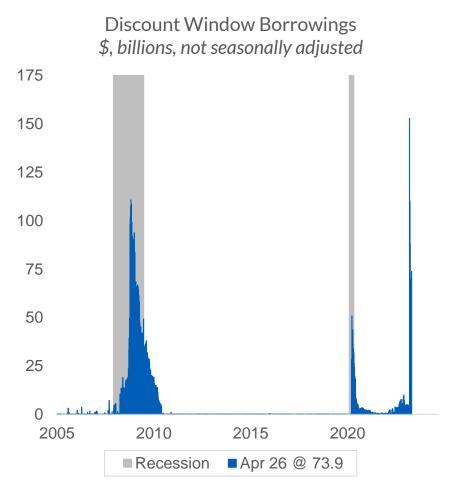
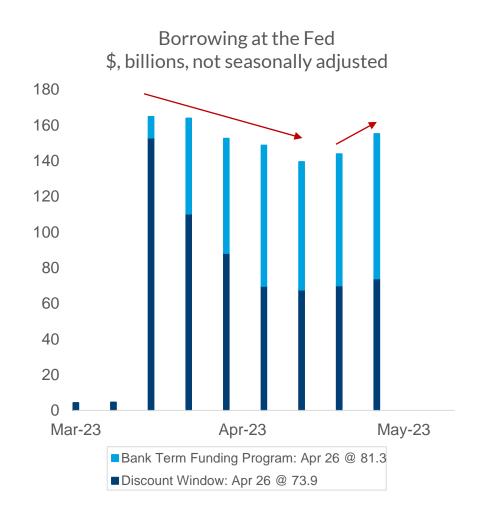




#### **Recent News**



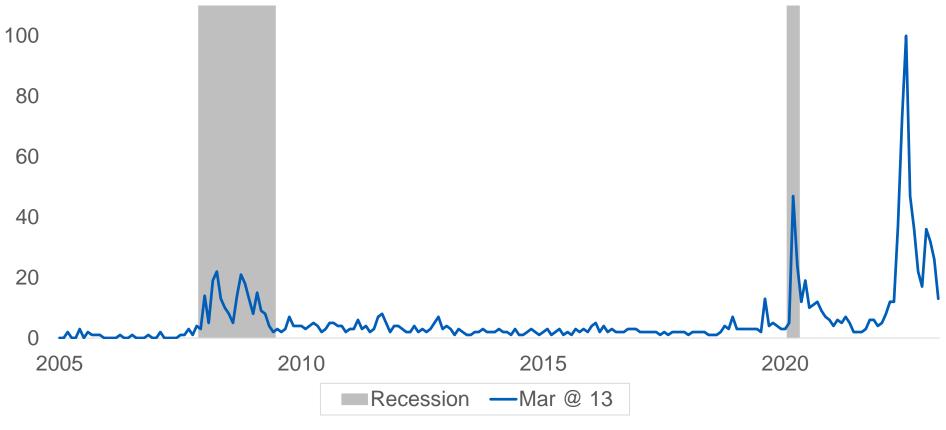


Data current as of April 30, 2023 Source: Federal Reserve Bank Information is subject to change and is not a guarantee of future results.



### The "Godot" Recession





Data current as of April 30, 2023

Source: Google



"In economics, things take longer to happen than you think they will, and they happen faster than you thought they could."

-Rudi Dornbusch, MIT Economist



# Recession



#### Recession

A significant decline in economic activity spread across the economy, lasting more than a few months.

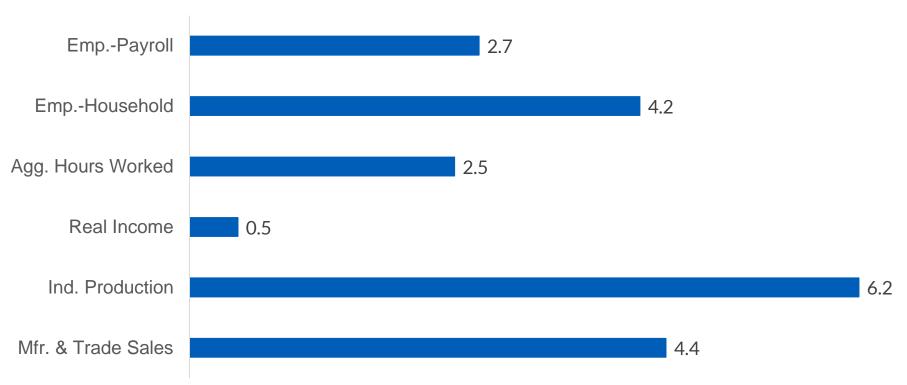
It is normally visible in real GDP, real income, employment, industrial production, and wholesale-retail sales.

Source: National Bureau of Economic Research Information is subject to change and is not a guarantee of future results.



#### Recession

NBER - Recession Indicators %, three month change, annualized



Data current as of April 30, 2023

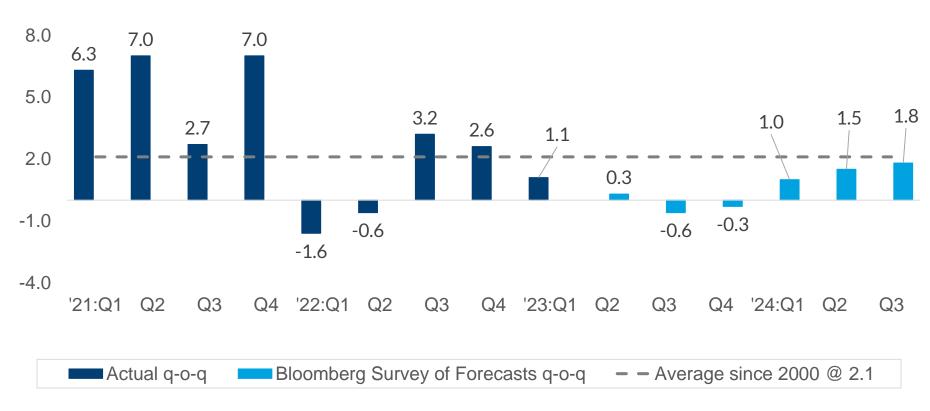
Source: Bureau of Economic Research, Bureau of Labor Statistics, Federal Reserve, U.S. Census Bureau Labor reports (April), Income report (March), Industrial Production (March), and Mfr. & Trade sales (January) Information is subject to change and is not a guarantee of future results.



