Utah Agriculture Outlook Stakeholder Webinar

Monday December 19, 2022 11:30 am to 1 pm MT

Zoom Registration: https://usu-

edu.zoom.us/meeting/register/tZ0rceqqpjstGdJhXLPngQ3AJr BydkDwtAW

After registering, you will receive a confirmation email containing information about joining the meeting.

Agenda

- 1. Volatility in Agricultural Markets: Impacts and Opportunities
 Malieka Bordigioni, Research Manager, FAPRI at the University of Nevada, Reno
- 2. Utah Urban and Small Farms Conference Update
 Ruby Ward, Extension Entrepreneurship & Taxation Specialist, Utah State University
- 3. Inflation in 2022: Impacts on Consumer and Input Pricing
 Kynda Curtis, Extension Agriculture & Food Marketing Specialist, Utah State University

Description

This two-hour webinar hosted by USU Extension Economics will cover 2022 agricultural market volatility, including political and weather-related events, as well as impacts on western US commodity markets. An update on the upcoming Utah Urban and Small Farms conference will be provided. That event will be held in February 2023. Finally, we will discuss inflation in 2022 and its impacts both consumer and producer input pricing.

The agriculture outlook is targeted at agricultural stakeholders in Utah including, but not limited to, state and federal agency representatives, farmer and rancher groups, farm financial institutions, tribal government representatives, and Extension personnel. There will be time after each presentation for questions and discussion.

Materials from previous Agriculture Outlook webinars can be found at: https://extension.usu.edu/apec/ag-outlook-webinar



Utah Agriculture Outlook Stakeholder Webinar

11:30am to 1pm

USU Extension Economics

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UtahStateUniversity

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- Utah Urban and Small Farms Conference Update
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Program Evaluation Survey

Please respond to our Ag Outlook evaluation survey.... Thank you!

- https://usu.co1.qualtrics.com/jfe/form/SV_9Z8uLVv0 qjJs9Js
- USU Extension Applied Economics website
 - https://extension.usu.edu/apec/

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Thank you!

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Volatility in Agricultural Markets: Impacts and Opportunities December 19, 2022



University of Nevada, Reno

University of Nevada, Reno
Nevada Agricultural Experiment Station
College of Agriculture, Biotechnology, and Natural Resources
Malieka Bordigioni
maliekal@unr.edu

What's Going On in Ag?

- ► Global volatility, but some improvement
- War in Ukraine
 - Loss of lives, millions of refugees, and volatile geopolitics
 - Loss of global supply from Ukraine and Russia:
 - ▶ Wheat, corn, sunflower complex (food, feed, fuel, seed)
 - ► Crude oil, natural gas, fertilizer
- Adverse weather
 - ► Transportation
 - Production
- Protracted supply chain inefficiencies
 - Droughts and floods
 - Inflation
 - Still lingering.....COVID-19
 - Efficiency / resiliency trade-off
 - China zero-COVID policy

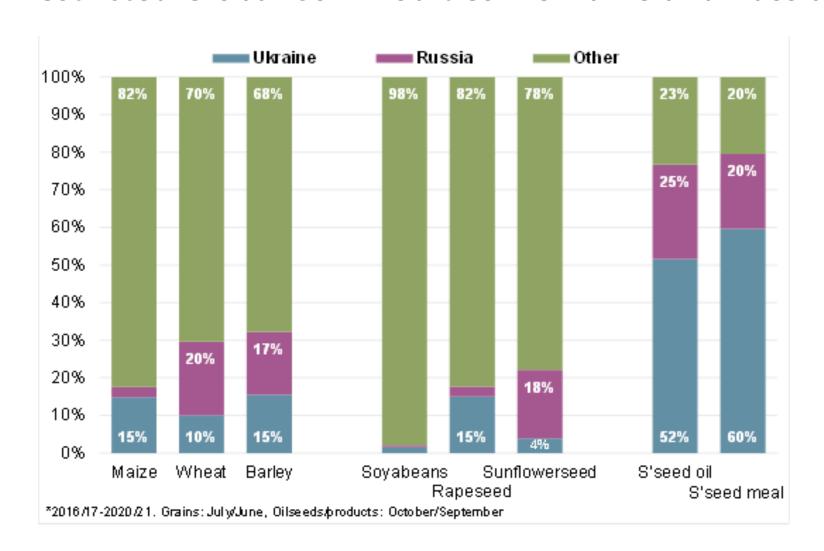


Ag Supply Challenges

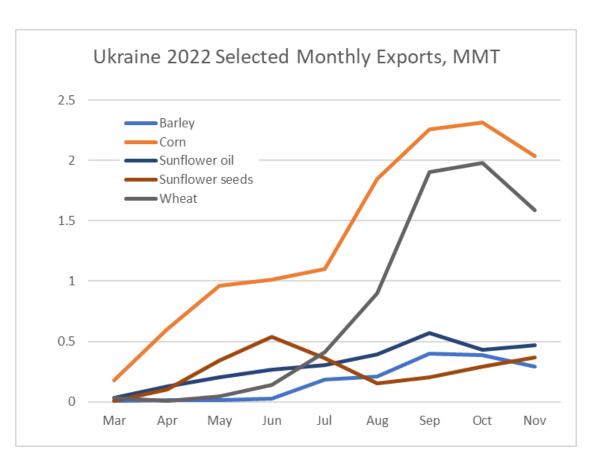
- Restricted global ag commodity supply:
 - ► Volatility global, impacts/challenges vary by country
 - ▶ Ukraine 2022/23 production estimated down 35%-60%
 - Black Sea Grain Export Deal
 - ► Barley+Corn+Wheat+Sunseed+Sunoil 19 MMT shipped Aug22-Nov22
 - ▶ YOY decrease of ~30% or more
 - ▶ 120 day extension beginning late Nov22
 - High input costs
 - ► Energy cost as driver
 - ► Many off-peak, but still very high historically
 - Consecutive years of weather-related production volatility across the globe
 - ► Impacts to production
 - ► Impacts to transportation

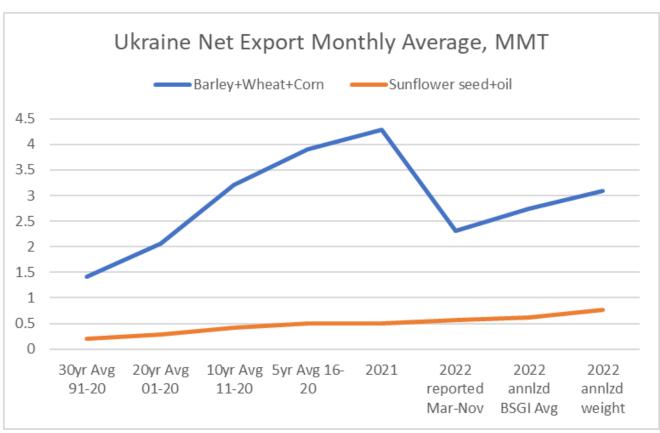


Restricted Global Commodities – Ukraine and Russia



Black Sea Grain Initiative Has Aided Ukraine Exports During War, but Include Crops Produced Prior to Invasion



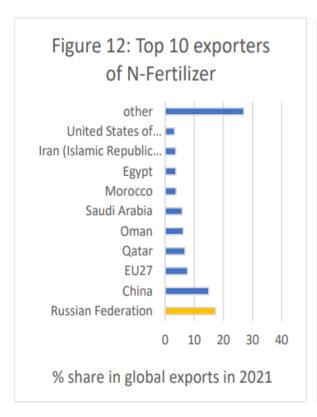


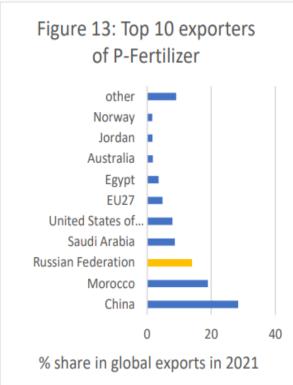
Source: https://public.tableau.com/app/profile/fsuw/viz/ENGExportofAgriproducts/Dashboard1

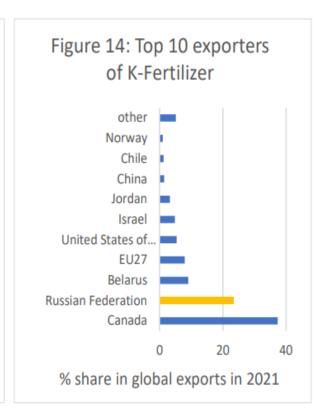
https://apps.fas.usda.gov/psdonline/app/index.html#/app/home



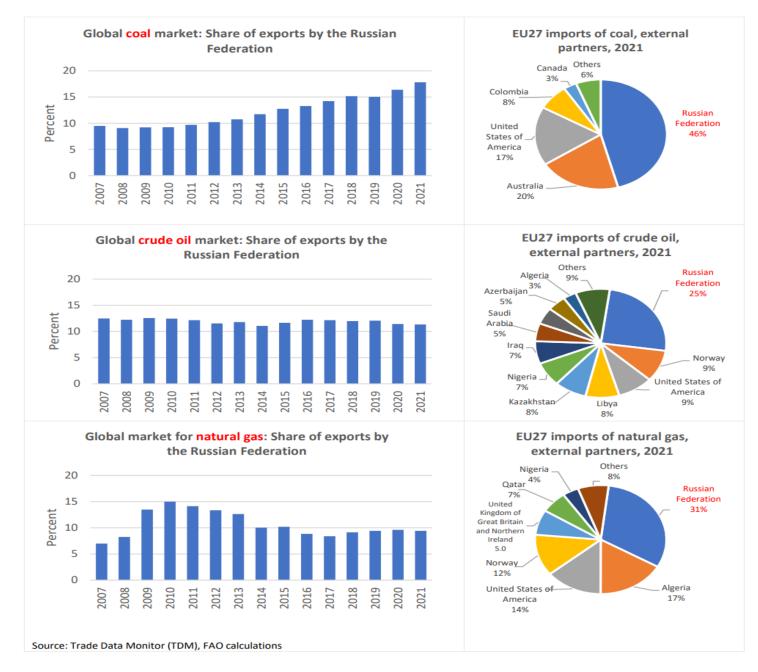
Russia is Major Global Exporter of Fertilizers



