Show Me the Money (\$upply)



By: Anirban Basu MPP, MA, JD, PHD Sage Policy Group, Inc.

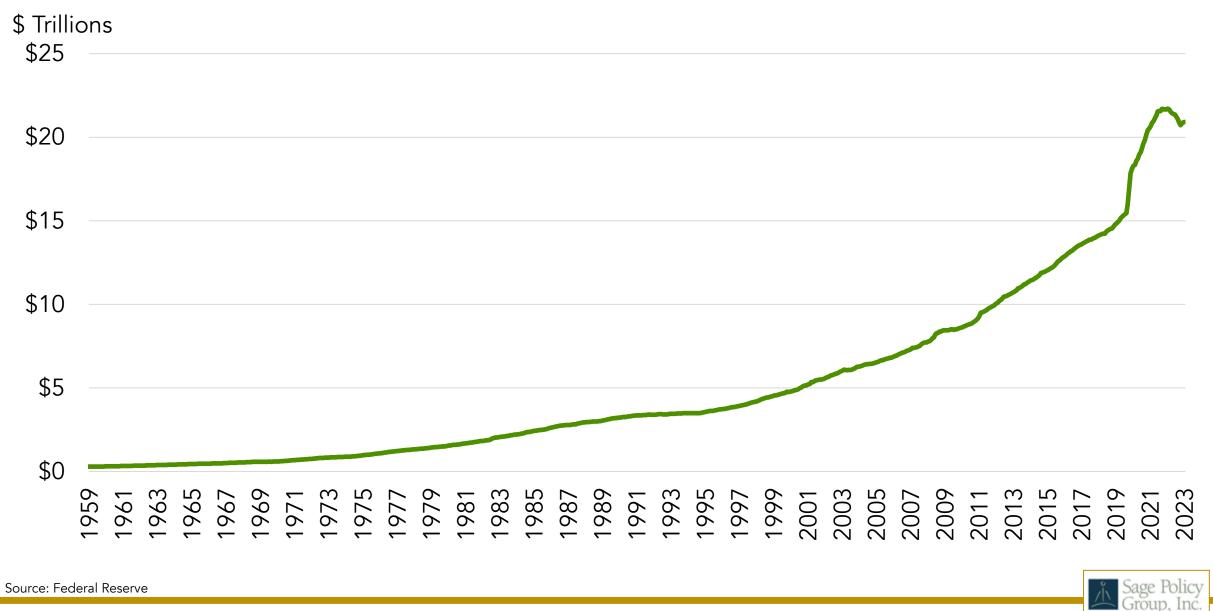
On Behalf of

Engineering & Construction Contracting Association Annual Meeting

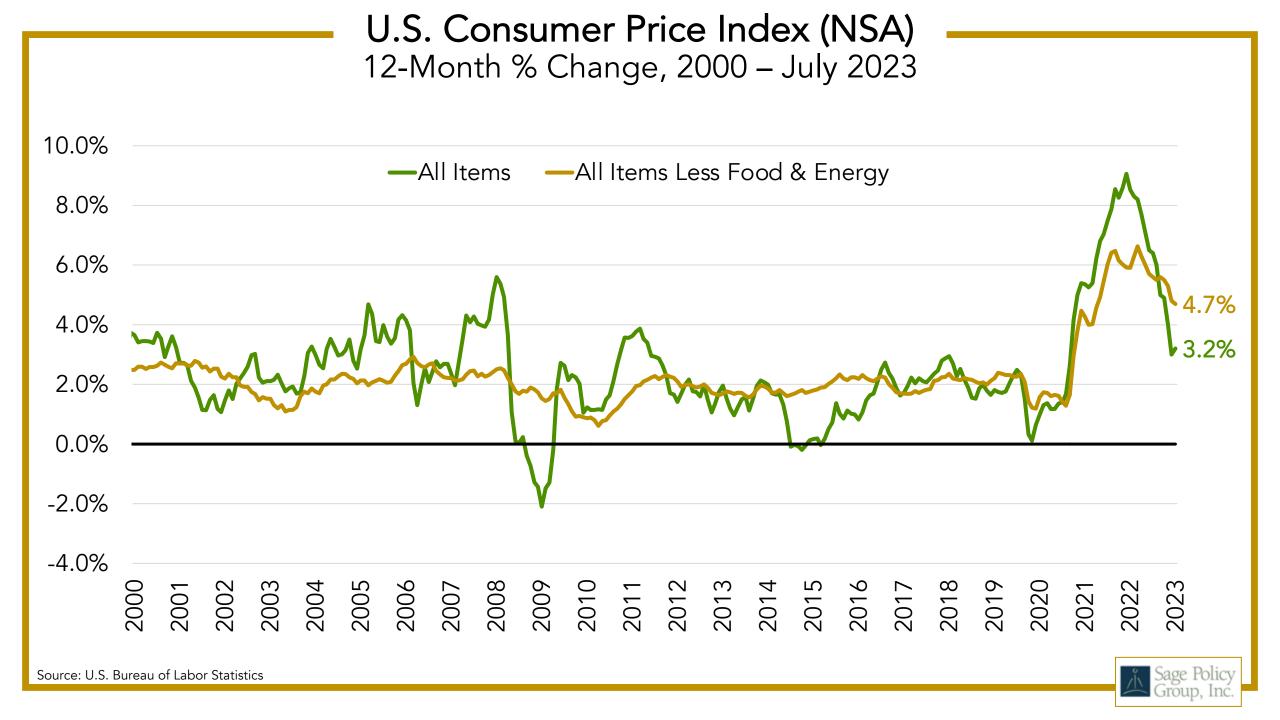
August 31, 2023



The Color of Money U.S. Money Supply, 1959 – July 2023

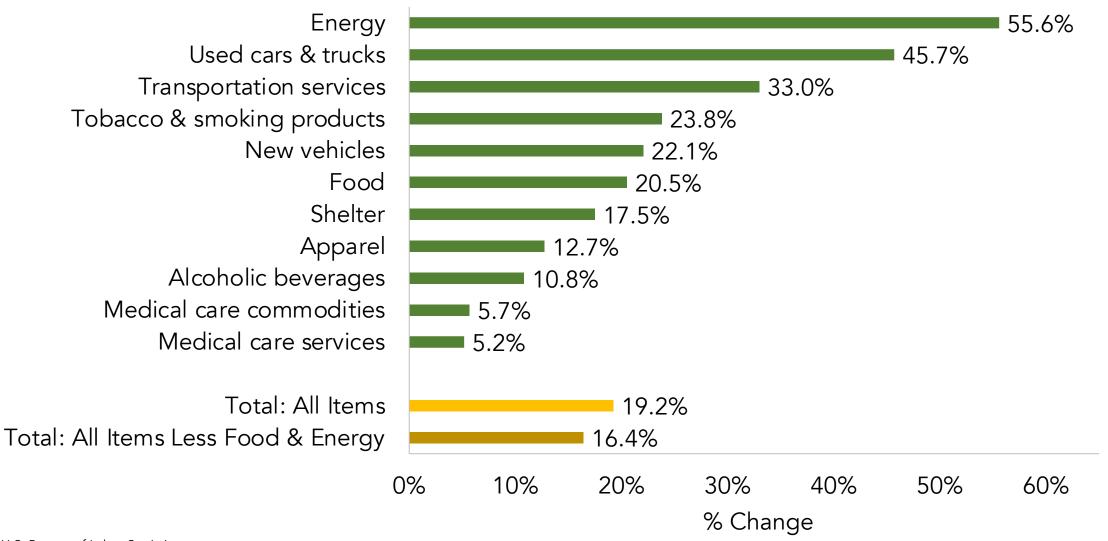






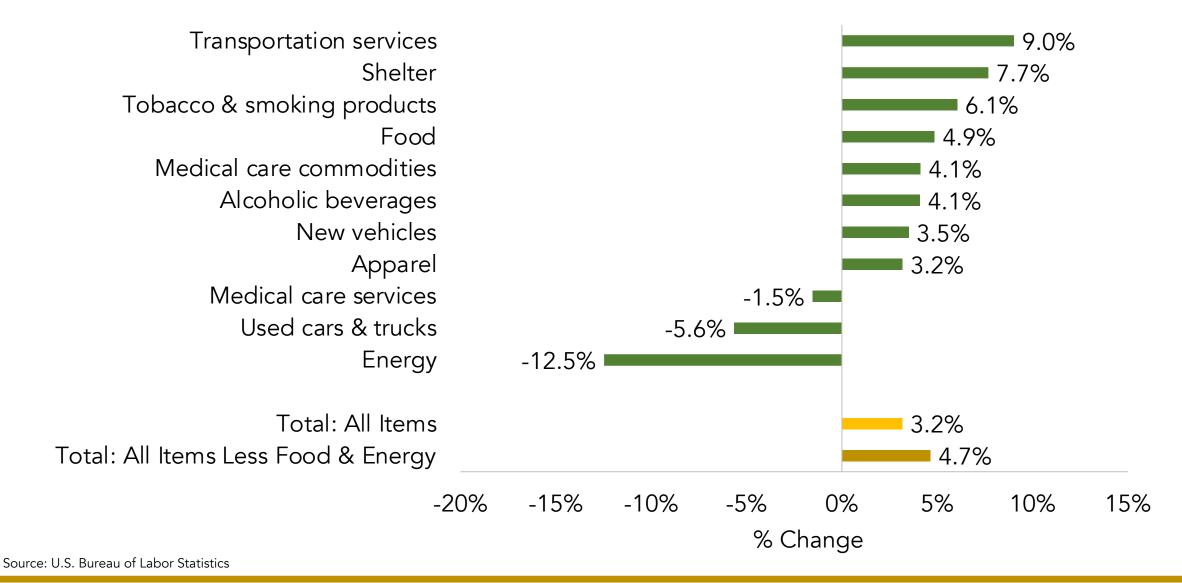
U.S. Consumer Price Index, Select Categories (NSA) May 2020 v. July 2023 % Change

