

2021/22 Market Outlook for Corn and Soybeans



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What do you expect the US average farm price of corn to be for 2021/22

- Below \$4.50 per bushel
- Between \$4.50 and \$5.00 per bushel
- Between \$5.00 and \$5.50 per bushel
- Over \$5.50 per bushel

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December 2021 Corn Futures Prices

June 1, 2020 - September 13, 2021



December 2021 Soybeans Futures Prices

June 1, 2020 - September 13, 2021



USDA September Crop Production Report

Operator Reported Survey	Ag Yield	Sample Size = 8,008	August 30 - September 7
Field Survey	Objective Yield Corn, Cotton, Soybeans	Sample Size = 3,930	August 25 - September 1
Remotely Sensed (Satellite)	Time Series 250 Meter MODIS Satellite Data	Focus Area Corn Belt	Imagery Through August 28
FSA Certified Acres	Farm Service Agency policy requires that producers participating in several programs submit an annual report regarding all cropland use on their farms.		

United States Department of Agriculture
National Agricultural Statistics Service

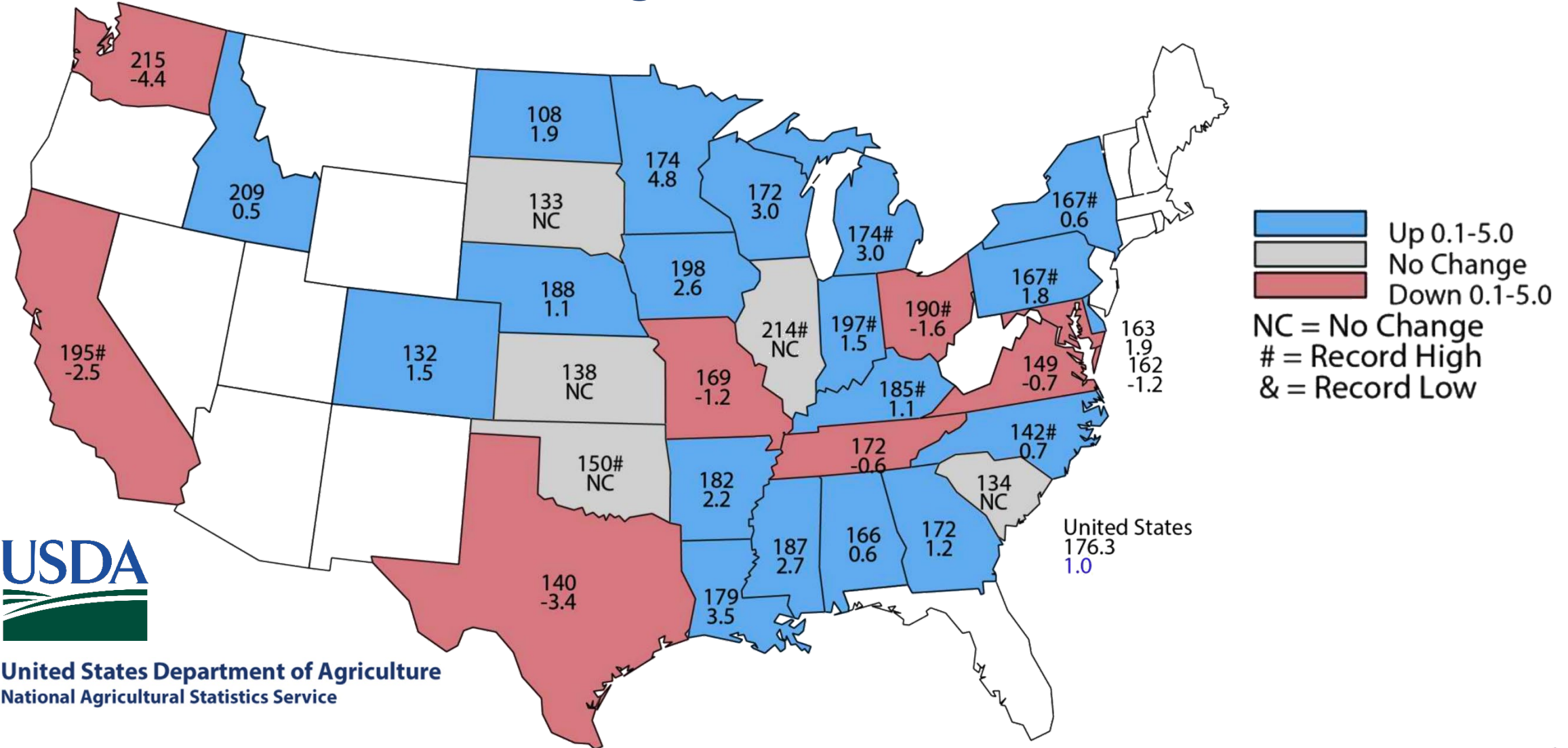
September 10, 2021

Recap of USDA September Crop Production Report

	Corn		Soybeans	
	Sep 2021	Change	Sep 2021	Change
Planted Acreage million acres	93.3	+0.5	87.2	-0.4
Harvested Acreage million acres	85.1	+0.6	86.4	-0.3
Yield bushels/acre	176.3	+1.7	50.6	+0.6
Production million bushels	14,996	+246	4,374	+35