# GDP

### **GDP**

GDP: Actual and Forecast % change, q-o-q, seasonally adjusted annualized rate

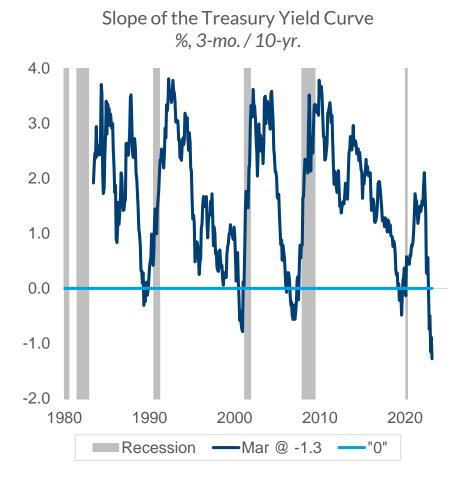


Data current as of April 30, 2023

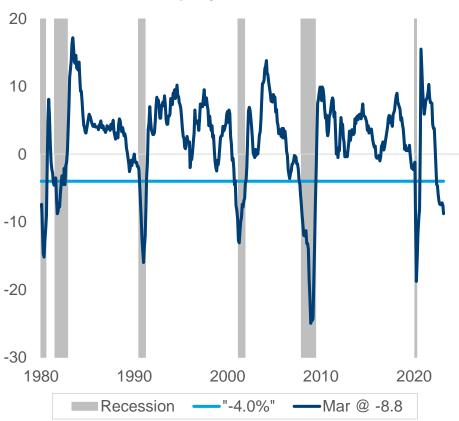
Source: Bureau of Economic Research, Bloomberg



### **GDP - Leading Indicators of a Recession**



U.S. Leading Index 6-month Change %, seasonally adjusted annualized rate

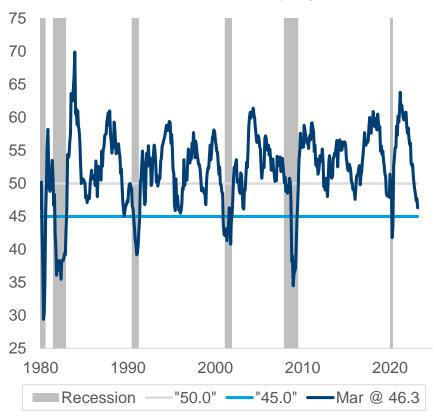


Data current as of April 30, 2023 Source: Conference Board, Bloomberg Information is subject to change and is not a guarantee of future results.

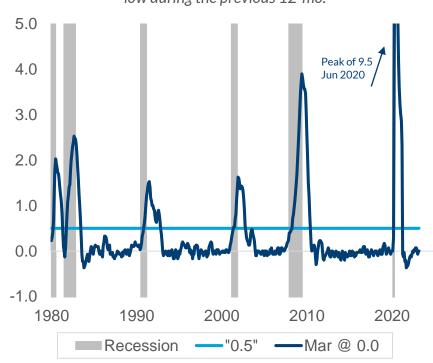


# **GDP - Leading Indicators of a Recession**

ISM Manufacturing diffusion index, seasonally adjusted

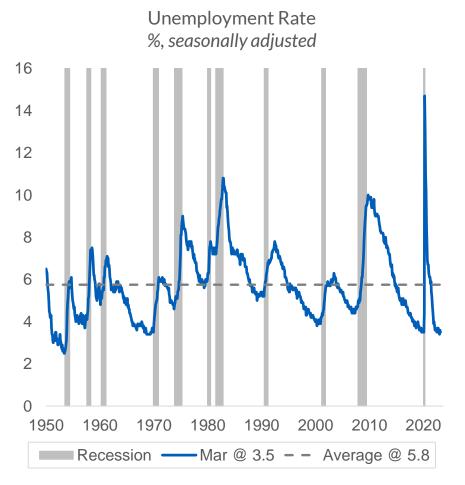


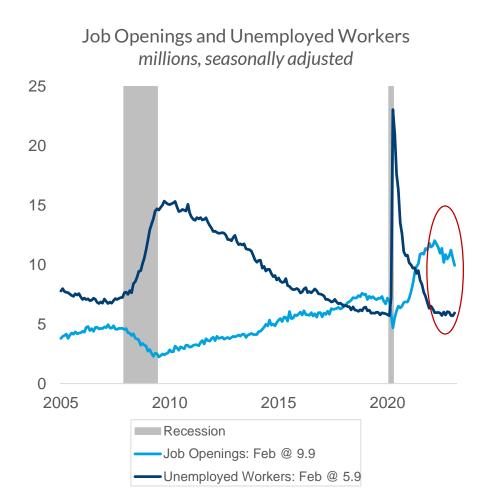
Sahm Rule Recession Indictor
%, seasonally adjusted
when the 3-mo. moving average of the unemployment
rate rises 0.5 percentage points or more relative to its
low during the previous 12-mo.



Data current as of April 30, 2023 Source: Institute of Supply Management, St. Louis Fed Information is subject to change and is not a guarantee of future results.



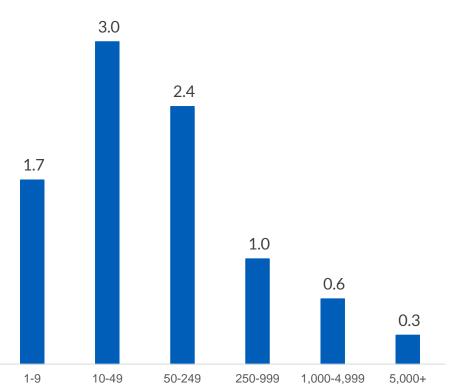




Data current as of April 30, 2023 Source: Bureau of Labor Statistics Information is subject to change and is not a guarantee of future results.



