/22 <i>farmdoc</i> forecast
Supply	Area Planted (mil. acres)	83.4	87.2	87.2
	Area Harvested (mil. acres)	82.6	86.3	86.3
	Yield (bu./acre)	51.0	51.4	51.4
	Beginning Stocks	525	257	257
	Production	4,216	4,435	4,435
	Imports	20	15	15
	Total Supply	4,761	4,707	4,707
Use	Crushings	2,141	2,215	2,215
	Exports	2,261	2,170	2,170
	Seed	101	106	106
	Residual	1	12	12
	Total Use	4,504	4,502	4,502
	Ending Stocks	257	205	205
	Stocks-to-Use (%)	5.7	4.6	4.6
	Season Average Price (\$/bu.)	\$10.80	\$13.35	\$13.35

Figure 10: Soybean Export Sales by Week of Marketing Year to June 16, 2022

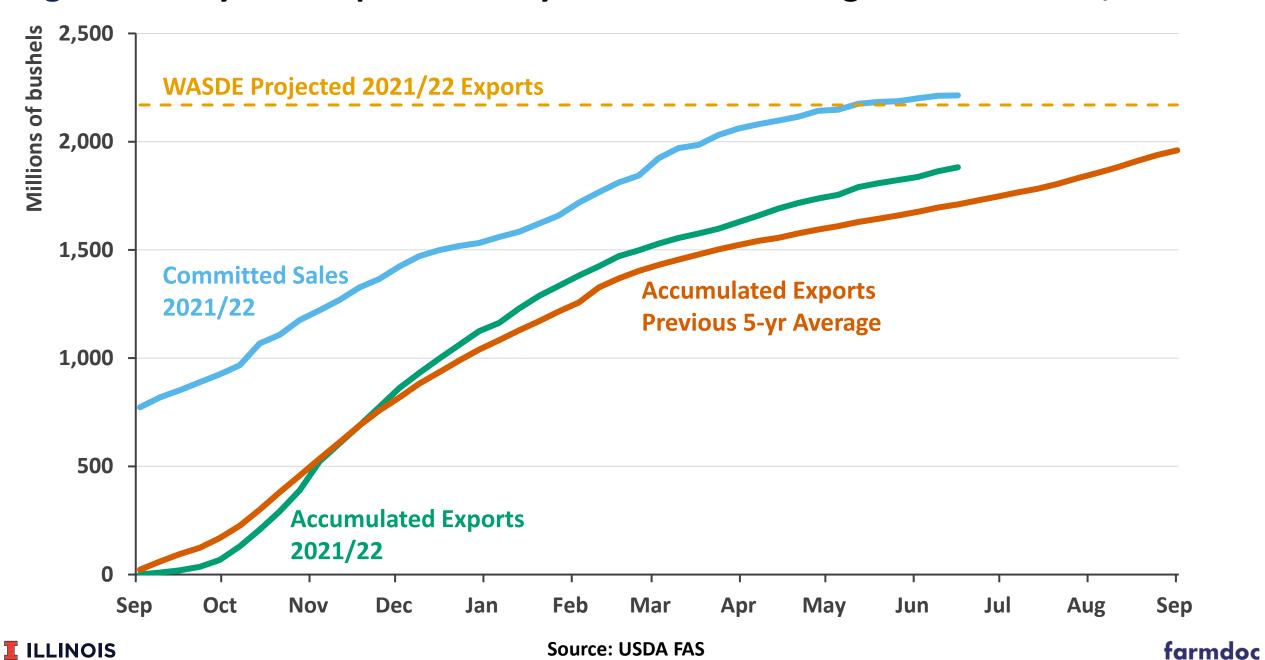


Figure 11: Acreage Summary for Principal Crops, CRP, and PP

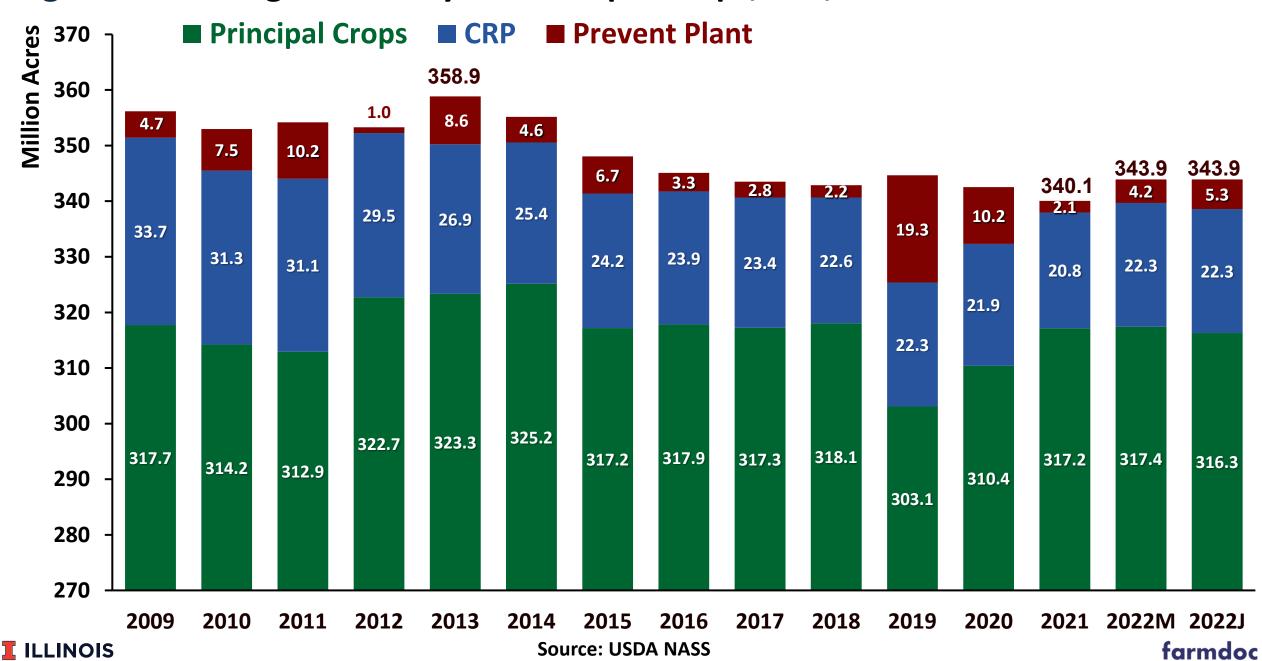


Figure 12: US Principal Crop Acres (000s Ac) and % Change from March Estimate

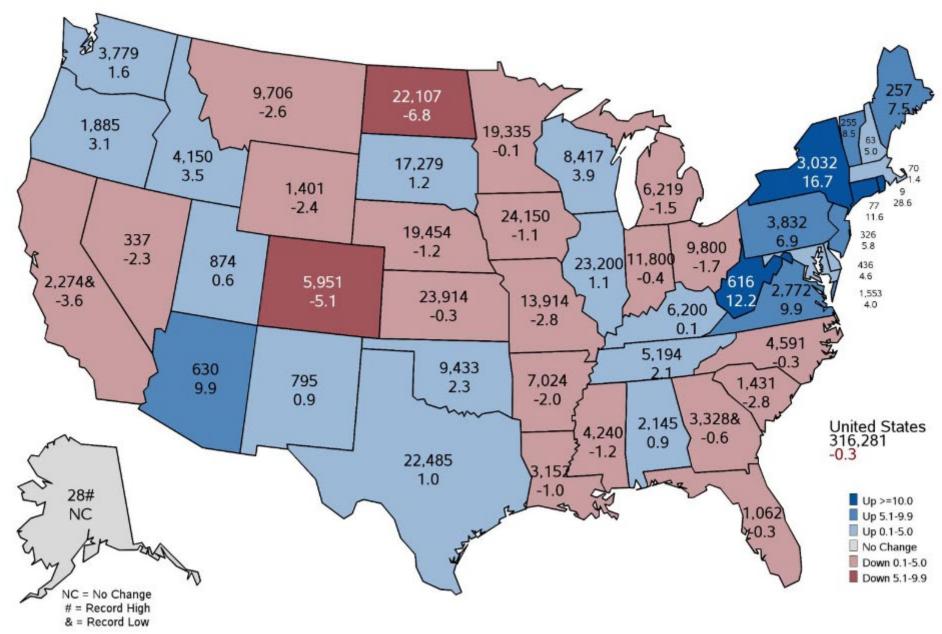




Figure 12: US Planted and Harvested Acres for Corn

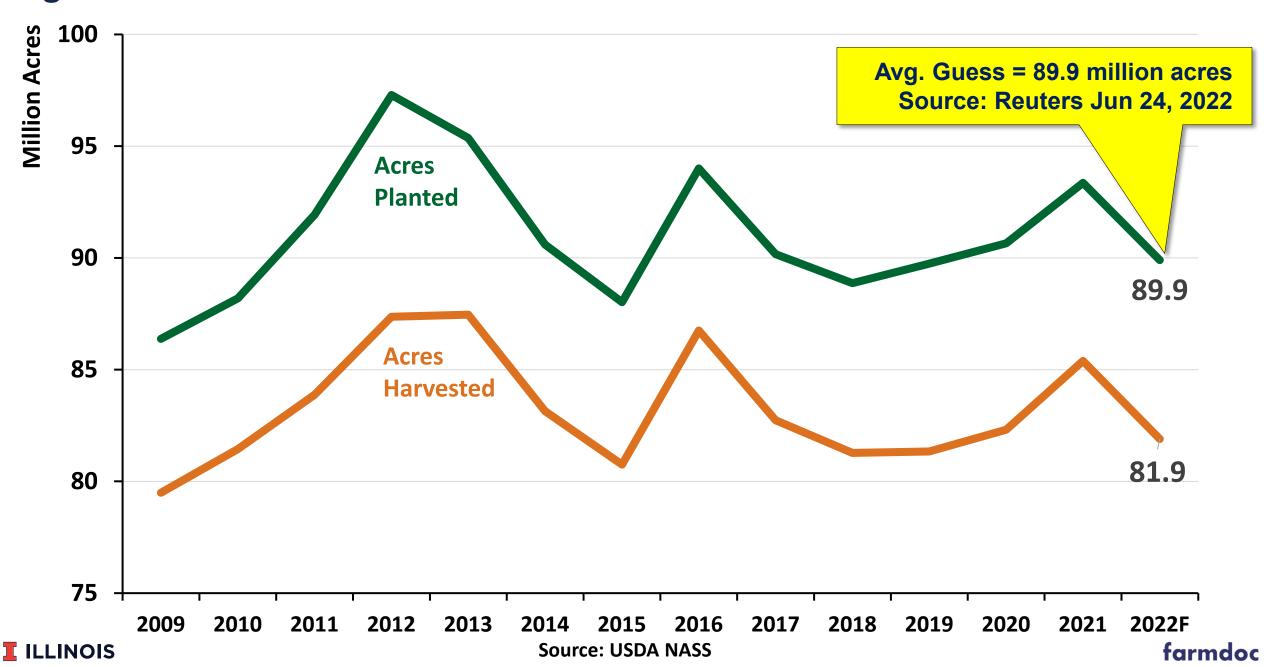


Figure 13: 2022 Corn Planted Acres (000s Ac) and % Change from March Estimate

