

Economic Developments and Monetary Policy Environment

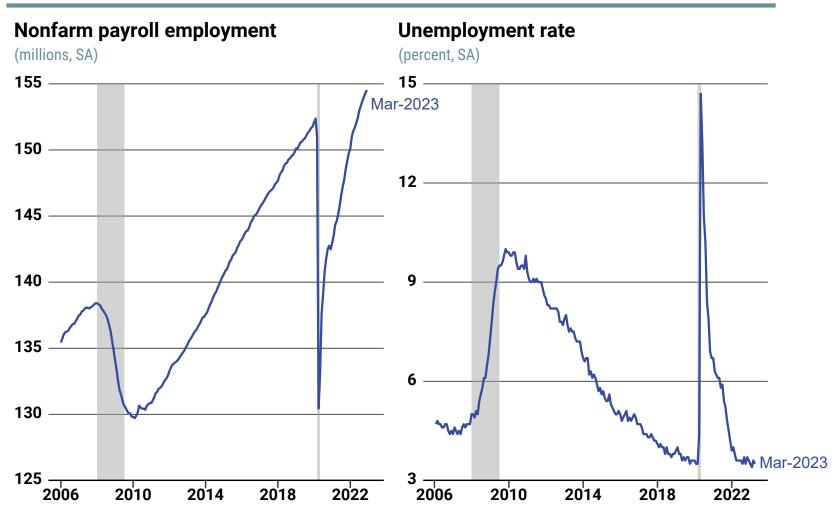
Federal Reserve Bank of Chicago Academic Advisory Council Meeting April 21, 2023

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Federal Reserve Bank of Chicago

The views expressed here do not necessarily reflect the views of the Federal Reserve Bank of Chicago or the Federal

Labor market strong



Source: Bureau of Labor Statistics via Haver Analytics

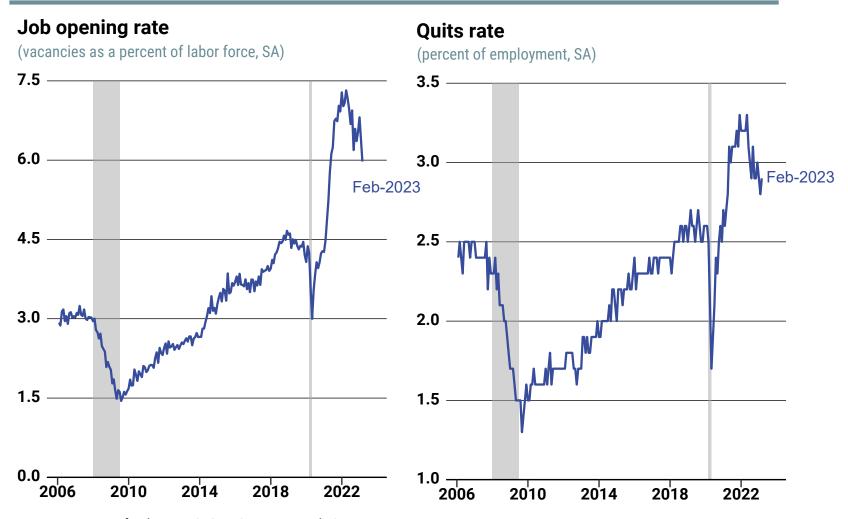
Source: Bureau of Economic Analysis from Haver Analytics

Labor force participation rates



Source: Bureau of Labor Statistics via Haver Analytics, internal series from the Chicago Fed using methodology in Aaronson, Hu, Saifoddini, and Sullivan

Job openings and quits off peak, but still high



Compensation, labor costs, and prices



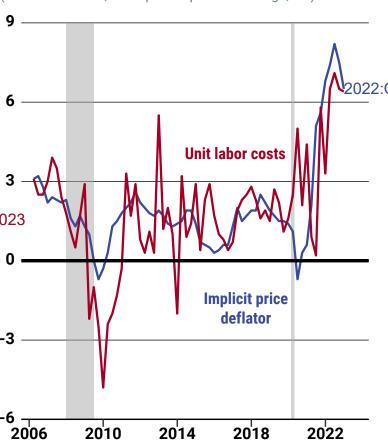
(private workers, percent change year-to-year, SA)