Job Opening by Company Size '000, seasonally adjusted, February 2023

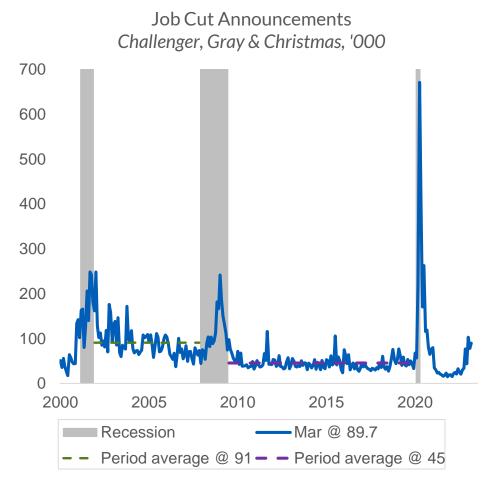


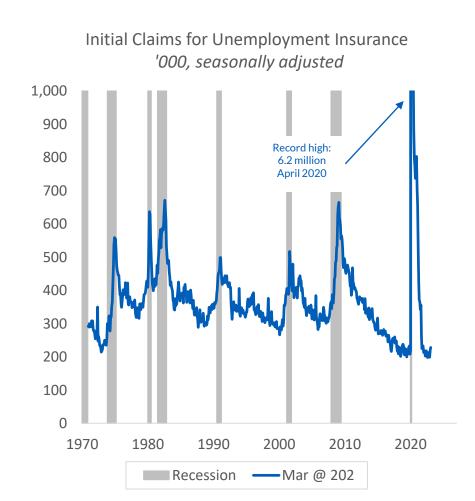
Data current as of April 30, 2023 Source: Bureau of Labor Statistics Information is subject to change and is not a guarantee of future results.









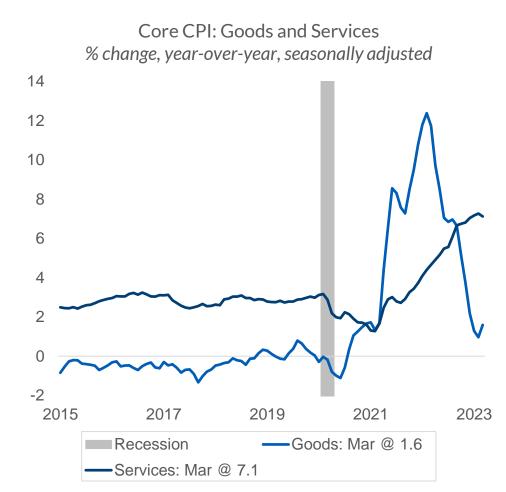


Data current as of April 30, 2023 Source: Challenger, Gray & Christmas, Bureau of Labor Statistics Information is subject to change and is not a guarantee of future results.



% change, y-o-y, seasonally adjusted 14 12 10 8 6 4 2 0 -2 -4 1980 1990 2010 2020 2000 Recession CPI: Mar @ 5.0 ······Current level

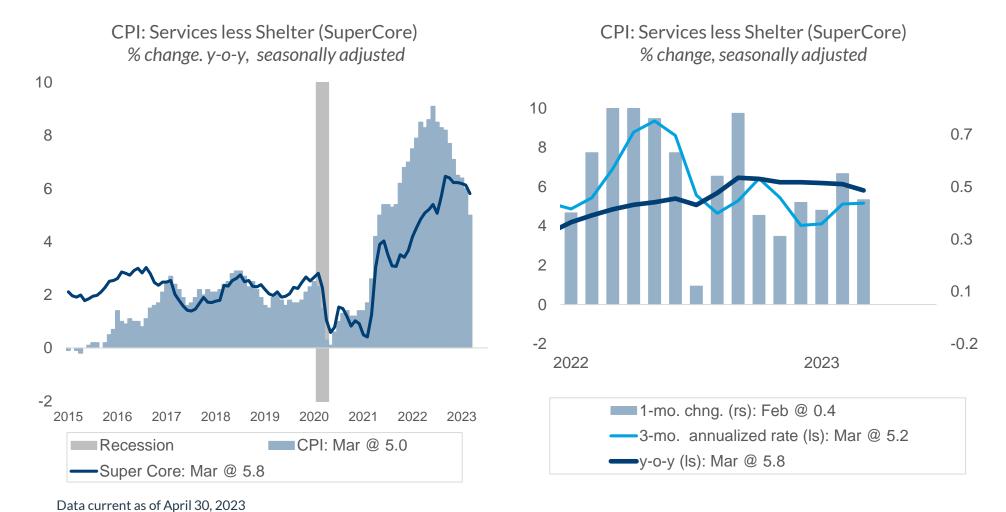
Consumer Price Index



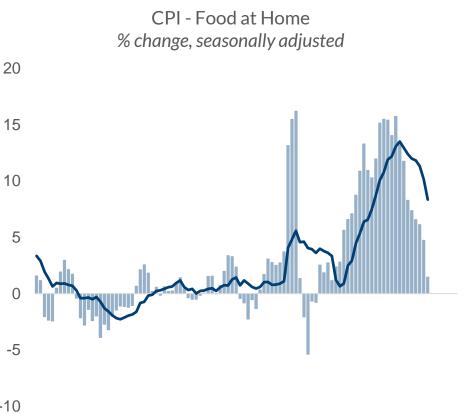
Data current as of April 30, 2023 Source: Bureau of Labor Statistics Information is subject to change and is not a guarantee of future results.

