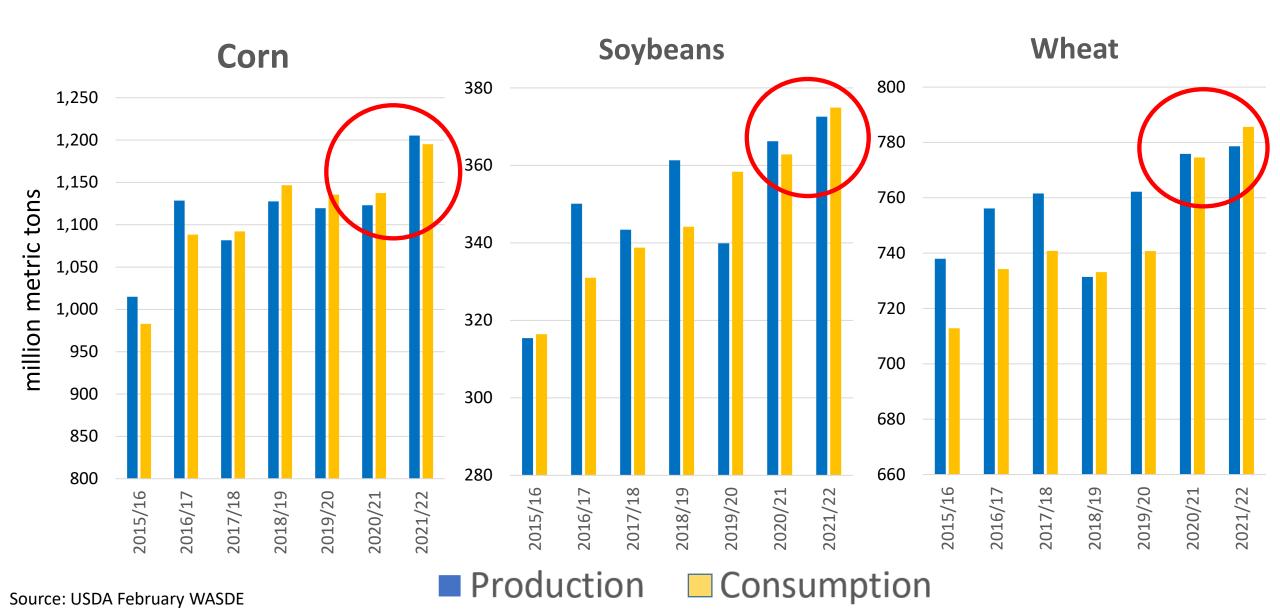
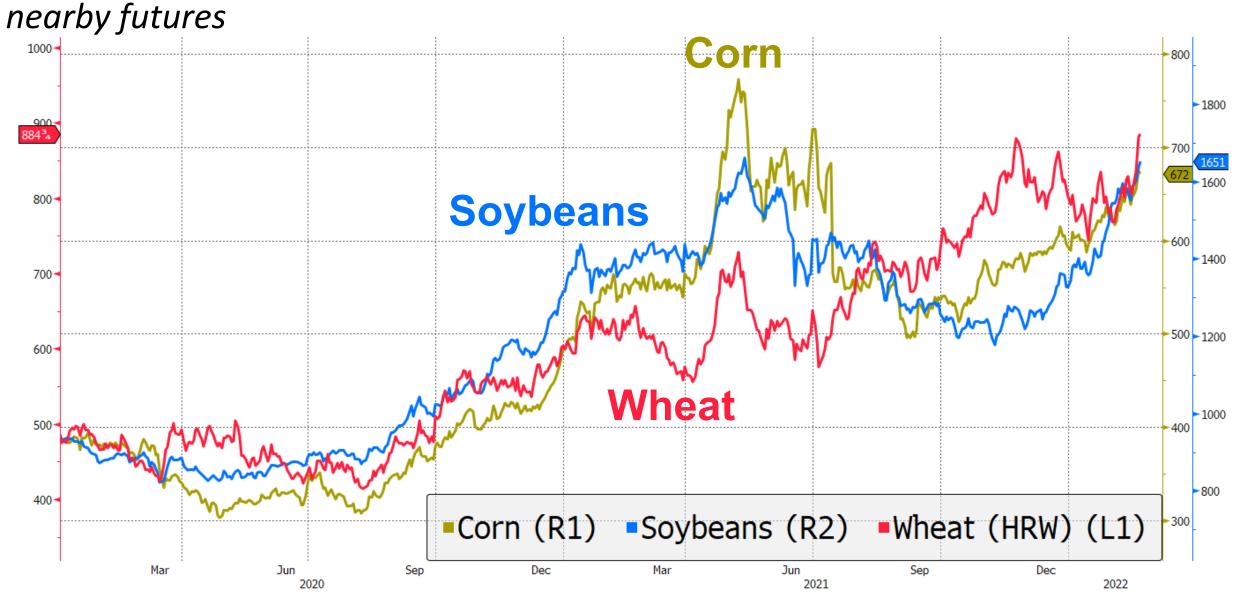


Higher Supplies and Higher Demand

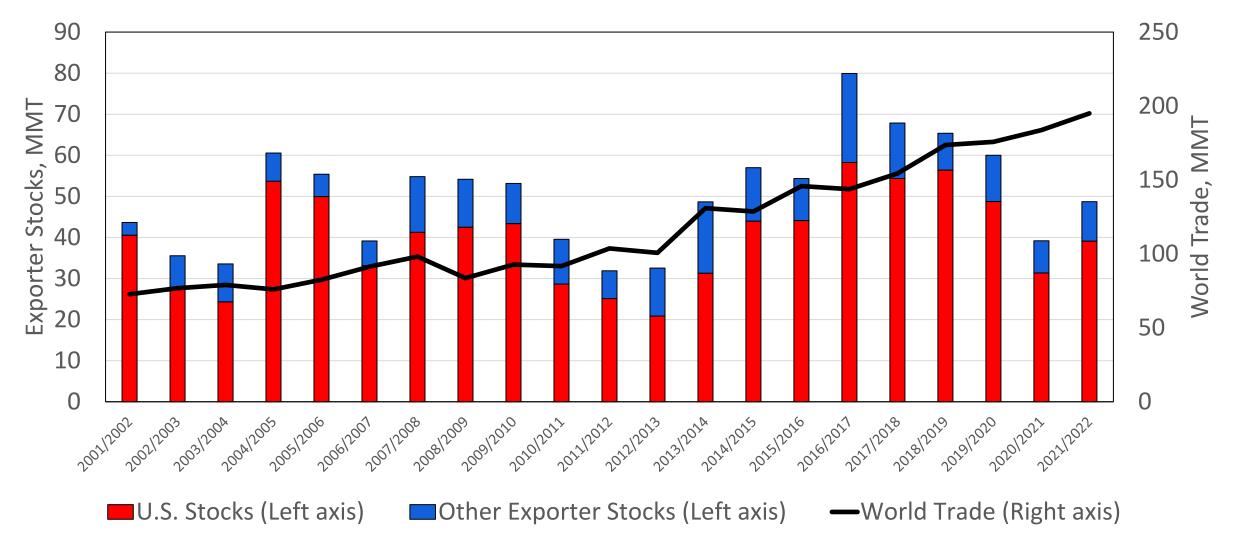


U.S. Corn, Soybean & Wheat futures Prices Moved Sharply Higher



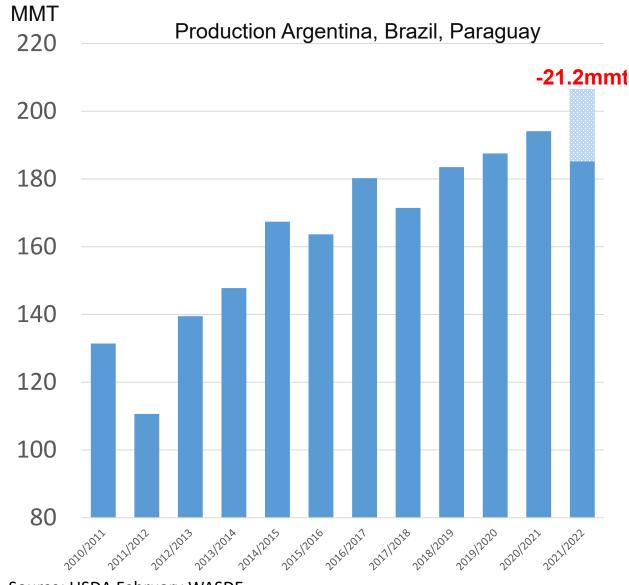
Data: Bloomberg

Corn Stocks in Exporting Countries Still Relatively Tight; World Trade Grows Despite High Prices