10 Mar-2023 **Average hourly** earnings 2022:Q4 **Employment** cost index 2006 2010 2018 2014 2022

Source: Bureau of Labor Statistics via Haver Analytics

Unit labor costs and inflation

(business sector, four-quarter percent change, SA)

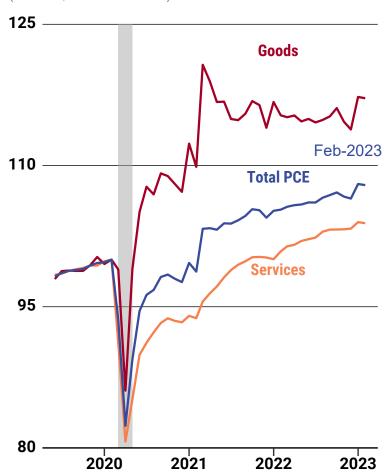


Source: Bureau of Labor Statistics via Haver Analytics

Household spending

Real personal consumption expenditures

(indexed, Feb-2020 = 100)



Source: U.S. Bureau of Economic Analysis via Haver Analytics

Light vehicle sales

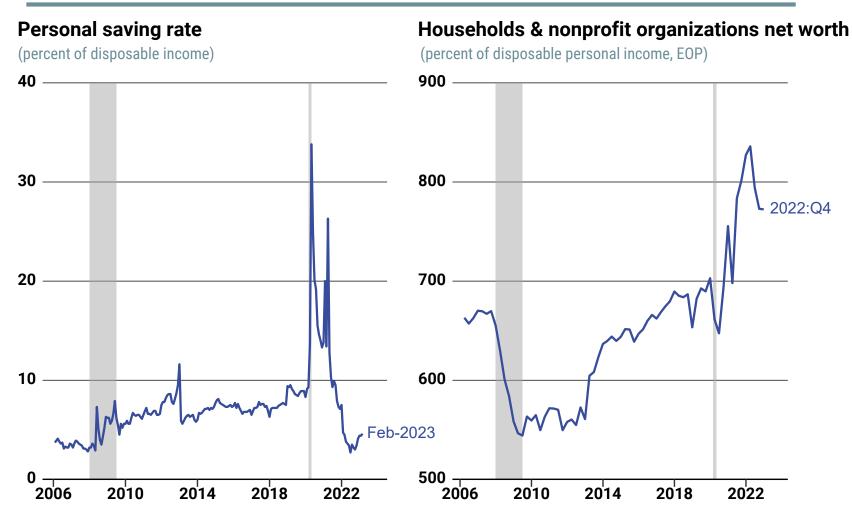


Single family housing starts and permits (millions, SAAR)