September 2021 Corn Yield

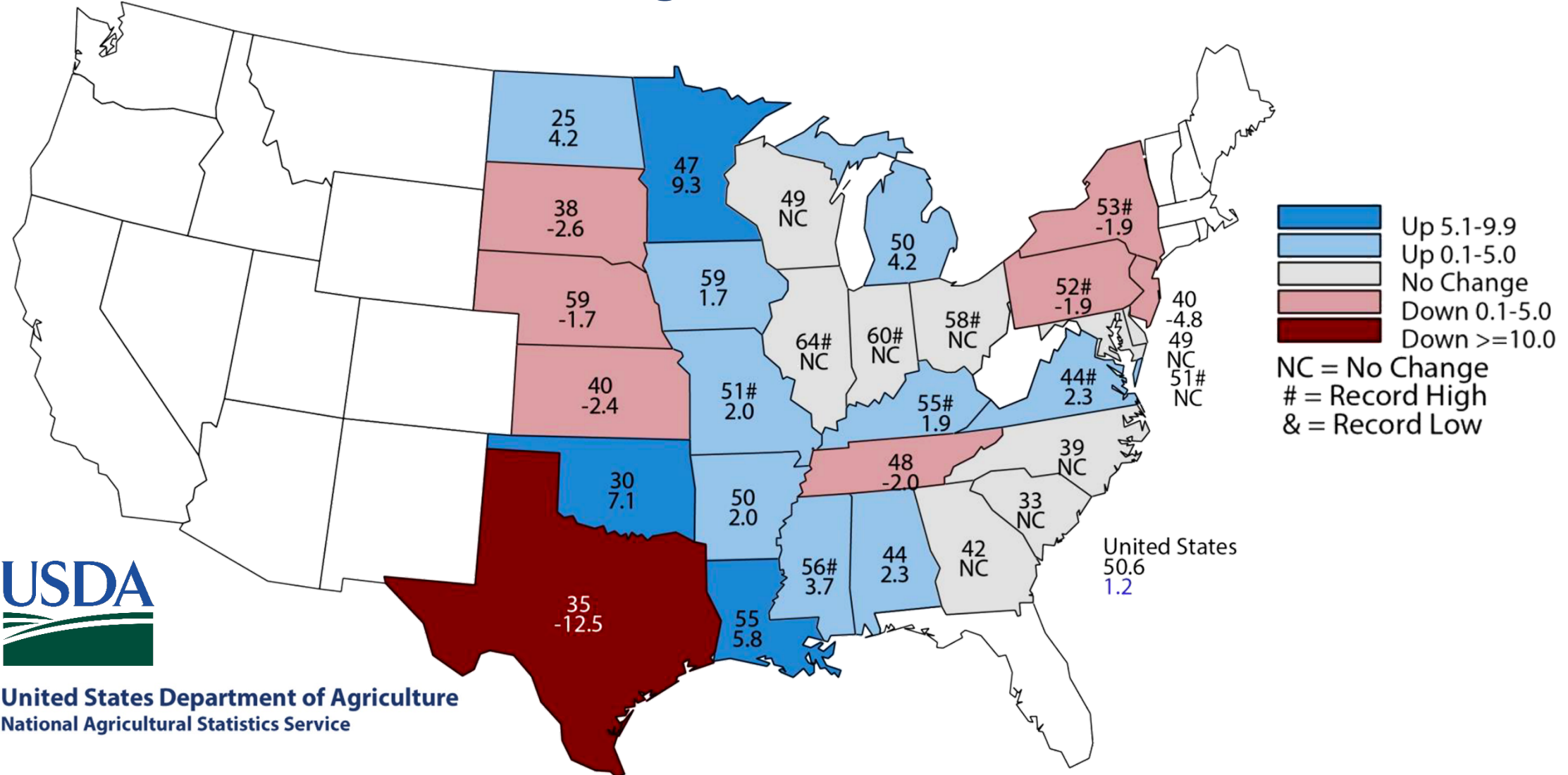
Bushels and Percent Change from Previous Month



