4/28/23



High Level

Fed Funds & Terminal Rate

Fed Funds is currently 5.00%. Based on the March SEP and the 5.10% terminal rate, one more rate hike is currently expected in 2023. The next FOMC is May 2-3.

Pause & Rate Cuts

Rate cuts are not on the Fed's agenda until 2024 (March SEP). Once the terminal rate (currently 5.25%), is reached, Fed Officials talk about holding rates thru 2023 and into 2024.

GDP

Currently 1.1% (Q123, Advanced Estimate), adjusted down from 2.6% (Q422). Fed Officials are expecting growth to slow to 0.4% by YE23. Q123 is trending at 1.1% (Atlanta Fed GDPNow).

Inflation

Currently 4.6% (Feb, Core PCE). Fed Officials are expecting inflation to return to the 2.0% target sometime in 2025. The March SEP inflation forecast is 3.6% by YE23.

Jobs

Currently, the unemployment rate is 3.5% (March). The Fed is expecting the unemployment rate to increase to 4.5% by YE23 (March SEP).

Fed Unfiltered - Opinion

Monetary Policy

- A 25bps rate hike on May 3rd is a foregone conclusion.
- The next FOMC is June 13-14. Between now and then are two CPI reports and two jobs reports. If inflation remains stubbornly high (as it did Friday, PCE report) and jobs growth continues, we'll see another 25bps rate hike in June.

Fed Officials

Michael Barr, Report on the SVB Failure, 4/28/23

A 118-page report on the failure of SVB, the bank mismanagement, the poor bank supervision and lessons learned.

Fed Board, Report: Review of the Supervision and Regulation of Silicon Valley Bank 4/28/23

Lisa Cook, Speech, 4/21/23

Talked about the recent headwinds of the banking crisis; how the decline of inflation could be long and bumpy and the recent slowing of the jobs market.

Lisa Cook, Speech: Important Questions for Economic Research 4/21/23

Loretta Mester, Speech/Q&A, 4/20/23

Talked about how we're close to the end of the tightening cycle; how a recession is not in the forecast, but slow growth is. Forecasts for inflation, jobs and GDP were also updated.

Loretta Mester, Speech: Progress and Prudence, An Update on the Economy and Monetary Policy 4/20/23

Patrick Harker, Speech, 4/20/23

Talked about additional tightening for Fed Funds; how rate cuts aren't likely until 2024 and updated forecasts were provided for inflation, jobs and GDP. The banking crisis was also mentioned.

Patrick Harker, Speech: Understanding Monetary Policy Through the Housing Channel 4/20/23

Christopher Waller, Speech, 4/20/23

Discussed tokenization and AI. Monetary policy and the economy were not mentioned.

<u>Christopher Waller, Speech: Innovation and the Future of Finance</u> 4/20/23

Lorie Logan, Speech, 4/20/23

Discussed the banking system and inflation's three markers to watch. Monetary policy was not mentioned.

Lorie Logan, Speech/Q&A: Fed Listens Event hosted by The Federal Reserve Bank of Dallas 4/20/23

FOMC Voters – Permanent (Gray) – Rotating (Blue)

MOST RECENT S	PEECH, INTERVIEW, ESSAY	Date	TOPIC		
Lisa Cook	Fed Board - Member	4/21/23	Monetary Policy, Economy		
Loretta Mester	Cleveland Fed - President	4/20/23	Monetary Policy, Economy		
Patrick Harker	Philadelphia Fed - President	4/20/23	Montary Policy, Economy		
Christopher Waller	Fed Board - Member	4/20/23	Tokenization and AI		
Michelle Bowman	Fed Board - Member	4/20/23	Fed Listens Event		
Lorie Logan	Dallas Fed - President	4/20/23	Monetary Policy, Economy		
Raphael Bostic	Atlanta Fed - President	4/20/23	Speech & Q&A are not yet available		
John Williams	NY Fed - President	4/19/23	Montary Policy, Economy		
Austan Goolsbee	Chicago Fed - President	4/18/23	Monetary Policy, Economy		
James Bullard	St. Louis Fed - President	4/18/23	Monetary Policy, Economy		
Tom Barkin	Richmond Fed - President	4/17/23	Speech/Q&A are Not Available		
Mary Daly	San Francisco Fed - President	4/12/23	Monetary Policy, Economy		
Neel Kashkari	Minneapolis Fed - President	4/11/23	Economy		
Susan M. Collins	Boston Fed - President	4/3/23	Monetary Policy		
Michael Barr	Fed Board - Vice Chair for Supervision	3/29/23	Banking System, SVB Failure & CRA		
Philip Jefferson	Fed Board - Member	3/27/23	How Monetary Policy Works		
Jerome Powell	Fed Board - Chair	3/22/23	Monetary Policy, Economy		
Forecasts Prior to March 21-22 FOMC Meeting					
Esther George (Retired)	Kansas City Fed - President	1/20/23	Monetary Policy, Economy		
Lael Brainard (Resigned	Fed Board - Vice Chair	1/19/23	Monetary Policy, Economy		