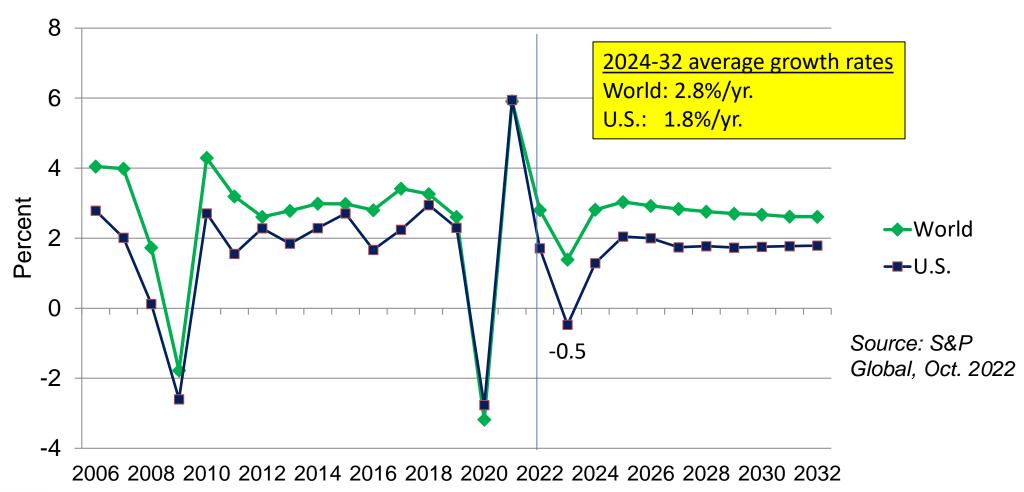




EU27
Dependence
on Russian
Energy
Sources Will
Have a Major
Impact on
Global Energy
Prices



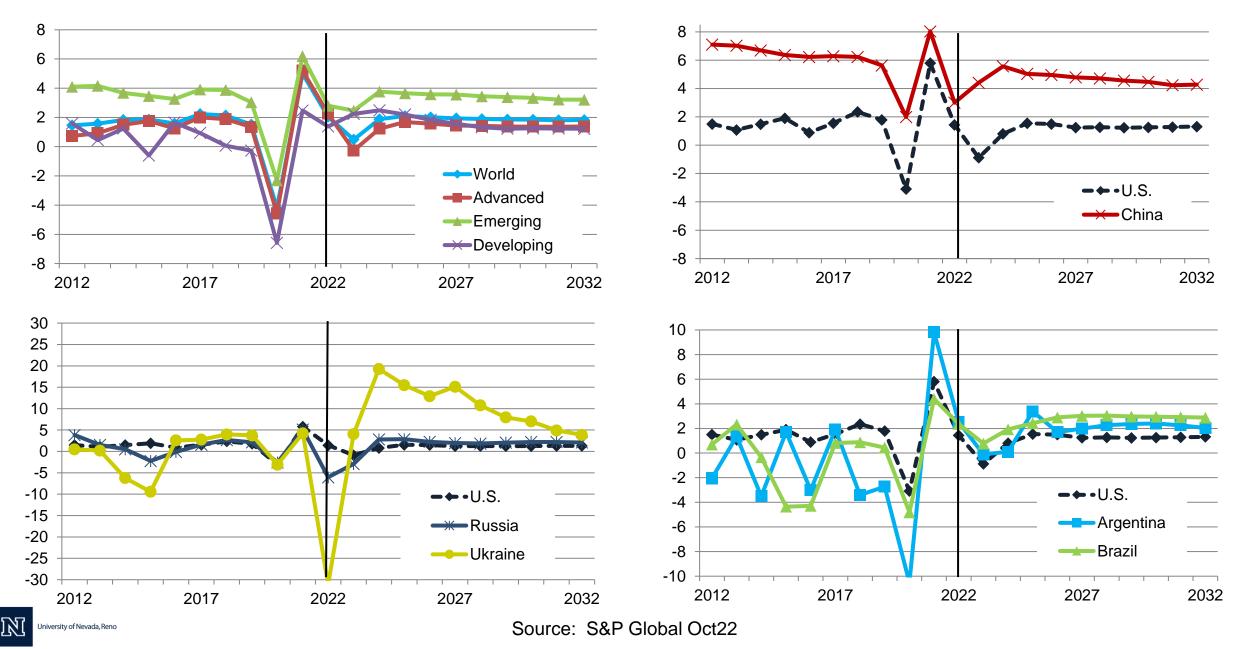
U.S. and world economic growth



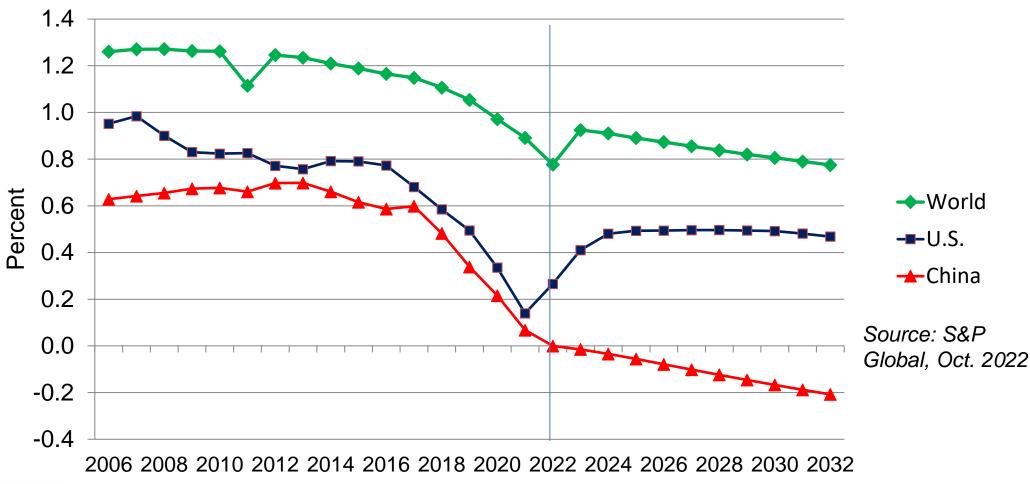


Near-term Recovery Trends Expected to Vary for Major Traders

Real GDP, % Change



U.S., China and world population growth rates



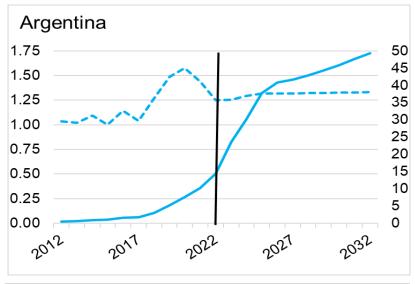


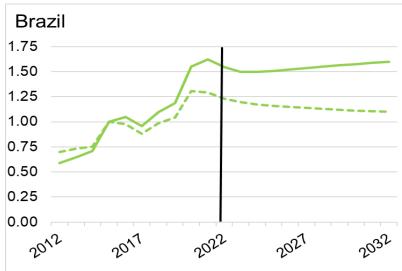
Exchange Rates of Major Traders

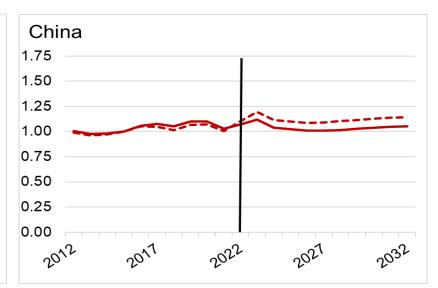
Exchange Rate Index 2015=100; GDPD 2015=100;

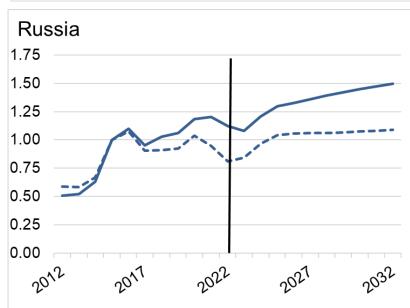
Nominal----

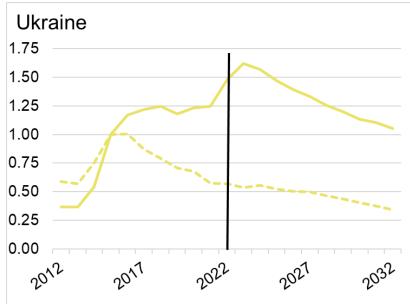
Real----

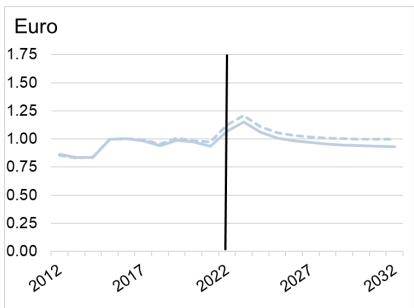










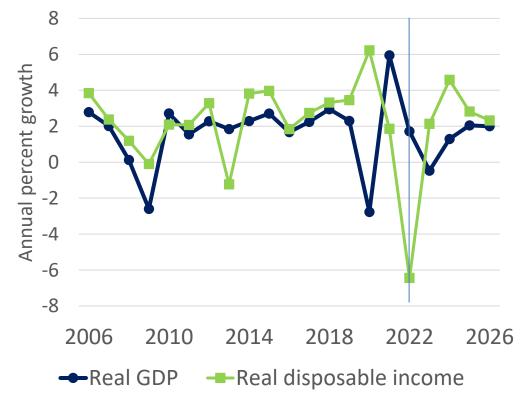


Source: S&P Global Oct22

U.S. real GDP and real disposable income

- Real GDP and disposable income have diverged since Covid hit
 - Real GDP fell sharply in 2020, then recovered in 2021
 - Real disposable income actually increased in 2020 because of gov't transfers; grew more slowly in 2021 and fell in 2022 as special programs were phased out
 - In 2023, S&P projects a 0.5% reduction in real GDP, with growth resuming by the 3rd quarter



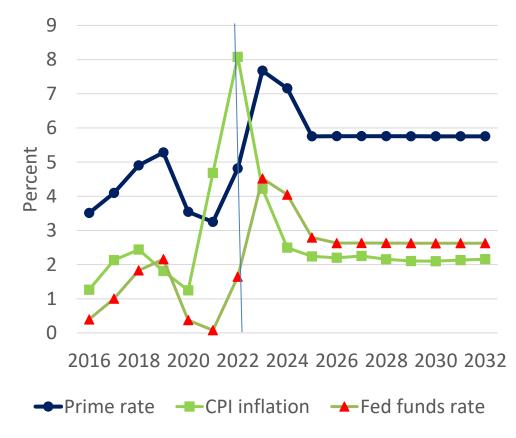


Source: S&P Global, Oct. 2022



U.S. interest and inflation rates

- U.S. inflation has spiked, projected to avg. 8.1% in 2022
 - 7.7% year over year in October
- Fed is raising interest rates; S&P projects fed funds rate to reach
 4.6% by Q2 2023
- S&P projects inflation to fall sharply—below 3% by end of 2023