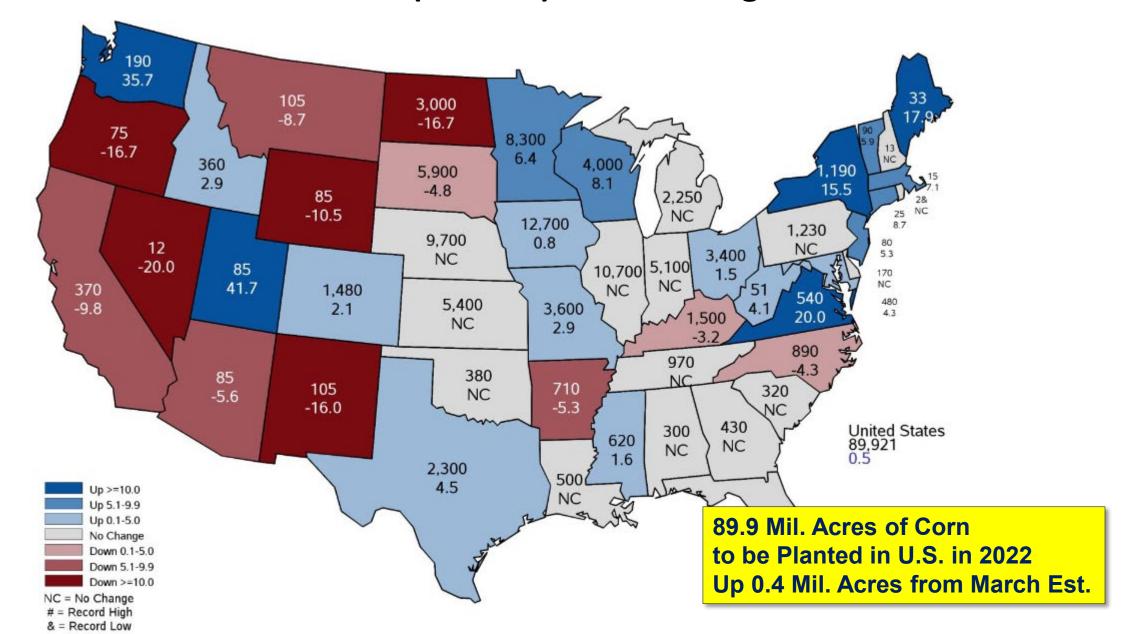




Figure 14: US Planted and Harvested Acres for Soybeans

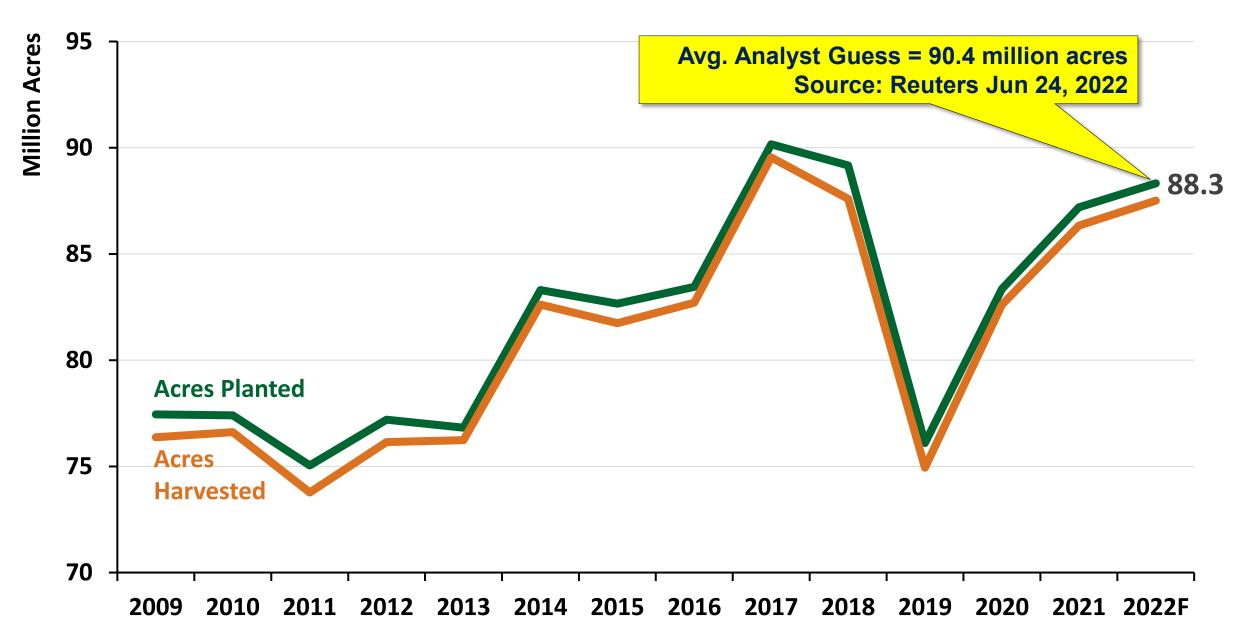


Figure 15: 2022 Soybean Planted Acres (000s Ac) and % Change from March Est.

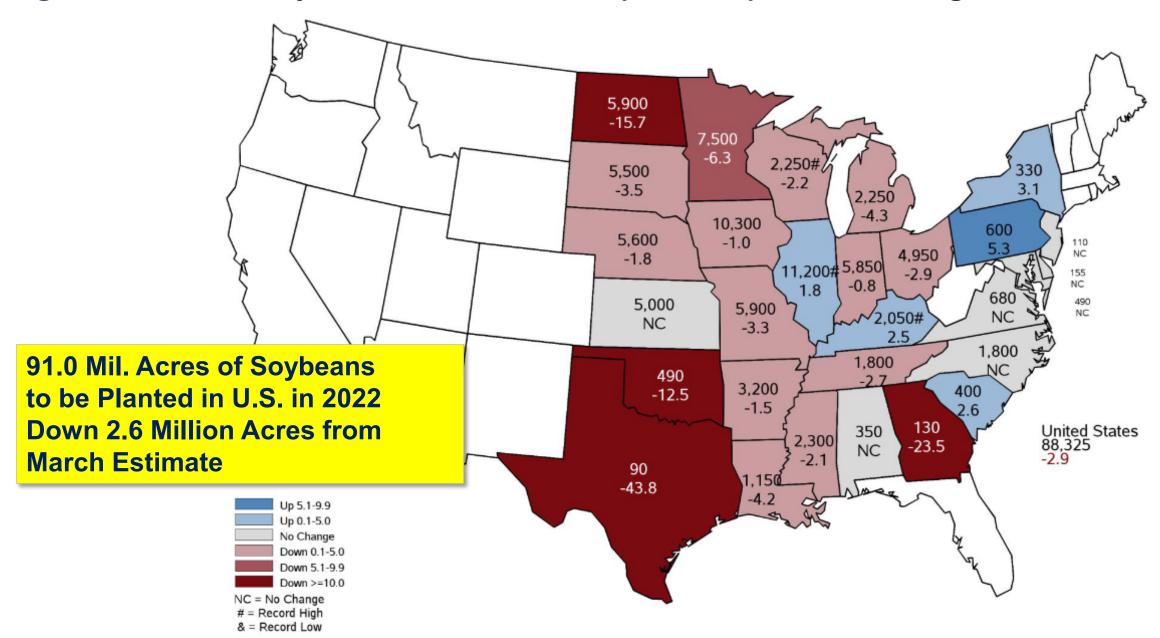




Figure 16: US New-Crop Corn Balance Sheet

	(mil. bushels unless noted)	2020/21	2021/22 USDA June WASDE	2022/23 USDA June WASDE	2022/23 <i>farmdoc</i> Forecast
Supply	Area Planted (mil. acres)	90.7	93.4	89.5	89.9
	Area Harvested (mil. acres)	82.3	85.4	81.7	81.9
	Yield (bu./acre)	171.4	177.0	177	176.0
	Beginning Stocks	1,919	1,235	1,485	1,560
	Production	14,111	15,115	14,460	14,414
	Imports	24	25	25	25
	Total Supply	16,055	16,375	15,970	15,999
Use	Feed and Residual	5,602	5,625	5,350	5,350
	Food, Seed, and Industrial	6,466	6,815	6,820	6,720
	Ethanol	5,208	5,375	5,375	5,275
	Exports	2,753	2,450	2,400	2,300
	Total Use	14,821	14,890	14,570	14,370
	Ending Stocks	1,235	1,485	1,400	1,629
	Stocks-to-Use (%)	8.3	10.0	9.6	11.3
	Season Average Price (\$/bu.)	\$4.53	\$5.95	\$6.75	\$6.25