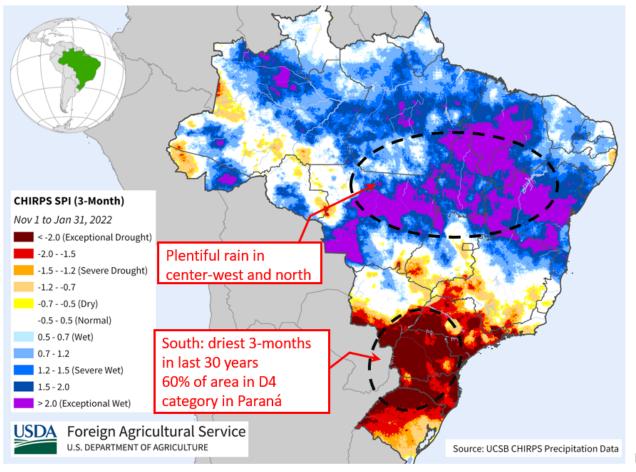


Source: USDA. Other exporters are Argentina, Brazil, Ukraine, and Russia. Trade Year basis.

Drought reduces 2022 South American Soybean Harvest



Brazil: 3-Month Standardized Precipitation Index

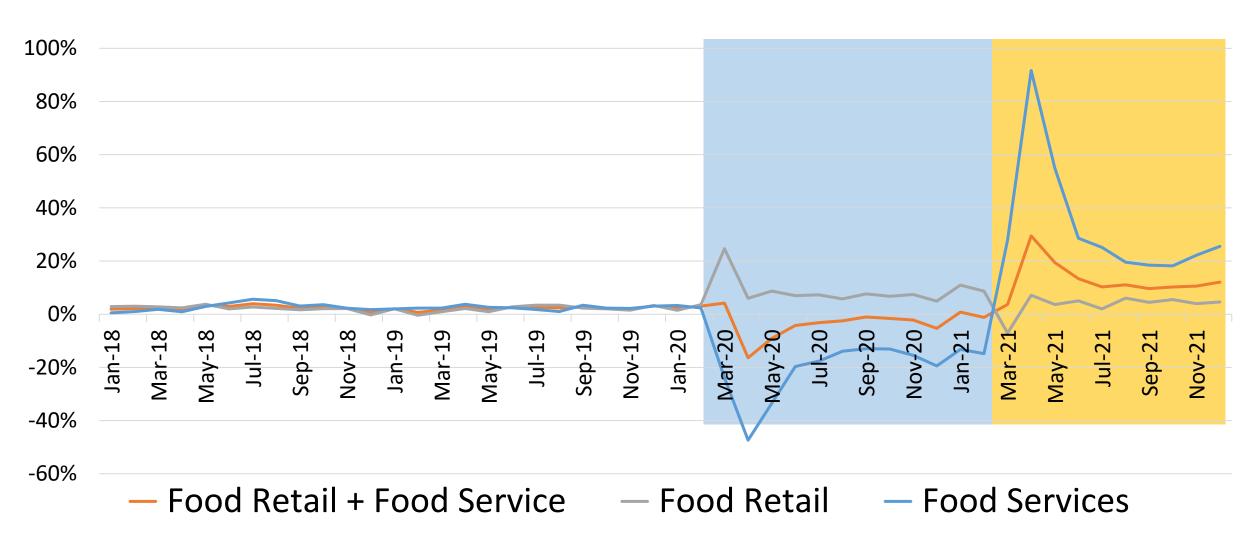


As of January 31, 2022

Source: USDA February WASDE

Consumer Food Demand Remains Strong

U.S. Real Expenditure growth for Food Retail and Food Service, Year over Year changes



Data: BEA, Jan 2018 to Dec 2021

Prices are Anticipated to Moderate, but Remain Strong

Crop	2010-2014 avg	2015	2016	2017	2018	2019	2020	2021	2022	∆ 2022
Corn (\$ bushel)	5.29	3.61	3.36	3.36	3.61	3.56	4.53	5.45	5.00	-8.3%
Rice (\$ cwt)	14.4	12.2	10.4	12.9	12.6	13.6	13.7	15.70	16.10	2.5%
Sorghum (\$ bushel)	5.13	3.31	2.79	3.22	3.26	3.34	5.04	5.45	4.90	-10.1%
Soybeans (\$ bushel)	12.3	8.95	9.47	9.33	8.48	8.57	10.80	13.00	12.75	-1.9%
Upland Cotton (\$ lb)	0.76	0.61	0.68	0.69	0.70	0.60	0.66	0.90	0.80	-11.1%
Wheat (\$ bushel)	6.71	4.89	3.89	4.72	5.16	4.58	5.05	7.30	6.80	-6.8%
Barley (\$ bushel)	5.40	5.52	4.96	4.47	4.62	4.69	4.75	5.15		
Oats (\$ bushel)	3.37	2.12	2.06	2.59	2.66	2.82	2.77	4.00		

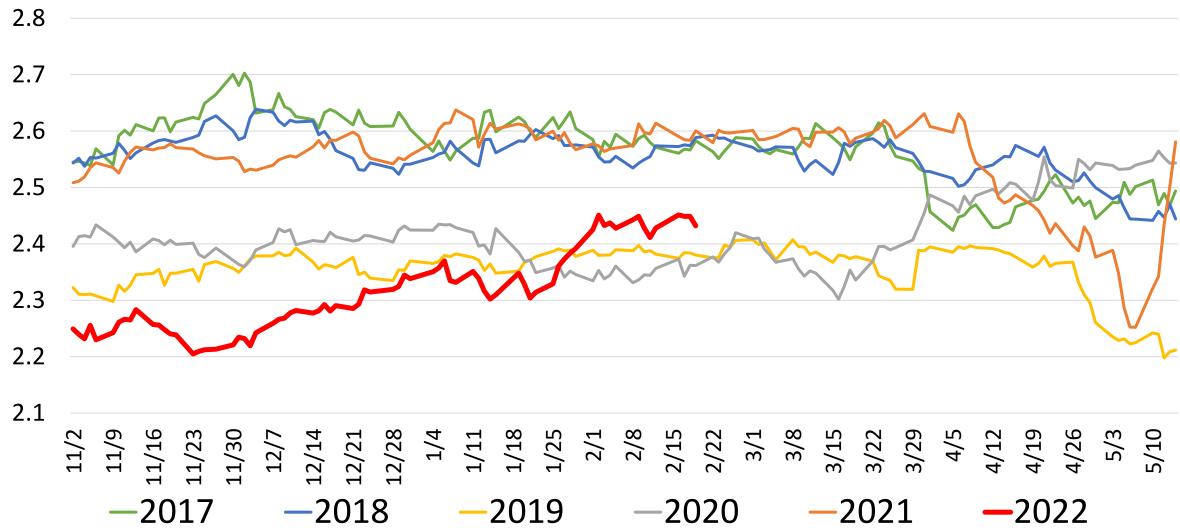
U.S. Wheat Planted Acres Rise after Long-Term Decline

- Wheat area rebounded in 2021 on higher winter wheat plantings.
- 2022 wheat area expected to rise again to <u>48.0 million</u> acres on favorable newcrop prices. Spring wheat increase could be limited.
- Winter wheat harvested area remains a question given dry fall and winter conditions.