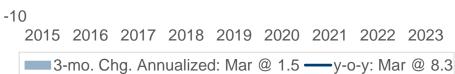


Source: Bureau of Labor Statistics

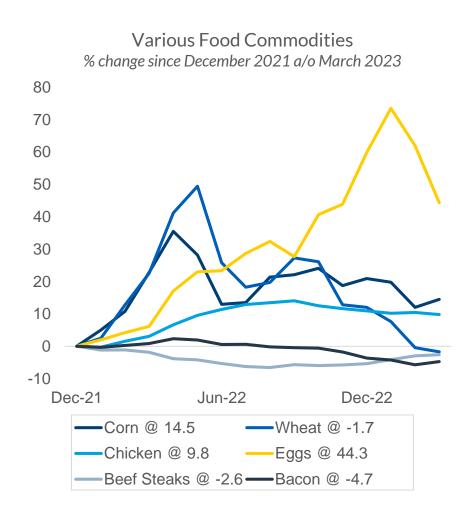




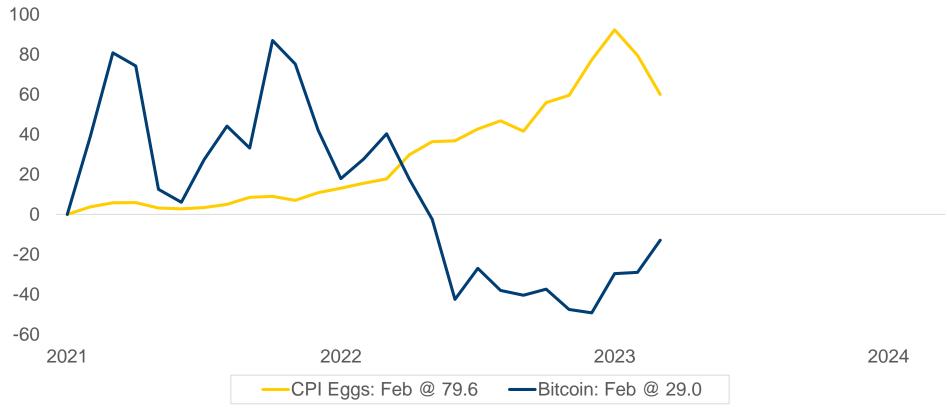




Data current as of April 30, 2023 Source: Bureau of Labor Statistics Information is subject to change and is not a guarantee of future results.



Eggs v. Bitcoin % change, indexed at "0" on March 2021



Data current as of April 30, 2023

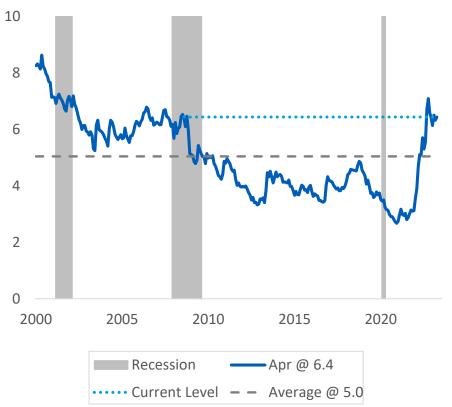
Source: Bureau of Labor Statistics, Bloomberg, spot price

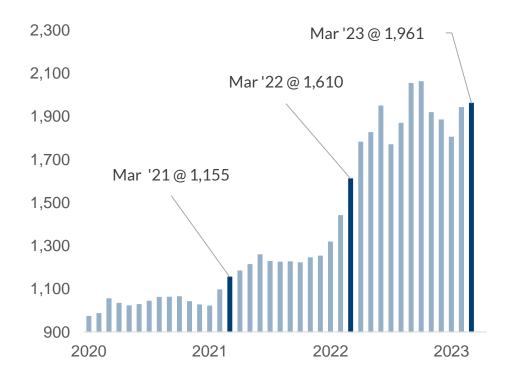
# Housing

## Housing



Monthly Mortgage Payment - Median Existing Home \$, 30-year fixed rate mortgage, 80% financing





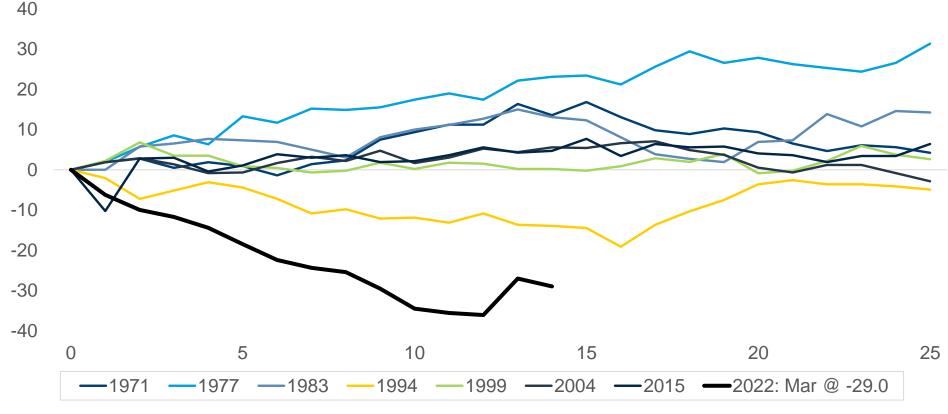
Data current as of April 30, 2023

Source: FreddieMac, National Association of Realtors, CNR Research Information is subject to change and is not a guarantee of future results.



# Housing

Existing One Family Home Sales cumulative % change since start of Fed hiking cycle