Source: Census Bureau via Haver Analytics

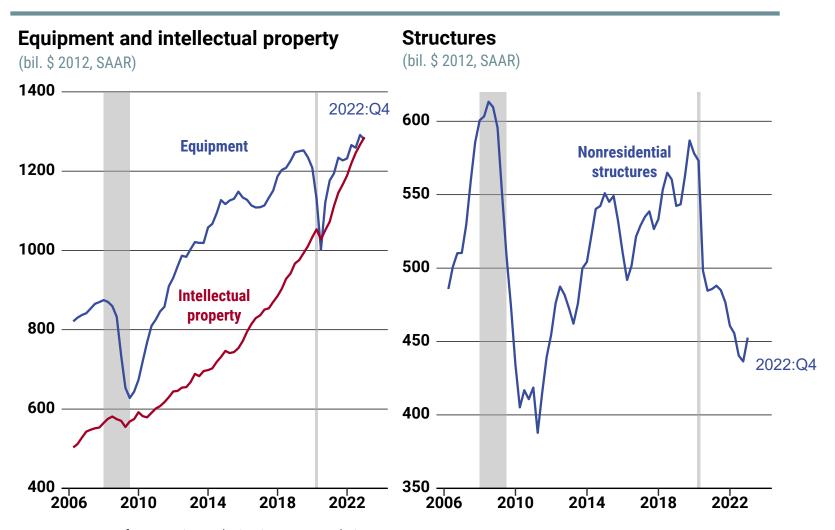
Household balance sheets



Source: Bureau of Economic Analysis via Haver Analytics

Source: Federal Reserve Board via Haver Analytics

Nonresidential investment

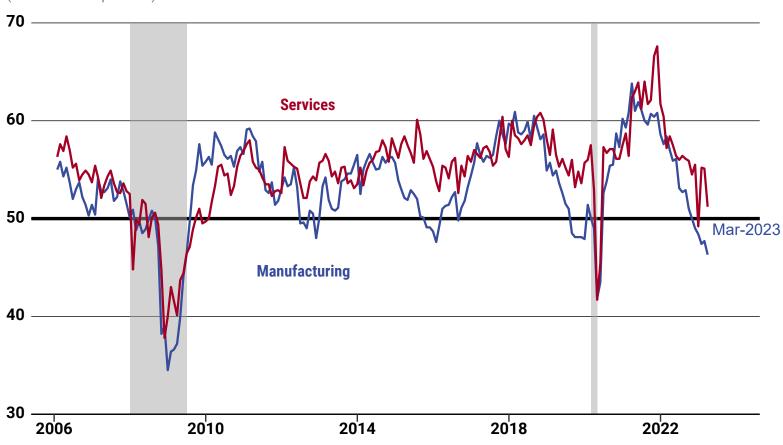


Source: Bureau of Economic Analysis via Haver Analytics

Business activity

Purchasing Mangers Index

(above 50 is expansion)



Source: Institute for Supply Management via Haver Analytics

Global growth outlook revised up

IMF GDP Forecasts ¹	2022	2023	2024
Advanced Economies	2.7	1.3	1.4
October	2.4	1.1	
Emerging Economies	4.0	3.9	4.2
October	3.7	3.7	
United Kingdom	4.0	-0.3	1.0
October	3.6	0.3	
Euro Area	3.5	0.8	1.4
October	3.1	0.5	
China	3.0	5.2	4.5
October	3.2	4.4	

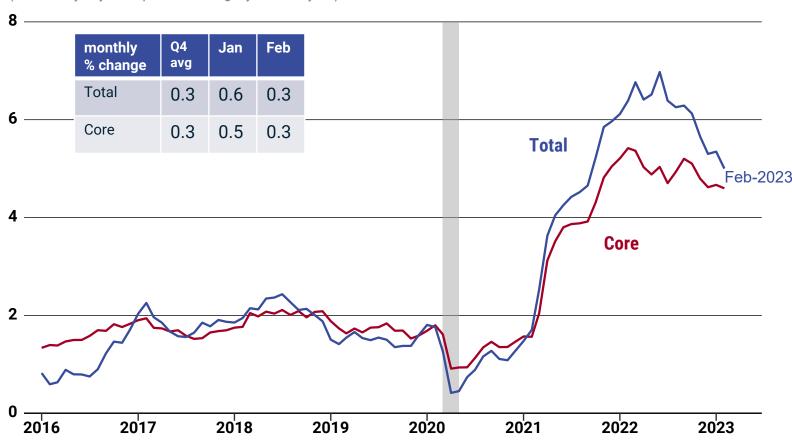
¹ Percent change in average annual level of real GDP

Source: International Monetary Fund World Economic Outlook, (current) and October 2022

Inflation still high (PCE prices)

Personal consumption expenditures price index

(seasonally adjusted percent change, year-over-year)