Source: OCE-WAOB

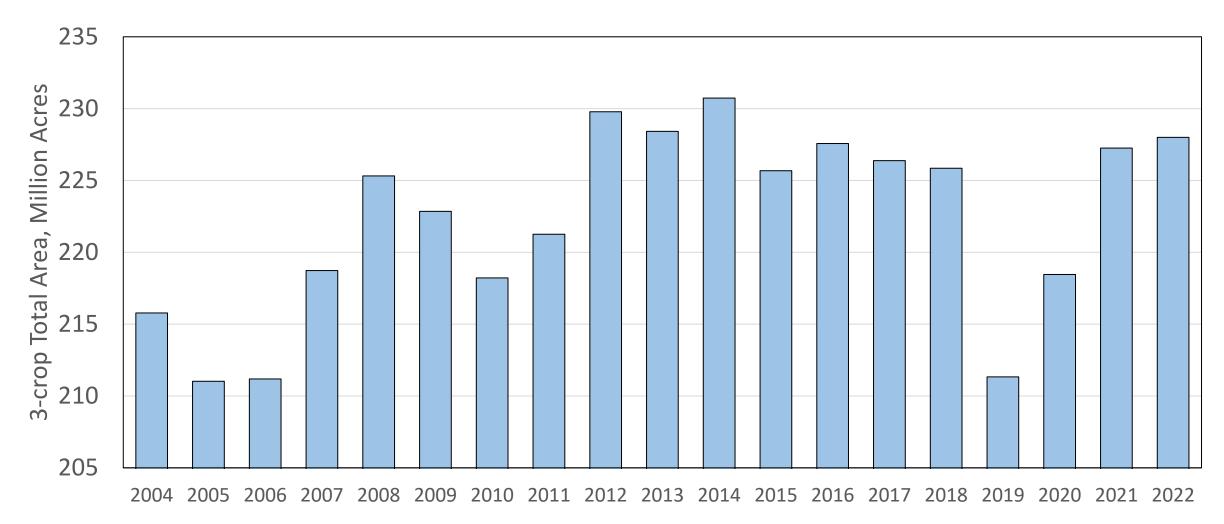
New Crop U.S. Soybean to Corn Price Ratio



Source: CME

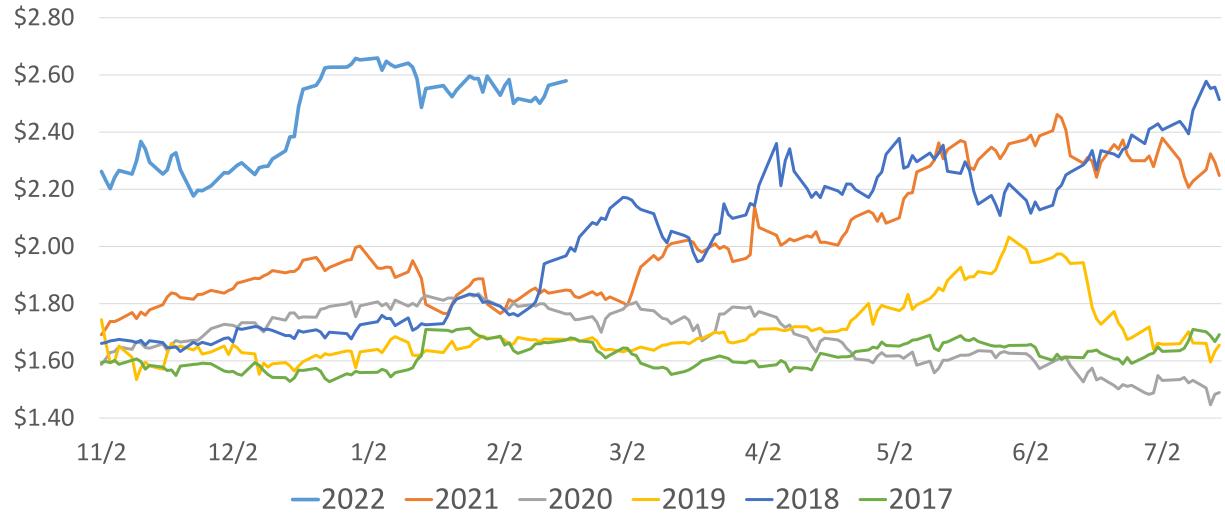
Note: Nov. Soybeans & Dec. Corn futures prices

Combined Corn (92ma), Soybean (88ma), and Wheat (48ma) Area Modestly Above a Year Ago; High prices for other crops and assumption of normal weather limits area expansion



Source: OCE-WAOB. 3-crops are corn, soybeans, and wheat.

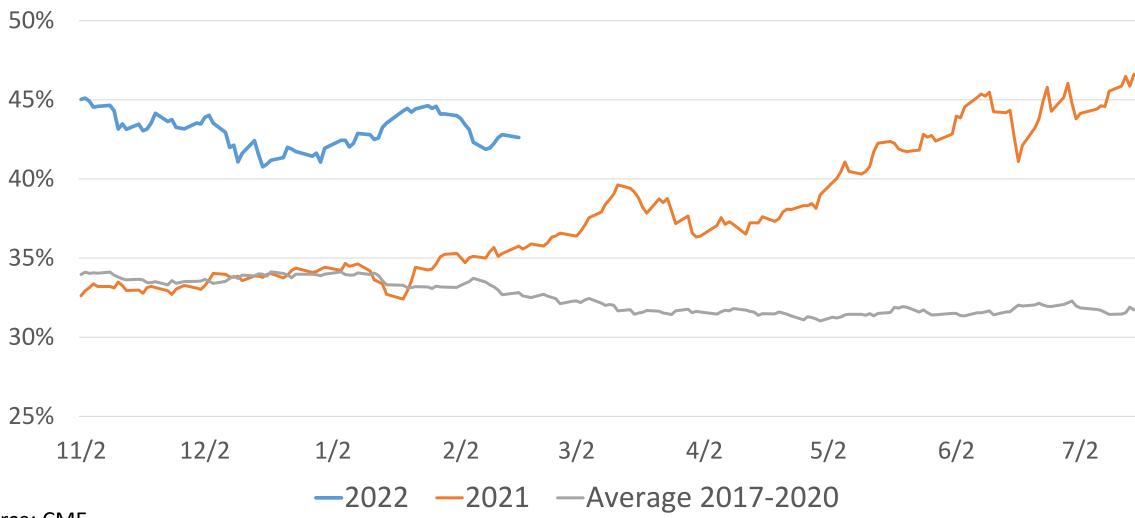
U.S. Soybean Futures Crush Margin is Historically High



Source: CME

Note: Futures Prices - Nov. Soybeans, Dec. Meal and Oil

Soybean Oil Share of Futures Crush Value is also Historically High

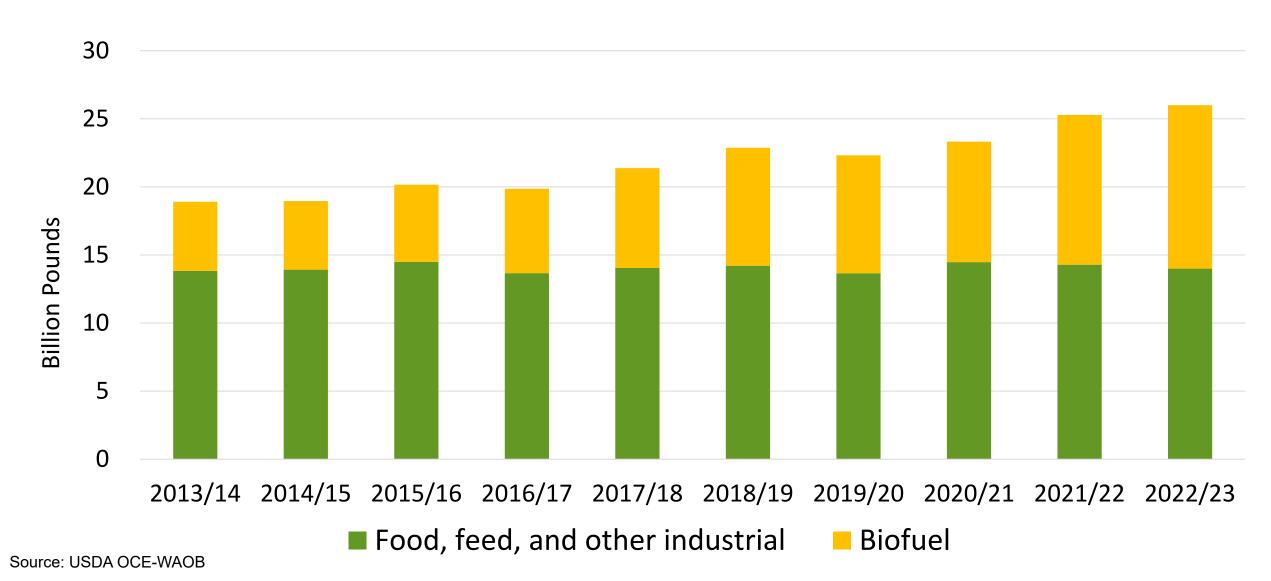


Source: CME

Note: Futures Prices - Nov. Soybeans, Dec. Meal and Oil

Soybean Oil for Biofuel Grows Rapidly Through 2022/23

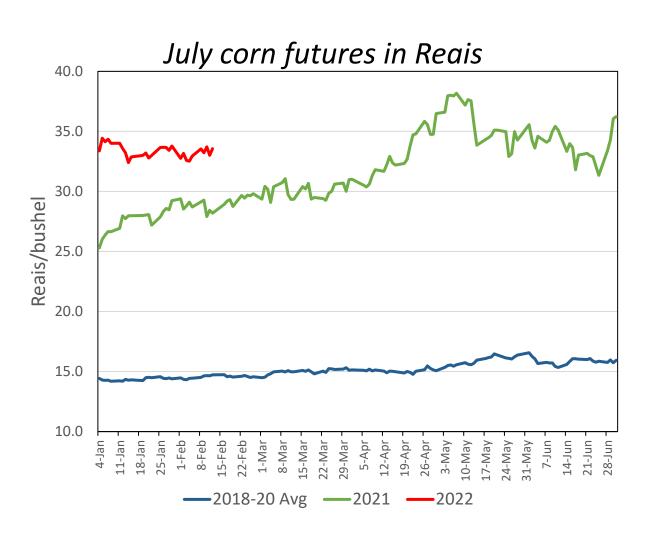
leading to lower soybean oil for food, feed, and other industrial uses in 2022/23