FOMC Forecasts – SEP (March 2023)

SEP - March	Current	Fed Forecast YE 2023	Fed Forecast YE 2024	Fed Forecast Longer Run	Next Release Date
Fed Funds (FOMC)	5.00	5.10	4.30	2.50	5/3/23
Unemployment Rate	3.5	4.5	4.6	4.0	5/5/23
Core CPI	5.6	n/a	n/a	n/a	5/10/23
GDP	1.1	0.4	1.2	1.8	5/25/23
Core PCE	4.6	3.6	2.6	2.0	5/26/23

Fed Board, Report: Summary of Economic Projections (SEP) – March 2023

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Research Reports

OFR

The repo rate spikes in 2019 were a combination of three things: (1) larget Treasury issuances; (2) corporate tax deadlines; and (3) an overall lower level of reserves.

OFR, Report: Anatomy of the Repo Rate Spikes in September 2019 ... 4/25/23

CBO

Supply disruptions, low economic slack, and restrained supply's interaction with low slack each amplify the effects of expansionary fiscal policies on inflation.

CBO, Report: Effects of Fiscal Policy on Inflation, Implications of Supply Disruptions and Economic Slack 4/25/23

NY Fed

A visual representation of home price change with a map of home price changes in March 2022 vs. Feb 2023.

NY Fed, Report: Mapping Home Price Changes 4/21/23

Chicago Fed

This research tries to determine the likelihood of a U.S. default through lens of sovereign Credit Default Swaps.

Chicago Fed, Report: What Does the CDS Market Imply for a U.S. Default? 4/21/23

Richmond Fed

Conditional on the current unemployment readings, one can argue that a recession might well be imminent.

Richmond Fed, Report: Unemployment Changes as Recession Indicators 4/21/23

Fed Board

This triennial study outlines the top-line figures for the core noncash payment methods used in the U.S.

<u>Fed Board, Report: The Federal Reserve Payments Study, 2022 Triennial Initial Data Release</u> 4/21/23

Economic Calendar

	April					
4/22/2023	4/22/2023 FOMC - Blackout Period, April 22 - May 4					
	May					
5/2/2023	FOMC Meeting, May 2-3					
5/5/2023	Employment Situation - April 2023					
5/10/2023	Consumer Price Index - April 2023					
5/24/2023	FOMC - Minutes of the FOMC, May 2-3, 2023					
5/25/2023	Gross Domestic Product, 1st Quarter 2023 (Second Estimate)					

Fed Unfiltered, Up to Speed: Economic Releases (May, June, July)

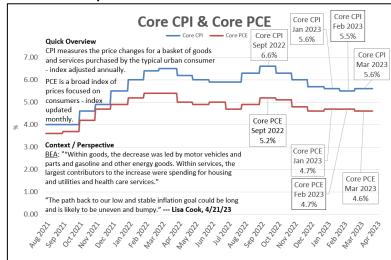
Rate Trends

Daily

Key Interest Rates	4/27/23	4/28/23	Change	
Fed Funds Target Rate (FFTR)	5.00	5.00	0.00	
BSBY - 1-month	5.02	5.04	0.03	
SOFR - Term Rate - 1-Month (CME Term SOFR)	4.99	5.02	0.03	
US Treasury - 3-Month	5.18	5.10	(0.08)	
US Treasury - 2-Year	4.07	4.04	(0.03)	
US Treasury - 10-Year	3.53	3.44	(0.09)	
3-Month / 10-year Treasury Yield Curve Spread	(1.65)	(1.66)	(0.01)	
2-Year / 10-year Treasury Yield Curve Spread	(0.54)	(0.60)	(0.06)	

Key Interest Rates	<u>4/24/23</u>	<u>4/25/23</u>	<u>4/26/23</u>	<u>4/27/23</u>	<u>4/28/23</u>	5-Day Change
Fed Funds Target Rate (FFTR)	5.00	5.00	5.00	5.00	5.00	0.00
BSBY - Overnight	4.883	4.888	4.886	4.890	4.890	1 0.007
BSBY - 1-month	4.970	4.989	5.007	5.019	5.045	0.074
SOFR - Overnight	4.800	4.800	4.800	4.810	0.000	0.010
SOFR - 30-Day Average	4.824	4.824	4.824	4.823	4.822	(0.001)
SOFR - Term Rate - 1-Month	4.977	4.996	4.982	4.993	5.019	0.041
US Treasury - 3-Month	5.20	5.12	5.16	5.18	5.10	4 (0.10)
US Treasury - 2-Year	4.12	3.86	3.90	4.07	4.04	4 (0.08)
US Treasury - 10-Year	3.52	3.40	3.43	3.53	3.44	(0.08)
YC Spread - 3-Month / 10-year Treasury	(1.68)	(1.72)	(1.73)	(1.65)	(1.66)	1 0.02
YC Spread - 2-Year / 10-year Treasury	(0.60)	(0.46)	(0.47)	(0.54)	(0.60)	0.00