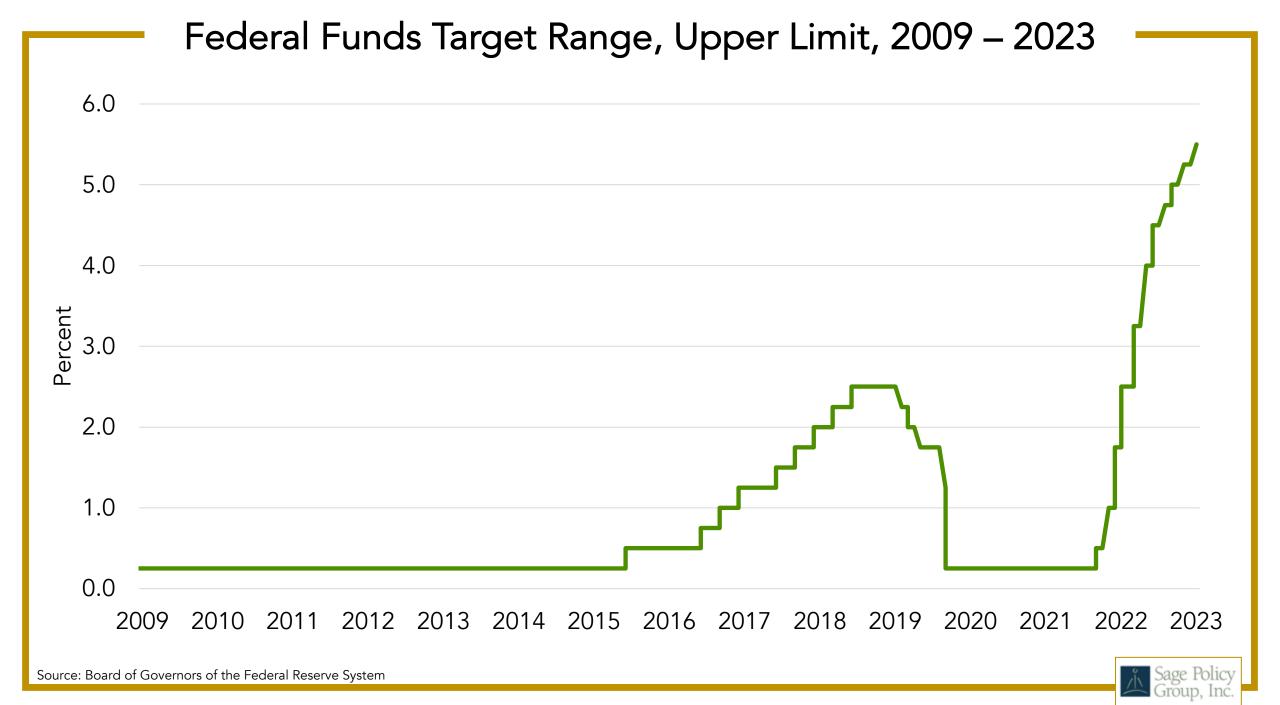






U.S. Consumer Price Index, Select Categories (NSA) Year-over-year % Change [July 2022 v. July 2023]





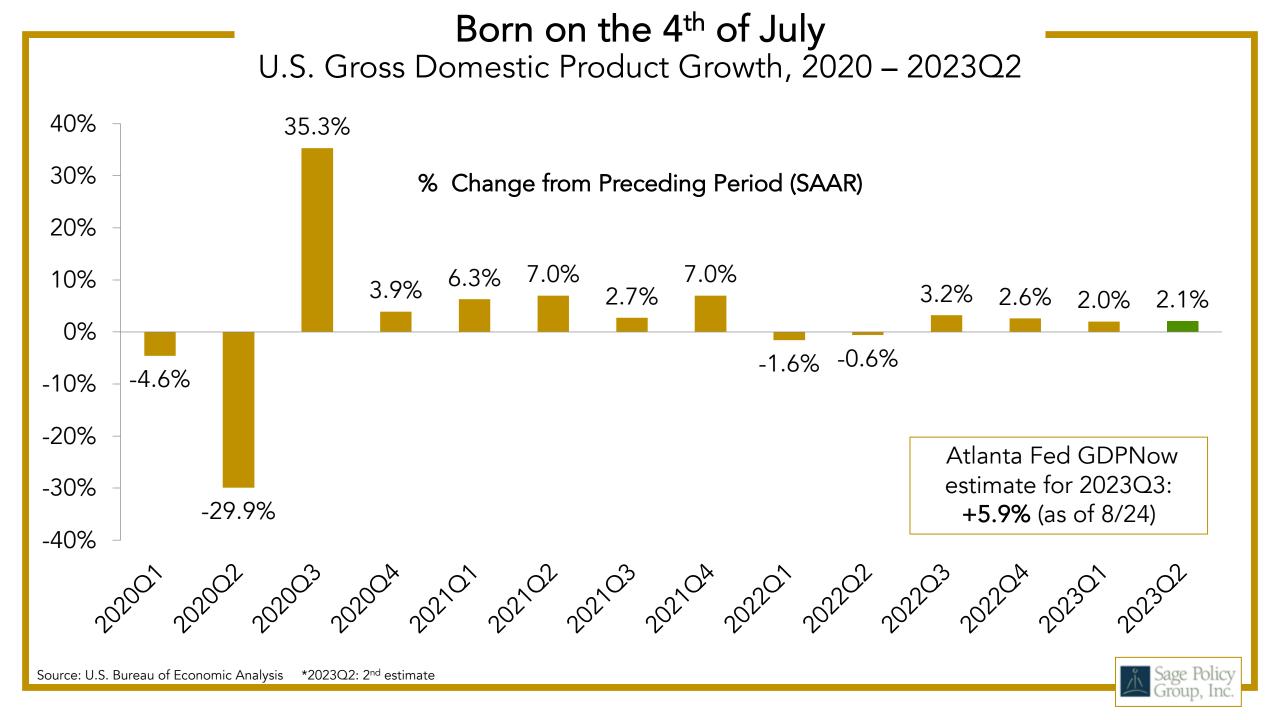
Mission Impossible (8 films, 1996-2024)

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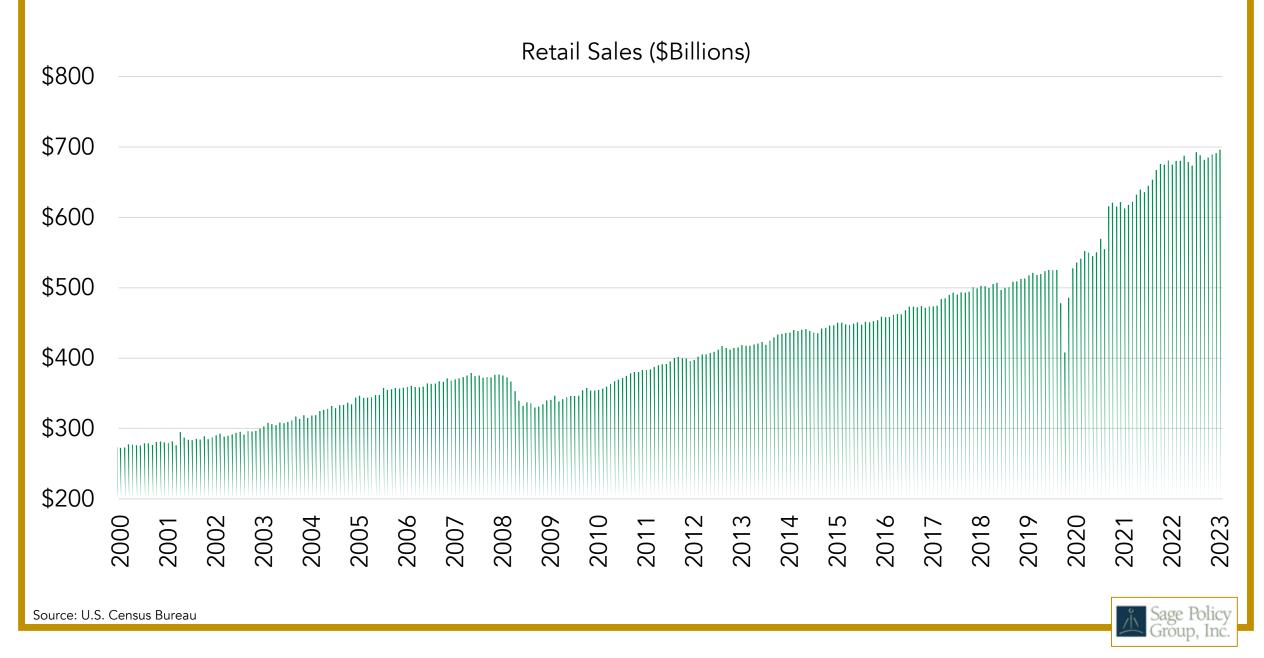
Monetary Policy Lags

- "A large body of research tells us it can take 18 months to two years or more for tighter monetary policy to materially affect inflation." - Raphael Bostic, President and Chief Executive Officer, Federal Reserve Bank of Atlanta
- Some reasons for the lag: how fixed people's expectations are; the gradual response of investment (both business investment and consumer investment in durables/dwellings); long-term contracts (rent); gradual transmission from sectors of the economy immediately affected (ex. lending) to other sectors.
- In the meantime, higher rates reduce investment, slow hiring and wage growth, and eventually increase unemployment.





