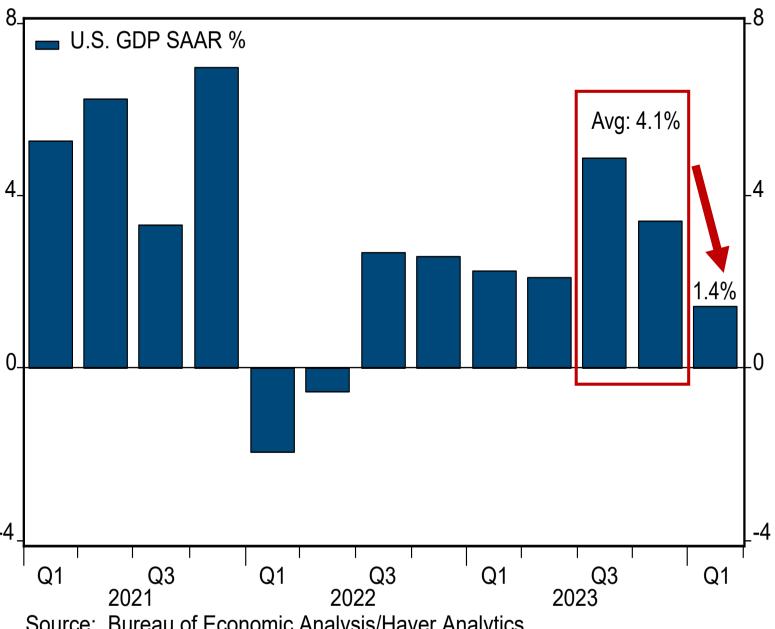
Economic Outlook:

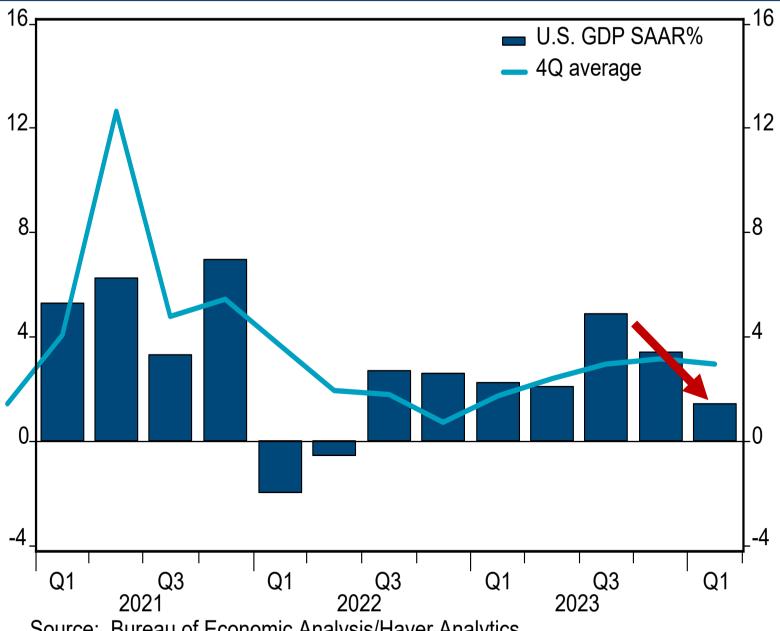
Rate Cuts Delayed as Federal Reserve Awaits Further Inflation Improvement

