

Shocks, Supply Chain Disruptions, and Food Prices

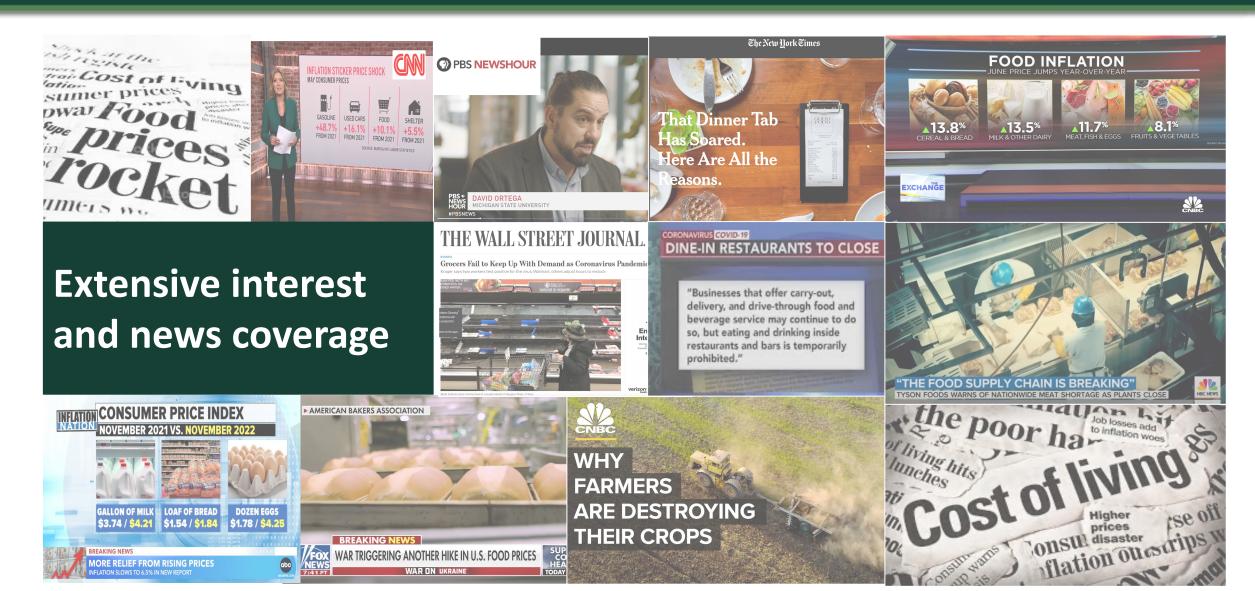
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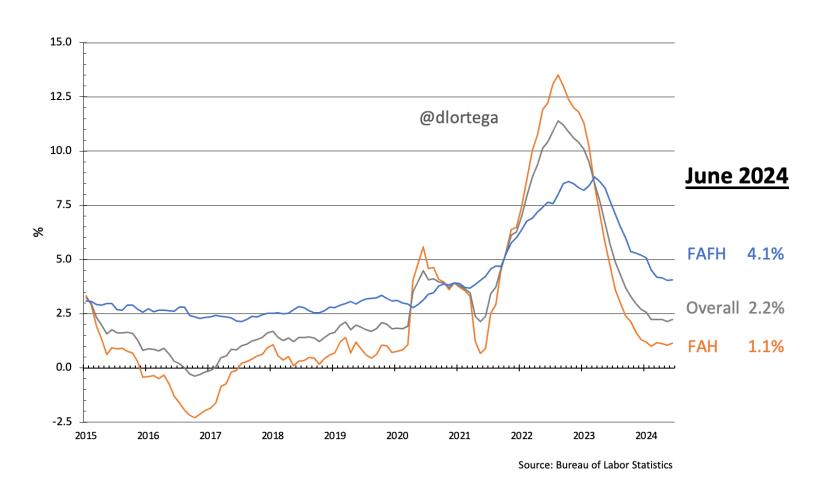