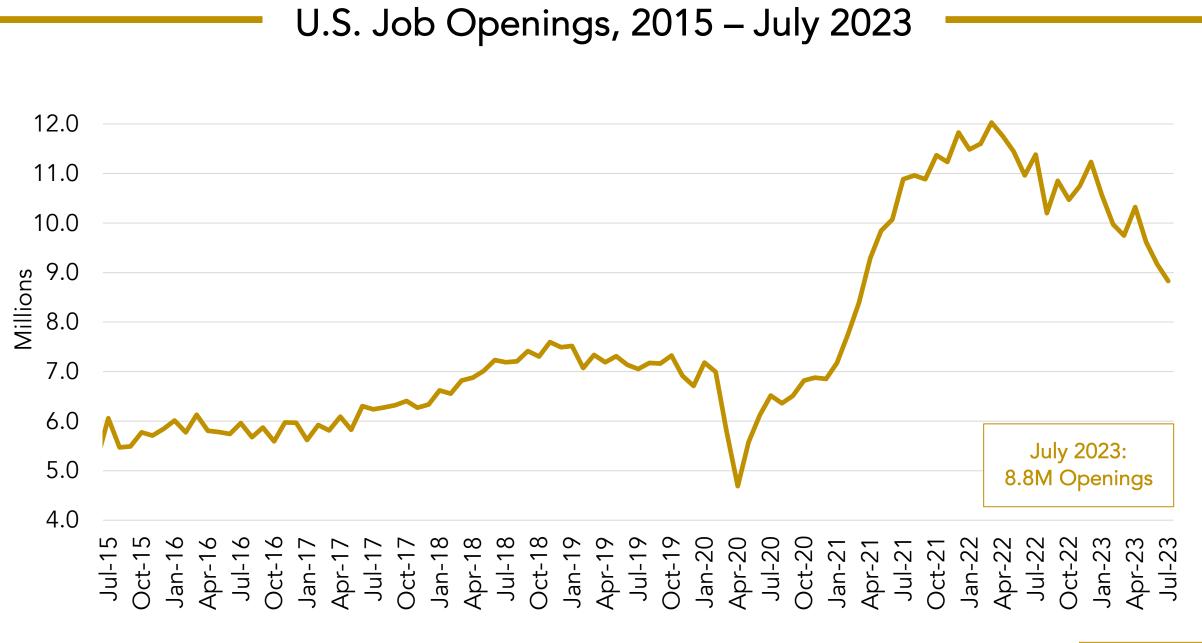
U.S. Retail Sales, 2000 – July 2023



Net Change in U.S. Jobs May 2020 – July 2023



Source: U.S. Bureau of Labor Statistics



Source: U.S. Bureau of Labor Statistics



Change in LF Participation Rate by Age, Gender 1980 v. 2023



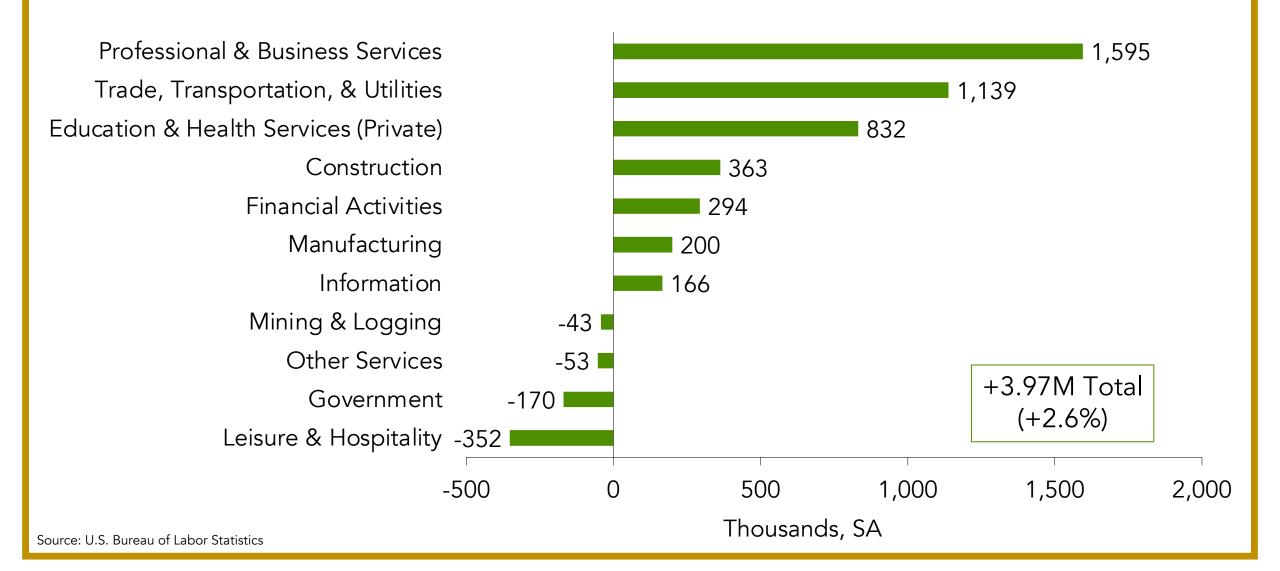
Change in LF Participation Rate, 1980 v. 2023 (percentage points)				
Age Group	Total	Men	Women	
16+ years	-1.2	-9.4	+5.8	
16-19 years	-19.8	-24.1	-15.6	
20-24 years	-5.9	-13.2	+0.9	
25-34 years	+3.7	-5.9	+12.6	
35-44 years	+3.8	-5.3	+11.9	
45-54 years	+7.1	-3.8	+16.8	
55-64 years	+9.8	-0.7	+18.5	

If the labor force participation rate were what it was in 1980, there would be 12.2 million more men and 7.8 million fewer women in the labor force (ages 16+).

Source: Bureau of Labor Statistics

U.S. Jobs Recovered Since February 2020

Nonfarm Employment by Industry Sector, February 2020 v. July 2023



Employment Growth, 25 Largest Metros February 2020 v. July 2023 Percent Change

Rank	MSA	%	Rank	MSA	%
1	Dallas-Fort Worth-Arlington, TX	11.5%	14	Miami-Fort Lauderdale-West Palm Beach, FL	3.4%
2	Charlotte-Concord-Gastonia, NC-SC	8.1%	15	Portland-Vancouver-Hillsboro, OR-WA	2.7%
3	Tampa-St. Petersburg-Clearwater, FL	8.0%	16	Chicago-Naperville-Elgin, IL-IN-WI	2.6%
4	San Antonio-New Braunfels, TX	6.9%	17	Boston-Cambridge-Nashua, MA-NH	2.4%
5	Orlando-Kissimmee-Sanford, FL	6.1%	18	St. Louis, MO-IL	2.3%
6	Atlanta-Sandy Springs-Roswell, GA	5.8%	19	New York-Newark-Jersey City, NY-NJ-PA	1.7%
7	Houston-The Woodlands-Sugar Land, TX	4.9%	20	Minneapolis-St. Paul-Bloomington, MN-WI	1.3%
8	Riverside-San Bernardino-Ontario, CA	4.7%	21	21 San Francisco-Oakland-Hayward, CA	
9	Denver-Aurora-Lakewood, CO	4.4%	22	Washington-Arlington-Alexandria,	0.9%
10	Phoenix-Mesa-Scottsdale, AZ	4.3%	22	DC-VA-MD-WV	0.7/0
11	Philadelphia-Camden-Wilm., PA-NJ-DE-MD	4.2%	23	Detroit-Warren-Dearborn, MI	0.4%
12	Seattle-Tacoma-Bellevue, WA	3.7%	24	Baltimore-Columbia-Towson, MD	0.3%
13	San Diego-Carlsbad, CA	3.5%	25	Los Angeles-Long Beach-Anaheim, CA	0.2%

Source: Bureau of Labor Statistics

Group, Inc.

age Policy Current Employment Statistics (CES) Survey. Note: data are not seasonally adjusted.