Low Brazil & Argentina October 1 Soybean Stocks Support Higher U.S. Exports this Fall

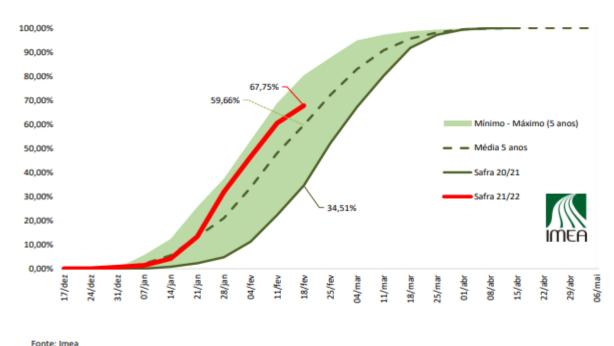


Brazil Corn Prices Support Continued Area Expansion; Critical Phase of Growing Season Ahead



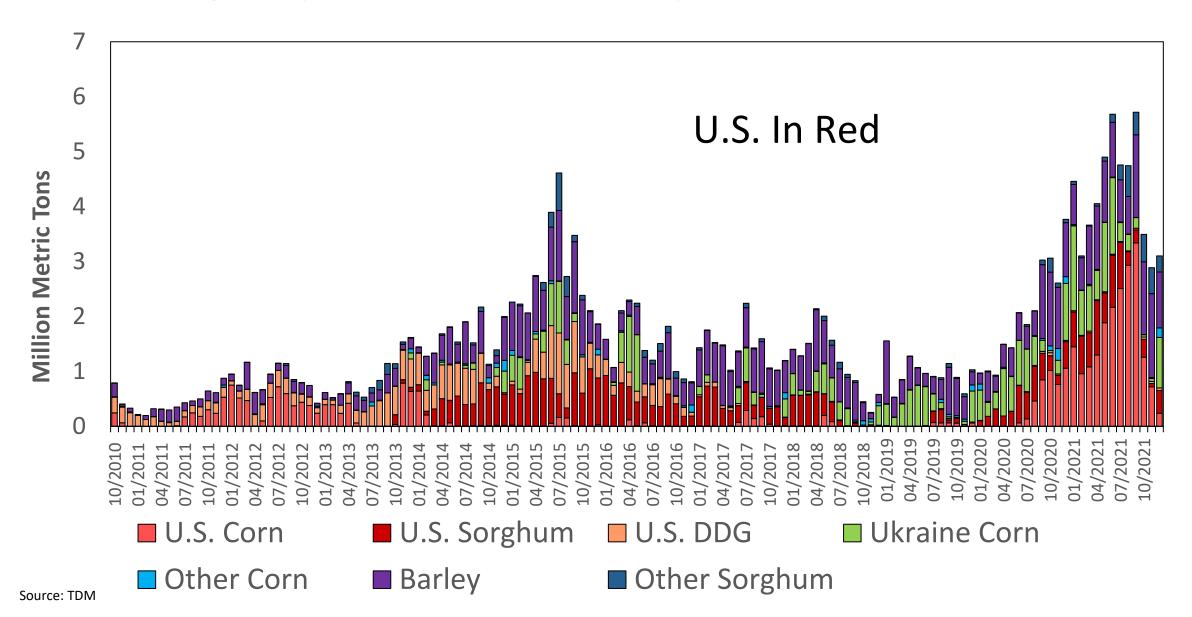
In contrast to year ago, fast soybean harvest in Brazil means accelerated planting of the safrina corn crop

EVOLUÇÃO DO PERCENTUAL DE ÁREA COLHIDA DE SOJA EM MATO GROSSO



Source: CME, St. Louis Federal Reserve Economic Database

China's Large Imports of Feedstuffs Expected to Continue



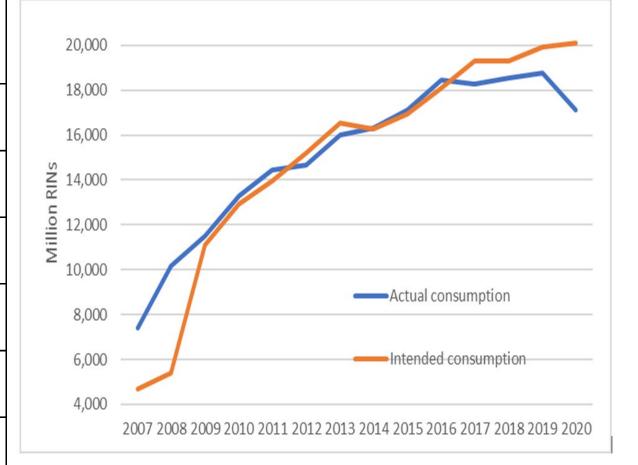
Renewable Fuel Standard

Small refinery exemptions and covid impacts have left the RFS short of published volumes

Billion gallons

Billion gallons						
Category	Cellulosic Biofuel	Biomass- Based Diesel ^b	Advanced Biofuel	Total RFS	implied conventio nal (corn ethanol)	Supp. Standard
2017	0.311	2	4.28	19.28	15.00	n/a
2018	0.288	2.1	4.29	19.29	15.00	n/a
2019	0.418	2.1	4.92	19.92	15.00	n/a
2020 (P)	0.51	2.43 ^c	4.63	17.13	12.50	n/a
2021 (P)	0.62	2.43 ^d	5.2	18.52	13.32	n/a
2022 (P)	0.77	2.76	5.77	20.77	15.00	0.25

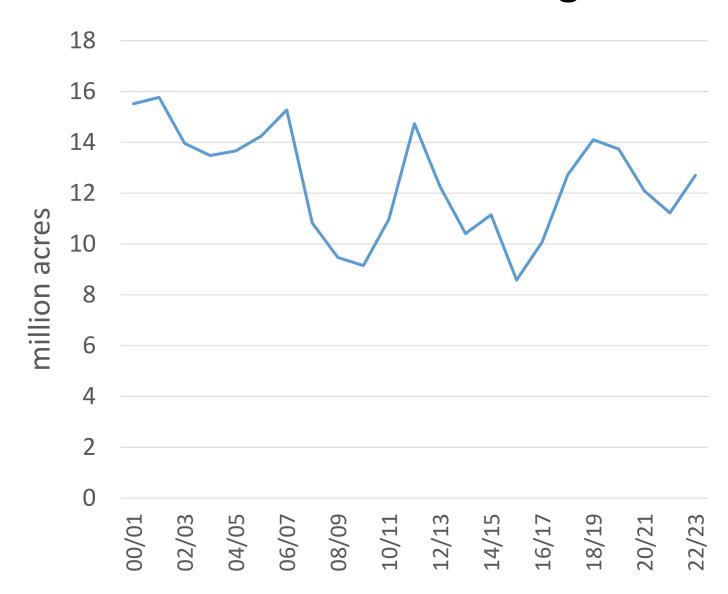
Figure 1.2-4: Intended Versus Actual Consumption of Total Renewable Fuel



Source: EPA Proposed Volume Standards for 2020, 2021, and 2022

- Cotton planted area rising with historically strong cotton prices.
- Cotton harvested area still a question given persistent dryness in some major cotton areas.