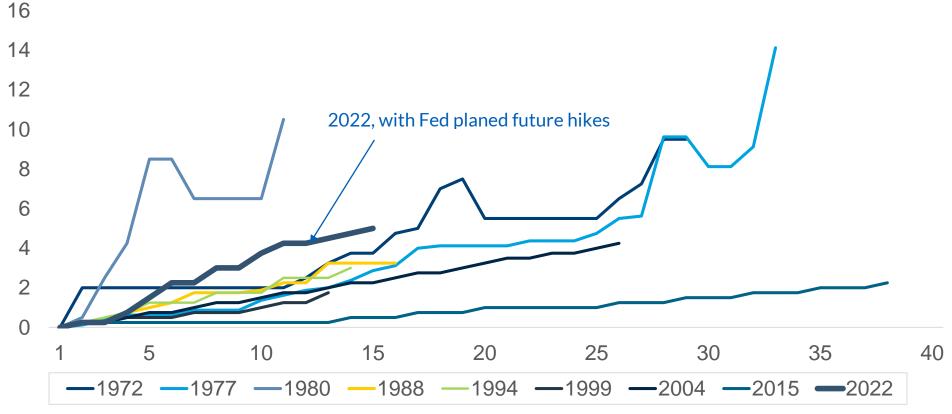


Data current as of April 30, 2023

Source: FreddieMac, National Association of Realtors



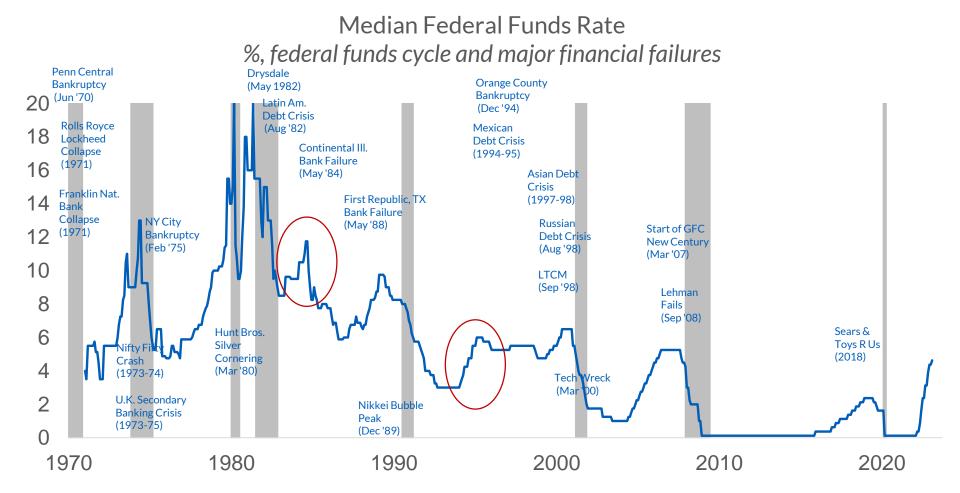
# Federal Funds Rate Across Tightening Cycles change in percentage points, months



Data current as of March 31, 2023

Source: Federal Reserve



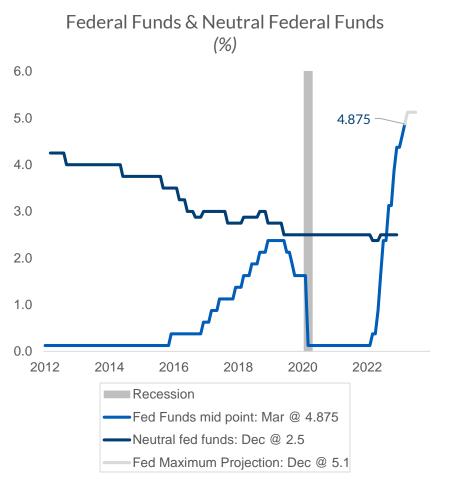


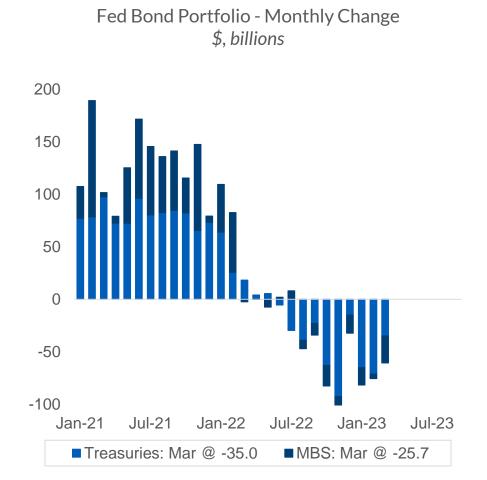
Data current as of March 31, 2023 Source: Federal Reserve, dates for financial failures are from Wikipedia Information is subject to change and is not a guarantee of future results.



The Three "P's" of the Fed, peak, pause pivot.

The federal funds rate is near its peak, so the Fed will pause from future hikes to observe how the economy will respond to cumulative interest rate changes. The Fed believes they will wait until next year before the pivot toward a lower federal funds rate.



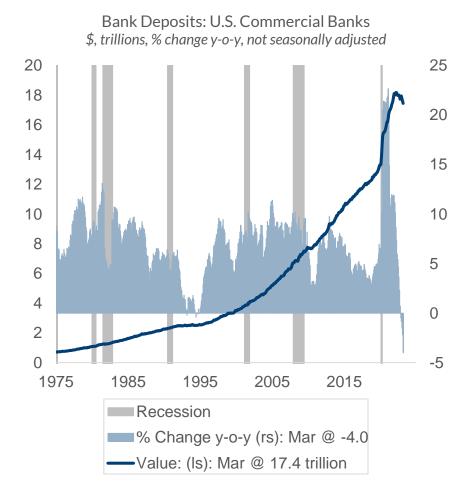


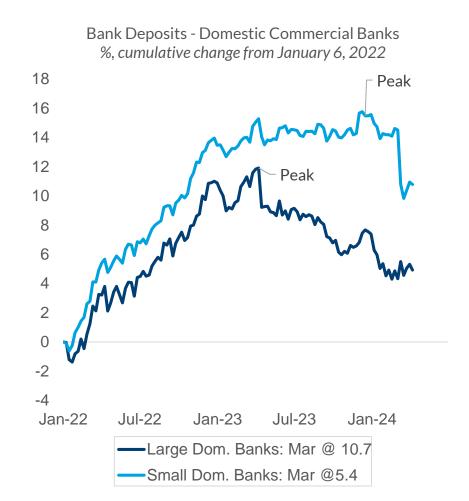
Data current as of April 25, 2023

Source: Federal Reserve

# Banking



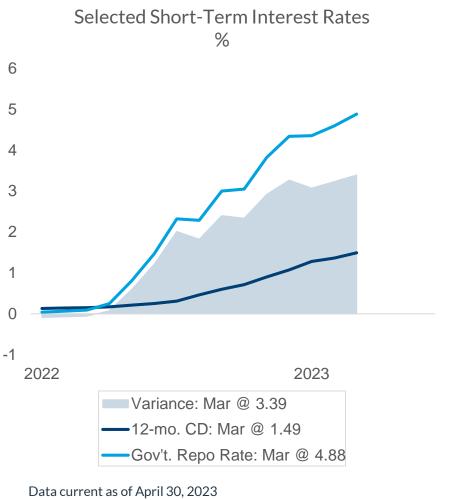


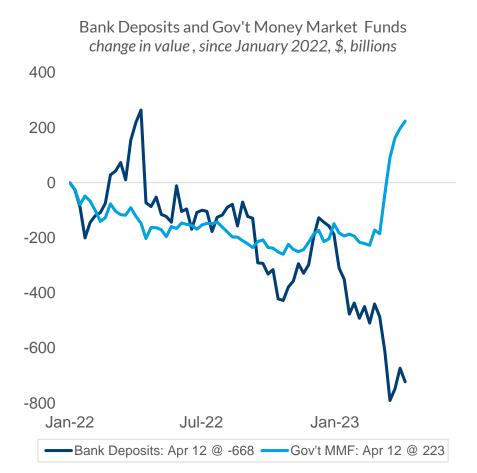


Data current as of April 30, 2023 Source: Federal Reserve Bank of New York Information is subject to change and is not a guarantee of future results.