U.S. % Change 2/2020 v. 7/2023: +2.6%

Unemployment Rates, 25 Largest Metros July 2023

Rank	MSA	%	Rank	MSA	%
1	Baltimore-Columbia-Towson, MD	1.7	11	St. Louis, MO-IL	3.6
2	Washington-Arlington-Alexandria,	2.4	14	San Francisco-Oakland-Hayward, CA	3.7
Z	DC-VA-MD-WV	Ζ.4	15	Detroit-Warren-Dearborn, MI	3.9
3	Miami-Fort Lauderdale-West Palm Beach, FL	2.6	15	San Diego-Carlsbad, CA	3.9
4	Boston-Cambridge-Nashua, MA-NH	2.7	17	Philadelphia-Camden-Wilm., PA-NJ-DE-MD	4.0
5	Minneapolis-St. Paul-Bloomington, MN-WI	3.1	18	Dallas-Fort Worth-Arlington, TX	4.1
5	Orlando-Kissimmee-Sanford, FL	3.1	19	Chicago-Naperville-Elgin, IL-IN-WI	4.2
5	Tampa-St. Petersburg-Clearwater, FL	3.1	19	Phoenix-Mesa-Scottsdale, AZ	4.2
8	Atlanta-Sandy Springs-Roswell, GA	3.2	19	San Antonio-New Braunfels, TX	4.2
9	Charlotte-Concord-Gastonia, NC-SC	3.4	22	New York-Newark-Jersey City, NY-NJ-PA	4.6
9	Denver-Aurora-Lakewood, CO	3.4	23	Houston-The Woodlands-Sugar Land, TX	4.8
11	Portland-Vancouver-Hillsboro, OR-WA	3.6	24	Riverside-San Bernardino-Ontario, CA	4.9
11	Seattle-Tacoma-Bellevue, WA	3.6	25	Los Angeles-Long Beach-Anaheim, CA	5.0

Source: Bureau of Labor Statistics



Local Area Unemployment Statistics (LAUS) program. Note: data are not seasonally adjusted U.S. Unemployment Rate: 3.5%

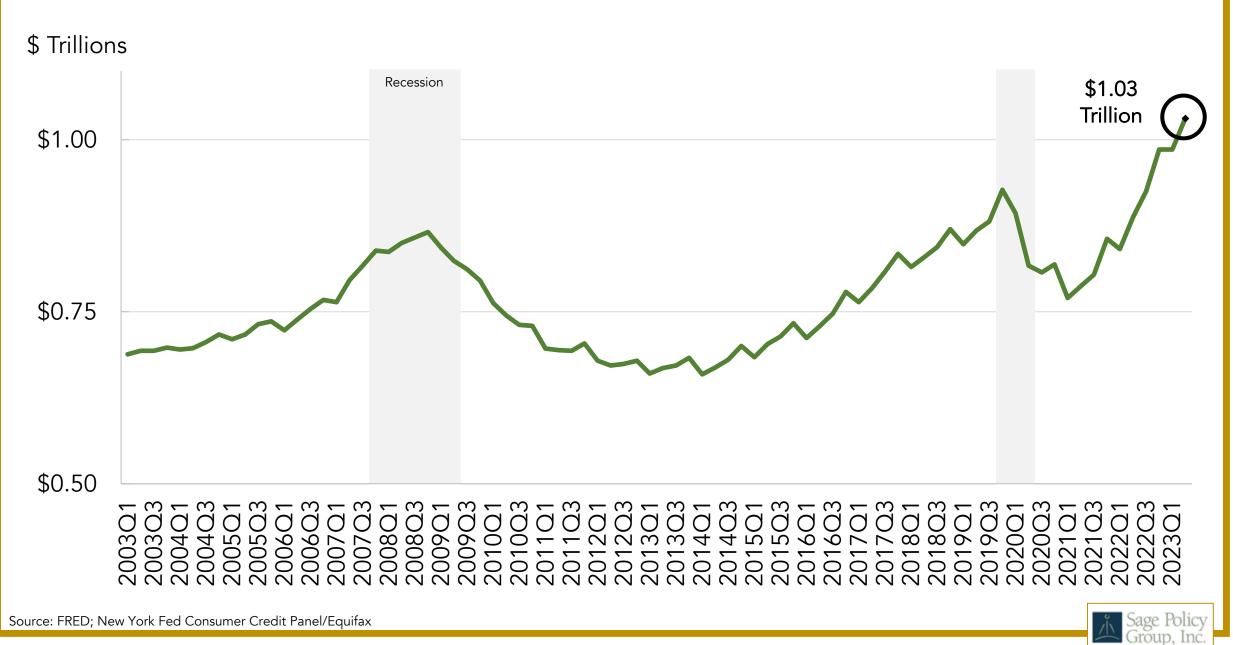


Defining Recession: Eyes Wide Shut

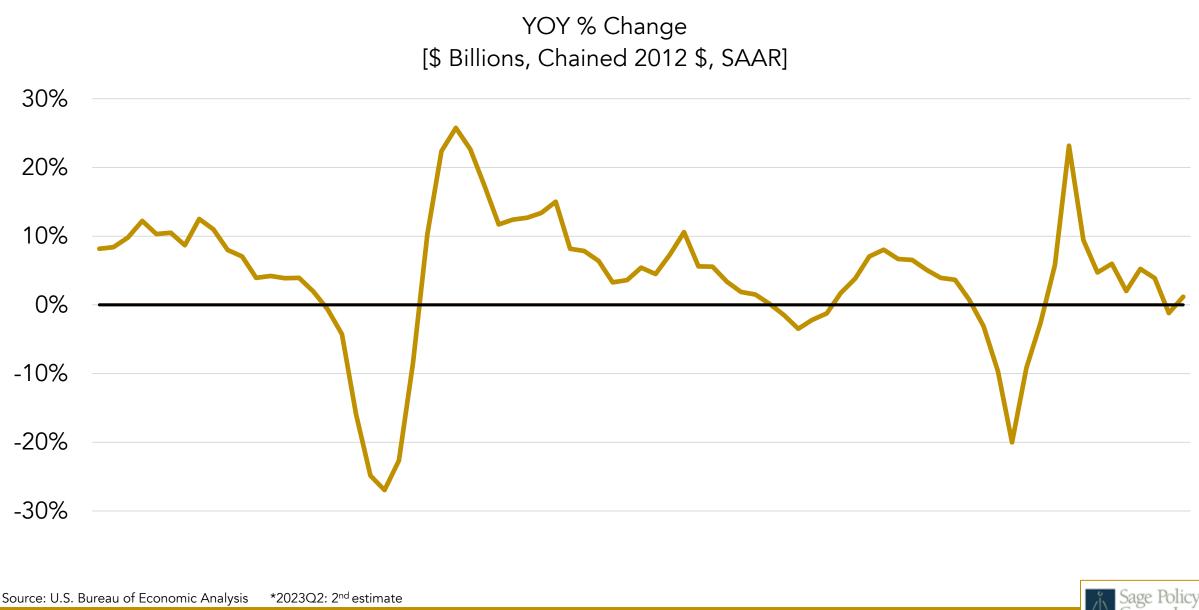
- The National Bureau of Economic Research (NBER)'s Business Cycle Dating Committee is the official recession scorekeeper – it maintains a chronology of U.S. business cycles.
- NBER's traditional definition of recession is "a significant decline in economic activity that is spread across the economy and that lasts more than a few months."
- There is no fixed rule about which indicators contribute information to NBER's process or how they are weighted in the determination of recession.
- Because the government statistics NBER relies on are published at various lags, the NBER Committee cannot officially designate a recession until after it starts (and often not until it's over).



U.S. Credit Card Debt, 2003 – 2023



U.S. GDP: Nonresidential Fixed Investment in Equipment, 2004 – 2023Q2



Source: U.S. Bureau of Economic Analysis *2023Q2: 2nd estimate

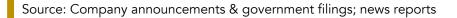
The Firm

- According to a November 2022 PwC survey of U.S. executives, 26% of firms are planning to reduce the number of full-time employees over the next 12-18 months.
 - In August 2022, 50% of firms said they already had, or had a plan in place to, reduce overall headcount.
- Four out of five executives surveyed by PwC in November 2022 said a recession is coming within the next six months.



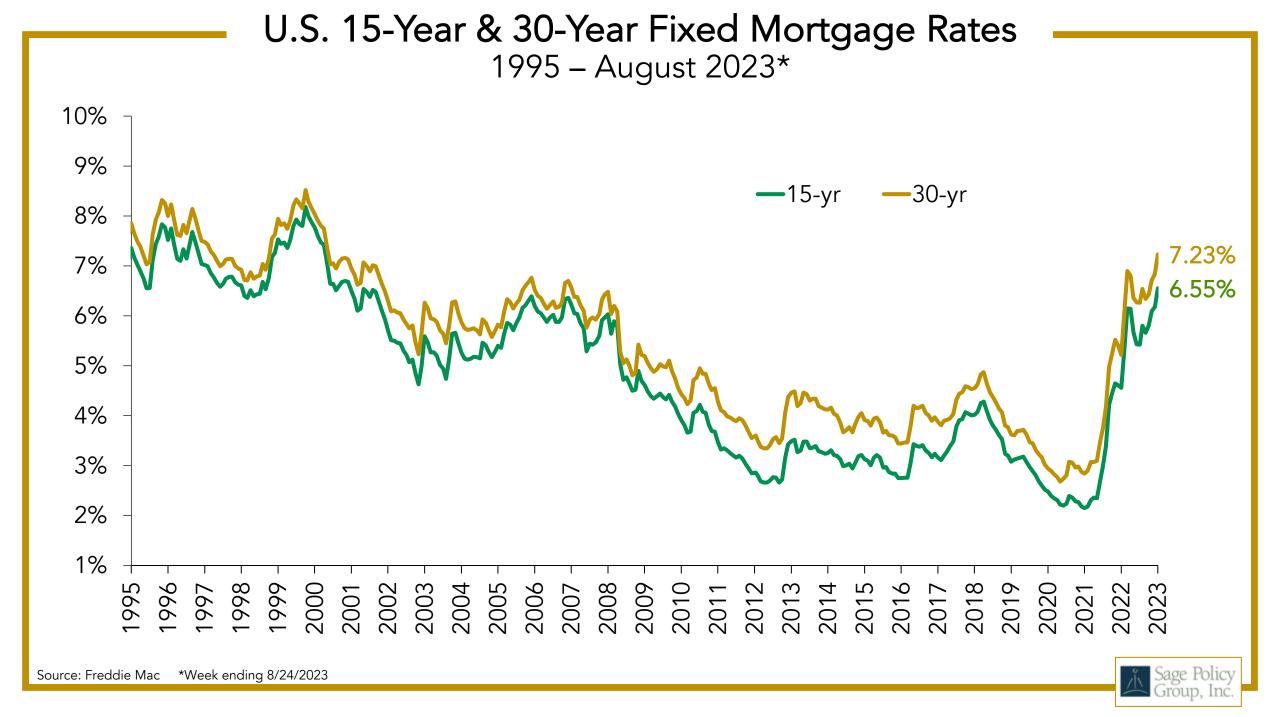
Noteworthy Layoffs in 2022-2023 Ranked by Number Laid Off