U.S. Cotton Planted Area Higher



Source: OCE-WAOB

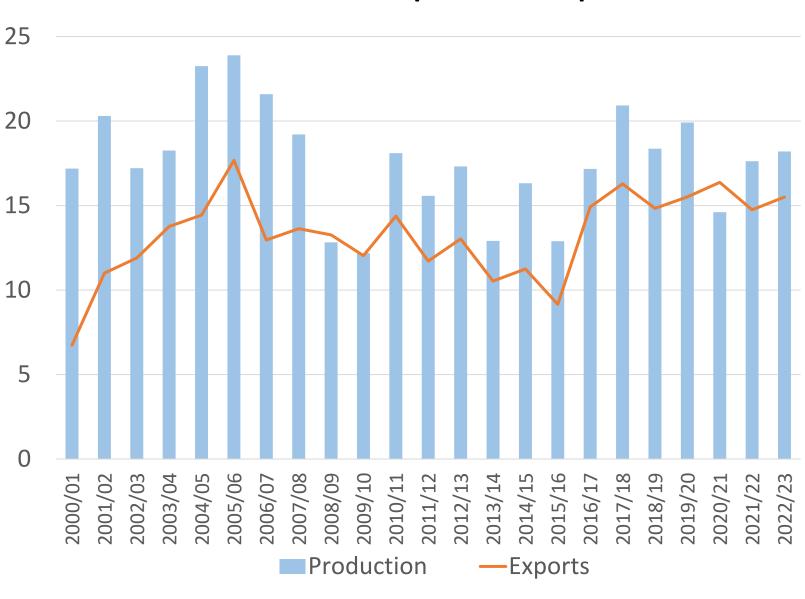
U.S. Cotton Crop and Exports

- Cotton stocks rose slightly last year as logistics problems slowed exports
- Cotton demand held up well in total and relative to other fibers in 2021

million bales

Despite the projected larger crop, carryout stocks essentially unchanged





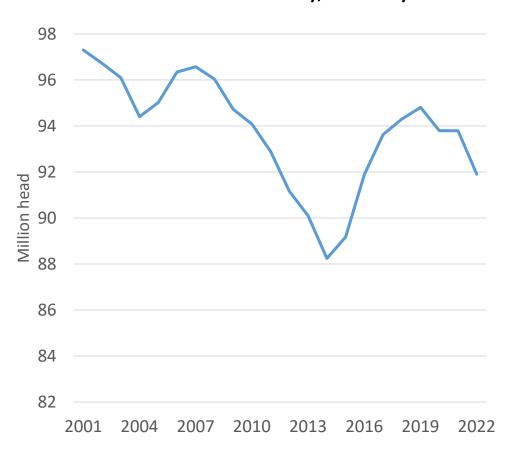
Livestock Prices

	2017	2018	2019	2020	2021	2022f
			dollars per h	undredweight		
Cattle	121.52	117.12	116.78	108.51	122.40	137.50
Hogs	50.48	45.93	47.95	43.18	67.29	65.00
			cents p	er pound		
Broilers	93.5	97.8	88.6	73.2	101.2	113
Turkeys	96.1	80.2	89.2	106.5	122.8	126
			cents p	er dozen		
Eggs	100.9	137.6	94.0	112.2	118.5	131

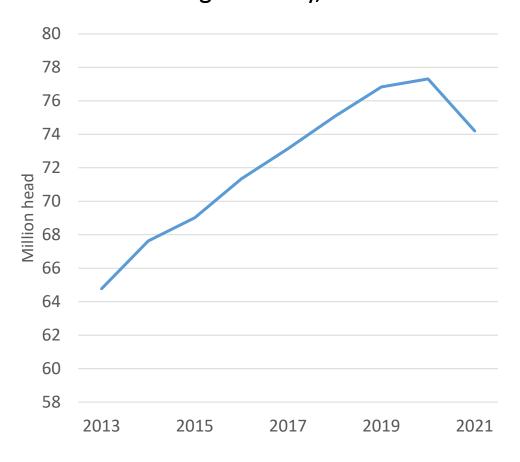
Source: OCE-WAOB

Smaller Livestock Inventories will Lead to Tighter Red Meat Supplies

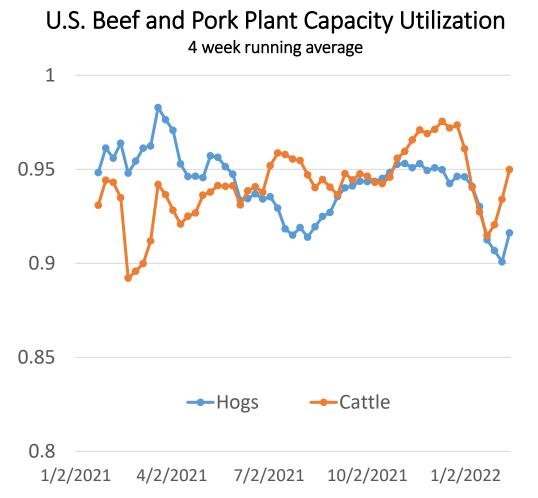
U.S. Cattle Inventory, January 1



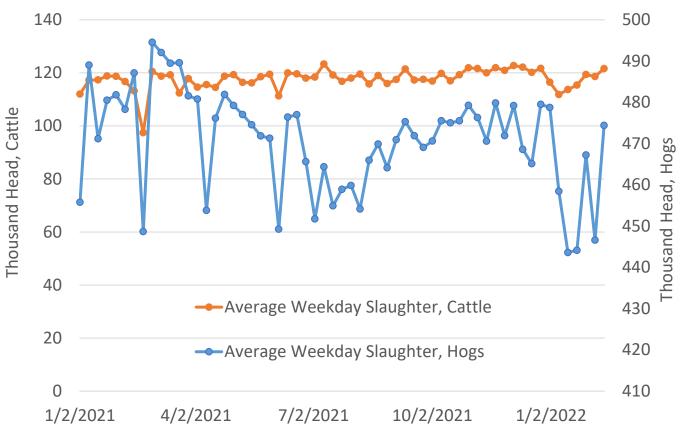
U.S. Hog Inventory, December 1



Beef and Pork Slaughter Rates Variable



Average Weekday Cattle and Hog Slaughter



Note: Excludes weekend operations. Adjusted to account for holiday operations.

Sources: USDA and National Pork Board

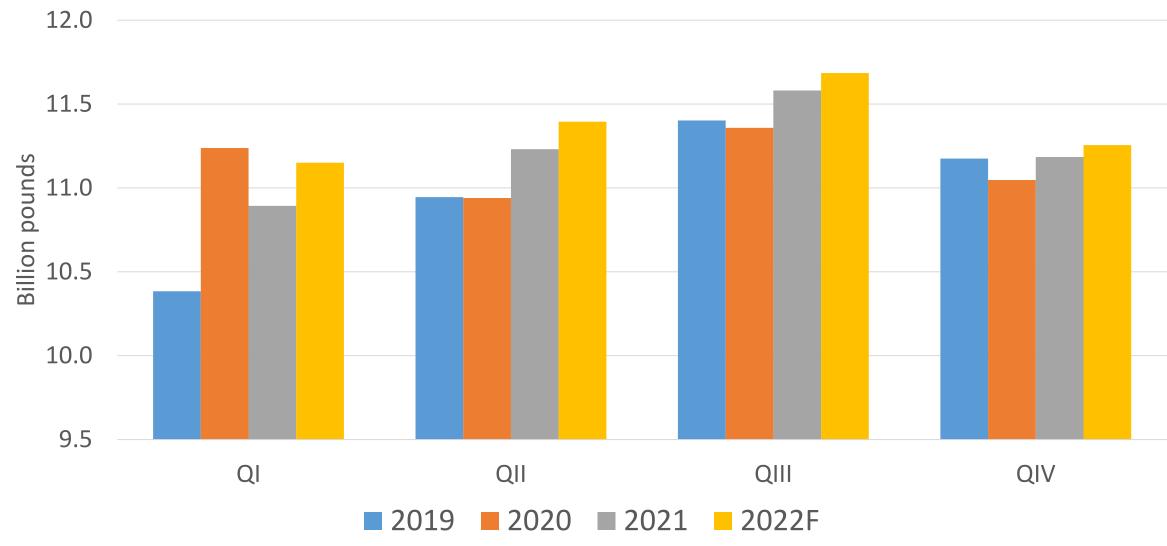
Greater Volatility in Wholesale Beef and Pork Prices than Retail