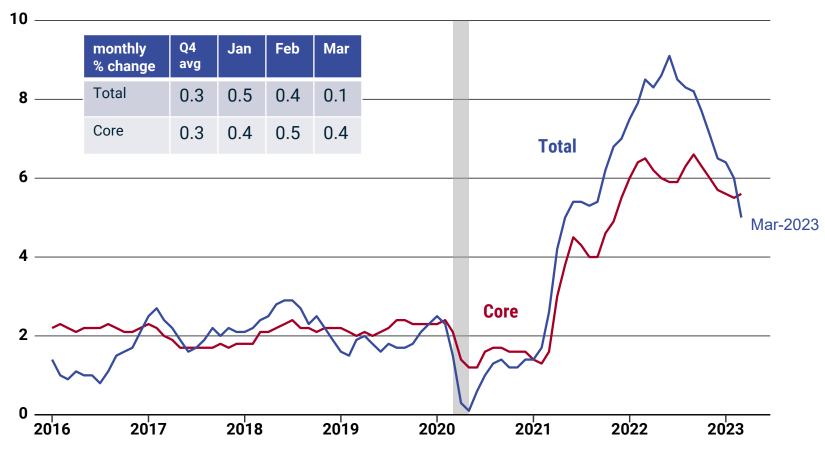


Source: Bureau of Economic Analysis via Haver Analytics

Inflation still high (CPI)

Consumer Price Index

(seasonally adjusted percent change, year-over-year)

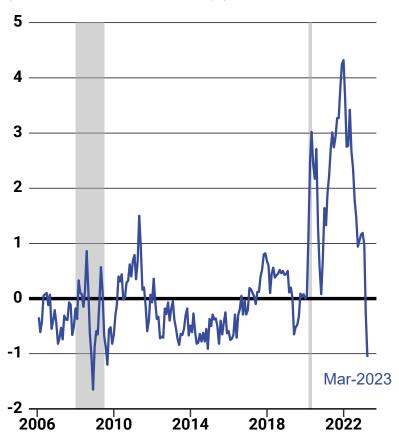


Source: Bureau of Labor Statistics via Haver Analytics

Supply side repair and lower rents

Global Supply Chain Pressure Index

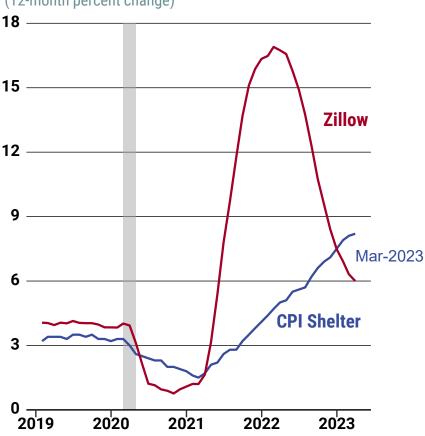
(standard deviations from average)



Source: Federal Reserve Bank of New York using data from Bureau of Labor Statistics; Harper Petersen Holding GmbH; Baltic Exchange; IHS Markit; Institute for Supply Management; Haver Analytics; Refinitiv

CPI shelter and Zillow Observed Rent Index

(12-month percent change)

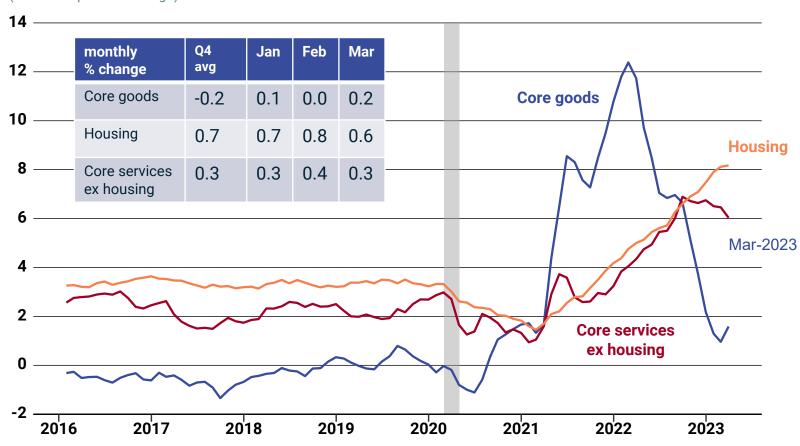


Source: BLS and Zillow via Haver Analytics

Components of core CPI inflation

Components of core CPI inflation

(12-month percent change)