Company	Estimated Layoffs	Workforce Before Layoffs	Percent Laid Off
Amazon	27,000	1,544,000	1.7%
Meta	21,000	87,314	24.1%
Accenture	19,000	760,000	2.5%
Alphabet	12,000	187,000	6.4%
Microsoft	10,000	221,000	4.5%
3M	8,500	90,000	9.4%
Salesforce	8,000	79,000	10.1%
Disney	7,000	222,000	3.2%
Dell	6,650	133,000	5.0%
Twitter	3,700	7,500	49.3%
Goldman Sachs	3,200	49,000	6.5%
Indeed	2,200	14,600	15.1%
PayPal	2,000	29,000	6.9%
Dow	2,000	38,000	5.3%
Boeing	2,000	156,000	1.3%

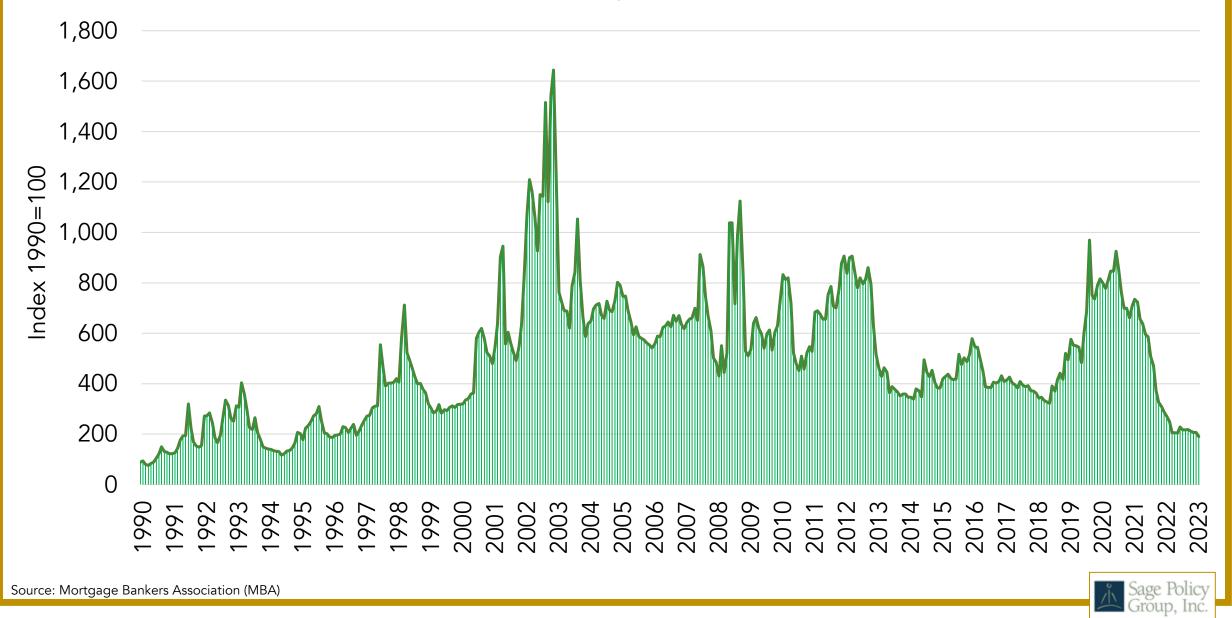


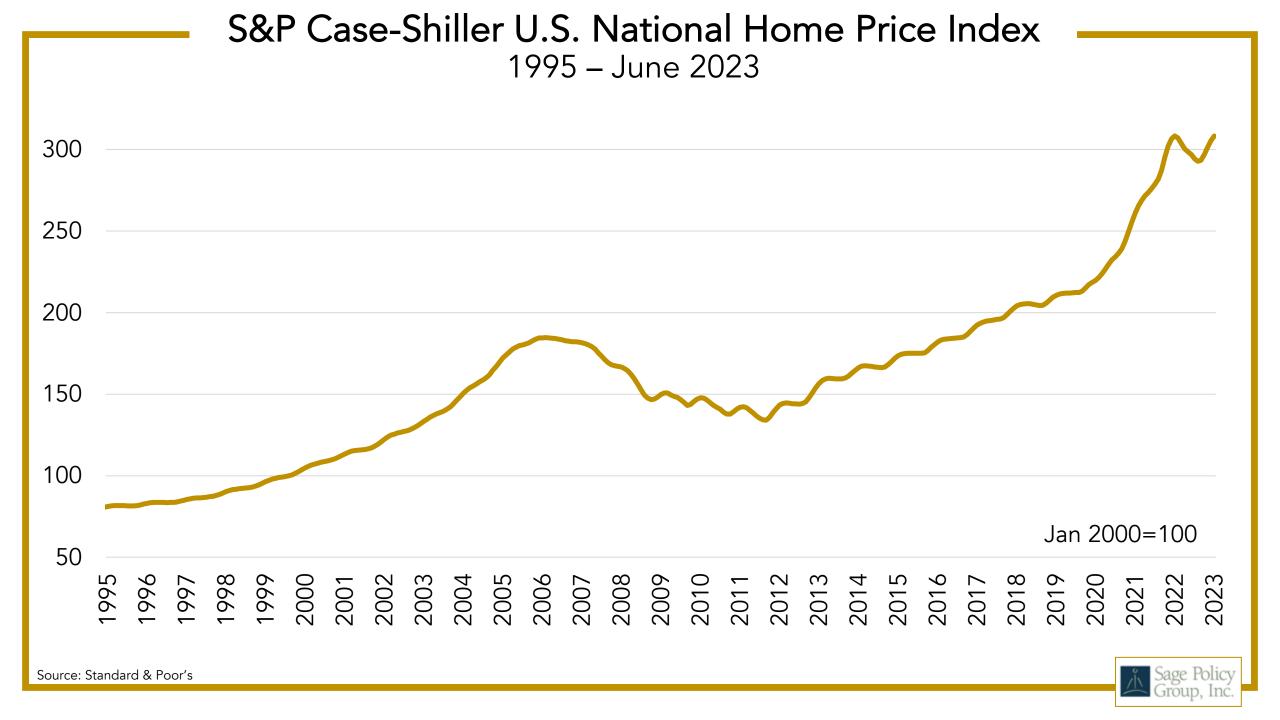


A Few Good Men, 1992)