Wholesale and Retail Prices, Indexed (2020 Jan = 1)



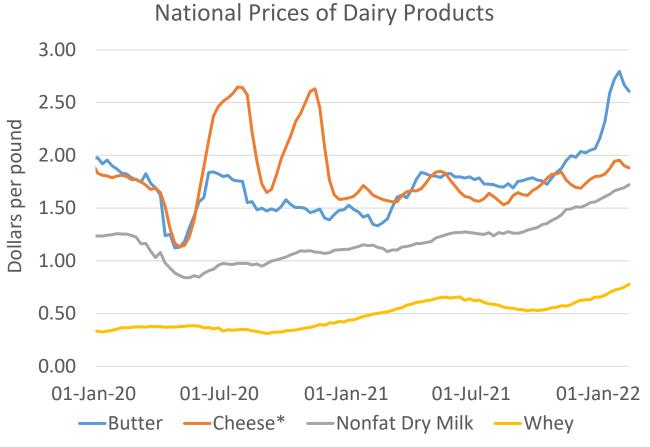
Source: Wholesale prices from Agricultural Marketing Service: *National Daily Boxed Beef Cutout And Boxed Beef Cuts (Afternoon), National Daily Pork Report FOB Plant (Afternoon).* Retail prices from *Choice beef values, pork values, ERS.*

Broiler Meat Expansion will be Modest



Source: USDA February WASDE

Dairy Product Prices Continue to Rise



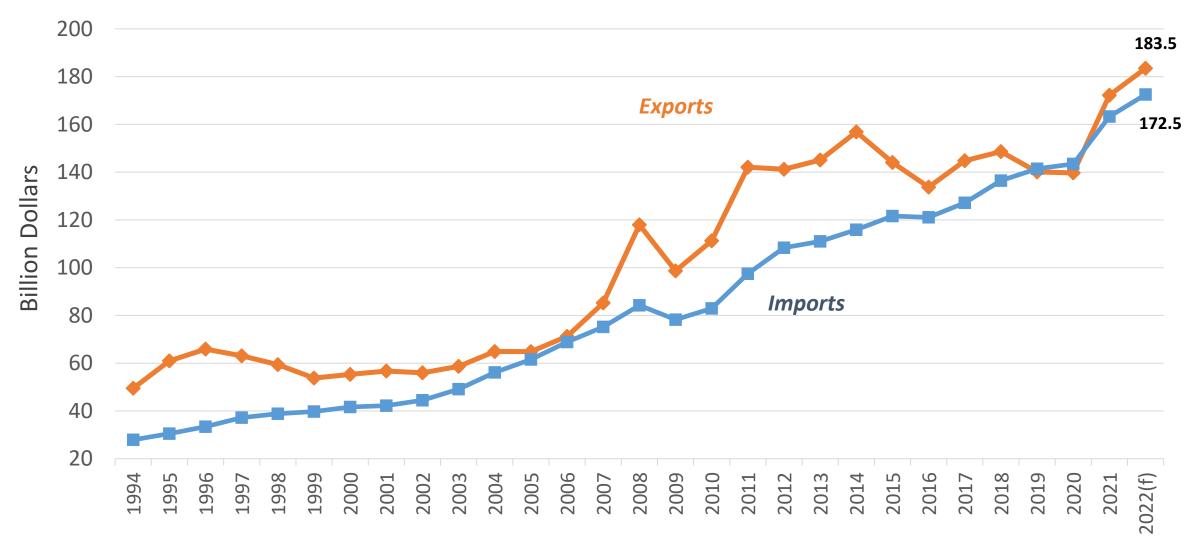
\$/lb	2020	2021	2022F
Butter	1.5808	1.7325	2.390
Cheese	1.9236	1.6755	1.900
Nonfat Dry Milk	1.0417	1.2693	1.665
Whey	0.3621	0.5744	0.705
All Milk	18.24	18.69	23.55