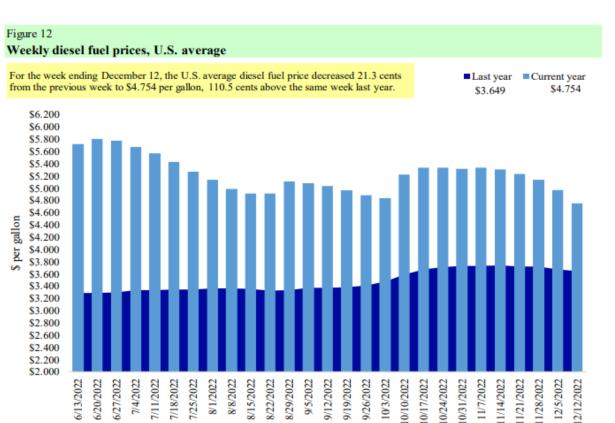
Weekly Retail Gasoline and Diesel Prices



Data source: U.S. Energy Information Administration



Off-peak, but Still Near Record Prices



0/17/2022

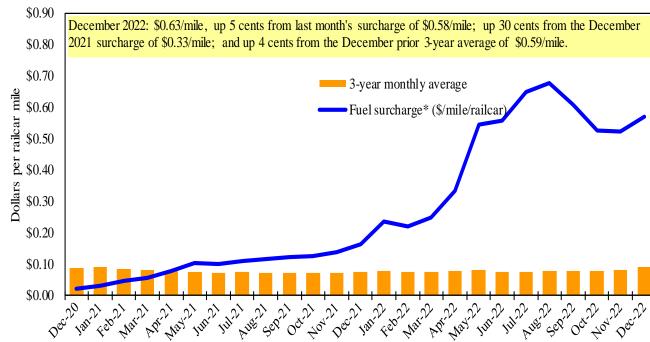
1/14/2022

Note: On June 13, the Energy Information Administration implemented a new methodology to estimate weekly on-highway diesel fuel prices.

Source: U.S. Department of Energy, Energy Information Administration, Retail On-Highway Diesel Prices.

Source: https://www.ams.usda.gov/sites/default/files/media/GTR12152022.pdf





¹ Weighted by each Class I railroad's proportion of grain traffic for the prior year.

Sources: BNSF Railway, Canadian National Railway, CSX Transportation, Canadian Pacific Railway, Union Pacific Railroad, Kansas City Southern Railway, Norfolk Southern Corporation.

^{*} Beginning January 2009, the Canadian Pacific fuel surcharge is computed by a monthly average of the bi-weekly fuel surcharge.

^{**}CSX strike price changed from \$2.00/gal. to \$3.75/gal. starting January 1, 2015.

Cost of Fertilizer and Inputs Remains High Relative to Historic Averages

Figure 1. Fertilizer Prices per Ton in Illinois From 2020 to 2022 \$1,600 11/3/22 Prices \$1,429 \$1,400 Anhydrous Ammonia \$1,200 \$1,000 \$800 Potash \$600 \$400 \$200 Apr Apr Jul Oct Jan Oct Jan 2022 2020 2020 2021 2021 2021 2022 2022 2022 **I** ILLINOIS **farmdocDAILY** Source: US Department of Agriculture, Agricultural Marketing Service

Source: https://farmdocdaily.illinois.edu/2022/11/outlook-for-nitrogen-prices-in-spring-2023.html

CRU downstream and raw material fertilizer price index



DATA: CRU. NOTE: Key benchmark prices consolidated to trade weighted index.

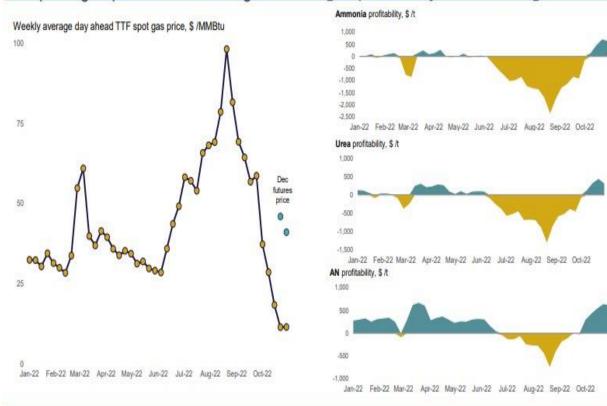
NOTE: Ammonia index adjusted from 14 April to exclude Black Sea price and trade weight and again on 28 April to exclude Baltic Sea price and trade weight

Source: Fertilizer Week Tweet 12/9/22

'Profitability Re-emerged'

Fertilizer Week Twitter **11/9/22** @FertilizerWeek1

European gas prices are tumbling, and nitrogen profitability has re-emerged...

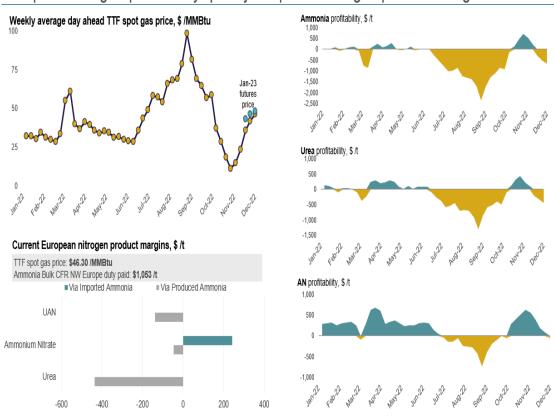




'Profitability Quickly Evaporates'

Fertilizer Week Twitter 12/6/22 @FertilizerWeek1

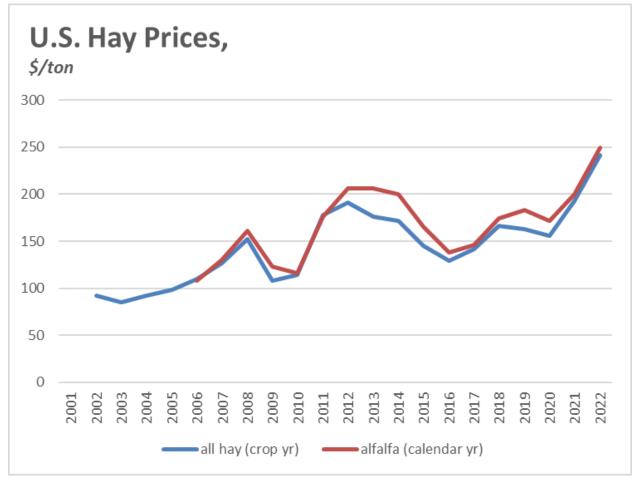
European nitrogen profitability quickly evaporates as gas prices rise again

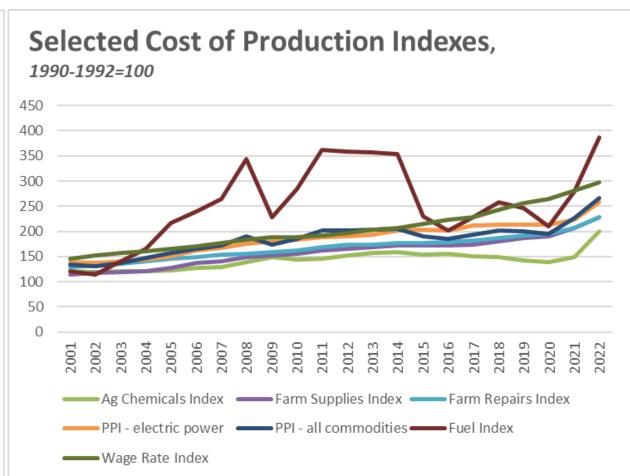


CRU Data: CRU, ICE

I, ICE

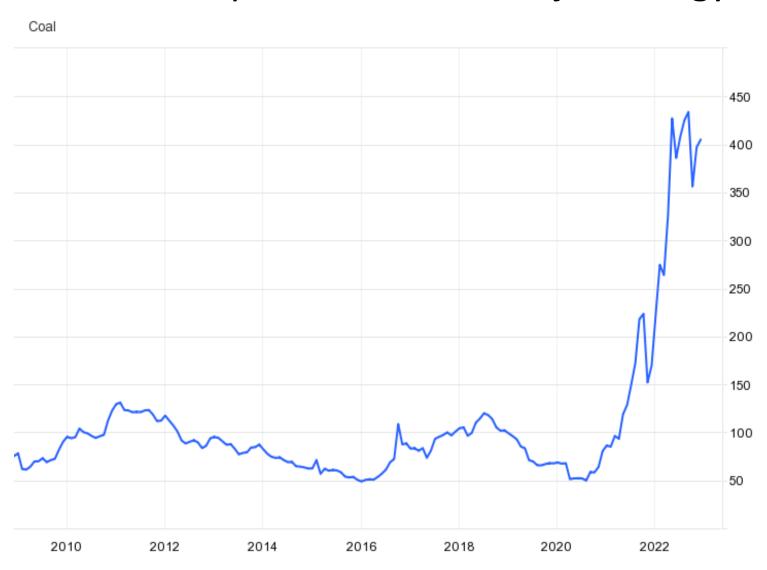
Ag Cost of Production Rising Steeply in Recent Years





https://usda.library.cornell.edu/concern/publications/c821gj76b

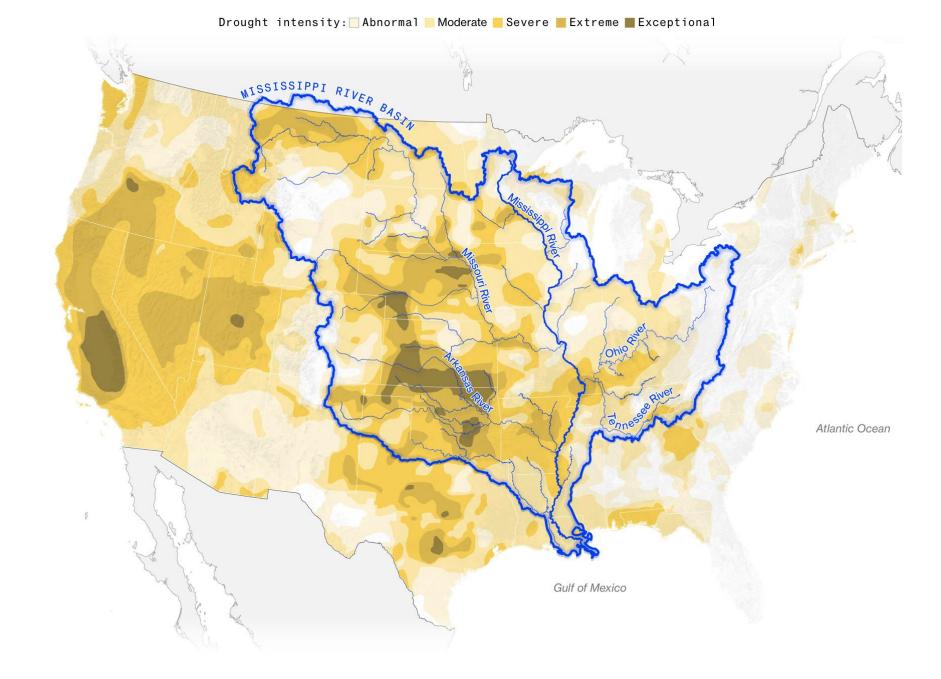
BTW...Coal Futures Largest YOY Price Increase Compared to Other Major Energy Commodities