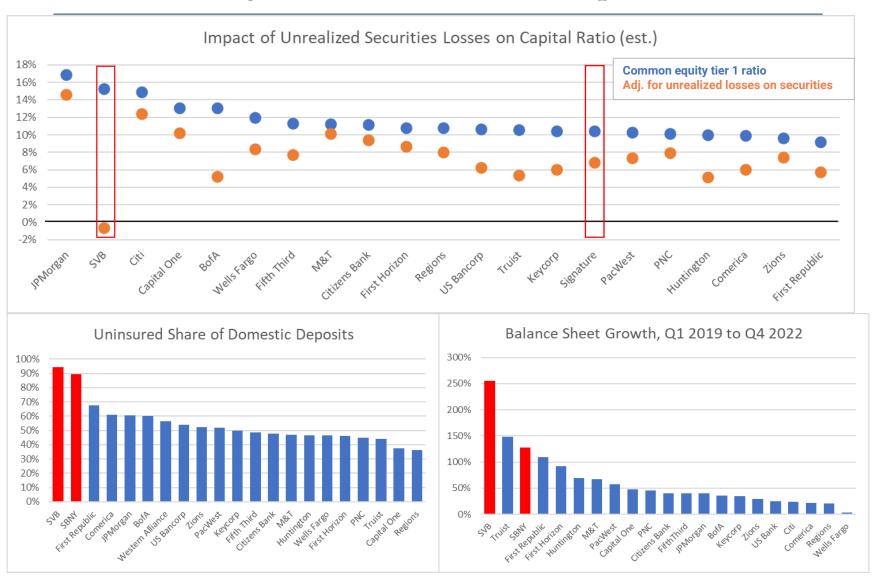


Source: Bureau of Labor Statistics via Haver Analytics

Inflation expectations



SVB and Signature Bank had unique circumstances



Federal Reserve credit extensions

Credit Extended Through the Fed's Discount Window and BTFP

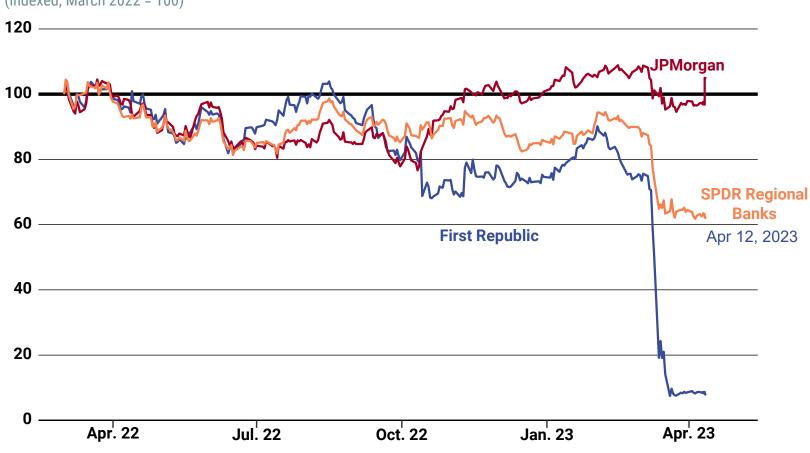
\$ Billions	2-Mar	15-Mar	29-Mar	12-Apr
Primary Credit	4.4	152.9	88.2	67.6
Bank Term Funding Program	-	11.9	64.4	71.8
Other Credit Extensions*	-	142.8	180.1	172.6

^{*}Includes loans that were extended to depository institutions established by the Federal Deposit Insurance Corporation (FDIC). The Federal Reserve Banks' loans to these depository institutions are secured by collateral and the FDIC provides repayment guarantees. Source: H.4.1 Factors Affecting Reserve Balances