Source: OCE-WAOB 25

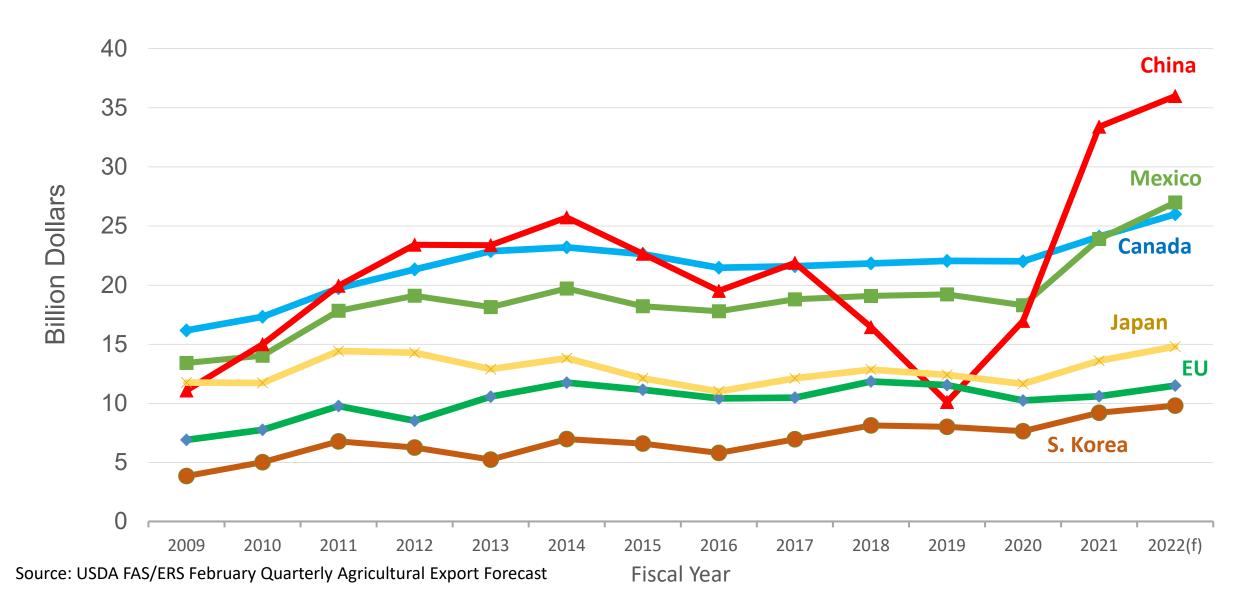
^{*}Weighted Average Blocks and Barrels

U.S. Agricultural Trade Situation

Exports at record \$183.5 Billion; Imports at record \$172.5 Billion

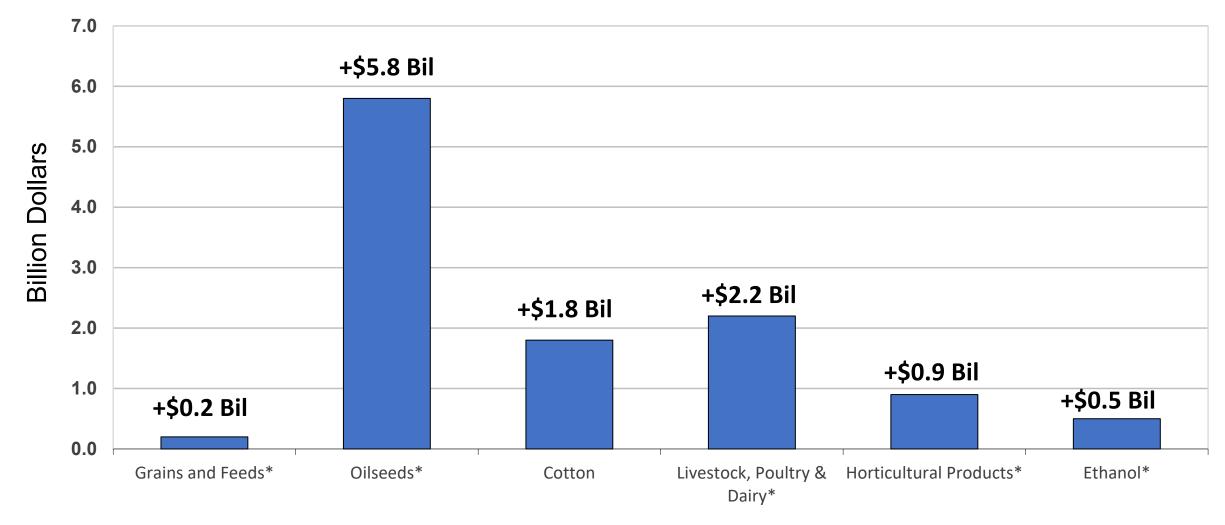


Top U.S. Ag Export Markets



FY2022 Export Forecast vs. FY2021

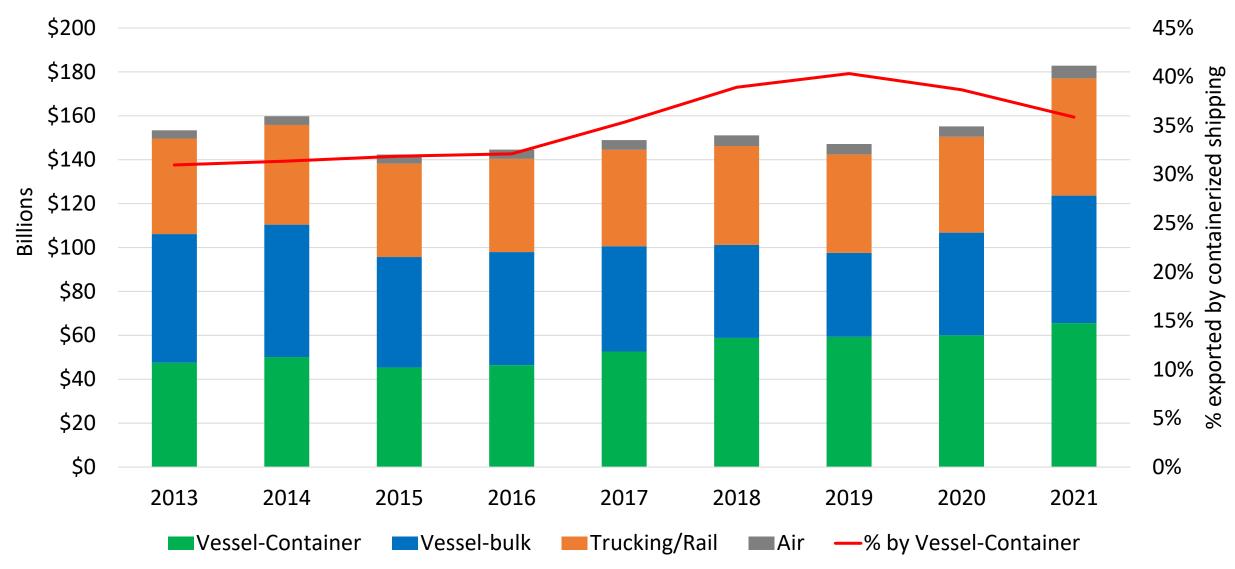
Soybeans lead export values higher on higher prices, not volumes



Source: USDA FAS/ERS February Quarterly Agricultural Export Forecast

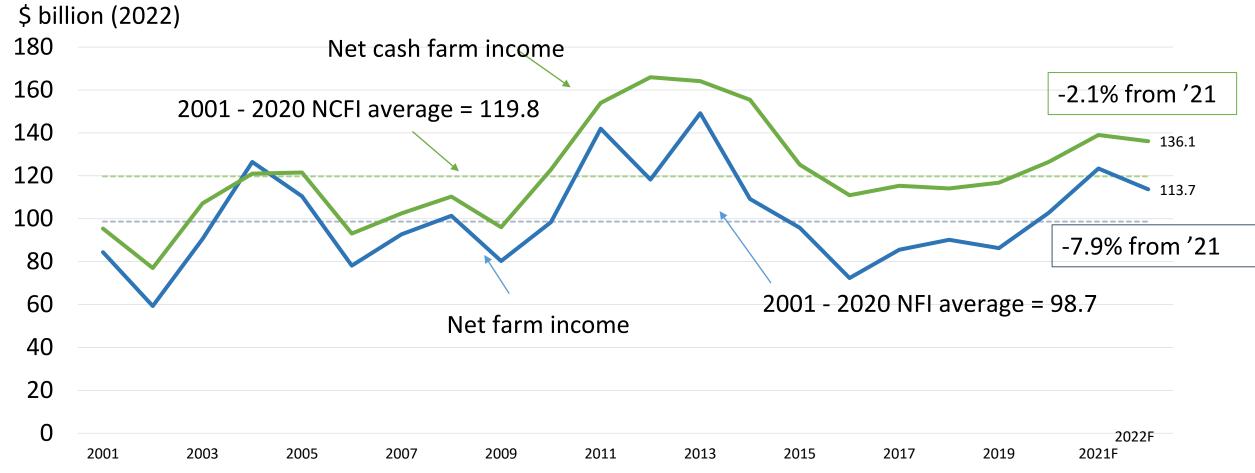
^{*} represents a record forecast value in FY2022

Value of U.S. Agricultural Exports by Mode



Data: TDM

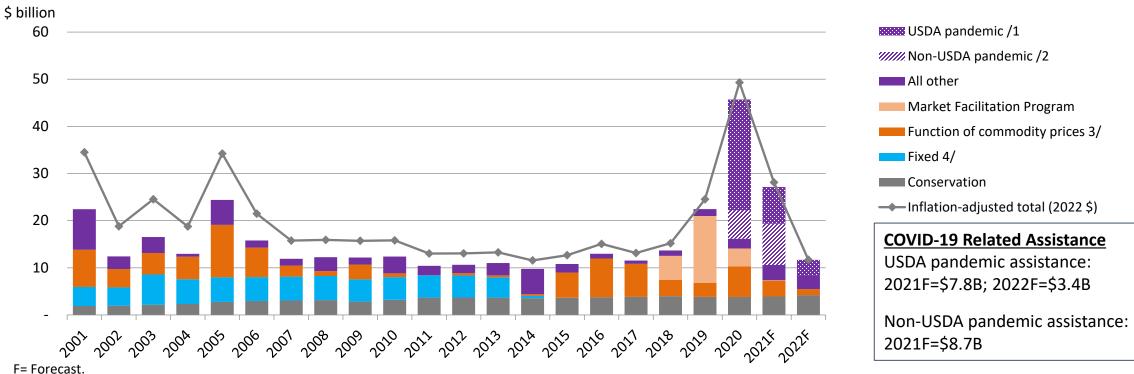
Farm Sector Profits Expected to Remain Above 20-year Average in 2021-22



F= Forecast. Values are adjusted for inflation using the U.S. Bureau of Economic Analysis Gross Domestic Product Price Index (BEA API series code: A191RG) rebased to 2022 by USDA, Economic Research Service.

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics Data as of February 4, 2022.

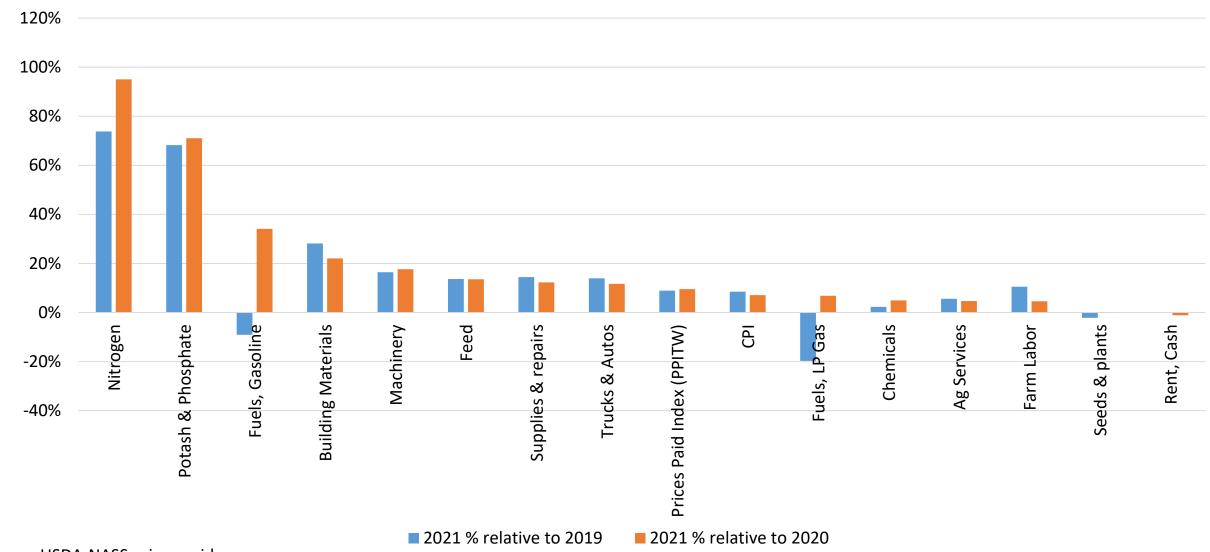
Total Direct Government Payments to Farmers Expected to Decline in 2022



- 1/ Includes payments from the Coronavirus Food Assistance Program and other USDA pandemic assistance for producers.
- 2/ Includes loans from the Small Business Adminstration's Paycheck Protection Program.
- 3/ Includes counter-cyclical payments, average crop revenue election (ACRE) payments, loan deficiency payments, marketing loan gains, certificate exchange gains, Price Loss Coverage (PLC), Agriculture Risk Coverage (ARC), and dairy payments in which commodity payment rates vary with market prices.
- 4/ Fixed payments are through 2013 and cotton transition payments in 2014 whereby payment rates are fixed by legislation.