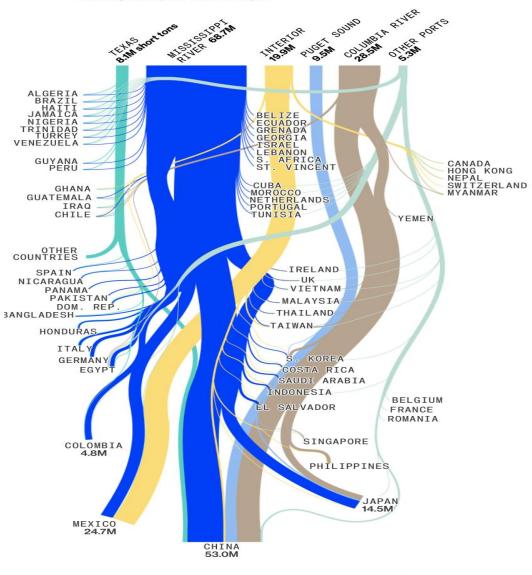
- Coal accounts for about half of total energy consumption in both China and India
- EU substitutes coal for NG
- Floods in Australia impact global exports

Adverse Weather Impacts

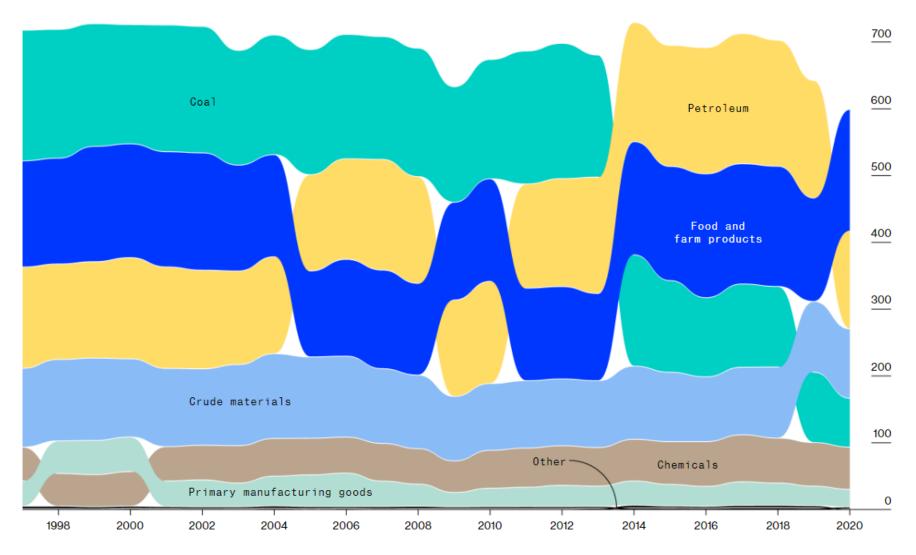
- Poor condition of US winter wheat
- Poor condition of US pasture and range
- ► Impacts to river transportation infrastructure
 - Mississippi
 - Rhine (Germany)
 - Yangtze (China)
 - ► Parana (Argentina, Brazil, Uruguay)



The Mississippi River Carries Most US Grain Shipments for Export Annual grain exports from US origins



Note: Grains include soybean, corn, wheat, sorghum, oats, sunflower, barley, canola and flaxseed. Data are for countries that imported more than 10,000 metric tons between Nov. 4, 2021 and Nov. 3, 2022. Other ports include California, Chicago, Duluth, N. Atlantic, S. Atlantic, East Gulf, Lake Ontario and Toledo. Interior shipments include inspections conducted somewhere other than at an ocean port — typically land-based shipments to Mexico and Canada, as well as container shipments abroad. Source: US Department of Agriculture Federal Grain Inspections



Source: US Army Corps of Engineers' Waterborne Commerce Statistics Center



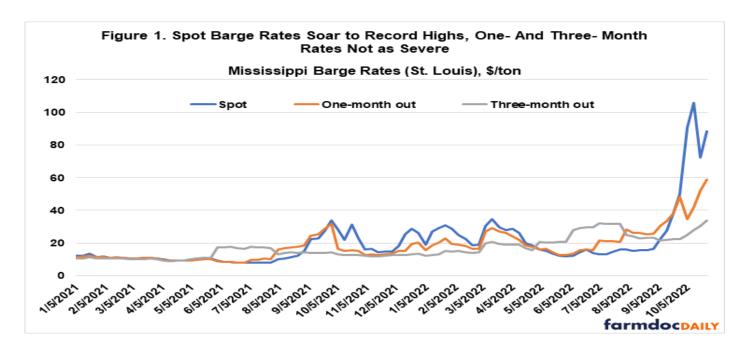
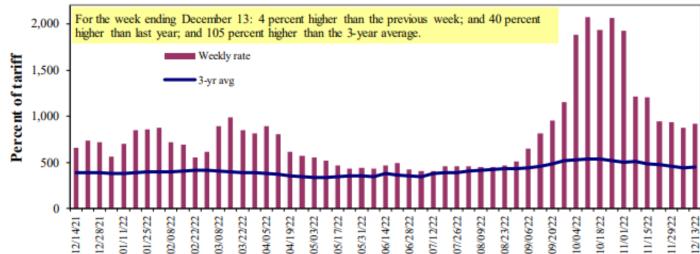


Figure 7

Illinois River barge freight rate^{1,2}



¹Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); ²4-week moving average of the 3-year average.

Very good article:

https://farmdocdaily.illinois.edu/2022/11/low-mississippi-river-barge-disruptions-effects-on-grain-barge-movement-basis-and-fertilizer-prices.html

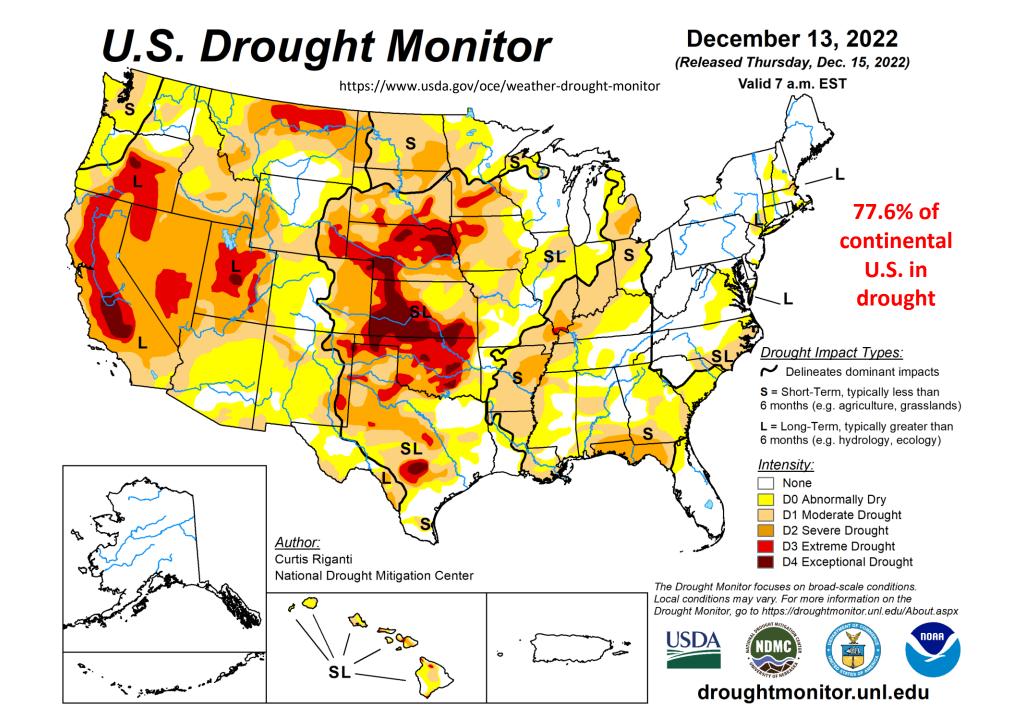
- U.S. barge rates closely linked
- Oct22 peak approximately 5X simple average downbound grain barges 7 rivers 2004-2022
- Dec22 to-date 2X simple average downbound grain barges 7 rivers 2004-2022

¹Rate = percent of 1976 tariff benchmark index (1976 = 100 percent); ²4-week moving average of the 3-year average.



^{*}Source: USDA, Agricultural Marketing Service.

^{*}Source: USDA, Agricultural Marketing Service.