Figure 2: Previous 30-day Precipitation, % of Normal as of June 30, 2022

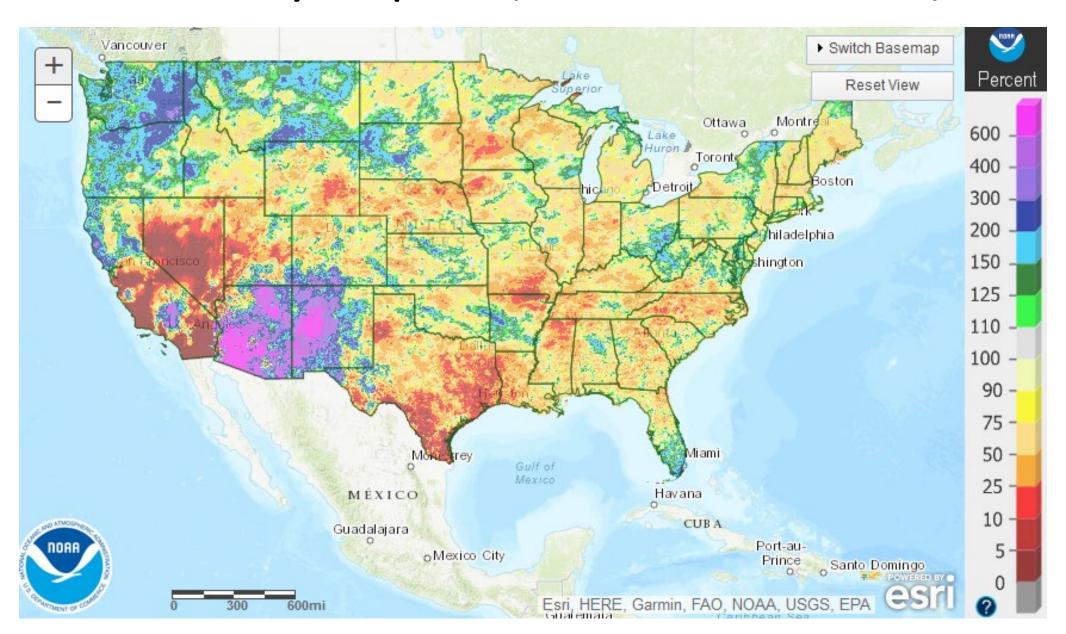




Figure 18: Weekly Sum of Good and Excellent Corn Condition Ratings for 18 Major Producing States in the U.S.