United States Department of Agriculture
National Agricultural Statistics Service

September 2021 Soybean Yield

Bushels and Percent Change from Previous Month

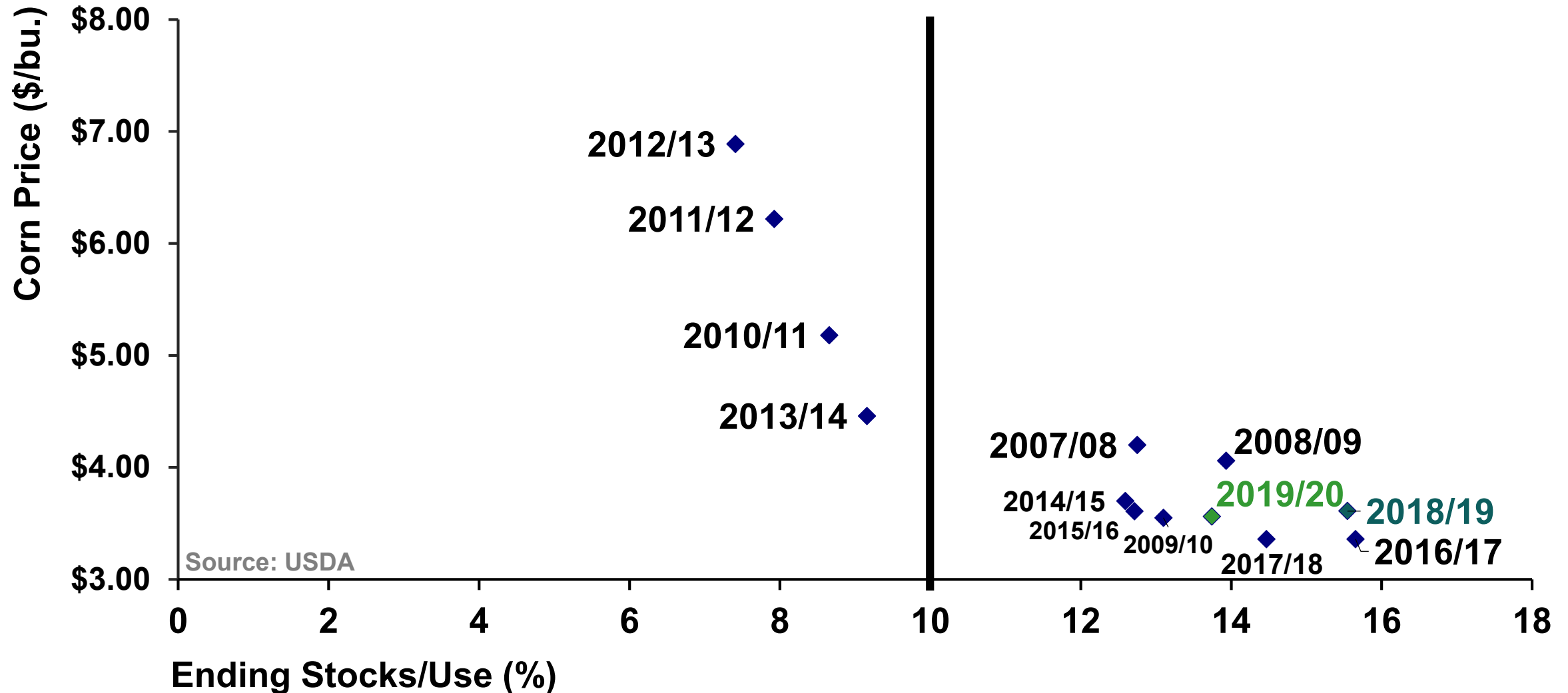


United States Department of Agriculture
National Agricultural Statistics Service

Updated 2021/22 U.S. Corn Supply and Use

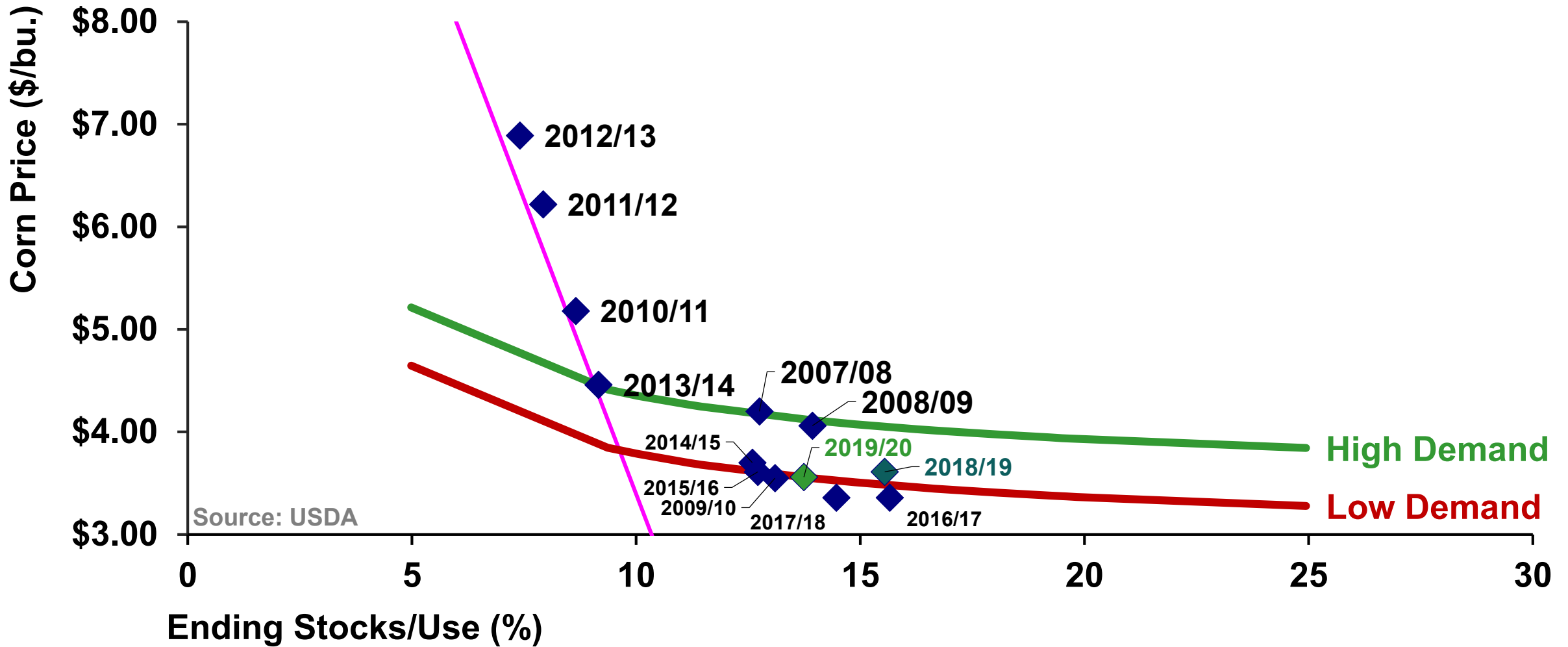
	2018/19	2019/20	2020/21 USDA Sep WASDE	2021/22 USDA Sep WASDE	2021/22 Forecast
Area Planted (mil. acres)	88.9	89.7	90.8	93.3	93.8
Area Harvested (mil. acres)	81.3	81.3	82.5	85.1	85.6
Yield (bu./acre)	176.4	167.5	172	176.3	177.0
Beginning Stocks (mil. bu.)	2,140	2,221	1,919	1,187	1,187
Production (mil. bu.)	14,340	13,620	14,182	14,996	15,151
Imports (mil. bu.)	28	42	25	25	25
Total Supply (mil. bu.)	16,509	15,883	16,127	16,208	16,363
Feed and Residual (mil. bu.)	5,429	5,903	5,725	5,700	5,700
Food, Seed, and Industrial (mil. bu.)	6,793	6,282	6,470	6,625	6,625
Ethanol (mil. bu.)	5,378	4,852	5,035	5,200	5,200
Exports (mil. bu.)	2,066	1,778	2,745	2,475	2,475
Total Use (mil. bu.)	14,288	13,963	14,940	14,800	14,800
Ending Stocks (mil. bu.)	2,221	1,919	1,187	1,408	1,563
Stocks/Use (%)	15.5	13.7	7.9	9.5	10.6
Season Average Price (\$/bu.)	\$3.61	\$3.56	\$4.45	\$5.45	\$5.00