U.S. Drought Monitor West

December 13, 2022

(Released Thursday, Dec. 15, 2022)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	8.66	91.34	64.99	44.15	14.18	1.28
Last Week 12-06-2022	7.93	92.07	66.64	45.25	16.00	2.02
3 Month's Ago 09-13-2022	8.72	91.28	71.36	49.03	18.16	2.63
Start of Calendar Year 01-04-2022	3.68	96.32	89.29	64.90	23.85	3.94
Start of Water Year 09-27-2022	3.89	96.11	73.90	47.71	19.37	2.63
One Year Ago 12-14-2021	2.32	97.68	94.47	75.66	43.54	11.55

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought
D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Curtis Riganti National Drought Mitigation Center



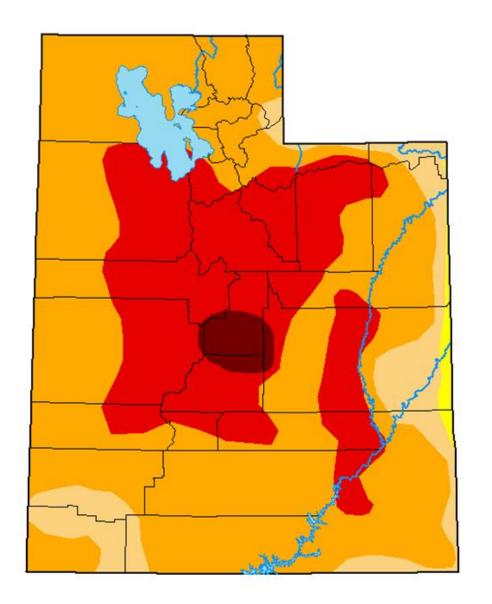






droughtmonitor.unl.edu

U.S. Drought Monitor Utah



December 13, 2022

(Released Thursday, Dec. 15, 2022)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.10	89.61	31.11	1.91
Last Week 12-06-2022	0.00	100.00	99.10	89.61	36.84	1.91
3 Month's Ago 09-13-2022	0.00	100.00	100.00	95.80	56.64	3.63
Start of Calendar Year 01-04-2022	0.00	100.00	100.00	93.70	34.01	0.00
Start of Water Year 09-27-2022	0.00	100.00	100.00	95.73	56.39	3.63
One Year Ago 12-14-2021	0.00	100.00	100.00	99.52	78.71	0.07

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought
D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Curtis Riganti National Drought Mitigation Center





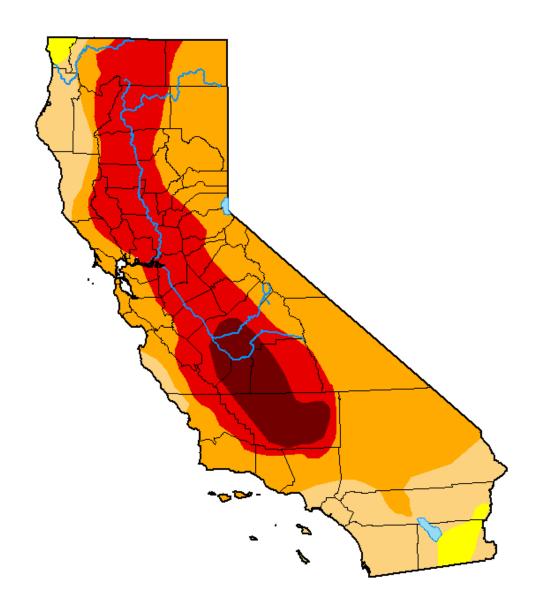




droughtmonitor.unl.edu

U.S. Drought Monitor

California



December 13, 2022

(Released Thursday, Dec. 15, 2022)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	97.94	80.56	35.50	7.16
Last Week 12-06-2022	0.00	100.00	99.48	84.97	40.08	12.73
3 Month's Ago 09-13-2022	0.00	100.00	99.76	94.06	40.91	16.57
Start of Calendar Year 01-04-2022	0.00	100.00	99.30	67.62	16.60	0.84
Start of Water Year 09-27-2022	0.00	100.00	99.76	94.01	40.91	16.57
One Year Ago 12-14-2021	0.00	100.00	100.00	92.43	80.28	28.27

Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought
D4 Exceptional Drought

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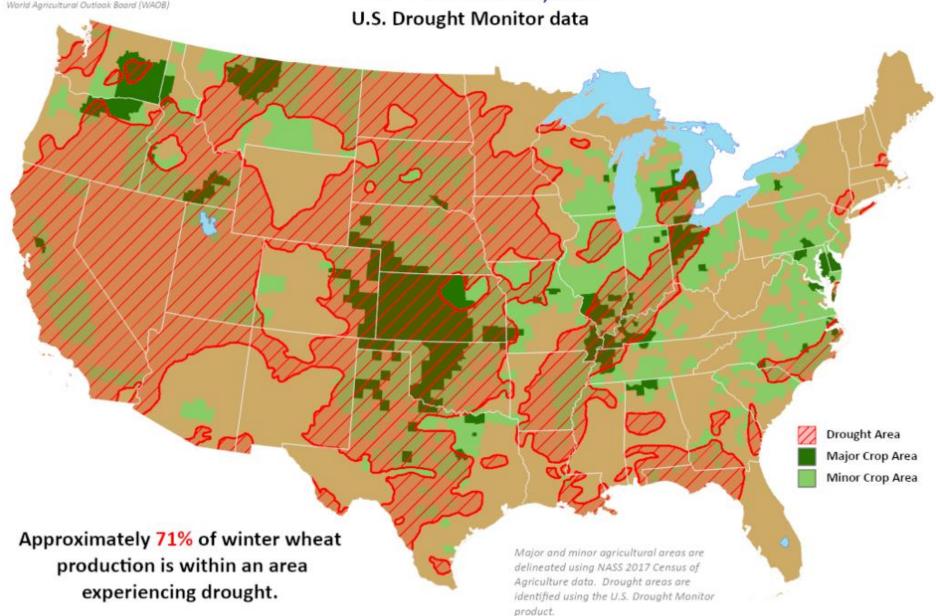
droughtmonitor.unl.edu

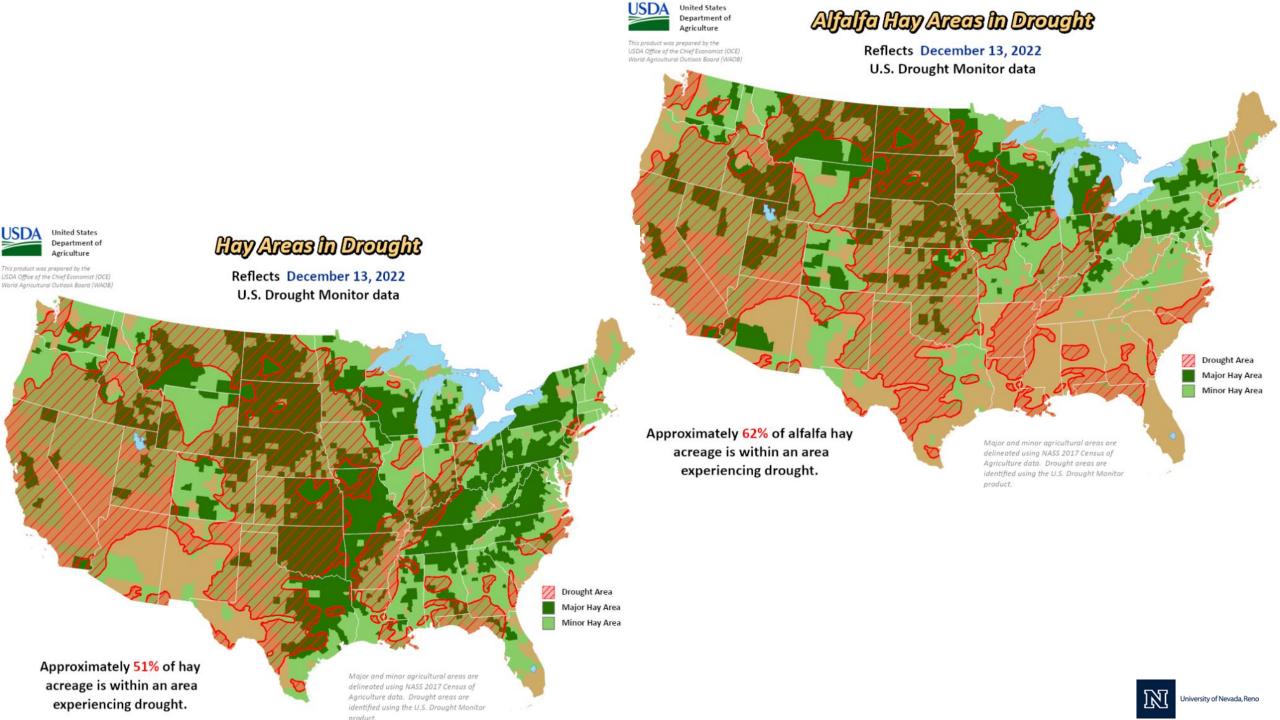
United States Department of Agriculture

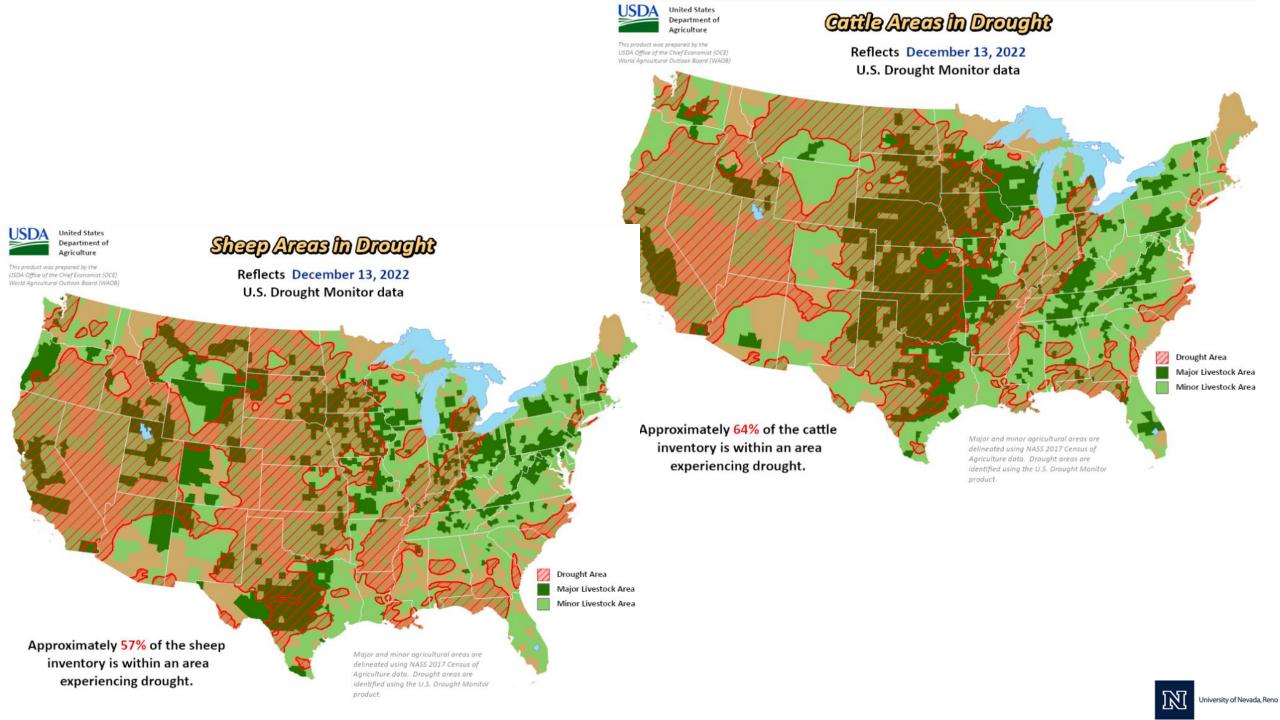
Winter Wheat Areas in Drought

This product was prepared by the USDA Office of the Chief Economist (OCE) World Agricultural Outlook Board (WAOB)