July 31st, 2024

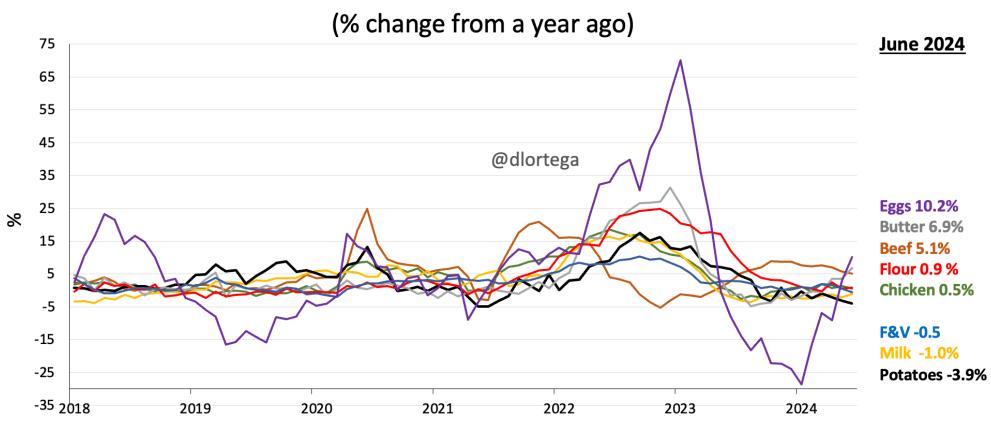




U.S. Food Price Increases: Groceries vs Restaurants (% change from one year ago)



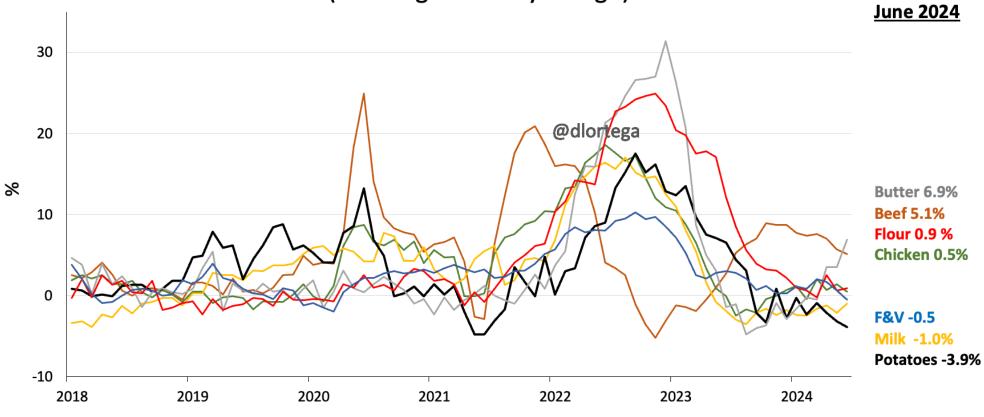
U.S. Consumer Food Prices





U.S. Consumer Food Prices

(% change from a year ago)

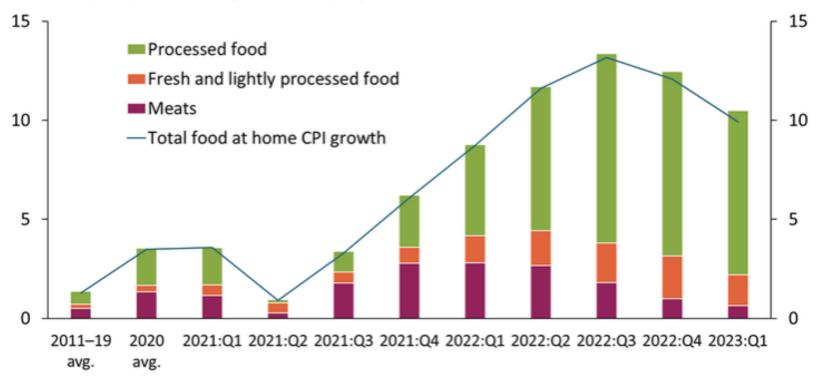




Source: USDA Economic Research Service

Chart 5: Growth in the price of processed food has driven inflation for food at home since 2022



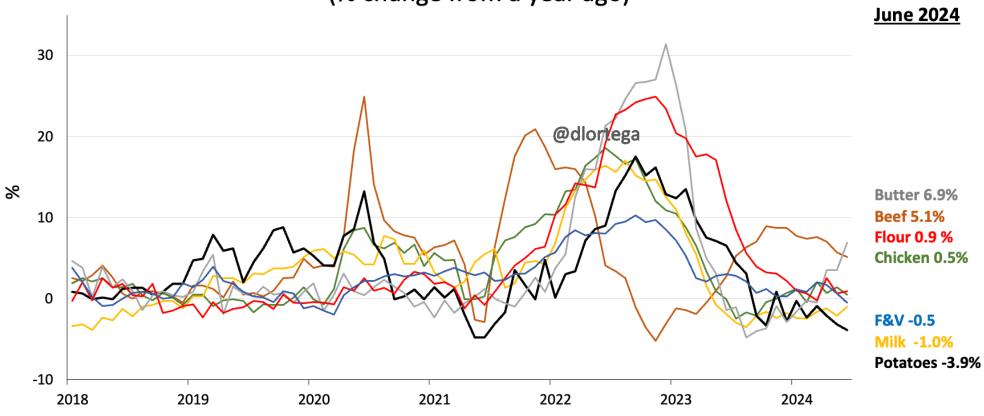


Source: Federal Reserve Bank of Kansas City



U.S. Consumer Food Prices

(% change from a year ago)