US Corn, Farm Price vs. Ending Stocks/Total Use 2007/08 to 2019/20



Source: USDA

US Corn, Farm Price vs. Ending Stocks/Total Use 2007/08 to 2019/20

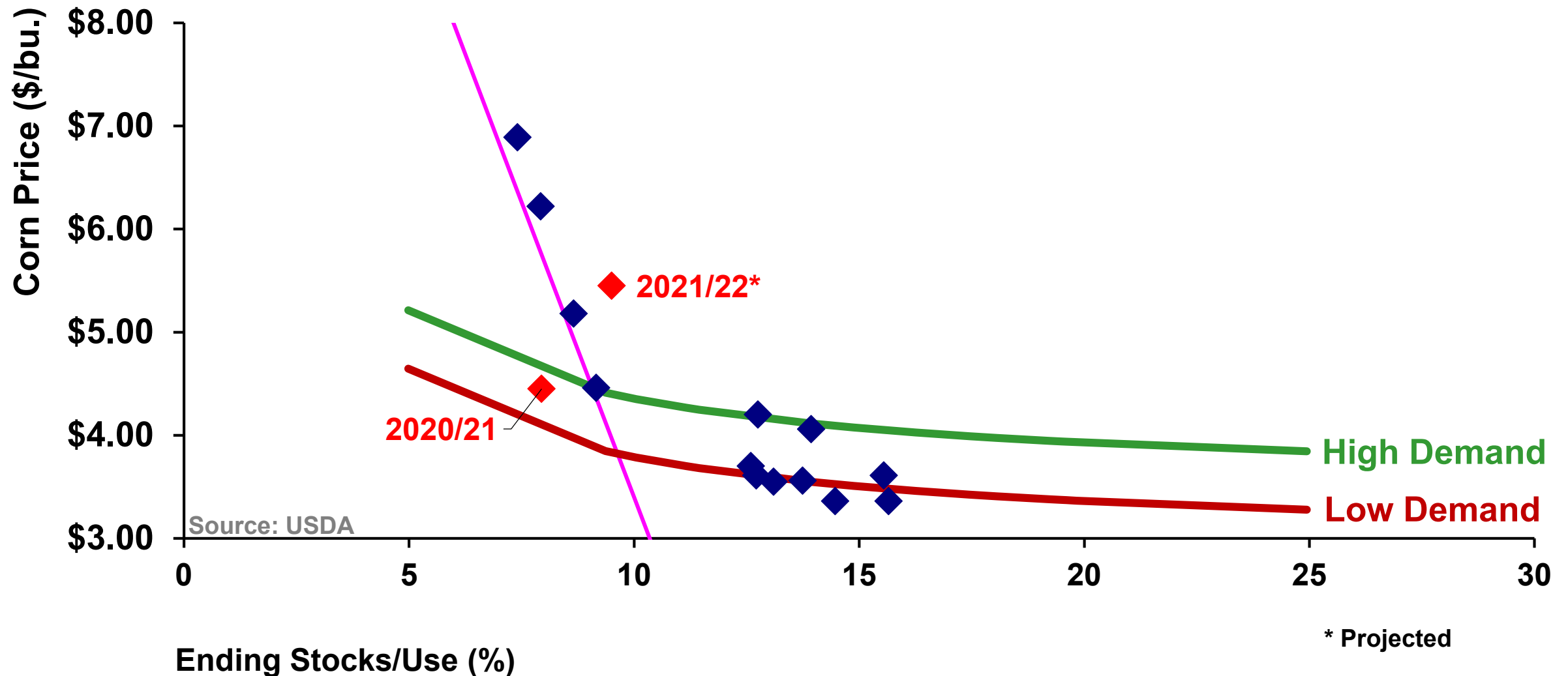


Source: USDA

High Demand

Low Demand

US Corn, Farm Price vs. Ending Stocks/Total Use 2007/08 to 2021/22*



* Projected

Source: USDA

Updated 2021/22 U.S. Soybean Supply and Use

	2018/19	2019/20	2020/21 USDA Sep WASDE	2021/22 USDA Sep WASDE	2021/22 Forecast
Area Planted (mil. acres)	89.2	76.1	83.1	87.2	87.2
Area Harvested (mil. Acres)	87.6	74.9	82.3	86.4	86.4
Yield (bu./acre)	50.6	47.4	50.2	50.6	51.0
Beginning Stocks (mil. bu.)	438	909	525	175	175
Production (mil. bu.)	4,428	3,552	4,135	4,374	4,406
Imports (mil. bu.)	14	15	20	25	25
Total Supply (mil. bu.)	4,880	4,476	4,680	4,574	4,606
Crush (mil. bu.)	2,092	2,165	2,140	2,180	2,180
Exports (mil. bu.)	1,752	1,682	2,260	2,090	2,090
Seed (mil. bu.)	88	96	101	104	104
Residual (mil. bu.)	39	9	4	14	14
Total Use (mil. bu.)	3,971	3,952	4,505	4,389	4,389
Ending Stocks (mil. bu.)	909	525	175	185	217
Stocks/Use (%)	22.9	13.3	3.9	4.2	4.9
Season Average Price (\$/bu.)	\$8.48	\$8.57	\$10.90	\$12.90	\$12.90

Exhibit 3: Announced and pending-FID projects represent an incremental 3.3bn gal of incremental renewable diesel capacity by 2024

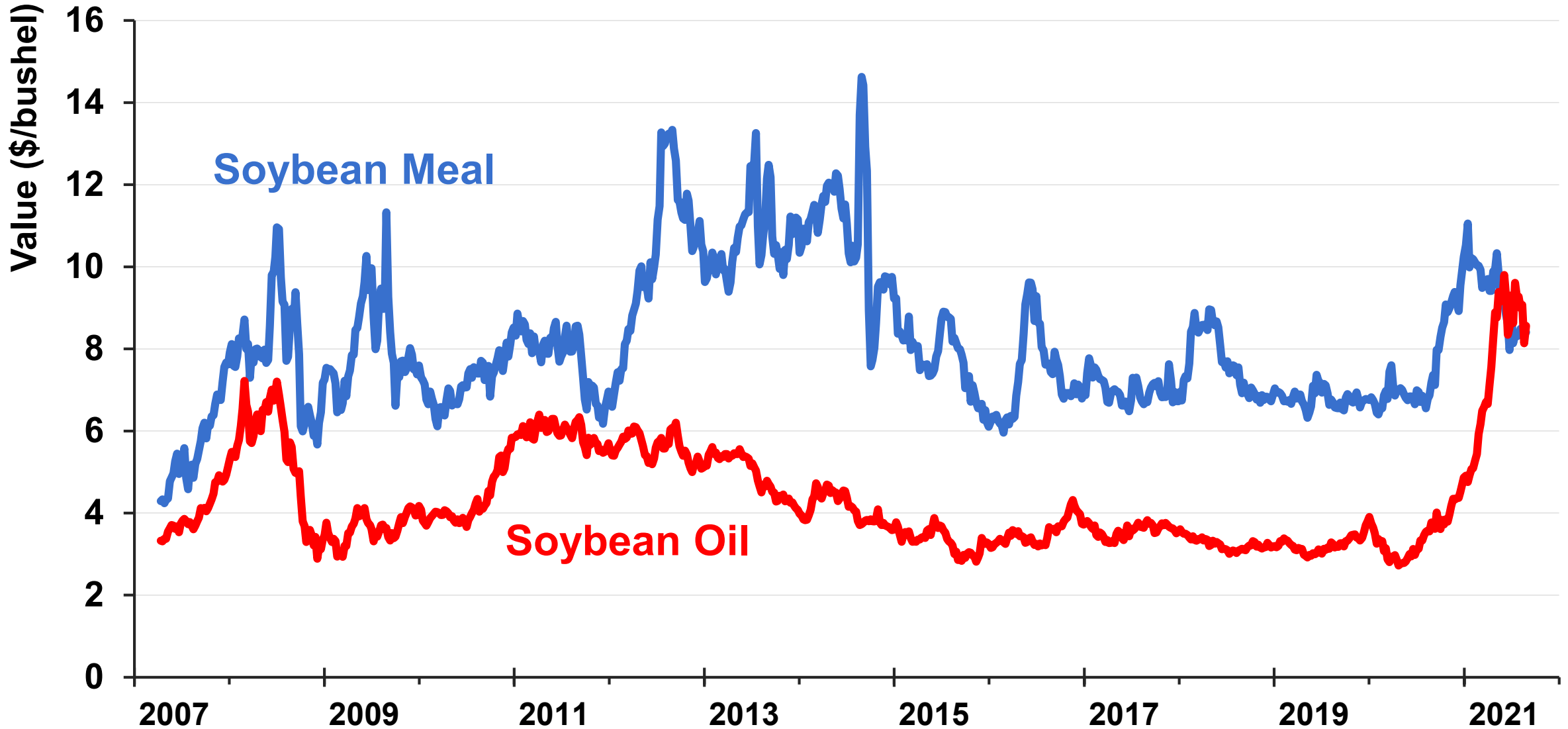
Renewable diesel project announcements + pending FID

US Renewable Diesel Projects					
Company	Location	Feedstock	Online	Capacity (mn gal)	Stage
Marathon Petroleum	Dickinson, ND	Veg oil, DCO	2020	180.0	Under Construction
Ryze Renewables & Phillips 66	Las Vegas, NV	Agricultural oils and animal fats	2020	100.0	Under Construction
ReadiFuels	Hull, IA	DCO, grease, tallow	2020	34.0	No Information Available
CVR Energy	Wynnewood, OK	Refined soybean oil	2021	100.0	Pending FID
Diamond Green Diesel	Norco, LA	UCO, animal fats, DCO	2021	400.0	Under Construction
Ryze Renewables & Phillips 66	Reno, NV	Agricultural oils, animal fats	2021	50.0	Under Construction
World Energy	Paramount, CA	UCO, animal fats	2022	116.0	Permitting
Marathon Petroleum	Martinez, CA	Unknown	2022	735.8	Pending FID
Global Clean Energy	Bakersfield, CA	Camelina, UCO, soybean oil, DCO	2022	105.0	Permitting
NEXT Renewable Fuels	Port Westward, OR	UCO, animal fats, veg oil	2022	517.4	Permitting
HollyFrontier	Artesia, NM	Soybean oil and other	2022	120.0	Permitting Secured
HollyFrontier	Cheyenne, WY	Soybean oil and other	2022	90.0	Permitting
Renewable Energy Group	Geismar, LA	Soybean oil, tallow, corn oil, UCO	2023	250.0	Permitting
Phillips 66	Rodeo, CA	UCO, agricultural oils	2024	138.0	Permitting
Diamond Green Diesel	Port Arthur, TX	UCO, animal fats, DCO	2024	400.0	Pending FID
Total (2020-2024)				3,336.2	