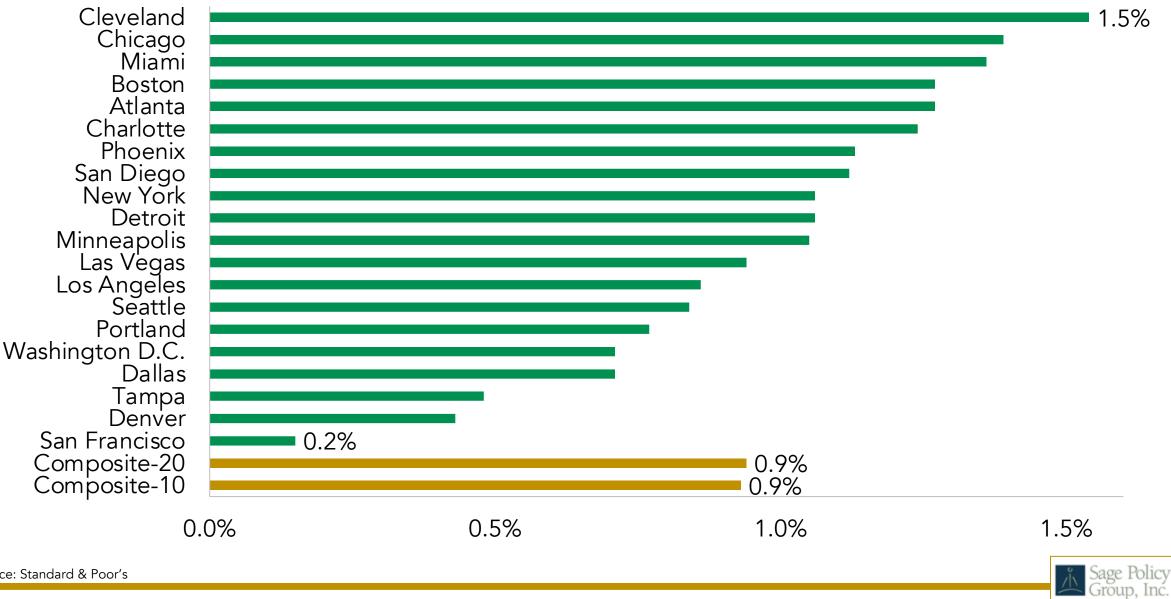


U.S. Mortgage Loan Applications Composite Index 1990 – August 2023



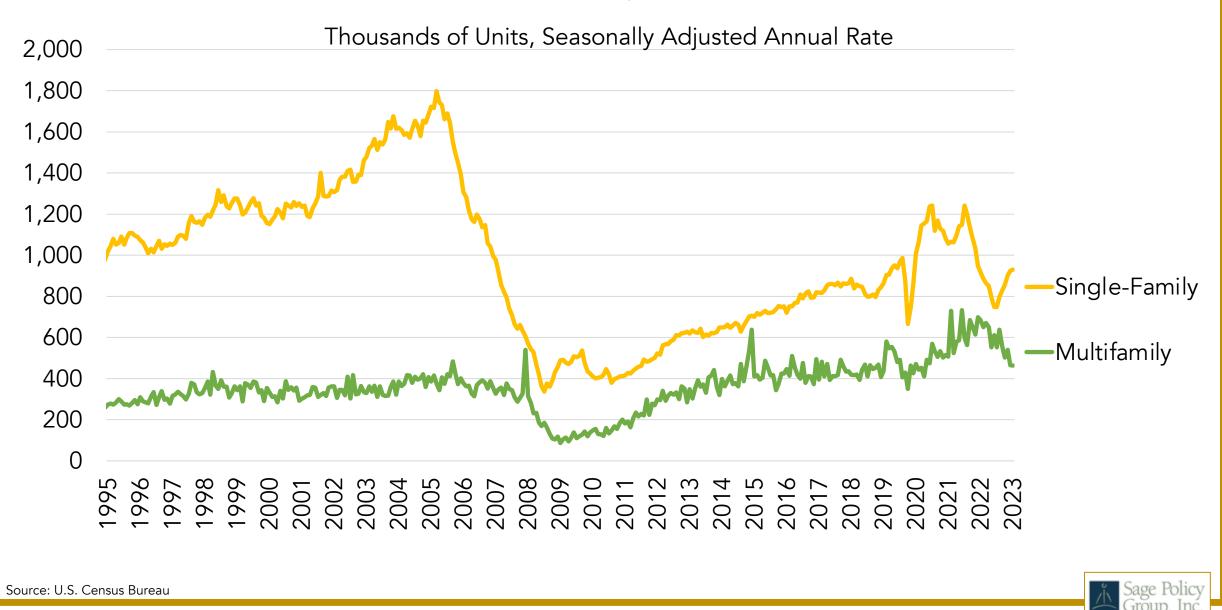


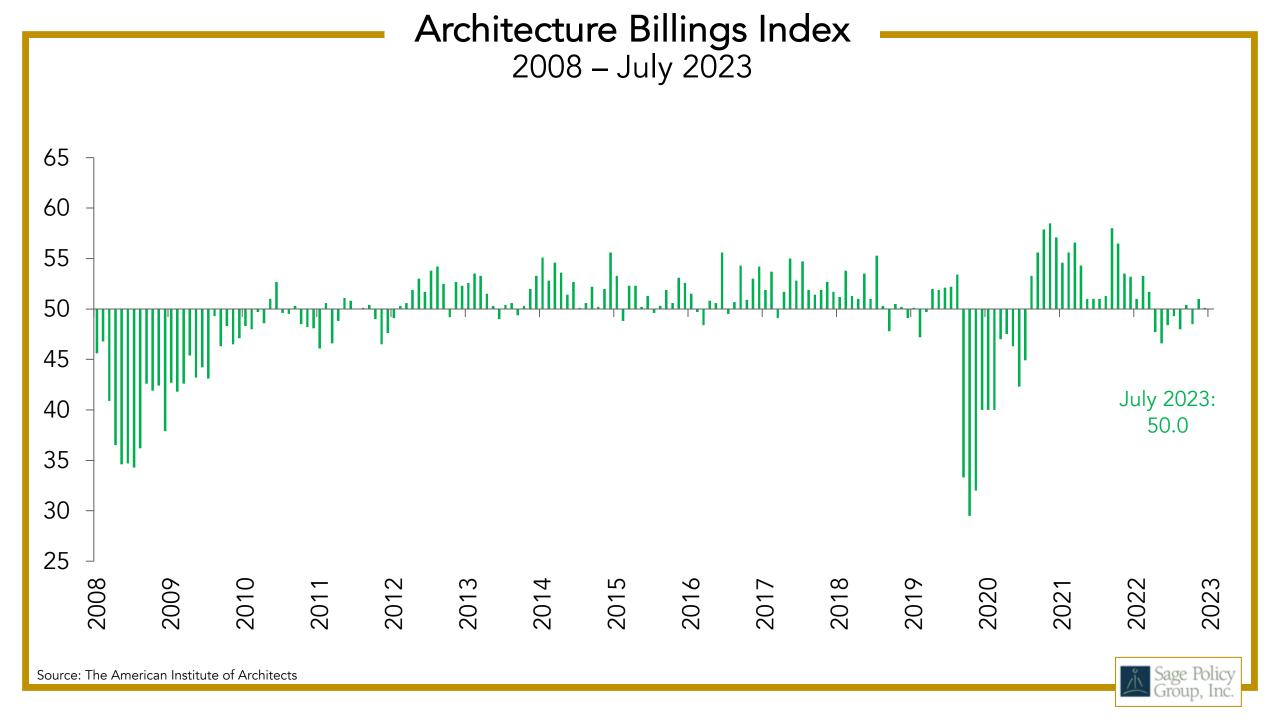
S&P Case-Shiller Home Price Index by Metro Area 1-Month % Change, June 2023