Banking concerns: Selected stock prices



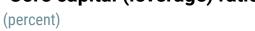


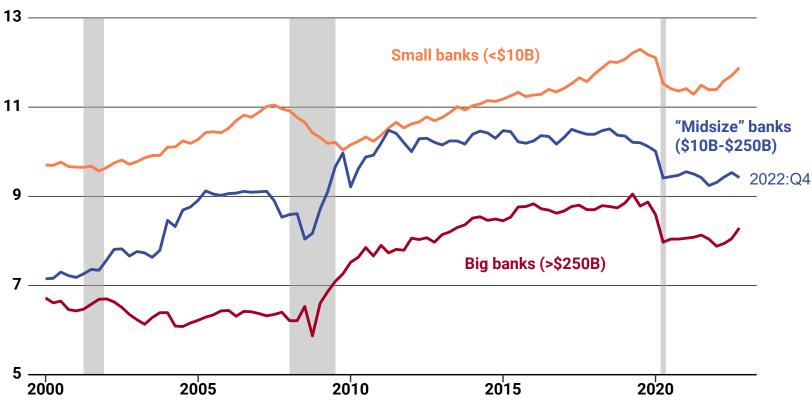


Source: Yahoo! Finance

Overall banking system well capitalized

Core capital (leverage) ratio





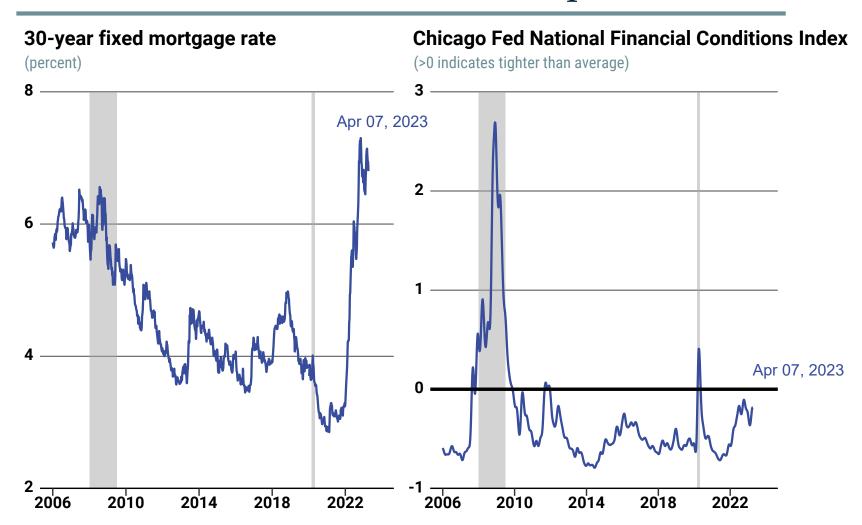
Note: Leverage is the ratio of Tier 1 capital to total assets. Tier 1 capital includes: common equity; noncumulative perpetual preferred stock; and minority interests in consolidated subsidiaries less goodwill and other ineligible intangible assets. "Small" banks is the simple average of the leverage ratio for banks with <\$100M, \$100M-\$1B, and \$1B-\$10B in total assets, as reported in the FDIC's Quarterly Banking profile tables.

Source: FDIC via Haver Analytics

Other financial market developments



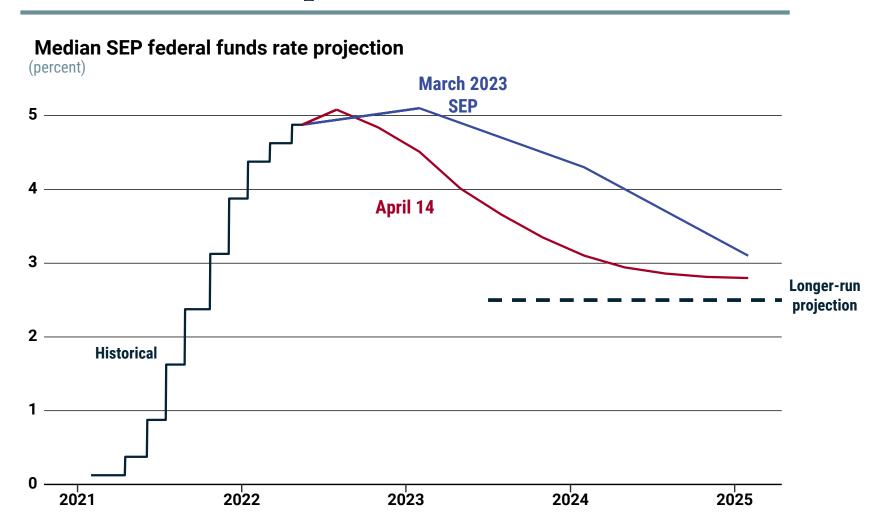
Other financial market developments, cont.