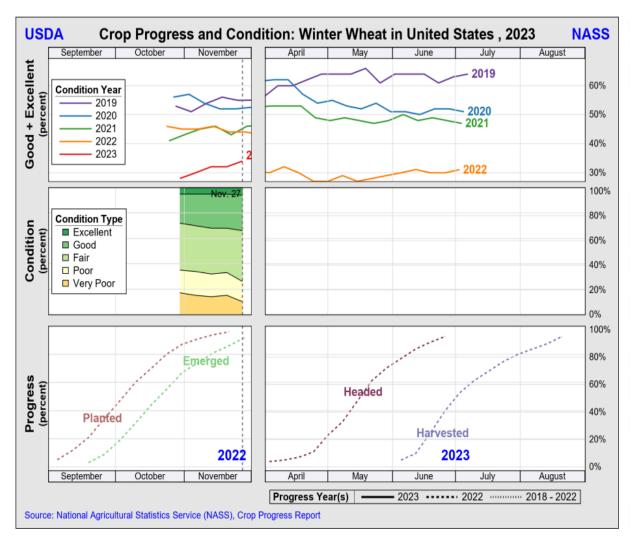
Reflects December 13, 2022

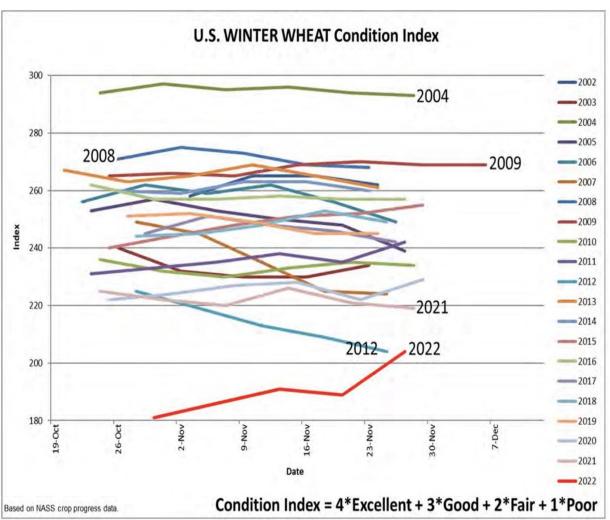






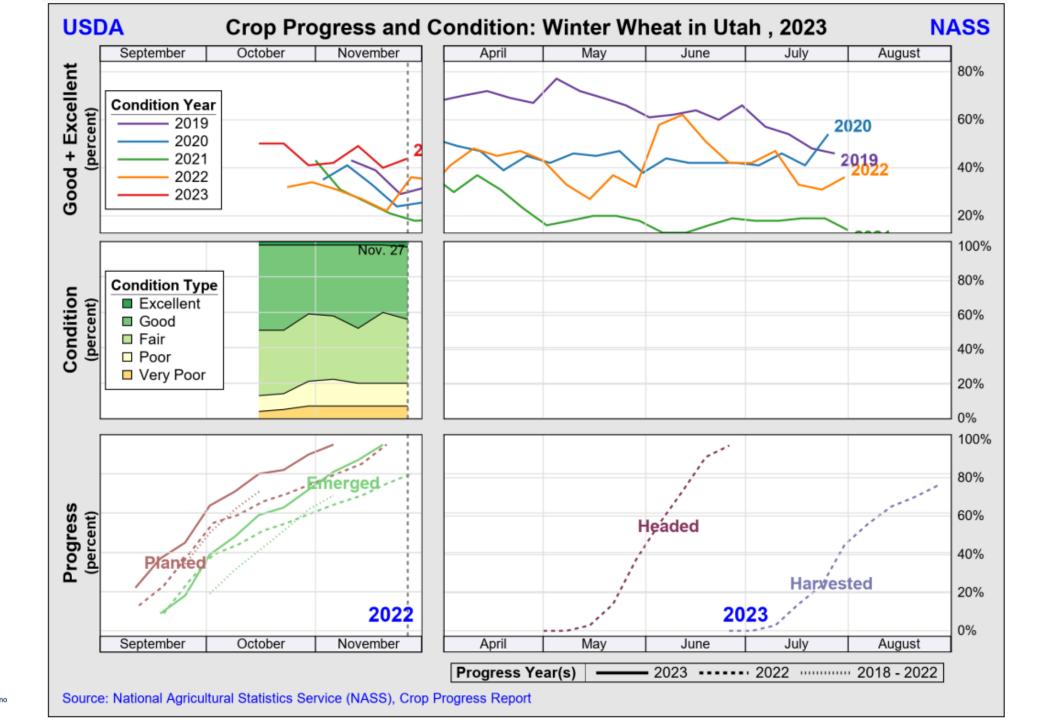
Wheat Condition Worst in 2000's – Some Improvement – Good Spring Weather Matters



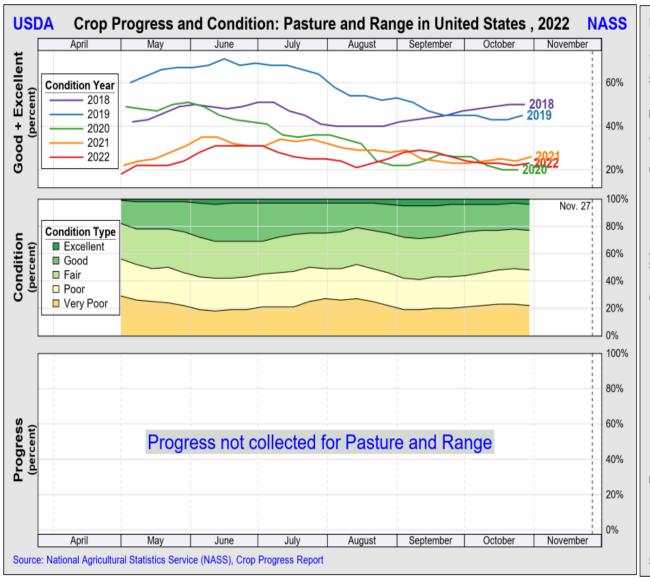


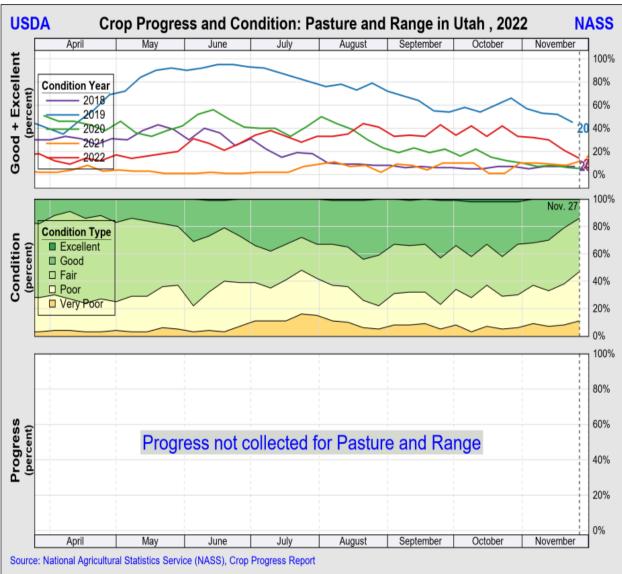
https://www.nass.usda.gov/Charts_and_Maps/Crop_Progress_&_Condition/2023/US_2023.pdf

https://www.usda.gov/sites/default/files/documents/wwcb.pdf 12/6/22



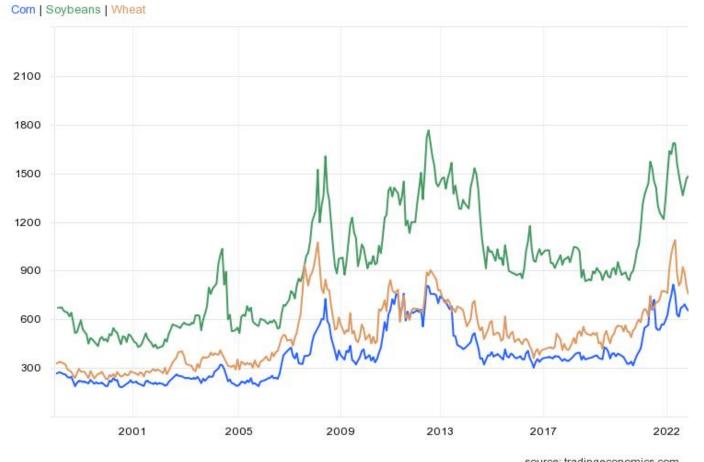
Utah Pasture and Range Condition Slightly Better Than National Average Across 2022



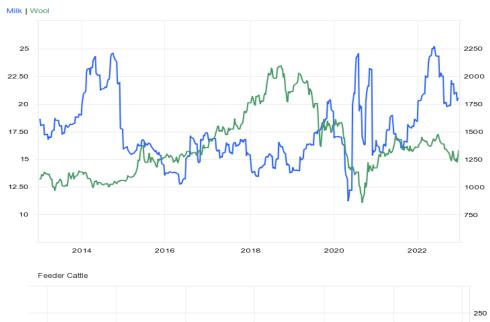


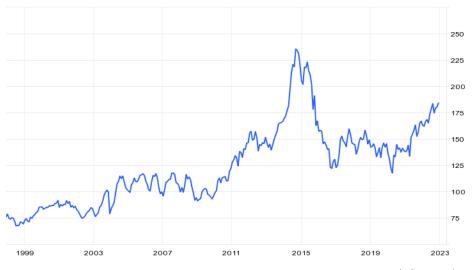
Futures Markets Reflect Expectations About Supply (Production, Conflict) &