COVID-19

Changes in consumer behavior

Labor shortages and bottlenecks

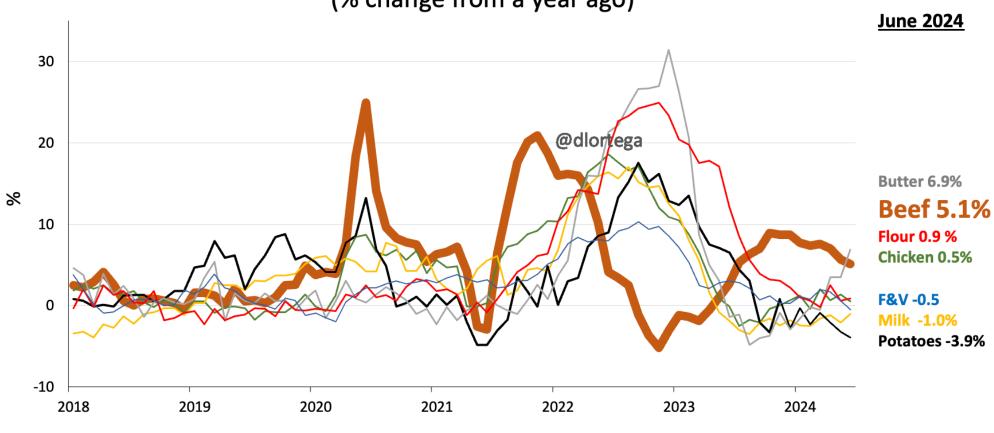
Transportation issues

Supply chain disruptions

Increased costs

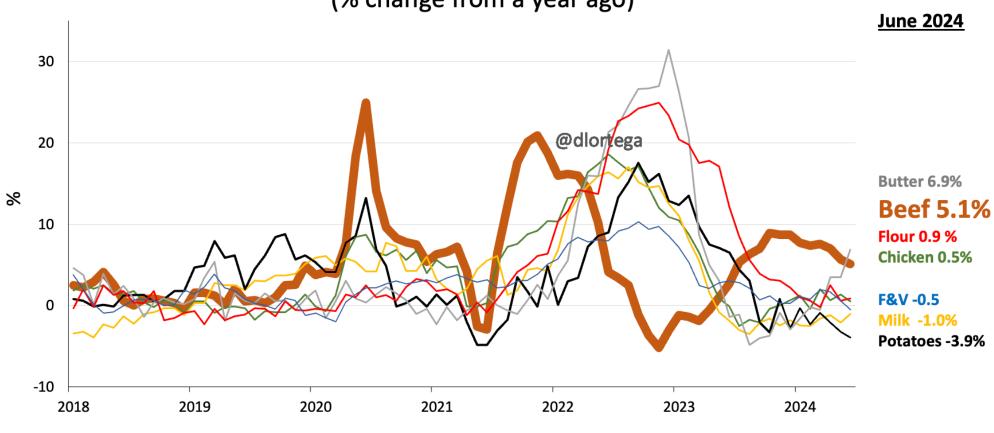


U.S. Consumer Beef Prices (% change from a year ago)





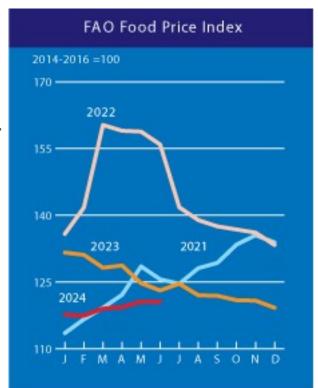
U.S. Consumer Beef Prices (% change from a year ago)