Source: Company data, Goldman Sachs Global Investment Research

Source: “Renewable Diesel: Positive Ag Processors and Select Fuel Producers, Refining Mixed, Global: Future of Energy Demand Series, Goldman Sachs Equity Research

Weekly (Friday) Crush Value of Soybean Meal and Soybean Oil at Iowa Plants 01/26/2007 to 08/27/2021



In 2020/21, US corn exports to China were 22.5 million metric tons, or almost 900 mil bu. What do you expect for US corn exports to China in 2021/22?

- Below 600 million bushels**
- Between 600 and 900 million bushels**
- Between 900 and 1200 million bushels**
- Over 1200 million bushels**

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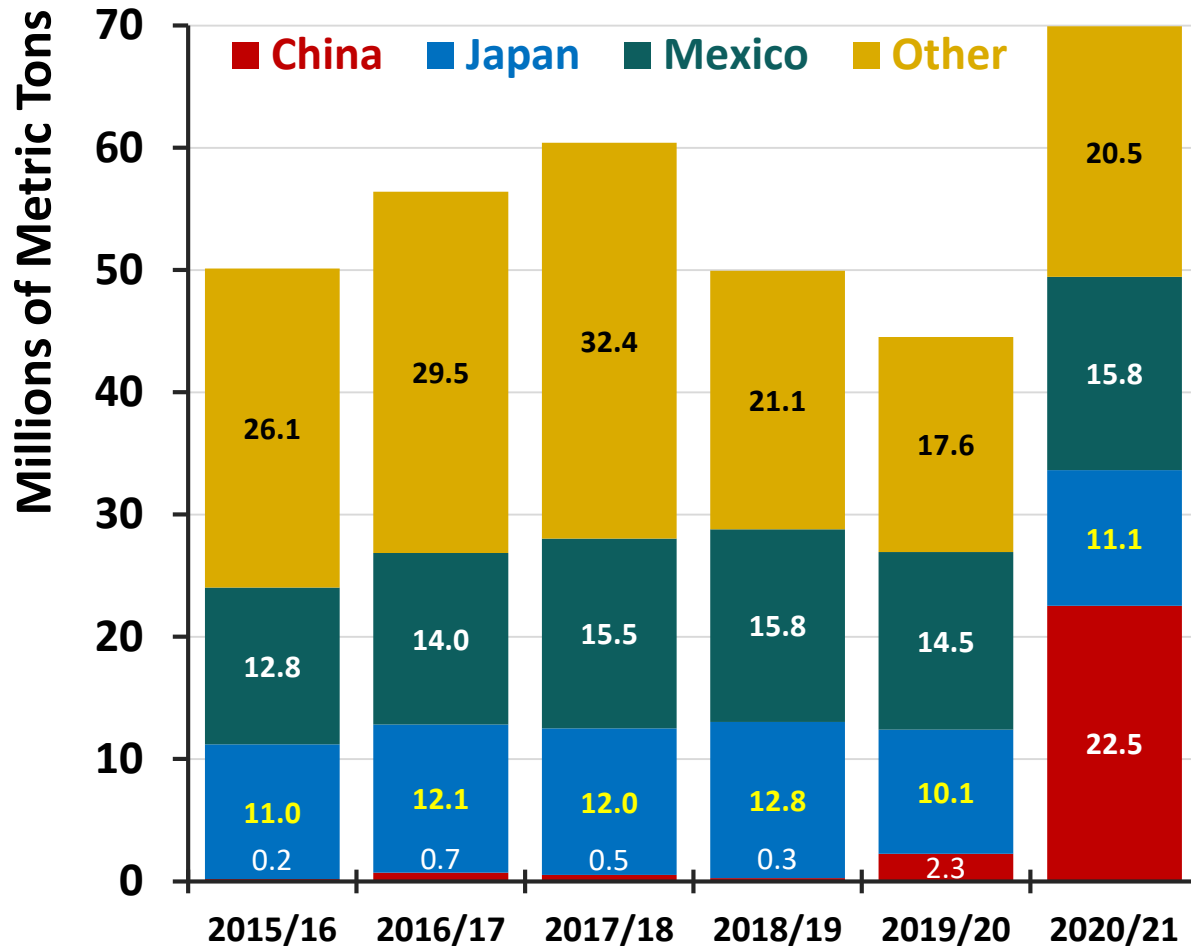


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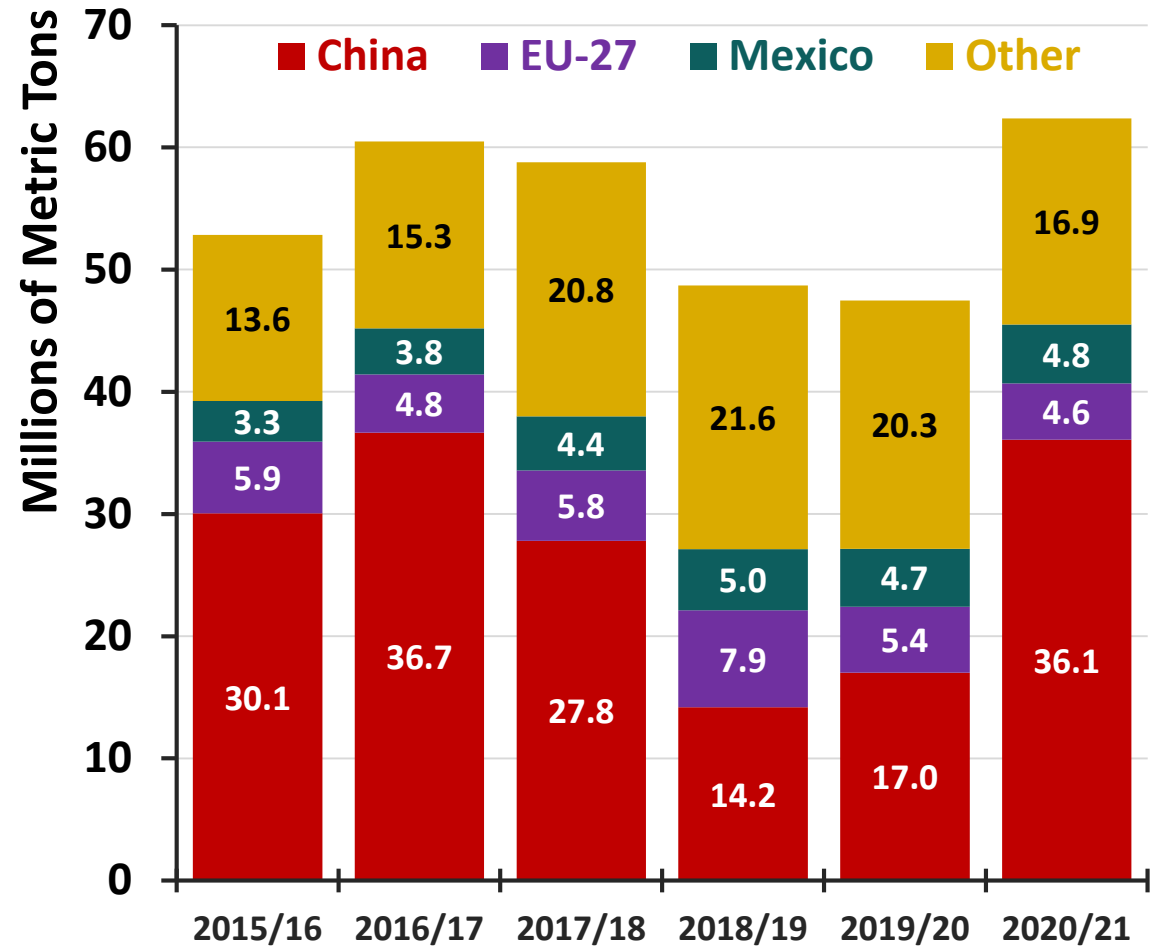