Production (Weather, Conflict, Demand)



source: tradingeconomics.com Accessed 12/18/22





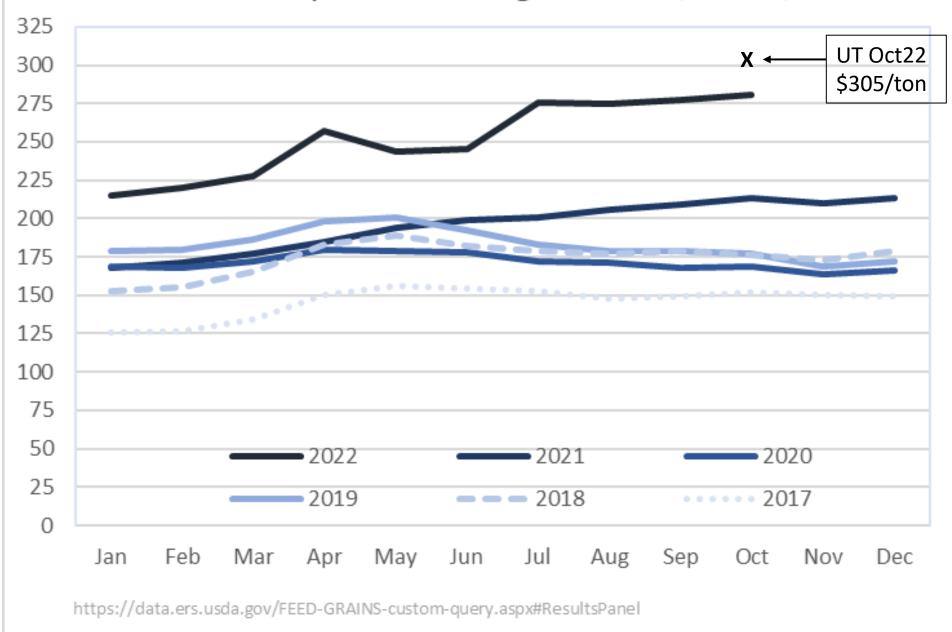
State Feeder Cattle Prices

750 lb. Steers	12/16/22	Last Week	1 Month Ago	1 Year Ago	5 Yr. Avg.
Dakotas	191.89	191.18	186.84	168.66	157.49
Iowa	178.28	178.05	182.31	164.82	154.82
Missouri	181.62	181.19	180.59	161.62	151.42
Montana	179.05	180.12	179.11	160.20	154.39
Nebraska	190.21	193.34	190.08	172.95	160.34
Wyoming	180.71	181.80	180.80	161.70	155.68
North Central Avg.	183.63	184.28	183.29	164.99	155.69
Arkansas	174.21	166.31	171.21	155.15	145.14
Colorado	176.45	178.41	172.90	161.83	152.24
Kansas	181.55	181.16	180.75	161.65	150.99
New Mexico	172.88	172.39	170.85	155.75	146.22
Oklahoma	181.64	181.21	176.55	166.28	149.70
Texas	179.21	176.19	174.26	160.91	147.31
South Central Avg.	177.66	175.95	174.42	160.26	148.60
Alabama	165.75	165.45	164.55	146.78	135.40
Florida	163.25	160.14	151.02	142.71	133.60
Georgia	168.25	165.48	155.65	146.42	135.72
Kentucky	165.16	166.21	173.15	152.07	141.46
Louisiana	165.88	161.70	162.56	146.38	138.78
Mississippi	167.05	162.18	163.02	146.82	135.34
Tennessee	163.97	164.85	161.97	151.32	139.48
Virginia	163.17	164.20	161.08	151.69	141.45
Southeast Avg.	165.31	163.78	161.63	148.92	137.65
Arizona	169.47	169.97	168.35	152.50	143.74
California	177.15	178.19	173.04	156.11	146.75
Idaho	175.97	175.95	172.88	155.80	147.89
Nevada	175.33	175.94	171.32	154.75	145.68
Oregon	175.49	175.40	172.20	155.26	147.42
Utah	175.05	175.50	171.15	154.55	146.20
Washington	175.57	175.39	172.50	155.51	147.43
Western Avg.	174.86	175.19	171.63	154.93	146.44
www.cattlerange.com					
Overall Average	175.36	174.80	172.74	157.05	147.10
This Week +/-	-	0.3%	1.5%	11.7%	19.2%

UT feeder prices up ~13% YOY

https://www.cattlerange.com/pages/market-reports/weekly-feeder-cattle-prices-by-state/

U.S. Dry Alfalfa Farmgate Prices, \$USD/ton



Potential Approaches to Lessen Impacts

- ► Global, national, and state level
- Expand self-sufficiency
 - ► Ag production (direct)
 - Ag inputs such as energy and fertilizer (indirect)
- Expand planted area
 - Somewhat restricted potential because most productive areas are already producing
- Balance trade policies to ensure adequate supply for demand
 - ► Food security works against global unrest
 - Protectionist measures may further drive-up prices

Potential Utah Impacts

- ▶ Will prices continue to rise?
 - Increasing costs
 - Increasing revenue
- Utah ag production
 - Relatively minimal direct feed and fertilizer supply chain impacts (except dairy)
 - Direct drought impacts to grazing quality and quantity
 - ► Lagged impacts to cow-calf and sheep industries
 -but, all these impacts will be felt for several years
- Changes to consumer demand with constrained household budgets?

Have a great day!



- Dates Tuesday February 21 through Friday morning February 24th
- DiverseAg.org
- Online free but registration is required
- The conference is online but we will be offering in-person field day that will be hands on end of June in Kaysville
 - May be other events through the year



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Tuesday

- Morning Drought
- Afternoon Micro Farming

Wednesday

- Morning Fruit
- Afternoon Animals

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Thursday

- Morning Cut Flowers
- Afternoon Marketing / Economics

Friday

Morning - Vegetables

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Friday

- Session descriptions coming in January
- Registration will open in January
- If want to be notified and added to the email listserve email <u>ruby.ward@usu.edu</u> or ginger.dalde@usu.edu







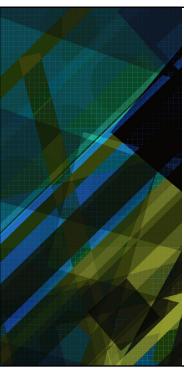
Inflation in 2022: Impacts on Consumer and Input Pricing

Kynda Curtis, Extension Ag & Food Marketing Specialist
Applied Economics, USU Extension



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Overview

- · Inflation overview
- Consumer Price Index (CPI) Food
 - Food price drivers
- Producer Price Index (PPI) Food
- Bottom line for farmers/ranchers
- Input prices and shortages
- Suggestions

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Inflation Overview

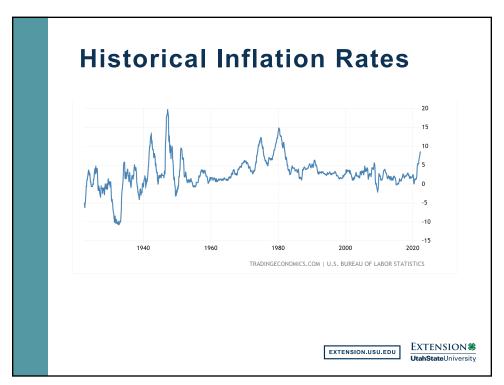
- US consumer price index rose 7.1% over the past year before seasonal adjustments
 - Taking out food and energy costs, inflation rose 6%
 - The food price index climbed 10.6%
 - The energy cost index rose 13.1%
- Prices are still nowhere near historic highs in the 1980s
 - Inflation peaked in the spring of 1980 at 14.6% (adjusted)

 Source: US Bureau of Labor Stats at: https://www.bls.gov/news.release/cpi.nr0.htm

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	May 2022	Jun. 2022	Jul.	Aug.	Sep.	Oct.	Nov. 2022	Un- adjusted 12-mos. ended Nov. 2022
All items	1.0	1.3	0.0	0.1	0.4	0.4	0.1	7
Food	1.2	1.0	1.1	0.8	0.8	0.6	0.5	10
Food at home	1.4	1.0	1.3	0.7	0.7	0.4	0.5	12
Food away from home(1)	0.7	0.9	0.7	0.9	0.9	0.9	0.5	8
Energy	3.9	7.5	-4.6	-5.0	-2.1	1.8	-1.6	13
Energy commodities	4.5	10.4	-7.6	-10.1	-4.7	4.4	-2.0	12
Gasoline (all types)	4.1	11.2	-7.7	-10.6	-4.9	4.0	-2.0	10
Fuel oil(1)	16.9	-1.2	-11.0	-5.9	-2.7	19.8	1.7	65
Energy services	3.0	3.5	0.1	2.1	1.1	-1.2	-1.1	14
Electricity	1.3	1.7	1.6	1.5	0.4	0.1	-0.2	13
Utility (piped) gas service	8.0	8.2	-3.6	3.5	2.9	-4.6	-3.5	15
All items less food and energy	0.6	0.7	0.3	0.6	0.6	0.3	0.2	6
Commodities less food and energy commodities	0.7	0.8	0.2	0.5	0.0	-0.4	-0.5	3
New vehicles	1.0	0.7	0.6	0.8	0.7	0.4	0.0	7
Used cars and trucks	1.8	1.6	-0.4	-0.1	-1.1	-2.4	-2.9	-3
Apparel	0.7	0.8	-0.1	0.2	-0.3	-0.7	0.2	3
Medical care commodities(1)	0.3	0.4	0.6	0.2	-0.1	0.0	0.2	3
Services less energy services	0.6	0.7	0.4	0.6	0.8	0.5	0.4	6
Shelter	0.6	0.6	0.5	0.7	0.7	0.8	0.6	7
Transportation services	1.3	2.1	-0.5	0.5	1.9	0.8	-0.1	14
Medical care services	0.4	0.7	0.4	0.8	1.0	-0.6	-0.7	4



Consumer Price Index - Food

- The CPI for food increased as food prices were 10.6% higher in November 2022 than November 2021
- The level of food price inflation varied depending on whether the food was purchased for consumption away from home or at home
 - The food-away-from-home (restaurant purchases) CPI increased 8.5%
 - The food-at-home (grocery store purchases) CPI increased 12%

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Consumer Price Index - Food

Consumer Price Index item	Relative importance ¹	Month-to-month September 2022 to October 2022	Year-over-yea October 2021 t October 2022	o	ear-to-date avg. 2021 to avg. 2022	Annual 2020	Annual 2021	20-year historical average	Forecast range ² 2022
	Percent	Percent change	Percent chang	e P	ercent change	Percent change	Percent change	Percent change	Percent change
All food	100.0	0.7	10.9		9.2	3.4	3.9	2.4	9.5 to 10.5
Food away from home	37.9	0.9	8.6	Τ	6.9	3.4	4.5	2.9	7.0 to 8.0
Food at home	62.1	0.5	12.4	Т	10.6	3.5	3.5	2.0	11.0 to 12.0
Meats, poultry, and fish	12.9	-0.1	5.9		9.5	6.3	6.8	2.9	9.5 to 10.5
Meats	8.1	0.2	2.9		8.2	7.4	7.7	3.2	8.0 to 9.0
Beef and veal	3.7	-0.8	-3.6		5.7	9.6	9.3	4.4	5.0 to 6.0 (-)
Pork	2.6	-0.4	4.0		8.9	6.3	8.6	2.2	8.5 to 9.5
Other meats	1.8	3.0	16.9		13.0	4.4	2.9	2.2	13.5 to 14.5 (+)
Poultry	2.7	-1.1	14.9		14.0	5.6	5.1	2.3	14.5 to 15.5
Fish and seafood	2.1	-0.2	7.4		8.9	3.3	5.4	2.7	9.0 to 10.0
Eggs	1.0	10.1	43.0		26.7	4.3	4.5	3.2	29.5 to 30.5 (+)
Dairy products	5.9	0.2	15.5		10.9	4.4	1.4	1.7	11.5 to 12.5 (-)
Fats and oils	1.9	1.7	23.4		17.0	1.3	4.6	2.3	18.5 to 19.5 (+)
Fruits and vegetables	10.4	0.0	9.3		8.0	1.4	3.3	2.0	8.0 to 9.0 (+)
Fresh fruits and vegetables	7.9	-0.2	7.4		7.2	0.8	3.3	2.0	6.5 to 7.5
Fresh fruits	4.2	-0.9	6.6		8.1	-0.8	5.5	1.8	7.5 to 8.5 (-)
Fresh vegetables	3.7	0.5	8.3		6.1	2.6	1.1	2.1	6.0 to 7.0 (+)
Processed fruits and vegetables	2.5	0.6	15.9		11.0	3.5	2.9	2.2	11.5 to 12.5 (+)
Sugar and sweets	2.1	0.7	14.9		9.4	3.3	3.0	2.1	10.0 to 11.0 (+)
Cereals and bakery products	8.1	0.6	15.9		11.8	2.2	2.3	2.1	13.0 to 14.0
Nonalcoholic beverages	7.1	0.9	12.7		10.1	3.6	2.8	1.4	10.5 to 11.5 (+)
Other foods	12.6	0.8	14.4		11.8	3.1	2.2	1.5	12.5 to 13.5