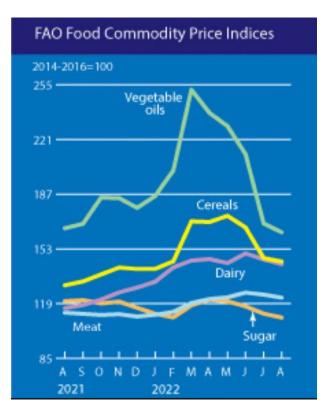




Russia-Ukraine War

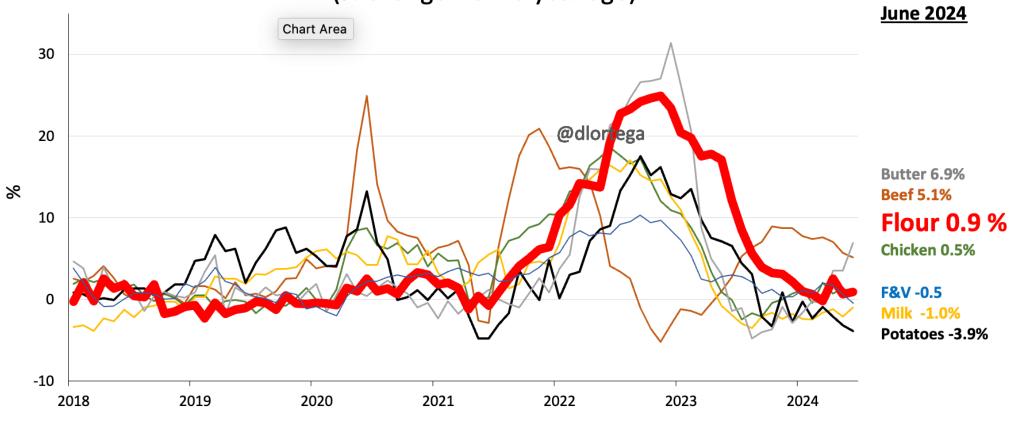
- Oil/gas prices
 - Impacts on transportation, fertilizer
- Decreased supply of grain and edible oils
- Protectionist measures
 - Fertilizer (CN), Palm Oil (ID)
- World Food Crisis
- Uncertainty

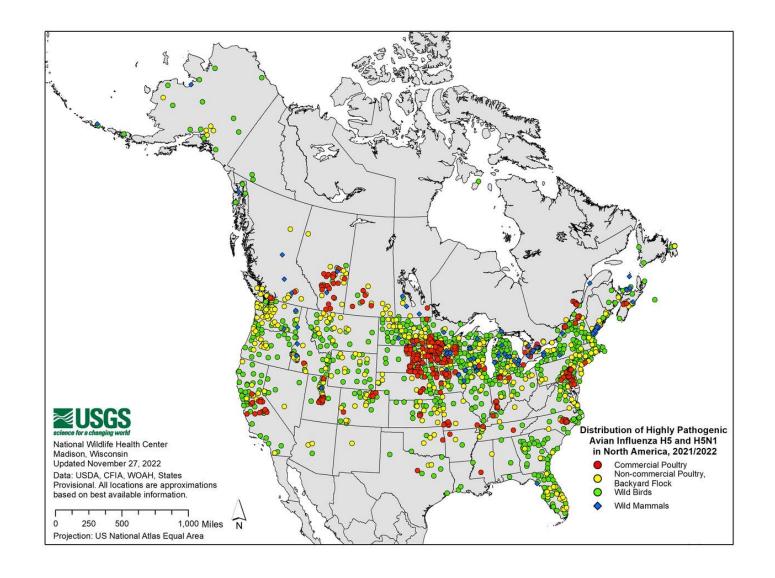




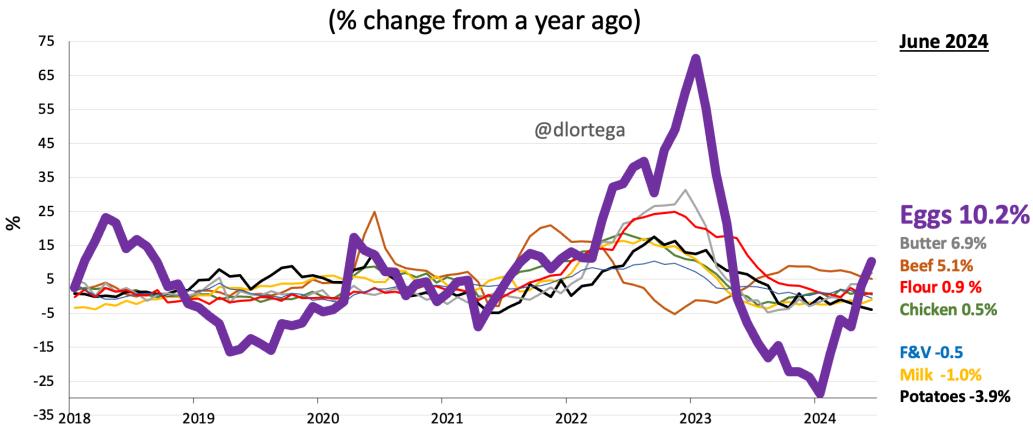
Source: United Nations FAO

U.S. Consumer Flour Prices (% change from a year ago)