Corn & Soybean exports were strong in 2020/21

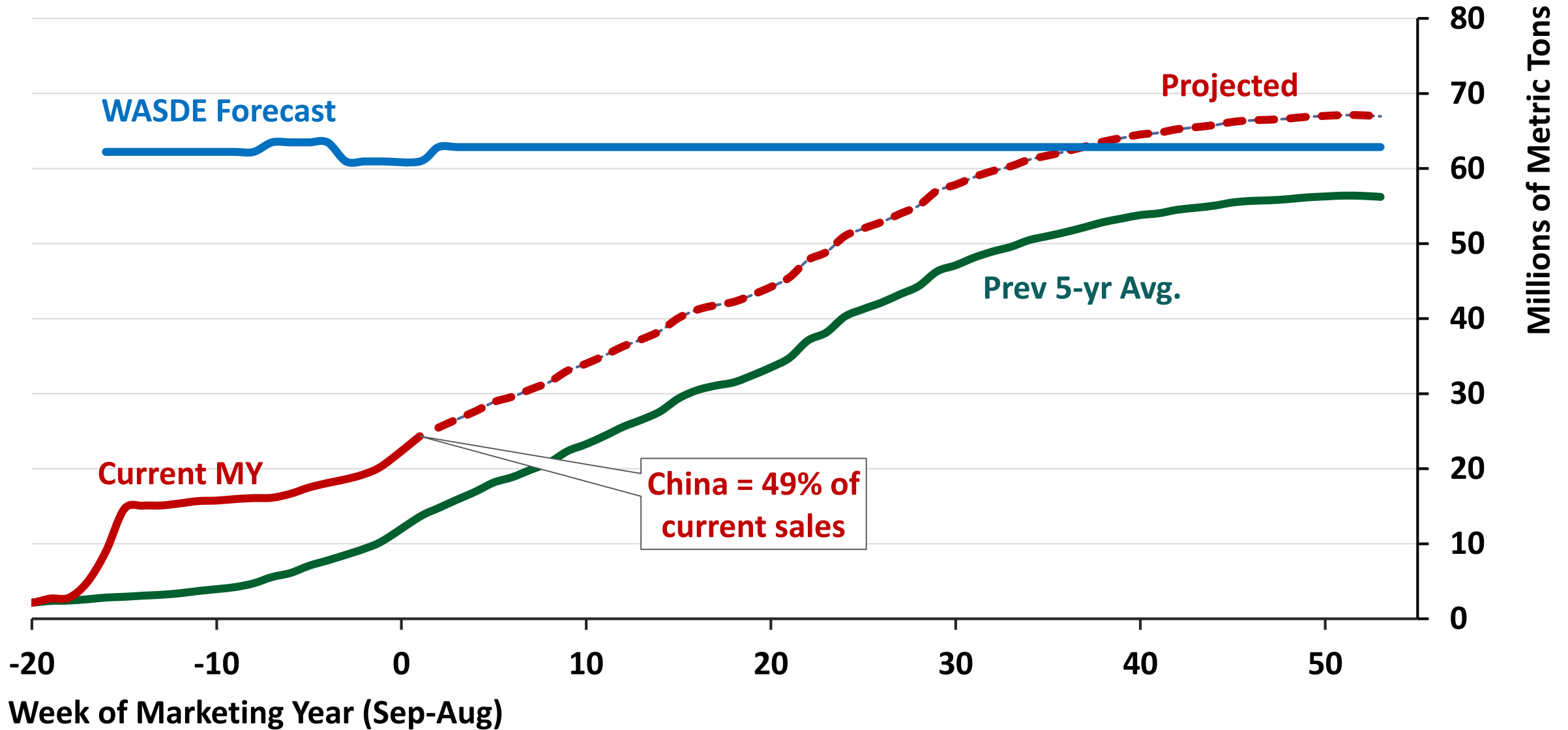
US Corn Exports by Destination and Marketing Year
2015/16-2020/21