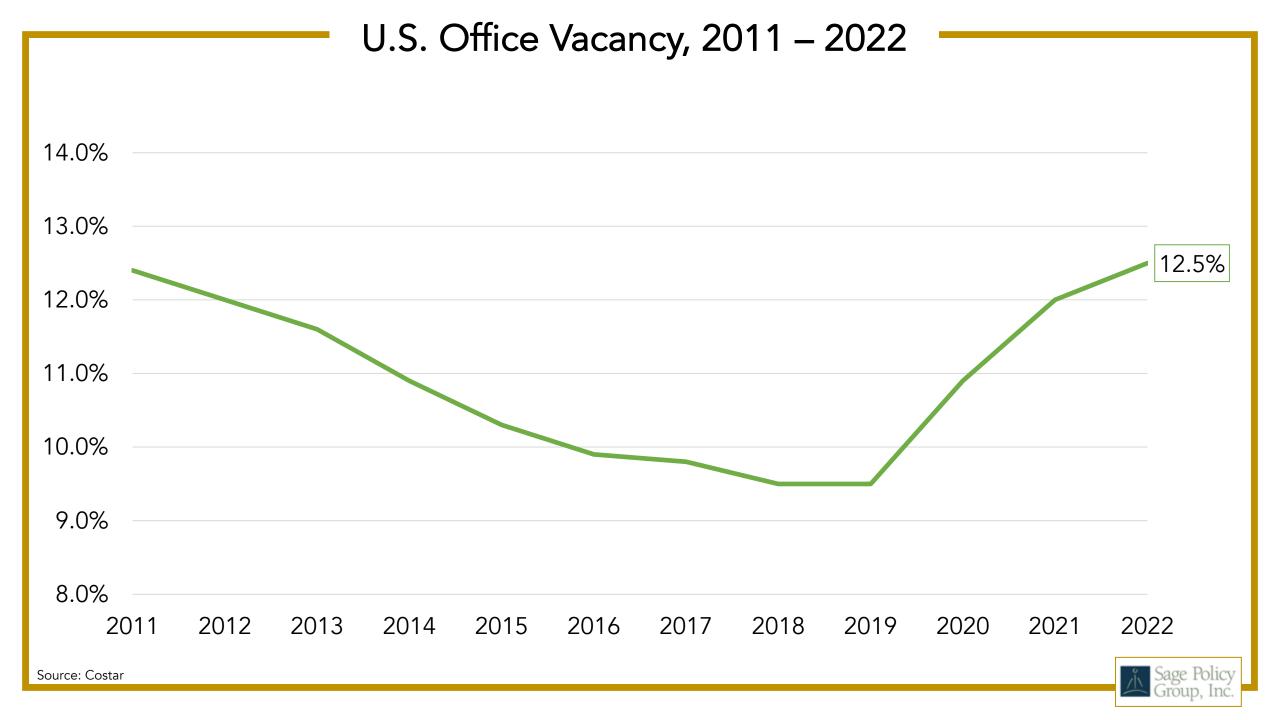


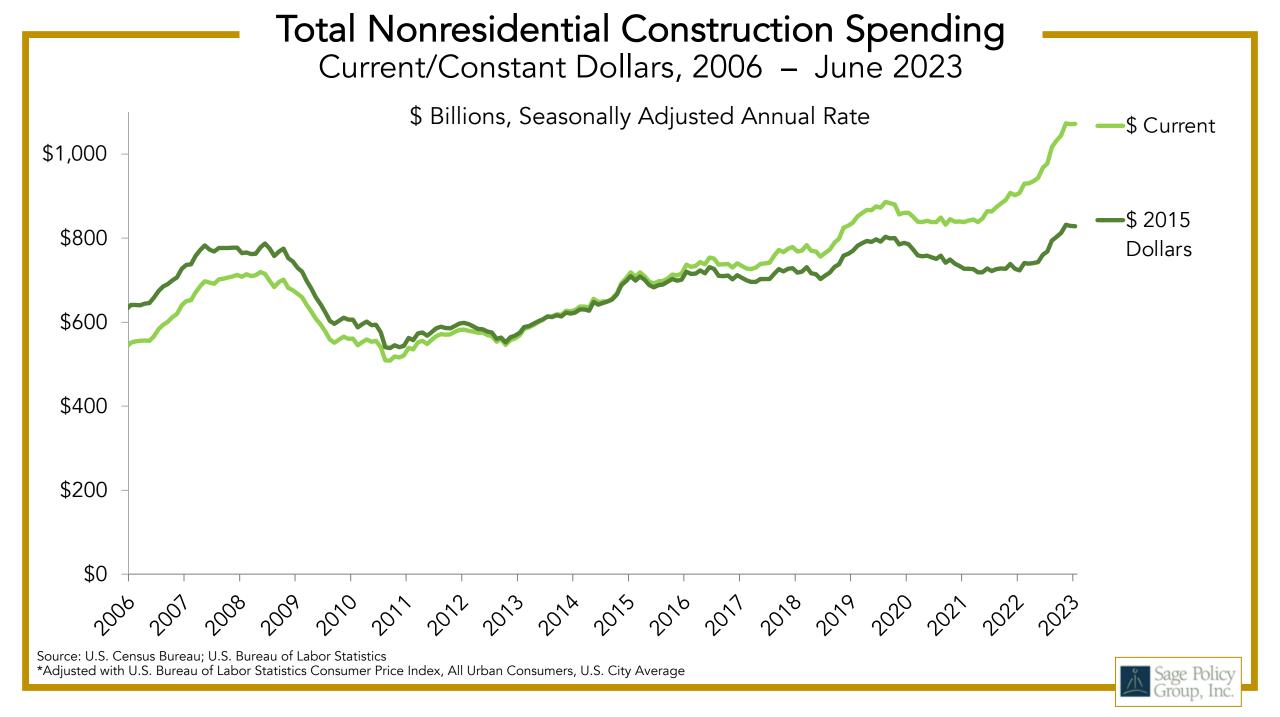
Source: Standard & Poor's

U.S. Residential Building Permits 1995 – July 2023

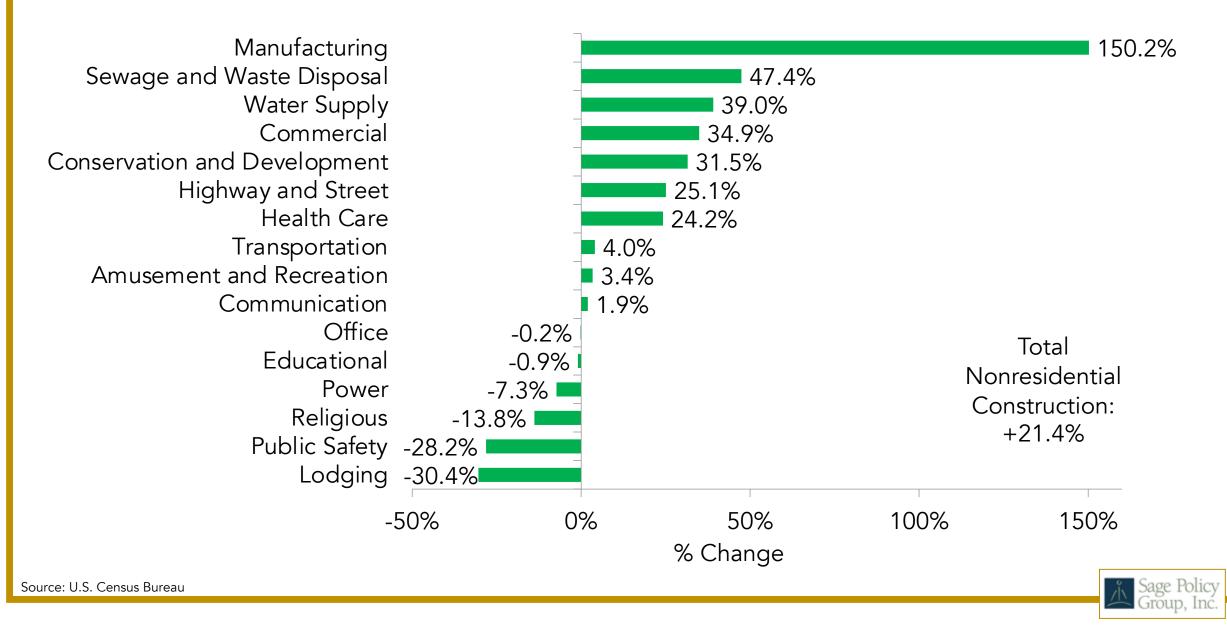




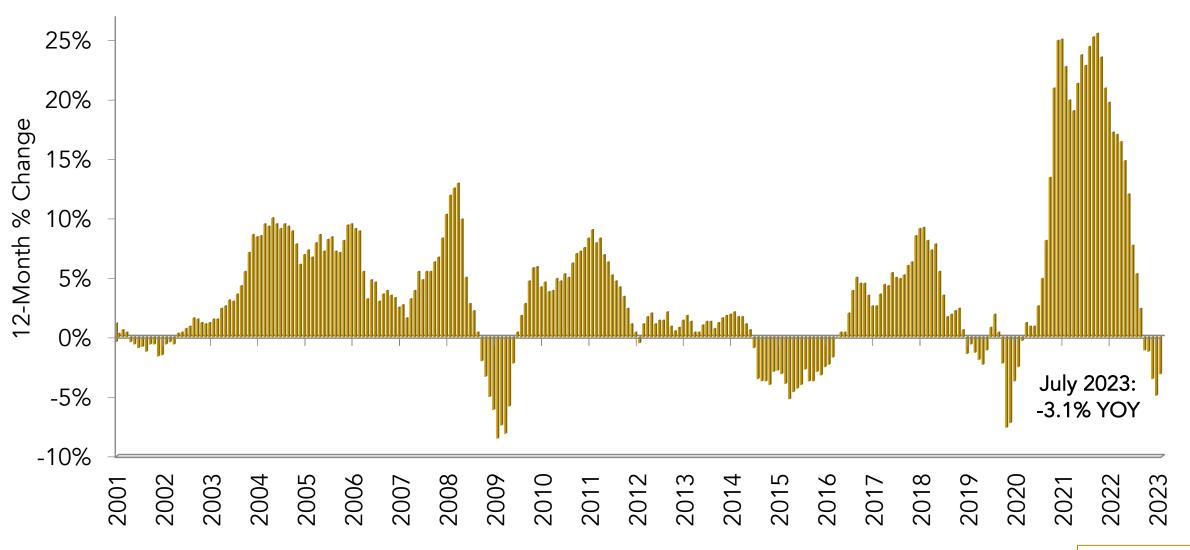




Nonresidential Construction Spending by Subsector February 2020 v. June 2023 (Current \$)



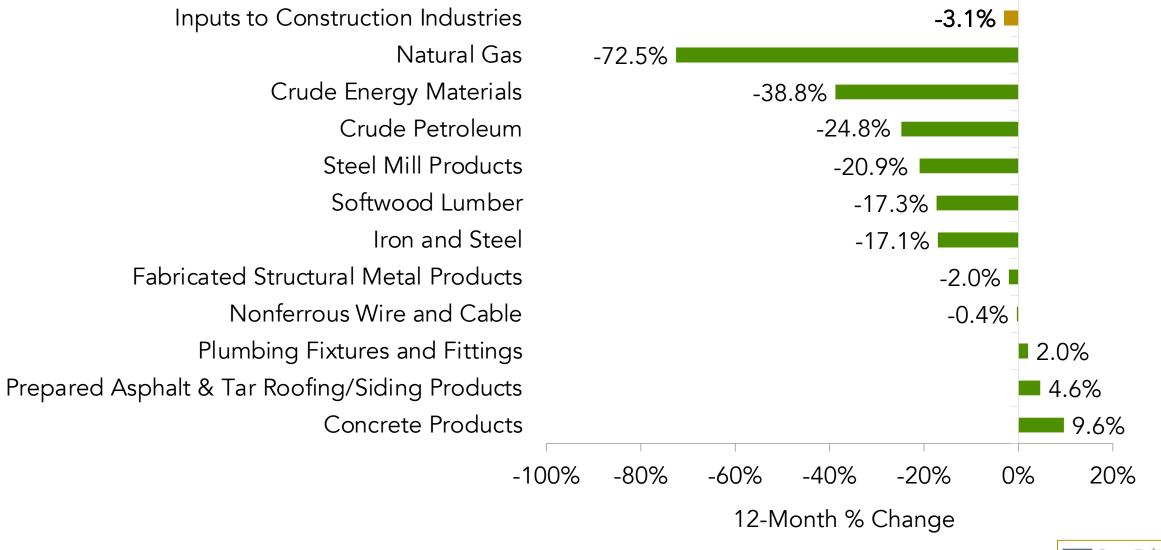
Inputs to Construction PPI 12-Month % Change, 2001 – July 2023