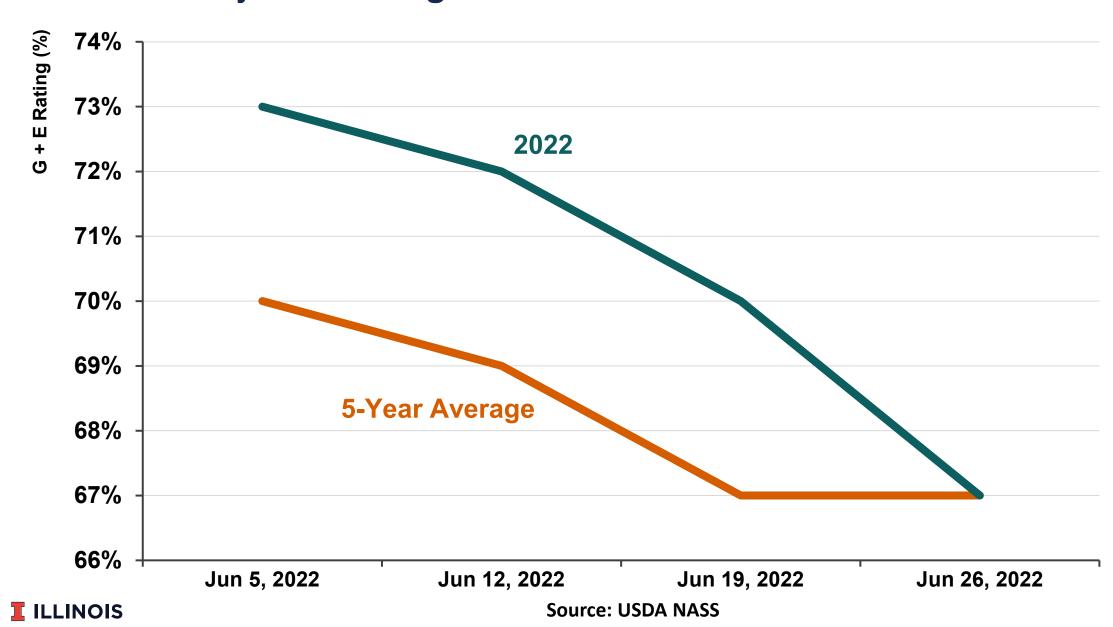


Figure 2: US 7-day Precipitation Forecast in inches, June 30-Jul 7, 2022

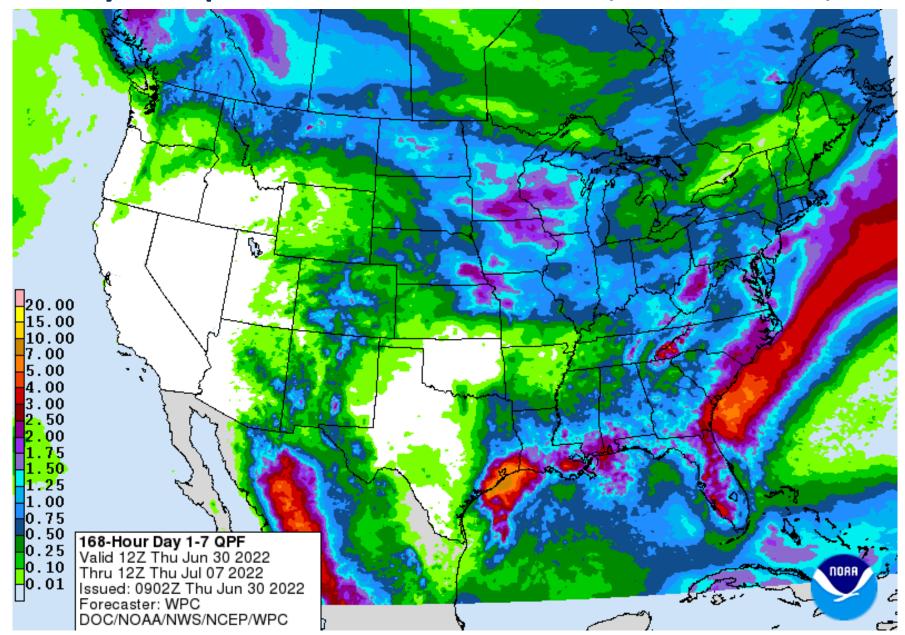




Figure 18: Weekly Retail Gasoline Price in the U.S., All Grades Jan 4, 2021 – Jun 13, 2022

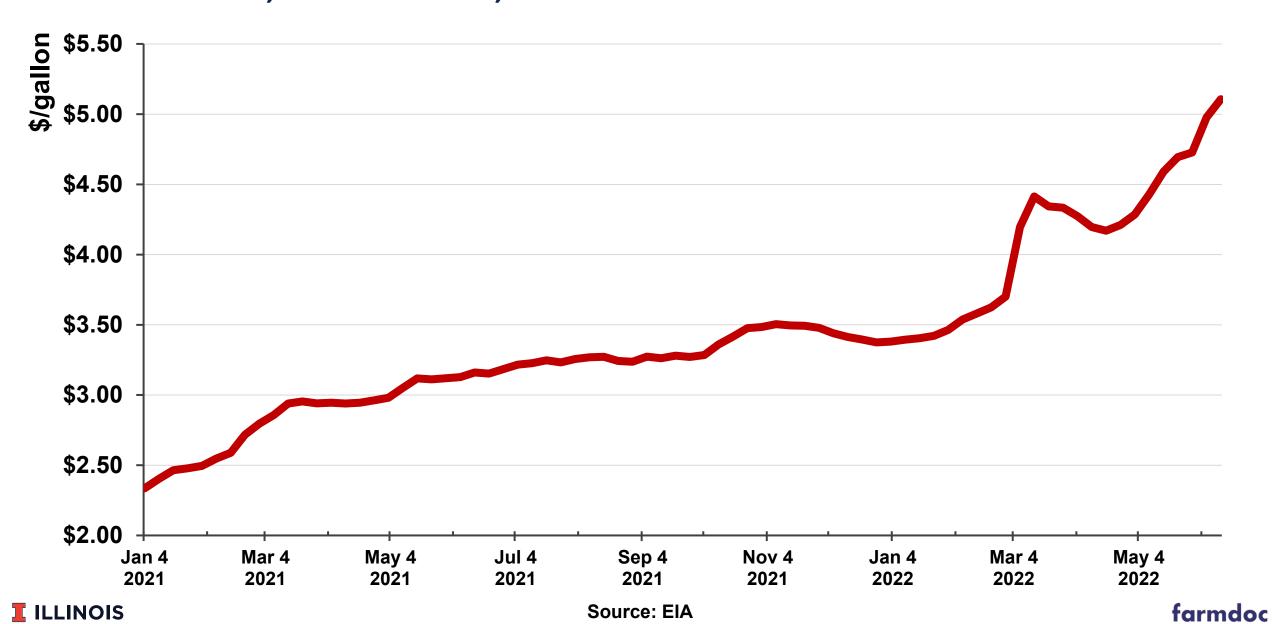


Figure 19: US New-Crop Soybean Balance Sheet

	(mil. bushels unless noted)	2020/21	2021/22 USDA June WASDE	2022/23 USDA June WASDE	2022/23 <i>farmdoc</i> Forecast
Supply	Area Planted (mil. acres)	83.4	87.2	91.0	88.3
	Area Harvested (mil. acres)	82.6	86.3	90.1	87.5
	Yield (bu./acre)	51.0	51.4	51.5	51.00
	Beginning Stocks	525	257	205	205
	Production	4,216	4,435	4,640	4,463
	Imports	20	15	15	15
	Total Supply	4,761	4,707	4,860	4,683
Use	Crushings	2,141	2,215	2,255	2,235
	Exports	2,261	2,170	2,200	2,125
	Seed	101	106	102	102
	Residual	1	12	23	23
	Total Use	4,504	4,502	4,580	4,485
	Ending Stocks	257	205	280	198
	Stocks-to-Use (%)	5.7	4.6	6.1	4.4
	Season Average Price (\$/bu.)	\$10.80	\$13.35	\$14.70	\$14.70

Figure 18: Weekly Sum of Good and Excellent Soybean Condition Ratings for Major Producing States in the U.S.