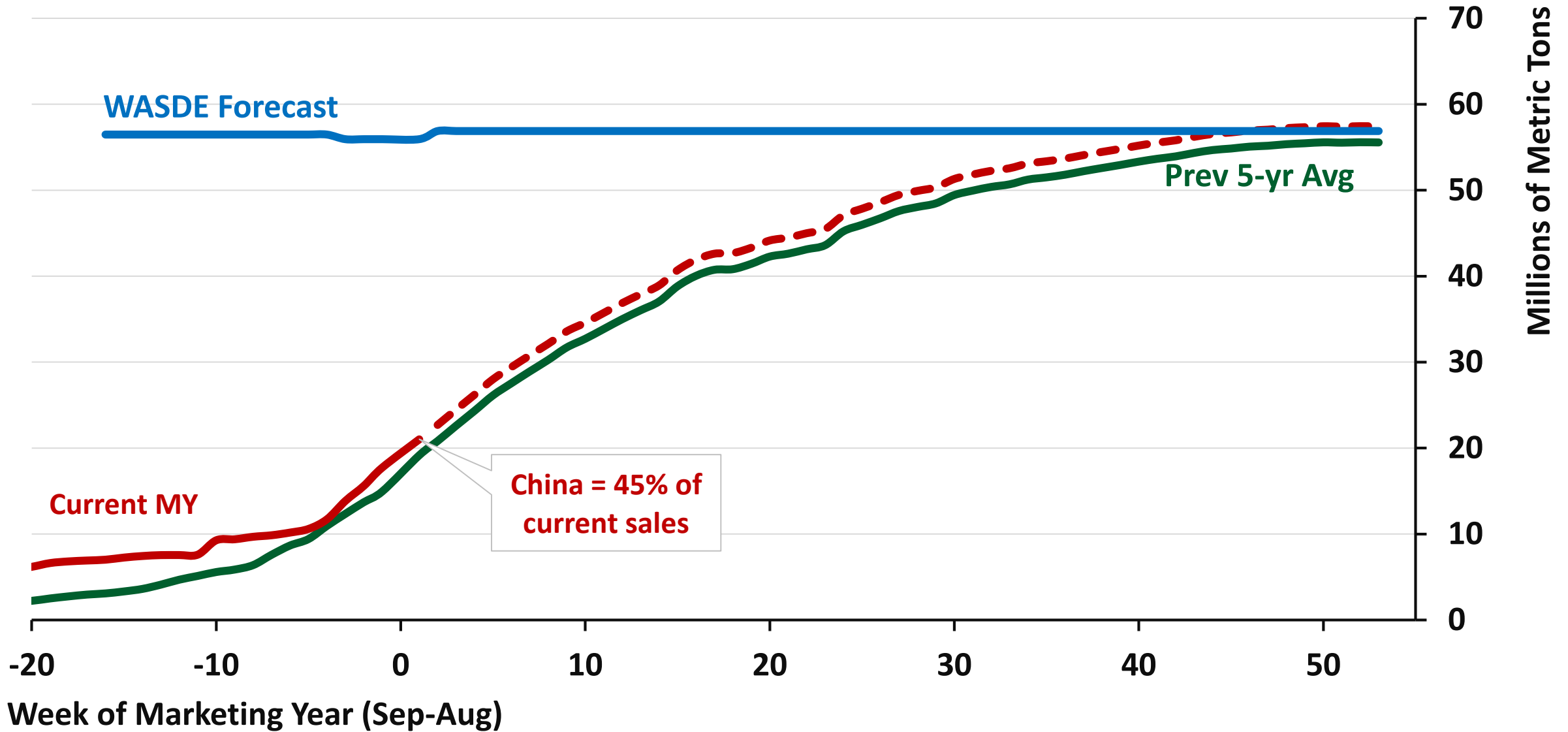
US Soybean Exports by Destination and Marketing Year
2015/16-2020/21



US Corn Export Sales Pace by Week of Marketing Year

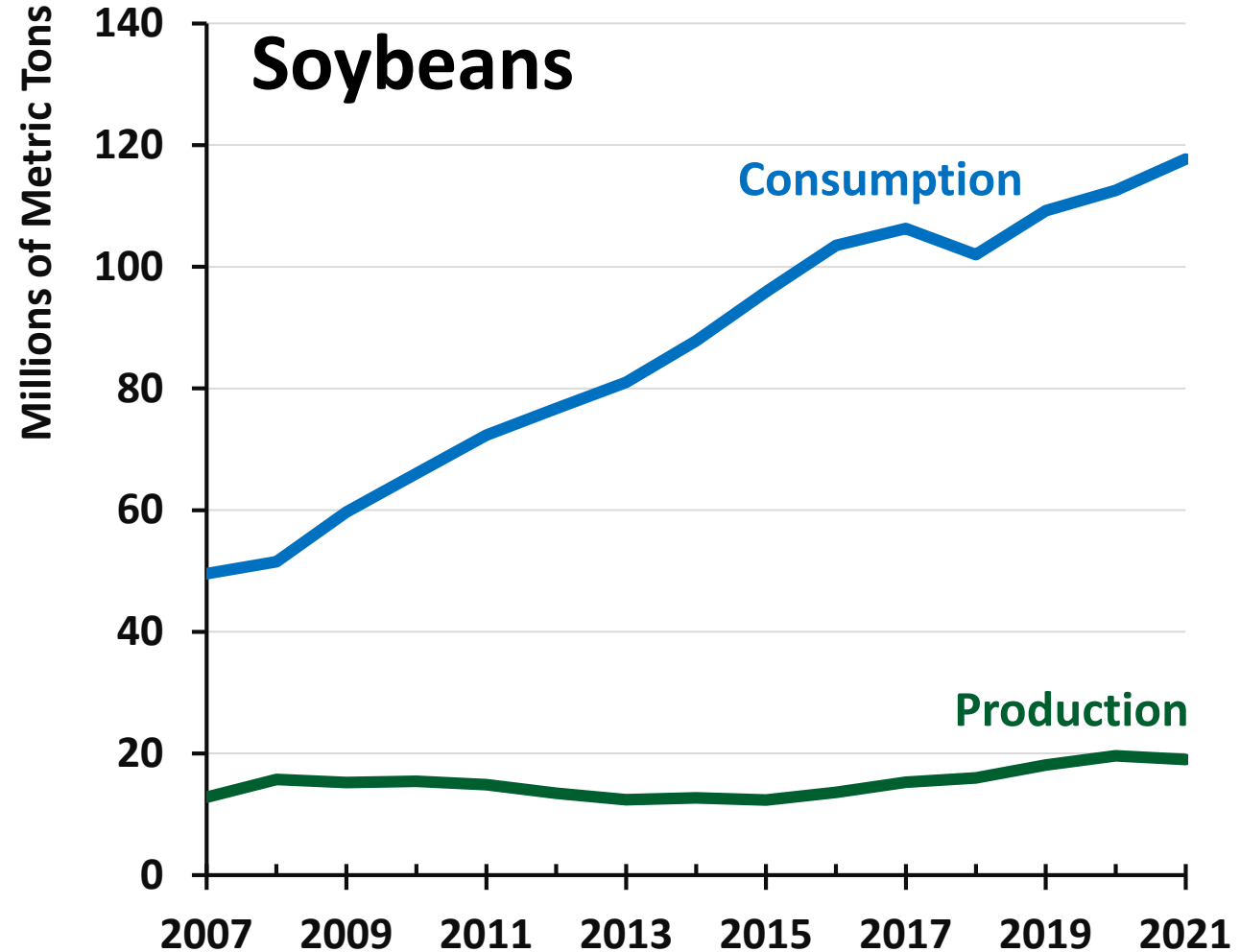
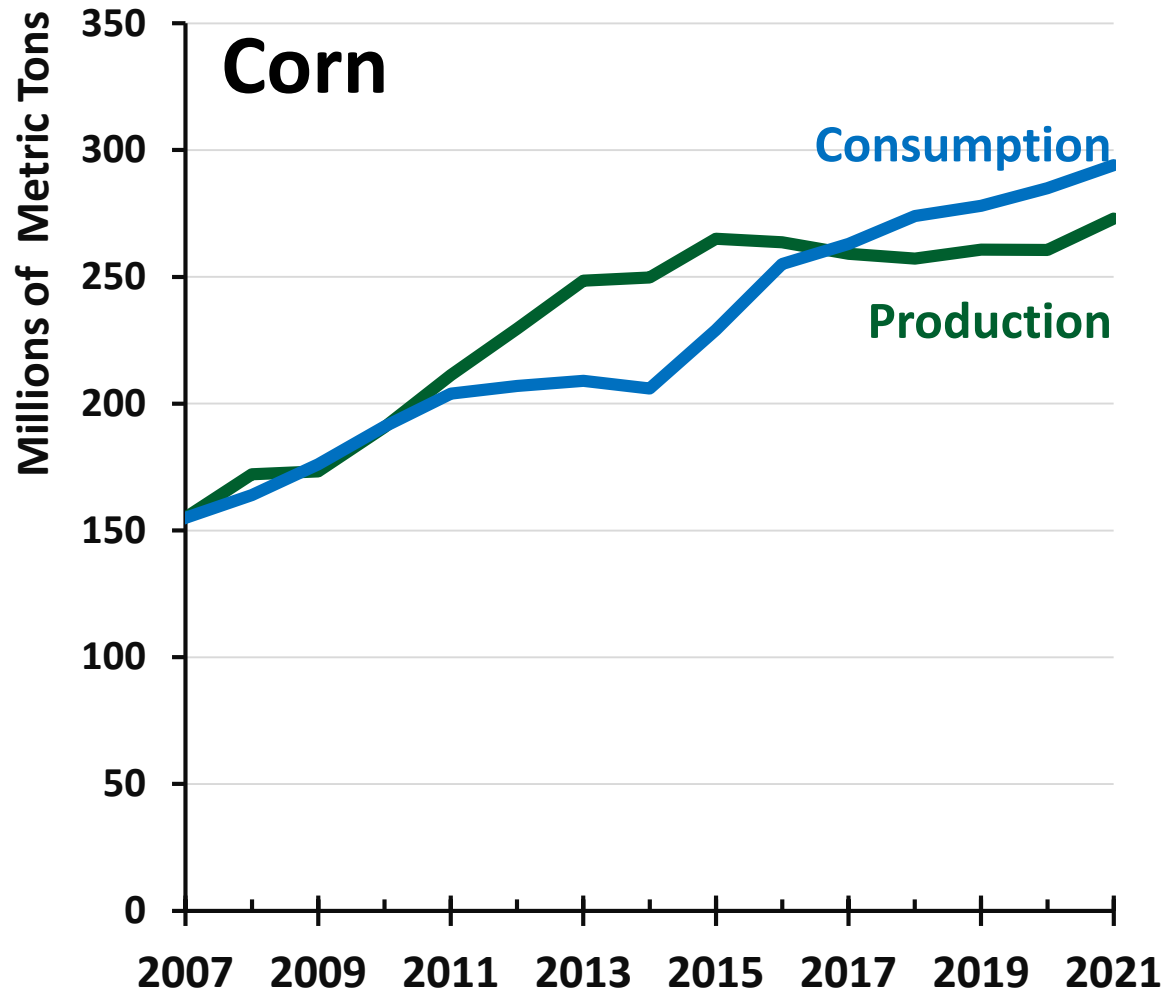