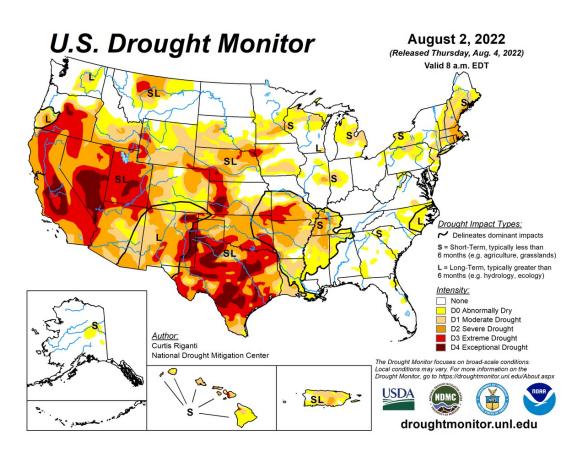


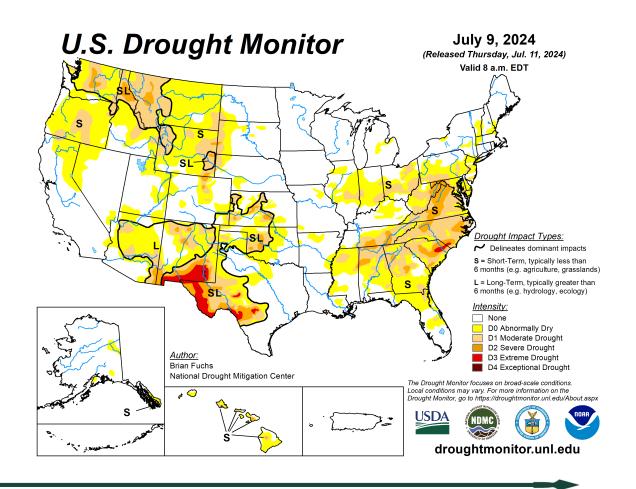




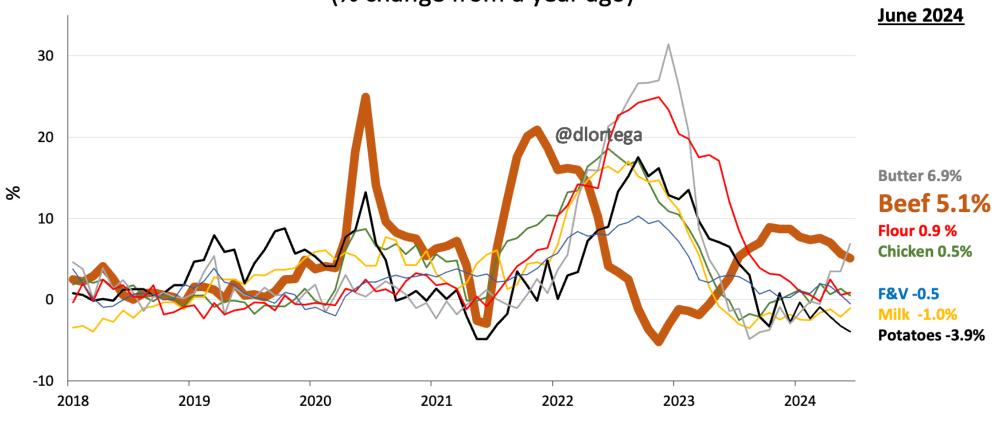


Drought



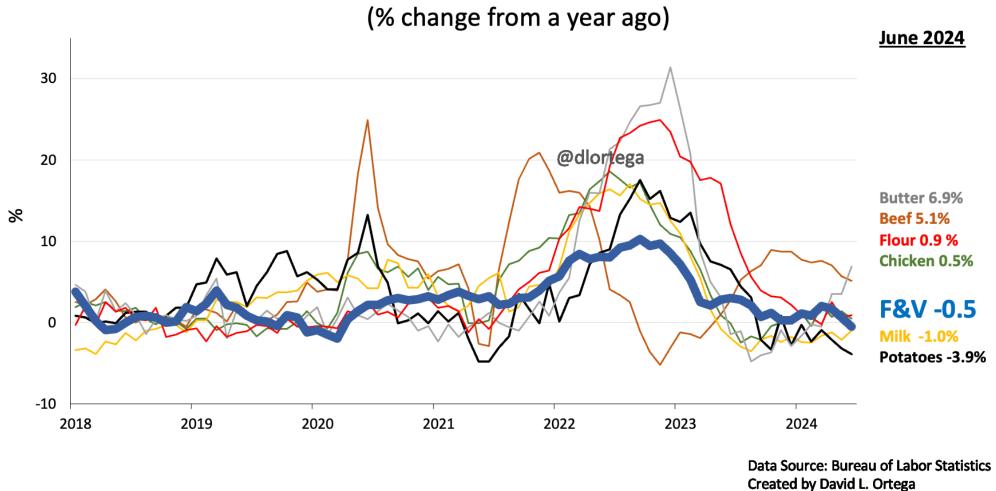


U.S. Consumer Beef Prices (% change from a year ago)

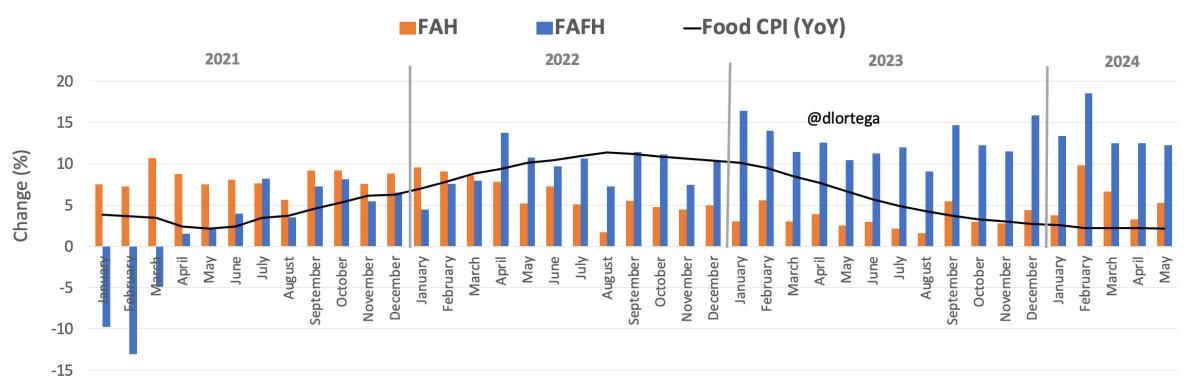




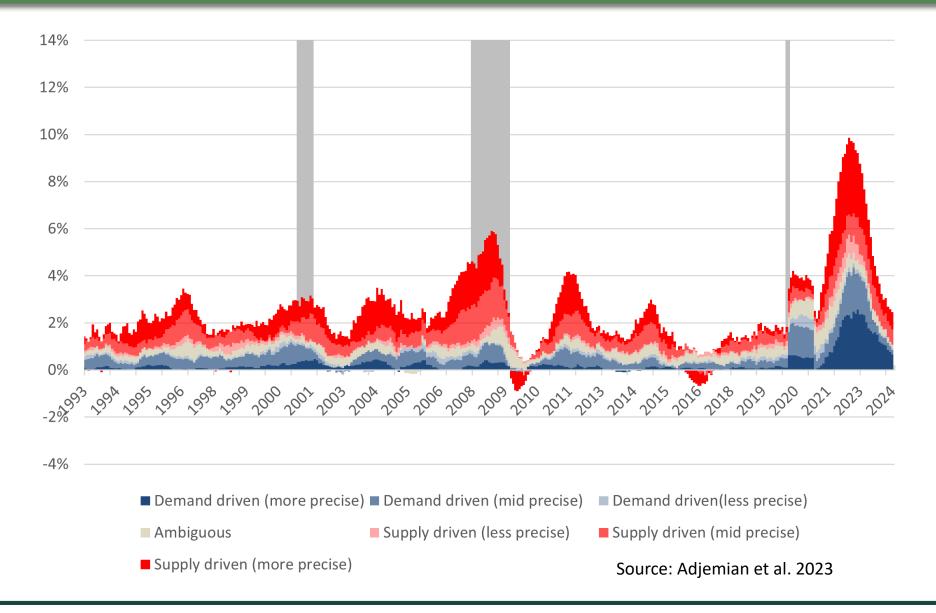
U.S. Consumer Fruit and Vegetable Prices



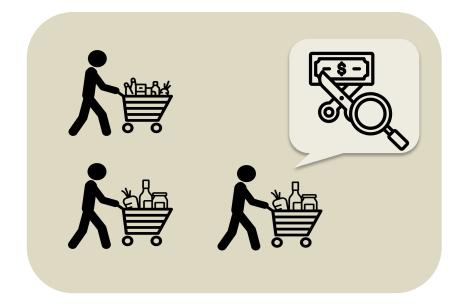
Inflation Adjusted Consumer Food Spending in 2021-24 relative to 2019



Note: Food spending is inflation adjusted using 1988 as baseline. Food CPI is y/y. Source: USDA, ERS Food Expenditure Series. Bureau of Labor Statistics.