Banks are competing with government money market funds that offer substantially higher yields. It is causing some depositor to move their money.

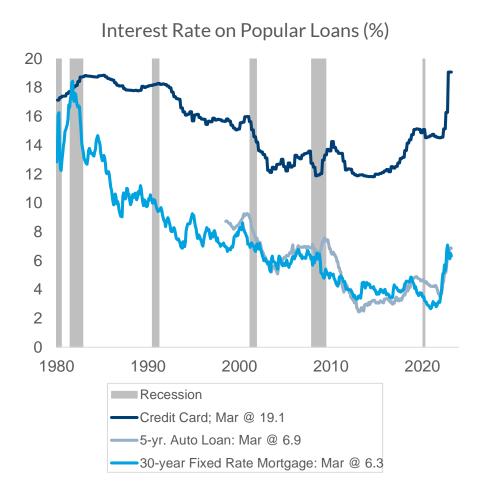


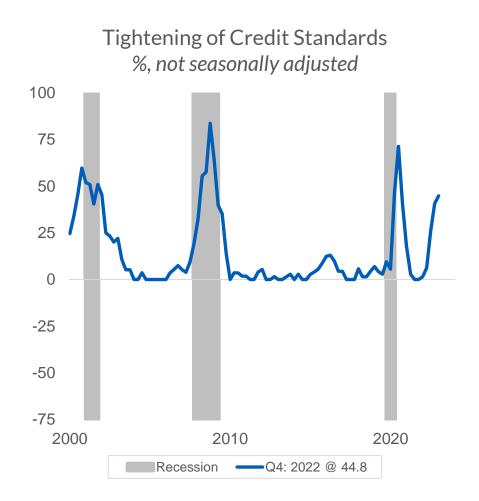


Data current as of April 30, 2023 Source; FDIC, Bloomberg Composite Rate, Information is subject to change and is not a guarantee of future results.



# **Banking**

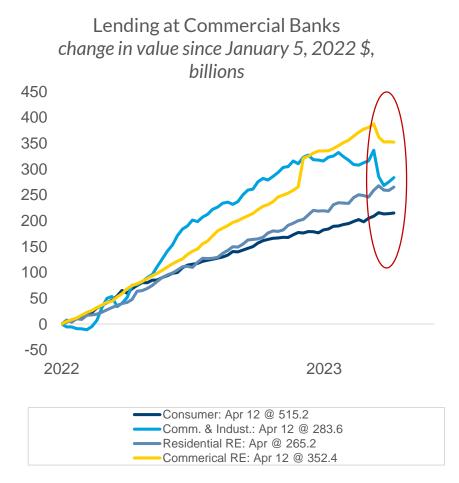


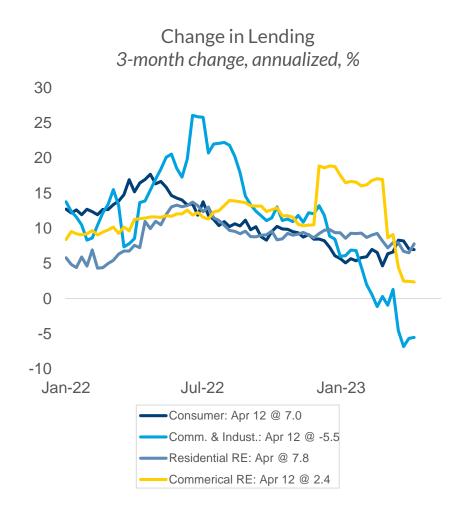


Data current as of April 30, 2023 Source: Federal Reserve, Bankrate.com, FreddieMac Information is subject to change and is not a guarantee of future results.

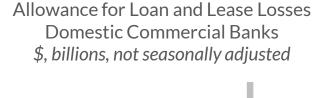


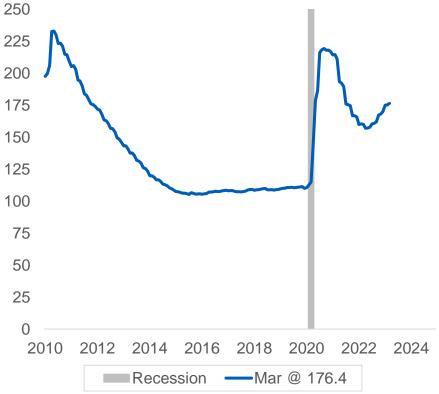
# **Banking**





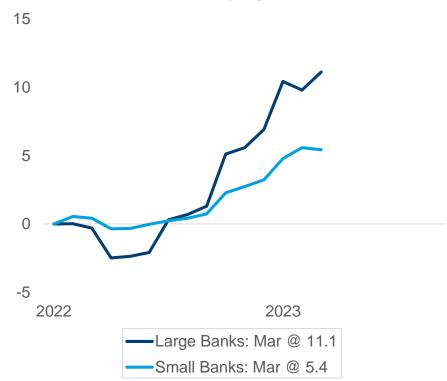
Data current as of April 30, 2023 Source: Federal Reserve



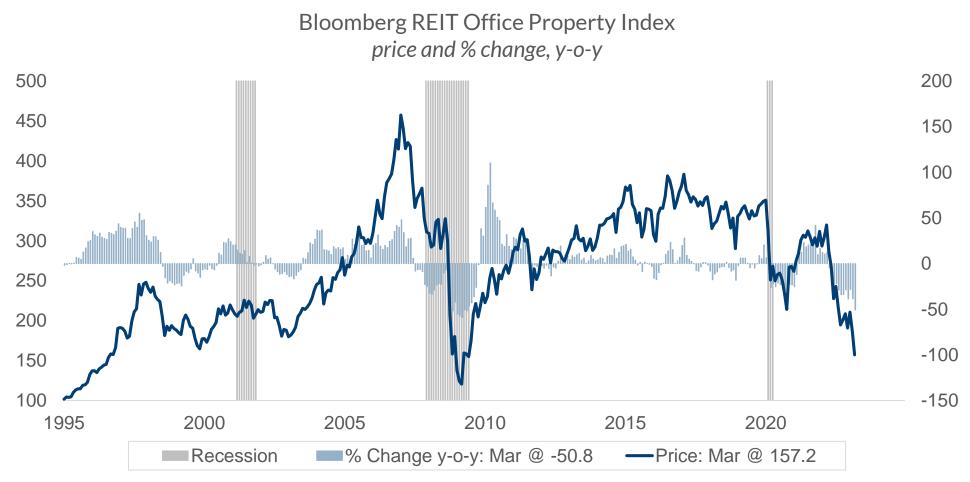


Data current as of April 30, 2023 Source; Federal Reserve, Nareit, CoStar Information is subject to change and is not a guarantee of future results.