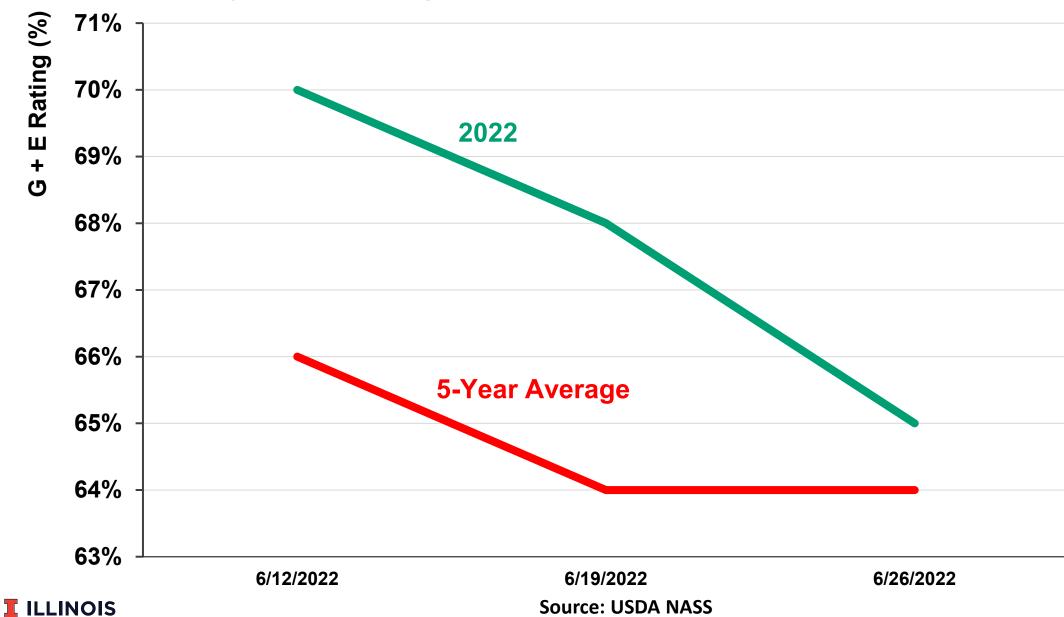
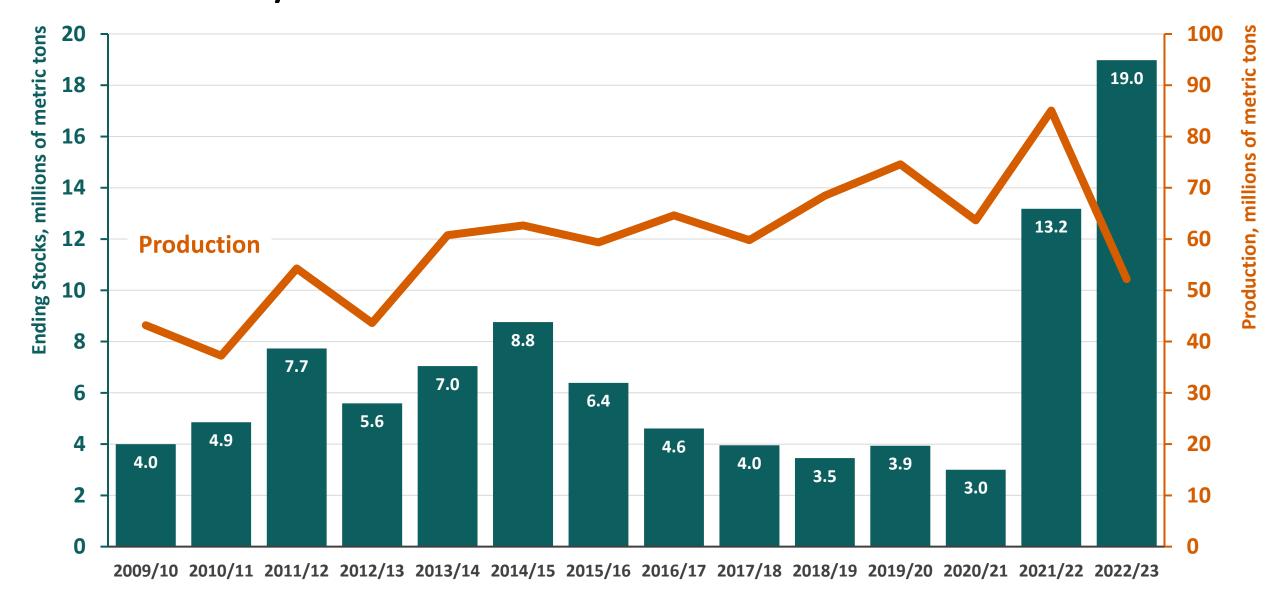