Changes in consumer behavior

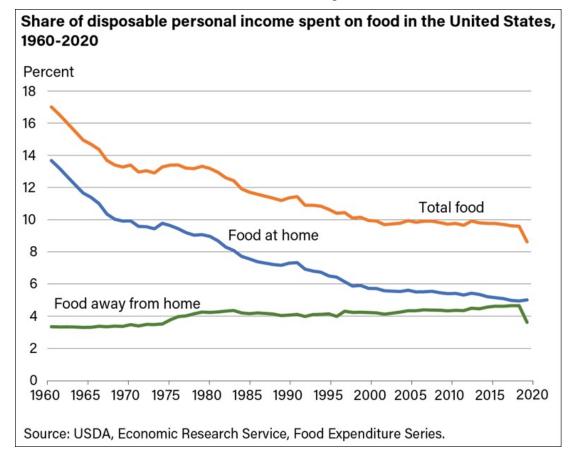


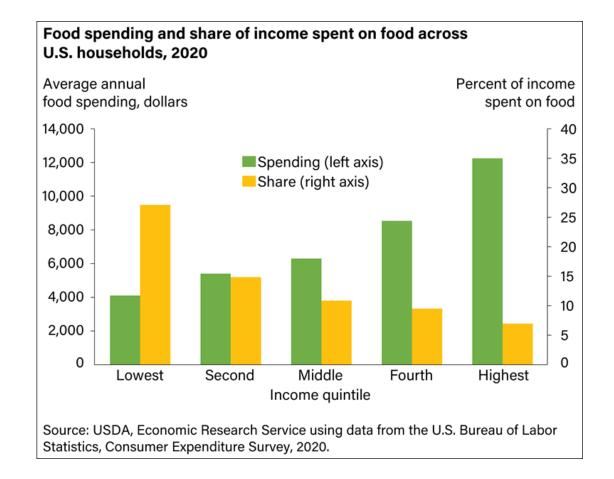
- More frequent grocery shopping trips
 - Price comparison, bargain hunting
- Buying fewer items



- Private labels and promotions on the rise
- Cutting back on splurges and premium purchases → Cheapflation!