Allowance for Loan and Lease Losses Domestic Commercial Banks change from January 2022, \$, billions, not seasonally adjusted

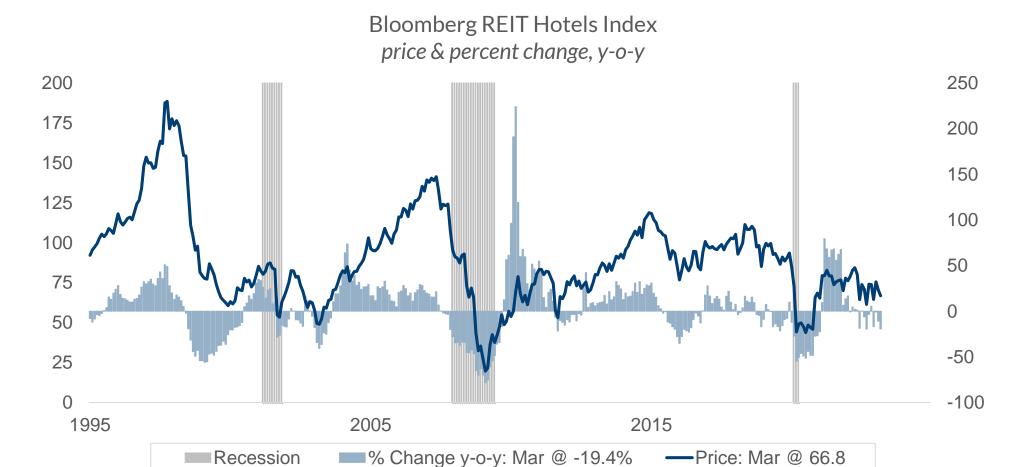






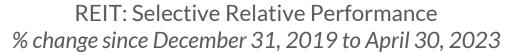
Data current as of April 30, 2023 Source: Bloomberg, not for use as a financial benchmark Information is subject to change and is not a guarantee of future results.

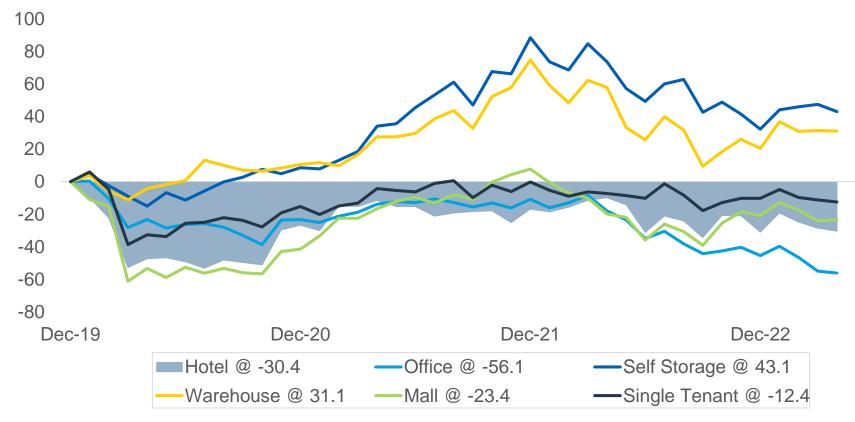




Data current as of April 30, 2023 Source: Bloomberg, not for use as a financial benchmark Information is subject to change and is not a guarantee of future results.







Data current as of April 30, 2023

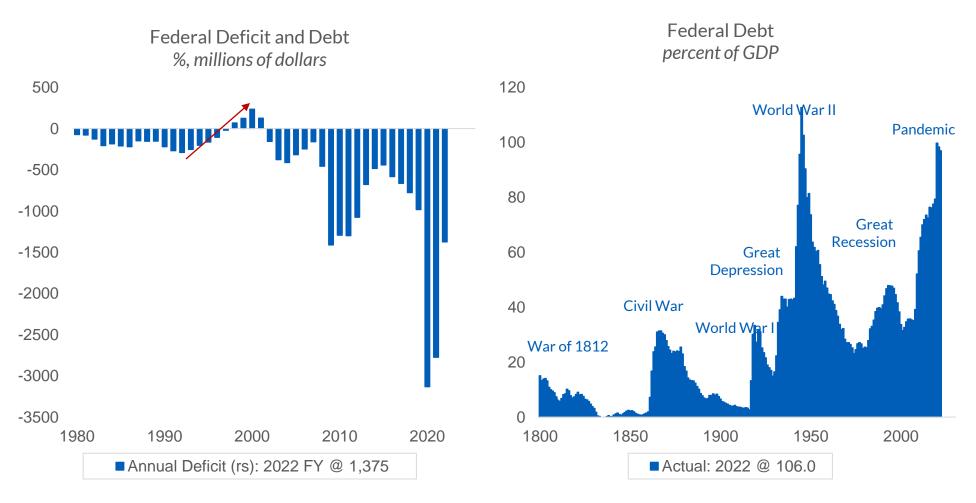
Source: Bloomberg, not for use as a financial benchmark