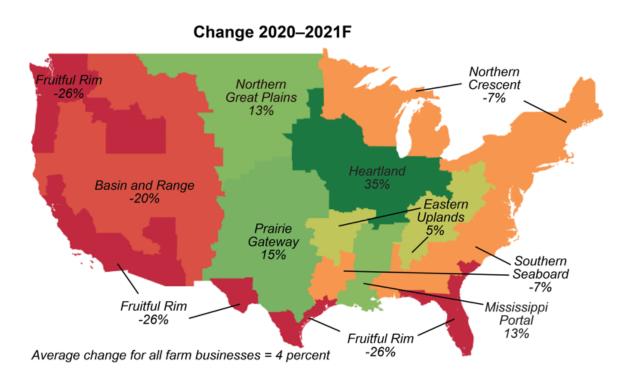
Source: USDA, Economic Research Service, Farm Income and Wealth Statistics (using data from FSA, NRCS, CCC, and SBA) Data as of February 4, 2022.

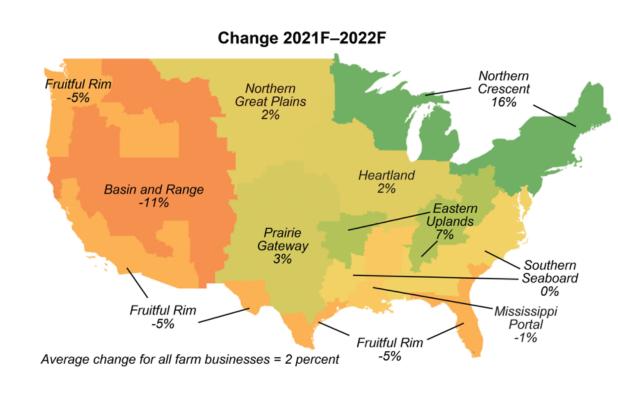
2021 Changes in Input Prices Paid by Farmers relative to Dec 2019 and Dec 2020



Source: USDA-NASS prices paid

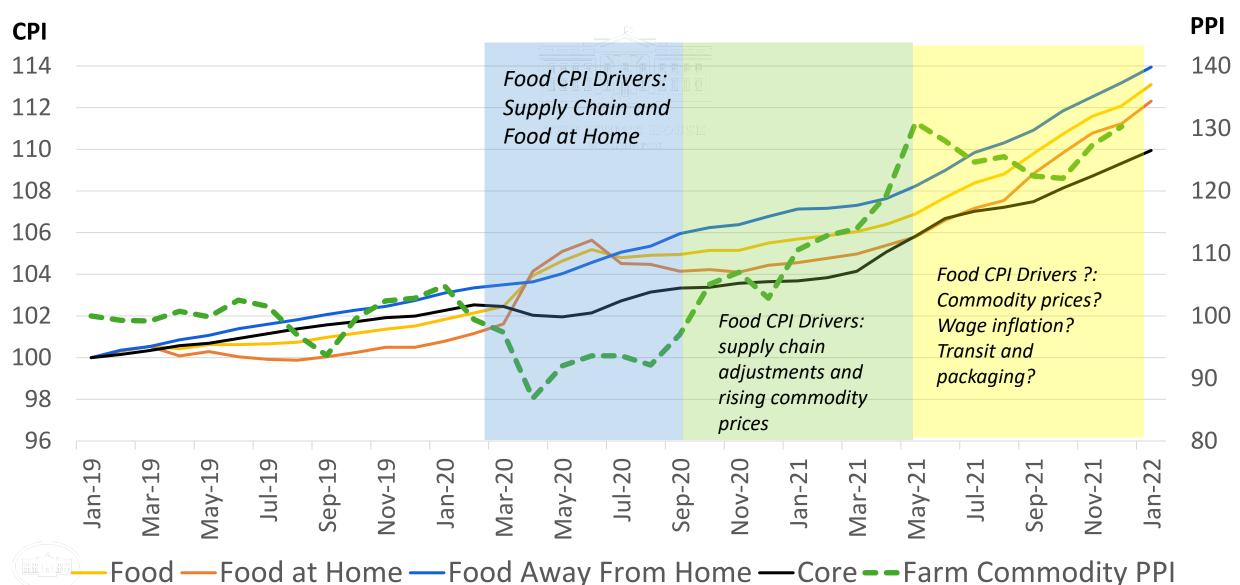
Changes in Net Cash Income for Farm Businesses Vary Significantly by Region





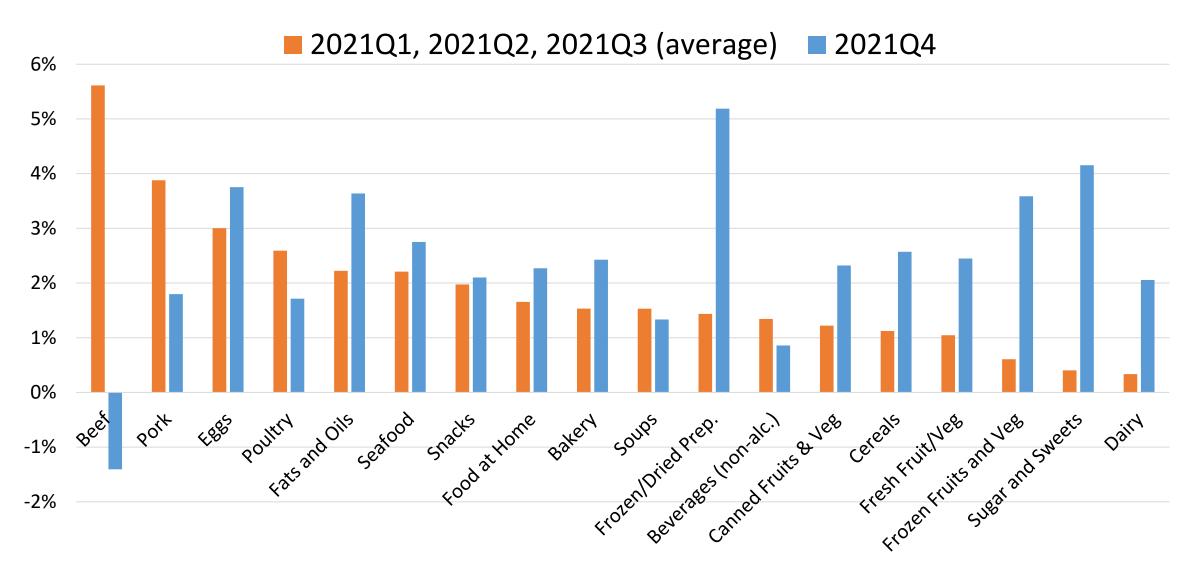
Source: USDA, Economic Research Service, Farm Income and Wealth Statistics

Supply Chain Disruptions, Rising Commodity Prices, General CPI?



Data: BLS

Inflation Broadening Out 2021 Food Retail Price Quarterly Changes: first 3 quarters vs last quarter



Data: BLS

Outlook is Positive - Uncertainties Remain

- Prospects for crops supported by solid domestic demand and continued strong exports
- Livestock outlook supported by continued strong domestic demand and supportive exports
- Farm income forecast to fall as higher crop and livestock receipts do not offset rising input costs and lower government payments, but remains above average.
- Supply chain disruptions, labor availability and logistics/trucking remain important factors
- Trade with China important for ag markets
- Improved outlook for milk producers on strong product prices
- Russian incursions in Ukraine's Luhansk and Donetsk Oblasts, or beyond, remain a key uncertainty
- Weather will have the last say on supplies



Questions? Seth.Meyer@usda.gov