Annotated Graphs



Annotated Graphs

Fed Official Report - and - Research Report





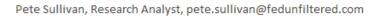
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Fed Officials – Fed Funds Forecast – In the Box

2023 Voter	Fed	Fed Official	Role	Date	MOST RECENT Comment about Fed Funds	Source	Target Rate Mentioned Post March 21-22
Voter	Board	Jerome Powell	Fed Board - Chair	3/22/23	"Some additional policy firming may be appropriate."	FOMC Press Conference – March 2023, 3/22/23	Rate Not Mentioned
Voter	Board	Lael Brainard (Resigned)	Fed Board - Vice Chair	n/a	No current comments on Fed Funds.	n/a	
Voter	Board	Michael Barr	Fed Board - Vice Chair for Supervision	n/a	No current comments on Fed Funds.	n/a	
Voter	Board	Christopher Waller	Fed Board - Member	4/14/23	"I believe there's still work to do."	Speech, Financial Stabilization and Macroeconomic Stabilization, Two Tools for Two Problems, 4/14/23	Rate Not Mentioned
Voter	Board	Lisa Cook	Fed Board - Member	4/21/23	"Currently, with the federal funds rate target near 5 percent, I am looking at what rate will be sufficiently restrictive to bring inflation down to 2 percent, over time."	Speech: Important Questions for Economic Research, 4/21/23	Rate Not Mentioned
Voter	Board	Philip Jefferson	Fed Board - Member	n/a	No current comments on Fed Funds.	n/a	
Voter	Board	Michelle Bowman	Fed Board - Member	2/17/23	"We'll have to continue to raise the federal funds rate until we see a lot more progress."	Speech, Tennessee Bankers Association Credit Conference, 2/17/23	Rate Not Mentioned
	District 1	Susan M. Collins	Boston Fed - President	4/3/23	"Perhaps one more increase might be sufficiently tight and then holding for some time."	Interview, Marketplace Morning Report, 4/3/23	Rate Not Mentioned
	District 2	John Williams	NY Fed - President	4/19/23	"Inflation is still too high, and we will use our monetary policy tools to restore price stability."	Speech: Attaining and Maintaining Price Stability, 4/19/23	Between 5.00-5.25% (4/11/23)
Voter	District 3	Patrick Harker	Philadelphia Fed - President	4/20/23	"I anticipate that some additional tightening may be needed to ensure policy is restrictive enough to support both pillars of our dual mandate."	Speech, Understanding Monetary Policy Through the Housing Channel, 4/20/23	Above 5.00% (4/11/23)
	District 4	Loretta Mester	Cleveland Fed - President	4/20/23	"I anticipate that monetary policy will need to move somewhat further into restrictive territory this year, with the fed funds rate moving above 5 percent."	Speech, Progress and Prudence, An Update on the Economy and Monetary Policy, 4/20/23	Above 5.00% (4/20/23)
	District 5	Tom Barkin	Richmond Fed - President	4/12/23	"I don't have a view that you find some particular number that's the perfect (Fed Funds) number."	Interview, CNBC, 4/12/23	Rate Not Mentioned
	District 6	Raphael Bostic	Atlanta Fed - President	4/18/23	Interview Question: Are you still thinking one and done when it comes to a May interest rate increase? "One, for sure, that's my baseline for this year." After May? "My baseline is to hold."	Interview: CNBC, 4/18/23	5.25% (4/18/23)
Voter	District 7	Austan Goolsbee	Chicago Fed - President	4/18/23	"My message is, be prudent, be patient."	Interview: Marketplace, 4/18/23	Rate Not Mentioned
	District 8	James Bullard	St. Louis Fed - President	4/3/23	"I think we'll need to get over 5%. The median person on the committee says a little over 5%. I'm a little higher than that."	Interview, Bloomberg TV, 4/3/23	Little Higher than 5.00% (4/3/23)
Voter	District 9	Neel Kashkari	Minneapolis Fed - President	3/26/23	"Now, on one hand, such strains could then bring down inflation. So we have to do less work with the federal funds rate to bring the economy into balance."	Interview, CBS Face the Nation, 3/26/23	Rate Not Mentioned
	District 10	Esther George (Retired)	Kansas City Fed - President	n/a	No current comments on Fed Funds.	n/a	
Voter	District 11	Lorie Logan	Dallas Fed - President	2/14/23	"I anticipate we will need to continue gradually raising the fed funds rate."	Speech, Restoring Price Stability, 2/14/23	Rate Not Mentioned
	District 12	Mary Daly	San Francisco Fed - President	4/12/23	"We're at a point now where we don't expect to continue to raise rates up every meeting."	Speech, Calibrating Policy in an Uncertain Time 4/12/23	Rate Not Mentioned

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