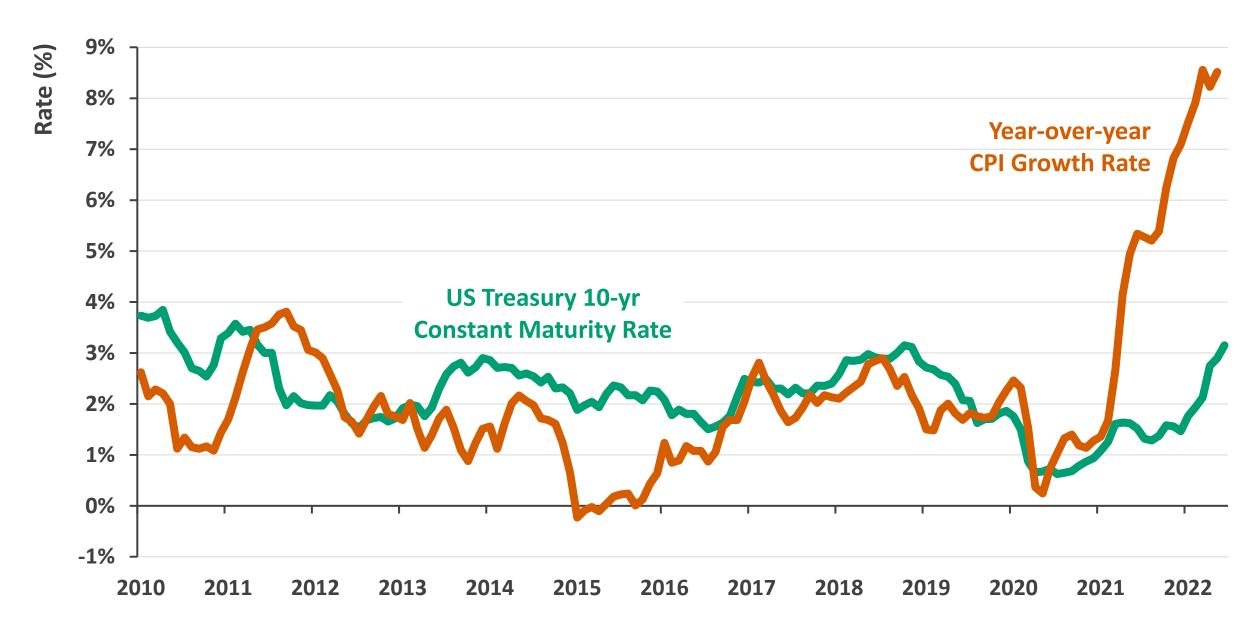
Figure 20: Ukraine Cereals Ending Stocks (left) and Production (right) 2010-11 to 2022/23





Source: USDA FAS. Note: Cereals include corn, wheat, and barley.

Figure 21: Monthly interest and inflation rates, January 2010 to June 2022



Source: Federal Reserve Bank of St. Louis

Closing Comments

- Grain Stocks Report showed:
 - June 1 stocks in line with trade expectations
 - Forecast of feed and residual use of corn unchanged
- Acreage Report showed:
 - 2.6 million less soybean acres than March estimate
 - 0.4 million more corn acres than March estimate
 - Decline in corn/soy acres in Northern Great Plains, likely some prevent plant
- Balance sheet implications:
 - Continuation of tight grain and oilseed supply and demand balances
 - Much higher than average historical prices
 - Expect high price volatility, especially related to weather news in corn



Agricultural & Consumer Economics College of Agricultural, Consumer & Environmental Sciences



Extension

COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES



TIAA Center for Farmland Research

















Latest Article

Effective Reference Price – Past and Future

Carl Zulauf, Gary Schnitkey, Krista Swanson, Nick Paulson, an

The Agriculture Improvement Act of 2018 initiated an escalator clause for the farm safety net's reference price. We evaluate how this escalator would have influenced payments by the Price Loss Coverage (PLC) program from 2014 forward, the first crop year...

Read the Articl



 ✓ See the Latest News on Social Media

Recent Articles

Are Illinois Agricultural Retailers Increasing their Margins for Anhydrous Ammonia Over Time?

June 28, 2022

Sarah Sellars, Gary Schnitkey, Nick Paulson, Krista Swanson, Carl Zulauf, and Jim Baltz Periods of high nitrogen fertilizer prices bring scrutiny to firms who make nitrogen fertilizer and retailers who sell nitrogen fertilizer. There are four major nitrogen fertilizer companies in North America (see

What Do We Know About Revisions to USDA Planted Acreage Estimates?

June 27, 2022

Scott Irwin
The USDA released the 2022 Prospective
Plantings report on March 31st. The report
indicated that U.S. farmers this year
intended to plant 89.5 million acres of corn,
91.0 million acres of soybeans, and 317.4

million acres for all principal crops. ...

Public Perception of USDA Spending: Gardner Survey Results, Part 4

June 24, 2022

Maria Kalaitzandonakes, Brenna Ellison, and Jonathan Coppess

The US Department of Agriculture funds a wide range of programs in the food and agricultural system – from food assistance to crop insurance. Most of USDA's programmatic budget (80%) is mandatory, required in statutory provisions

Thank You for joining us! Please submit your questions

Visit us at

farmdocDAILY .Illinois.edu



☑ Subscribe for Latest News Updates

ILLINOIS

Agricultural & Consumer Economics

COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES



For the webinar archives and 5-minute farmdoc Subscribe to our channel YouTube.com/farmdocVideo