USDA ERS: Food Price Outlook November 2022

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Drivers of Increased Food Prices

- Consumer demand high
 - Increasing wages due to labor shortages
 - Increased government spending
 - Pandemic savings
 - Consumer optimism

- Supply low
 - Increased costs
 - Labor shortages increased wages
 - Shipping & transportation – shortages, fuel prices
 - Increasing input prices and shortages
 - Firms exiting the market

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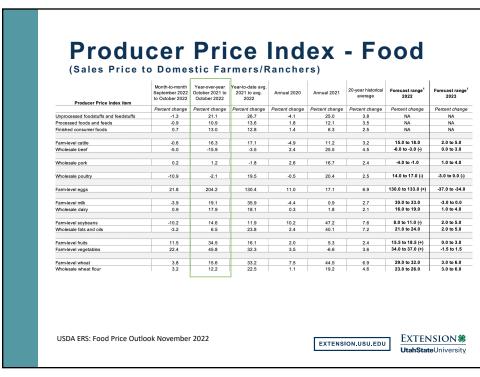
CPI Food Projections 2022

Consumer Price Index item	Relative importance ¹	20-year historical average	Forecast range ² 2022	Forecast range ² 202
	Percent	Percent change	Percent change	Percent change
II food	100.0	2.4	9.5 to 10.5	3.0 to 4.0
Food away from home	37.9	2.9	7.0 to 8.0	4.0 to 5.0
Food at home	62.1	2.0	11.0 to 12.0	2.5 to 3.5
Meats, poultry, and fish	12.9	2.9	9.5 to 10.5	2.0 to 3.0
Meats	8.1	3.2	8.0 to 9.0	1.5 to 2.5
Beef and veal	3.7	4.4	5.0 to 6.0 (-)	1.0 to 2.0
Pork	2.6	2.2	8.5 to 9.5	1.0 to 2.0
Other meats	1.8	2.2	13.5 to 14.5 (+)	2.0 to 3.0
Poultry	2.7	2.3	14.5 to 15.5	4.0 to 5.0
Fish and seafood	2.1	2.7	9.0 to 10.0	2.0 to 3.0
Eggs	1.0	3.2	29.5 to 30.5 (+)	2.0 to 3.0
Dairy products	5.9	1.7	11.5 to 12.5 (-)	3.0 to 4.0
Fats and oils	1.9	2.3	18.5 to 19.5 (+)	4.0 to 5.0
Fruits and vegetables	10.4	2.0	8.0 to 9.0 (+)	0.0 to 1.0
Fresh fruits and vegetables	7.9	2.0	6.5 to 7.5	-0.5 to 0.5
Fresh fruits	4.2	1.8	7.5 to 8.5 (-)	-0.5 to 0.5
Fresh vegetables	3.7	2.1	6.0 to 7.0 (+)	-0.5 to 0.5
Processed fruits and vegetables	2.5	2.2	11.5 to 12.5 (+)	3.0 to 4.0
Sugar and sweets	2.1	2.1	10.0 to 11.0 (+)	3.0 to 4.0
Cereals and bakery products	8.1	2.1	13.0 to 14.0	5.0 to 6.0
Nonalcoholic beverages	7.1	1.4	10.5 to 11.5 (+)	3.0 to 4.0
Other foods	12.6	1.5	12.5 to 13.5	3.0 to 4.0

USDA ERS: Food Price Outlook November 2022

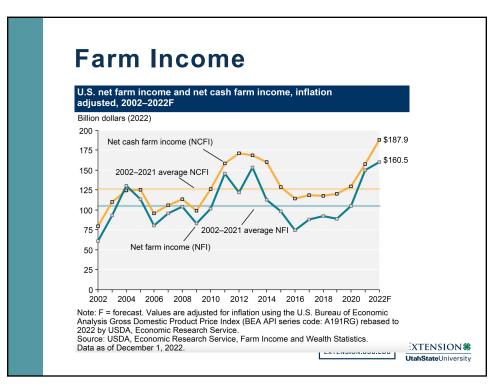
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PPI Food Projections 2022 Year-over-year October 2021 to October 2022 20-year historical average Forecast range 1 Forecast range¹ 2023 Producer Price Index item Percent change Percent change Unprocessed foodstuffs and feedstuffs Processed foods and feeds Finished consumer foods 2.0 to 5.0 0.0 to 3.0 Farm-level cattle Wholesale beef 16.7 -4.0 to -1.0 1.0 to 4.0 -3.0 to 0.0 (-) Farm-level eggs -3.0 to 0.0 1.0 to 4.0 8.0 to 11.0 (-) 21.0 to 24.0 15.5 to 18.5 (+) 34.0 to 37.0 (+) Farm-level fruits Farm-level vegetables USDA ERS: Food Price Outlook November 2022 EXTENSION * EXTENSION.USU.EDU **UtahState**University

			1-		
Grass Fed E Carcass Purchase Size	Beef - Direct to	Consu		il) Avg	
Whole	c		(\$/lb) 5.99 - 11.09	7.97	
Half			6.10 - 11.69	8.63	
Quarter			6.25 - 11.69	9.15	
Item Description	(\$/lb)	Avg	Commodity Beef*	Grassfed Premium**	
Ribeye Steak	24.00 - 34.00	29.60	9.94	19.66	
Ribeye Roast	22.99 - 26.25	24.06	9.70	14.36	
Chuck Roast	9.00 - 13.50	11.23	4.98	6.25	
Flat Iron Steak Rump Roast	14.67 - 30.59 9.92 - 12.99	22.26 11.11	8.01	14.25 6.32	
Bottom Round Roast		10.07	4.79 5.06	5.01	
Filet Mignon	35.00 - 49.99	39.31	16.00	23.31	
Tenderloin	32.00 - 49.25	40.66	13.64	27.02	
Tri Tip	11.99 - 18.99	15.40	5.30	10.10	
Sirloin Steak	12.00 - 25.25	18.10	5.99	12.12	
Sirloin Roast Brisket	10.25 - 23.80 10.00 - 15.00	13.51 12.00	4.49 4.25	9.02 7.76	
Flank Steak	14.49 - 24.00	19.22	4.25 9.58	9.64	
Skirt Steak	12.00 - 23.80	15.57	8.84	6.73	
Short Ribs	7.79 - 11.00	9.61	7.20	2.41	
Stew Meat	8.80 - 12.00	10.39	6.19	4.20	





Bottom Line - 2022

- Producer prices received increases the same or higher than consumer price increases
 - Highest price increases for milk, eggs, fruits, and vegetables
- High premiums remain for specialty/differentiated products (grass-fed beef example)
- USDA shows net farm income rose 13.8% in 2022 relative to 2021
- Net farm income in 2022 is 53.3% above its 20-year average (2002–2021) of \$104.7 billion in inflationadjusted dollars

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Input Supply Prices/Shortages

- - -- -

The Fertilizer Shortage Will Persist in 2023

DEC 01, 2022

Shea Swenson

Farmers need improved access to fertilizer to avoid a food crisis, but high costs and low supply of fertilizer will continue for another year.

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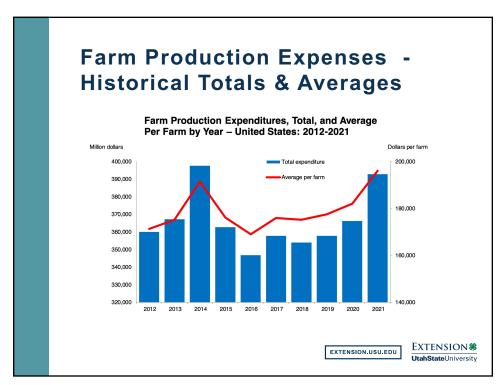
Input Prices & Shortages

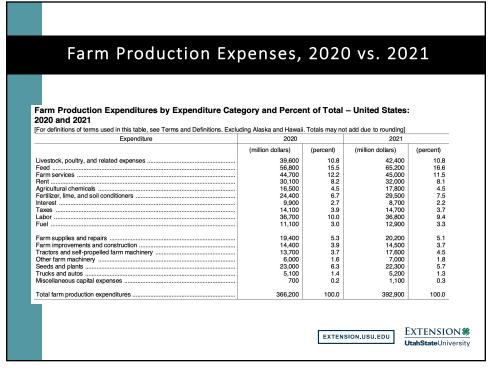
Why are we seeing supply chain issues?

- Immense online ordering
 - Transportation capacity
- Over ordering
- Lack of packaging materials
- Labor shortages increased wages
- Shipping/transportation stress
 - Cost of transportation due to fuel price increases
- Cost of fertilizers and other inputs
 - Fertilizer up 200-300%, bans on some fertilizer imports
 - For example, corn used in many products, lack of fertilizer is causing reductions in corn production

"I waited a year for my jars"

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Resources

- USDA ERS Food Price Outlook
 - https://www.ers.usda.gov/data-products/food-priceoutlook/
- Federal Reserve Bank of St. Louis Economic Data
 - https://fred.stlouisfed.org
- US Wholesale Specialty Crop Prices
 - https://www.ams.usda.gov/market-news/fruit-and-vegetable-terminal-markets-standard-reports
- National Grass Fed Beef Report
 - https://www.ams.usda.gov/mnreports/lsmngfbeef.p df