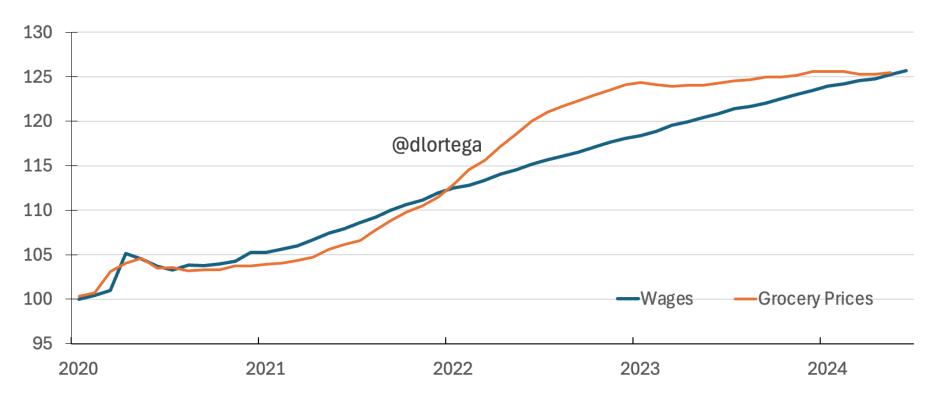
Food is a necessity







Grocery Prices vs Wages



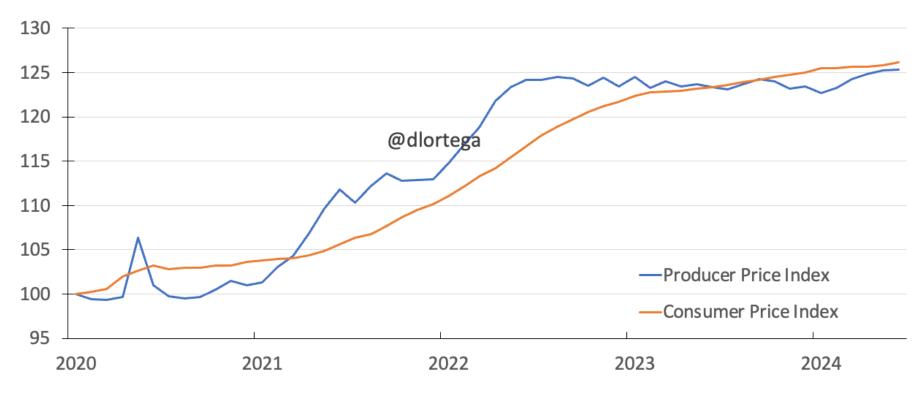
Source: Bureau of Labor Statistics

Notes: Jan 2020=100. CPI for Food at Home; Earnings of Production and

Nonsupervisory Employees



Food Inflation: Producer and Consumer Prices

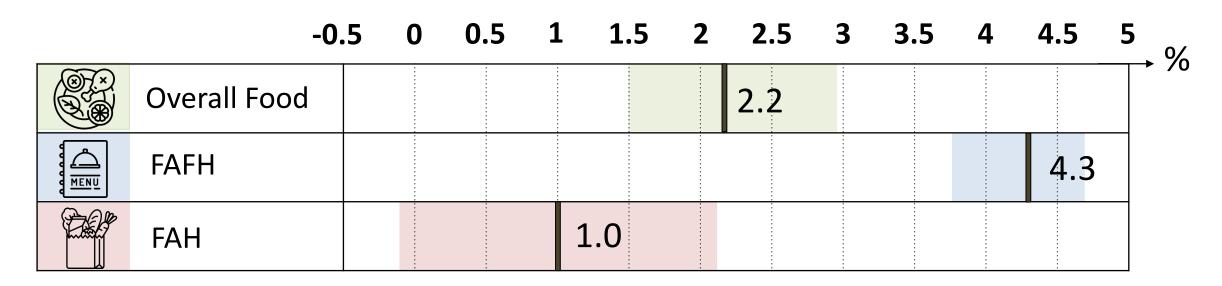


Source: Bureau of Labor Statistics

Notes: Jan 2020=100. PPI Processed food and feed; CPI Overall food

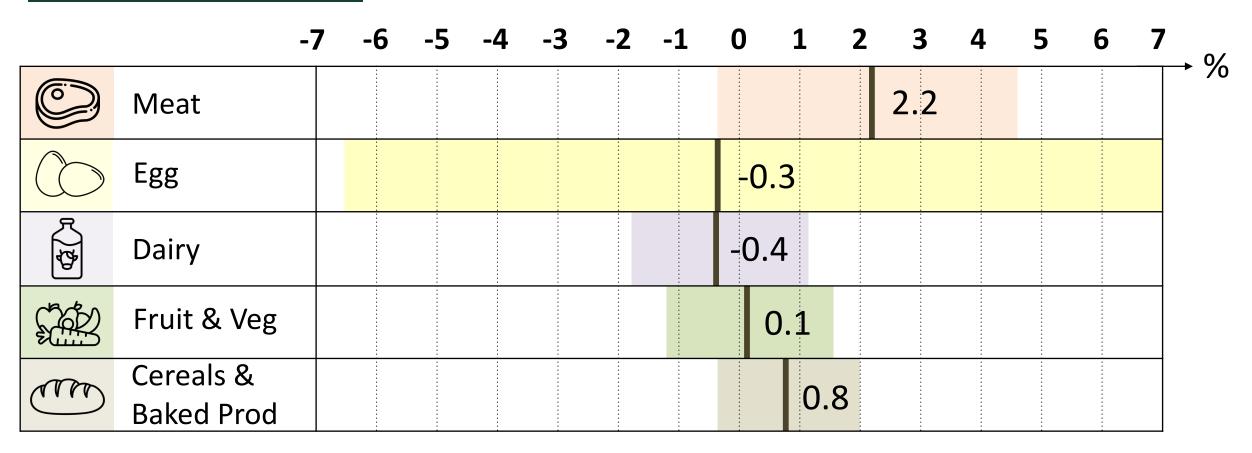
USDA Food Price Outlook Forecast (as of July 25)

2024 range & mid point



Source: USDA Economic Research Service

2024 range & mid point



Source: USDA Economic Research Service



Main takeaways

- The reason food price inflation has been persistent over the past 4 years is because there has been a convergence of factors that have affected both the supply and the demand for food
- ➤ Identifying and understanding these critical factors is essential for anticipating and mitigating future disruptions
- Data-driven story telling can increase understanding, build trust, and lead to more informed decisions