Source: U.S. Bureau of Labor Statistics. Note: Data are not seasonally adjusted



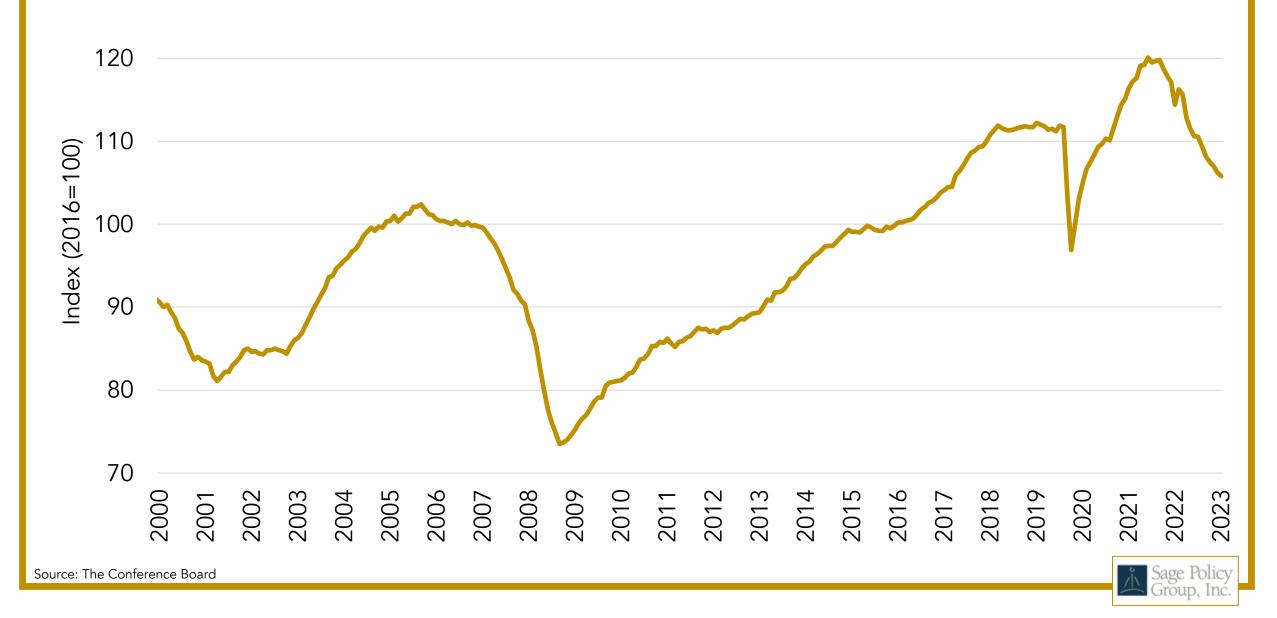
Construction Materials PPI 12-Month % Change as of July 2023

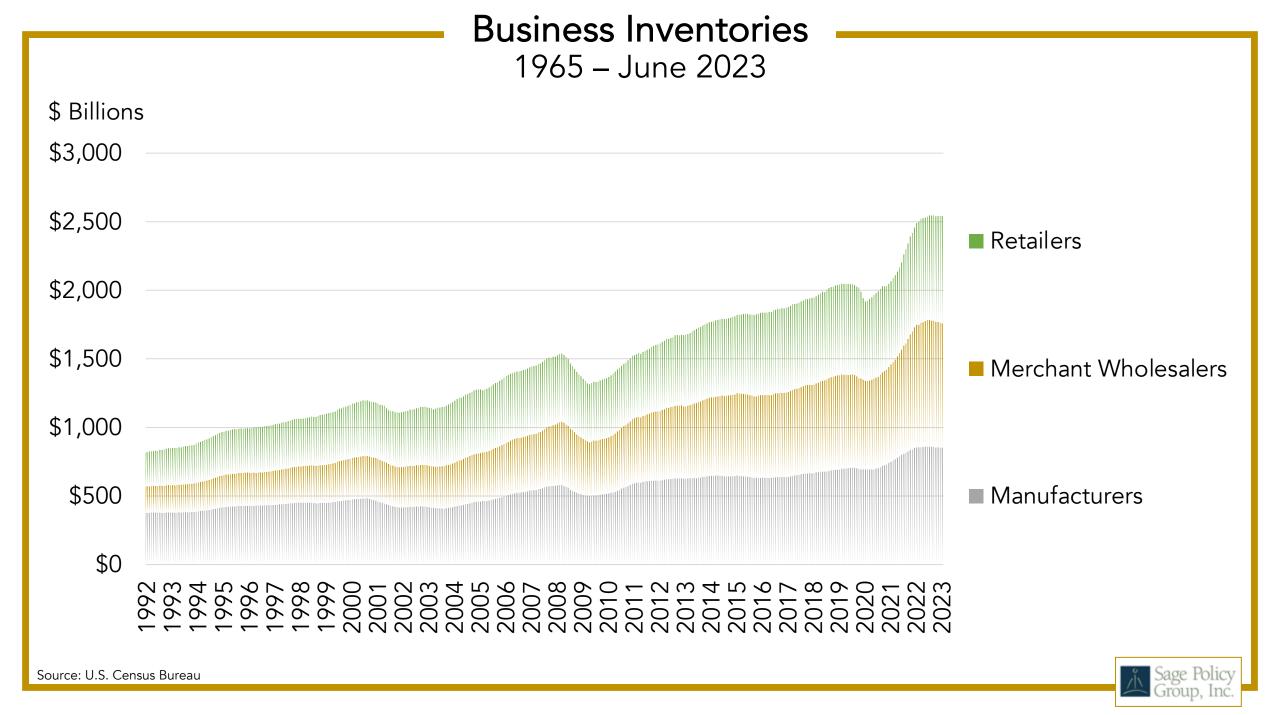


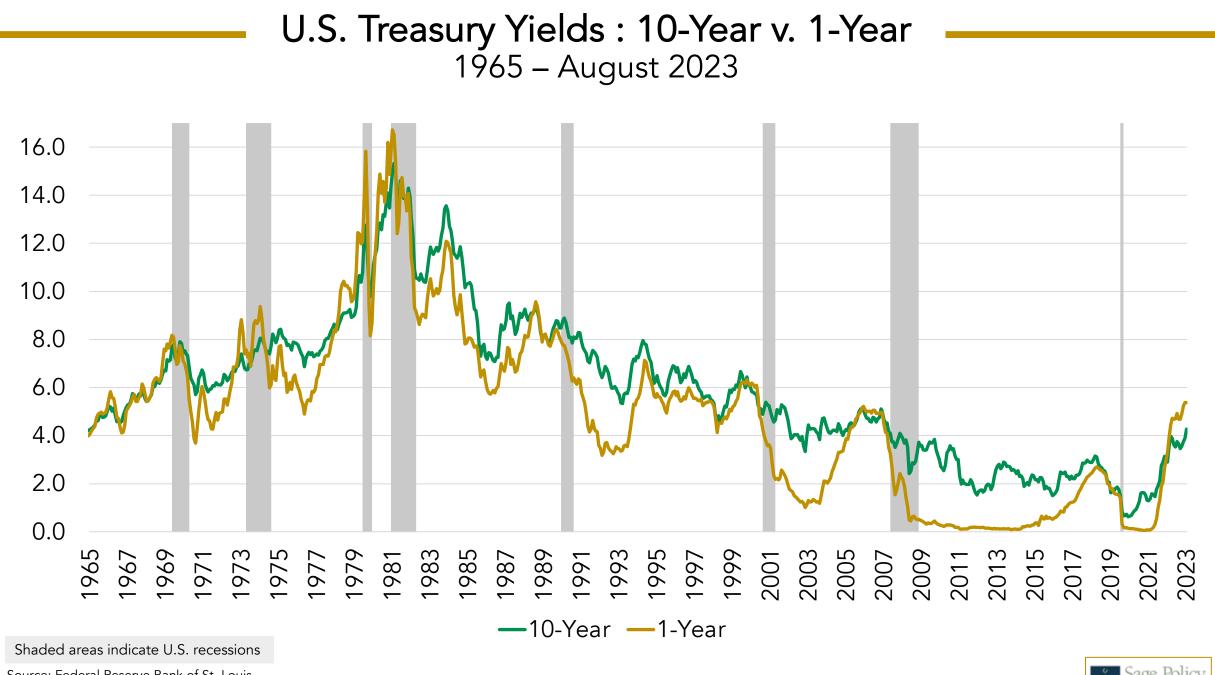




Conference Board: U.S. Leading Economic Index 2000 – July 2023







Source: Federal Reserve Bank of St. Louis



You Can't Handle the Truth!

- It's going to get worse before it gets better.
- The global economy is weakening, the national economy is weakening, borrowing costs are higher, and excess inflation persists.
- Some segments stand to hold up better than others, including public construction, grocery stores, and multifamily housing.
- At some point, the Federal Reserve will stop raising rates that will represent a key inflection point for the economy.
- Recessionary conditions will prevail at some point over the next 12 months.



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