Source: Wall Street Journal via Haver Analytics

Source: Federal Reserve Bank of Chicago from Haver Analytics

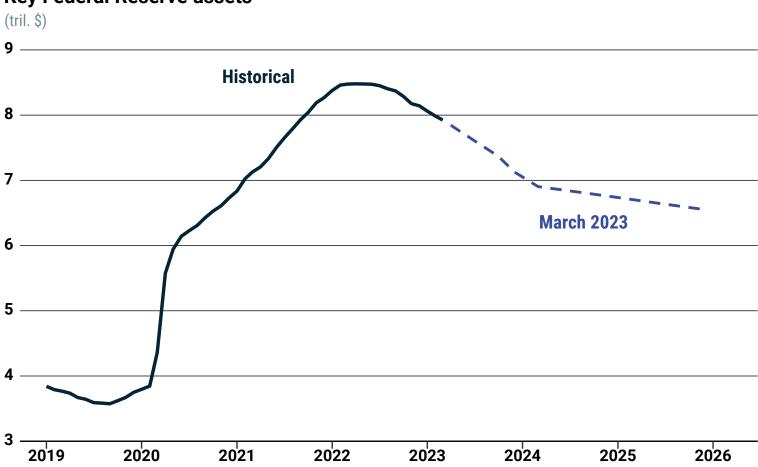
Fed funds rate paths



Note: Median SEP projections are plotted at the end of their respective year Sources: FOMC Summary of Economic Projections via Haver Analytics

Balance sheet reduction





Note: Key assets include U.S. Treasury securities and agency mortgage-backed securities Source: Federal Reserve Board via Haver Analytics; FRBNY Survey of Market Participants

Median SEP outlook

Projection	2023	2024	2025	Long run
GDP	0.4	1.2	1.9	1.8
December	0.5	1.6	1.8	1.8
Unemployment rate	4.5	4.6	4.6	4.0
December	4.6	4.6	4.5	4.0
Total PCE	3.3	2.5	2.1	2.0
December	3.1	2.5	2.1	2.0
Core PCE	3.6	2.6	2.1	
December	3.5	2.5	2.1	

Blue Chip consensus forecasts

Variable	2022	2023	2024
GDP ¹		0.3	1.6
November	0.2	0.1	
Unemployment rate ²		4.3	4.6
November	3.7	4.7	
PCE inflation ¹		3.0	2.2
November	5.8	2.9	
Core PCE inflation ¹		3.4	2.3
November	4.9	3.0	

Source: Blue Chip Consensus Forecast via Haver Analytics, April 2023 (current) and November 2022

¹Q4/Q4 percent changes ²Q4 level



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Appendix

Slide 16 methodological notes

Top: All capital ratio data are from Federal Financial Institution Examination Council (FFIEC) call reports. Common equity tier 1 (CET1) ratio is the ratio of common equity tier 1 to risk-weighted assets (RWA). Adjustments for unrealized losses were made on a case-by-case basis. For globally systemic important banks (GSIBs) – Bank of America, Citi, JPMorgan, and Wells Fargo – unrealized losses were calculated as the difference between the value of these banks' "held-to-maturity" (HTM) securities portfolios on an amortized cost basis and a fair value basis. This amount was then subtracted from CET1 and divided by RWA to produce an adjusted CET1 ratio.

Each of the non-GSIBs had the same adjustment plus a similar adjustment for "available-for-sale" (AFS) securities. The latter adjustment was necessary because each of these non-GSIBs had opted into the accumulated other comprehensive income (AOCI) election on their call report form. The AOCI election effectively allowed these banks to net out the impact of mark-to-market valuation changes to AFS securities on their capital ratios, which GSIBs are unable to do.

Bottom left: Bars show the percent change in total assets from Q1 2019 to Q4 2022 as reported on each institution's financial report on the FDIC's website.

Bottom right: Bars show the estimated share of uninsured deposits based on the estimated share of insured deposits reported on each institution's financial report on the FDIC's website. Notably, this estimate represents the share of *domestic* insured deposits. Deposits held at foreign branches were excluded from this analysis.