US Soybean Export Sales Pace by Week of Marketing Year



Chinese Import Demand Differs by Commodity

China Domestic Deficit/Surplus by Marketing Year, 2007/08-2021/22F



2021/22 world corn and soybean supply and use (in mmt)

CORN	Beginning Stocks	Production	Imports	Domestic Feed	Domestic Total	Exports	Ending Stocks
World	286.5	1197.8	186.0	749.2	1186.6	201.3	297.6
United States	30.2	380.9	0.6	144.8	313.1	62.9	35.8
Argentina	2.1	53.0	0.0	10.5	14.5	38.0	2.6
Brazil	4.7	118.0	1.7	62.0	73.0	43.0	8.4
Ukraine	0.9	39.0	0.0	5.6	6.8	32.0	1.1
Japan	1.4	0.0	15.6	12.3	15.9	0.0	1.1
Mexico	2.6	28.0	17.0	26.0	44.2	0.7	2.7
China	202.2	273.0	26.0	214.0	294.0	0.0	207.2
SOYBEANS	Beginning Stocks	Production	Imports	Domestic Crush	Domestic Total	Exports	Ending Stocks
World	95.1	384.4	170.9	329.4	378.4	173.2	98.9
United States	4.8	119.0	0.7	59.3	62.6	56.9	5.0
Argentina	24.6	52.0	4.7	43.0	50.4	6.4	24.6
Brazil	26.6	144.0	0.7	47.7	50.4	93.0	27.9
China	32.8	19.0	101.0	98.0	117.7	0.1	35.0
European Union	1.1	2.8	15.0	15.9	17.6	0.2	1.1
Mexico	0.1	0.3	6.2	6.4	6.5	0.0	0.2

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Upcoming Webinars

Brazil and the US

11:00 to noon CT, Thursday September 23rd

by Joana Colussi and Gary Schnitkey

Brazil is the United States' major competitor in agriculture, with Brazil now producing more soybeans than the U.S. Here we will discuss Brazil's past development, and prospects for the future.

Managing Weeds in Variable Weather: Insights from Data Mining

11:00 to noon CT, Thursday September 30th

by Marty Williams and Aaron Hager

Global climate change is creating challenges for agriculture today and will continue in the future. During the past 50 years in the US Cornbelt, average air temperatures have risen and rainfall has become more variable, including an increase in the total number of extreme rainfall events. These trends are expected to continue. Weather and weeds are two stressors that can act simultaneously to affect crop performance, yet their comprehensive study in tandem is limited. The webinar will discuss the most important relationships among weed control and weather variability on corn yield loss due to weeds.

Thank You for joining us!

Please submit your questions



A screenshot of the farmdocDAILY website. The header includes the 'ILLINOIS' logo, navigation links for 'Our Sites: farmdoc farmdocDAILY Farm Policy News', and a search icon. Below the header is a green field image with the 'farmdocDAILY' logo and navigation links: 'Market Prices', 'Authors', 'By Month', 'Categories', 'Series', 'Tools', 'Webinars/IFES', 'Sponsors/Donate', and 'About Us'. A section for 'EDUCATIONAL PARTNERS:' lists 'Dept of ACE', 'FBFM', and 'EXTENSION'. A 'Subscribe for Daily Email Updates' button and social media icons (Twitter, Facebook, Instagram, YouTube, LinkedIn) are present. A featured article titled 'farmdoc's coverage of the Coronavirus and Ag' is shown, with a 'Latest Article' section containing a 'Weekly Farm Economics' article: 'WASDE 2021 Price Projections in Historical Perspective' dated September 14, 2021, by Gary Schnitkey, Nick Paulson, Carl Zulauf, and Krista Swanson. A 'Read the Article' button is below the article. A 'Sponsors' section lists various partners like TIAA, COMPEER FINANCIAL, CORTEVA agriscience, FARM CREDIT ILLINOIS, GROWMARK, and ILLINOIS SOYBEAN PROMOTION BOARD, with a 'See all sponsors' button.

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