# Federal Debt



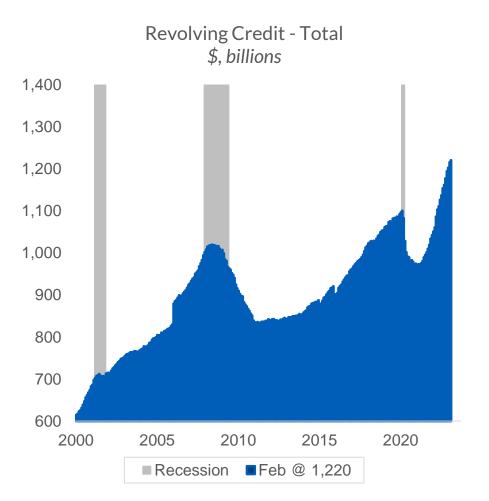
### **Federal Debt**

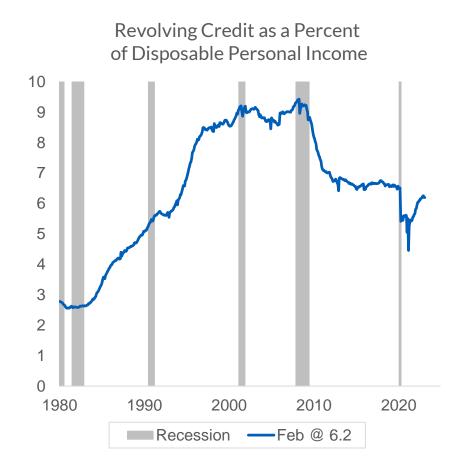


Data current as of April 30, 2023 Source: Federal Reserve Information is subject to change and is not a guarantee of future results.



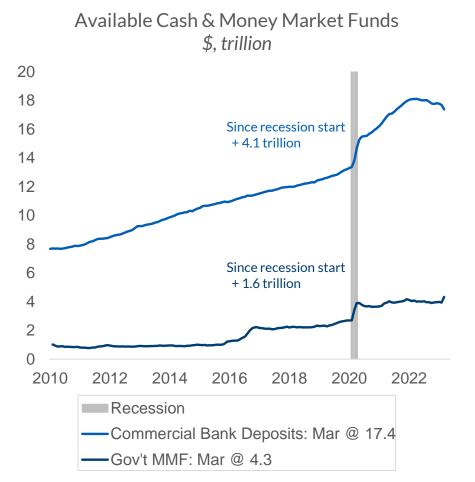




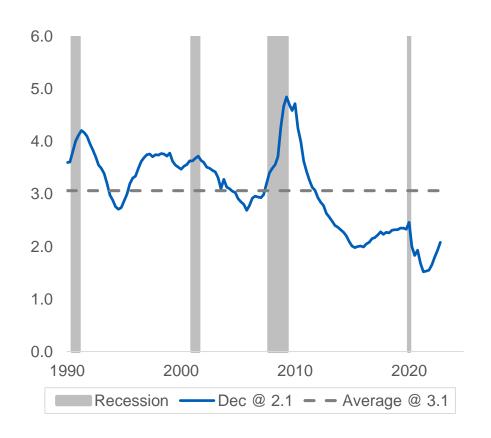


Data current as of April 30, 2023 Source: Federal Reserve, Bureau of Economic Research Information is subject to change and is not a guarantee of future results.





Delinquency Rates for All Consumer Loans %, seasonally adjusted

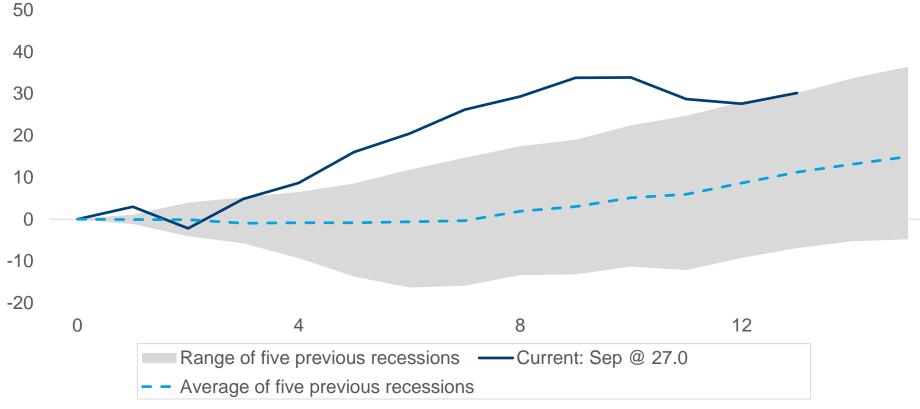


Data current as of April 30, 2023

Source: Federal Reserve, Investment Company Institute, Information is subject to change and is not a guarantee of future results.



Household Net Worth % cumulative change, indexed at 0.0 at pre-recession level, NSA



Data current as of April 30, 2023

Source: Federal Reserve







### **Index Definitions**

Consumer Price Index (CPI). A consumer price index (CPI) measures changes in the price level of a market basket of consumer goods and services purchased by households. The CPI is a statistical estimate constructed using the prices of a sample of representative items whose prices are collected periodically.

Real estate sector or REITs. Concentrating assets in the real estate sector or REITs may disproportionately subject a portfolio to the risks of that industry, including the loss of value because of adverse developments affecting the real estate industry and real property values. Investments in REITs may be subject to increased price volatility and liquidity risk; concentration risk is high.

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Non Deposit Investment Products are: Not FDIC Insured, Not Bank Guaranteed, May Lose Value

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Certain statements contained herein may constitute projections, forecasts and other forward-looking statements, which do not reflect actual results and are based primarily upon a hypothetical set of assumptions applied to certain historical financial information. Readers are cautioned that such forward-looking statements are not a guarantee of future results, involve risks and uncertainties, and actual results may differ materially from those statement. Certain information has been provided by third-party sources and, although believed to be reliable, it has not been independently verified and its accuracy or completeness cannot be guaranteed.

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All investing is subject to risk, including the possible loss of the money you invest. As with any investment strategy, there is no guarantee that investment objectives will be met and investors may lose money. Diversification does not ensure a profit or protect against a loss in a declining market. Past performance is no guarantee of future performance.

There are inherent risks with fixed income investing. These risks may include interest rate, call, credit, market, inflation, government policy, liquidity or junk bond risks. When interest rates rise, bond prices fall. This risk is heightened with investments in longer-duration fixed income securities and during periods when prevailing interest rates are low or negative.