July 2024

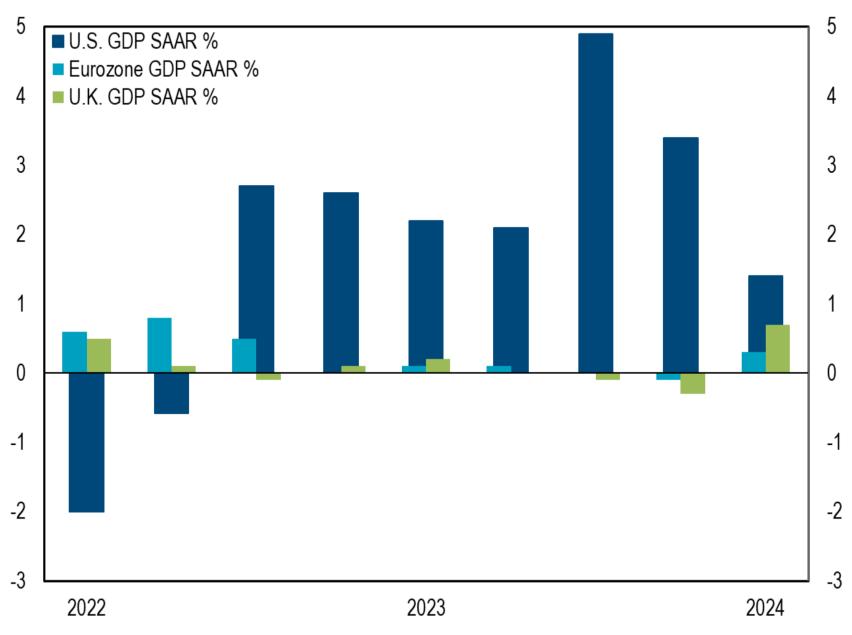


Lindsey M. Piegza, Ph.D.Chief Economist



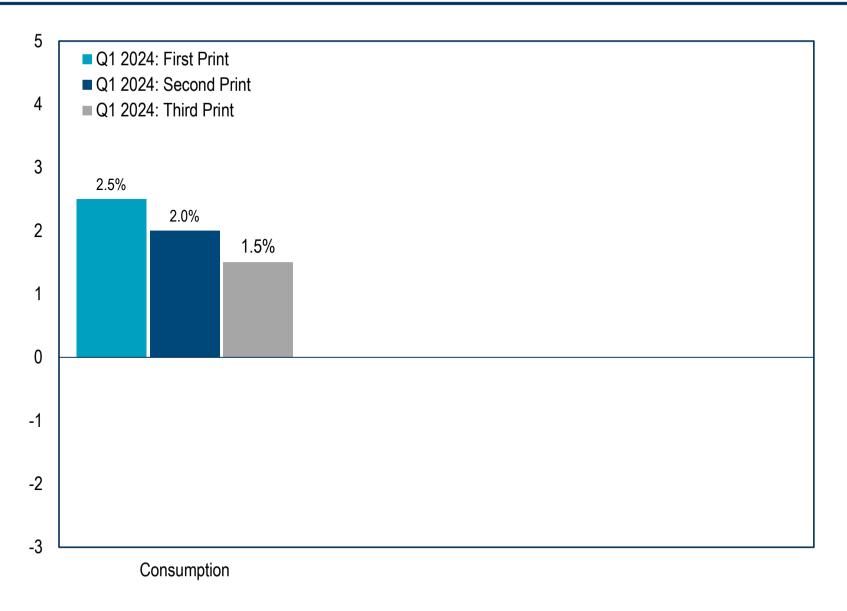


Domestic Growth Recovers More Meaningfully than Developed Counterparts Abroad

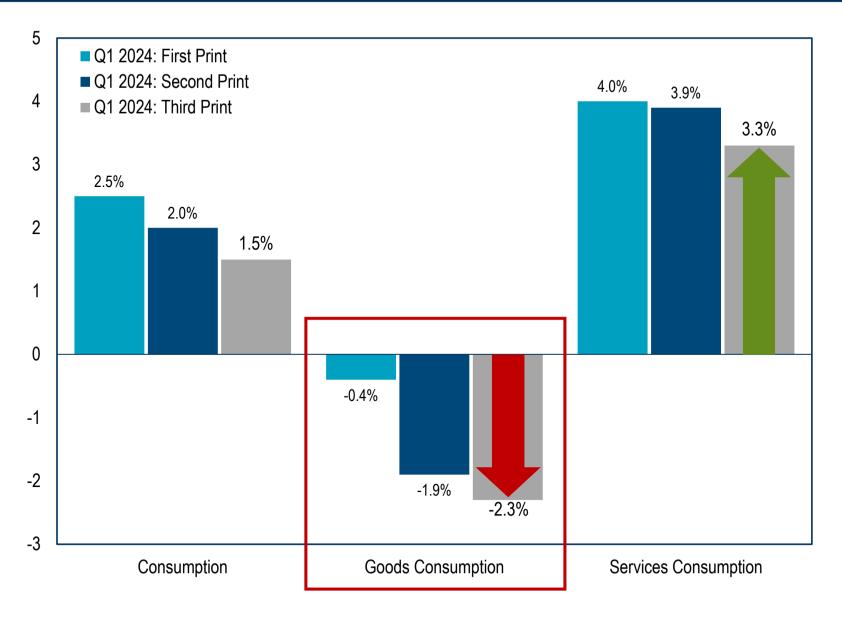


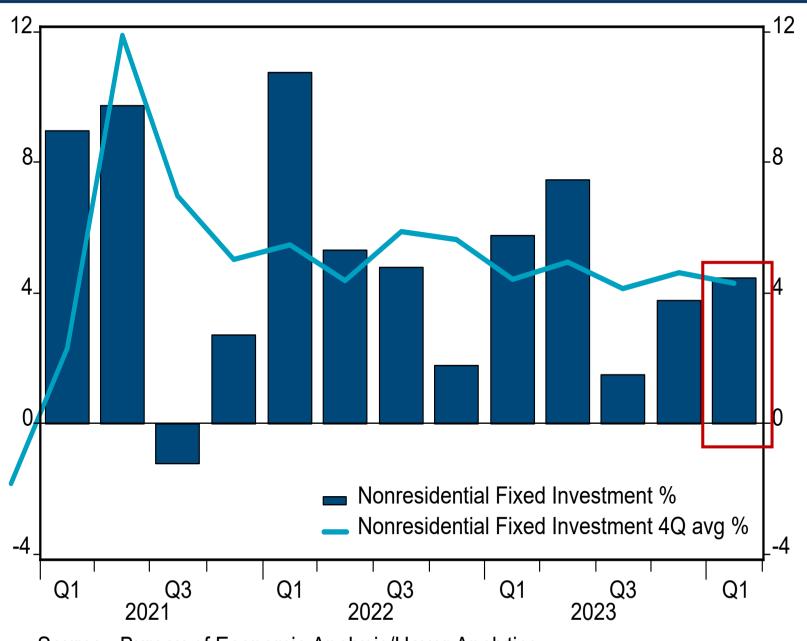
Source: Bureau of Economic Analysis/Bloomberg

Consumption Moves Lower in Q1

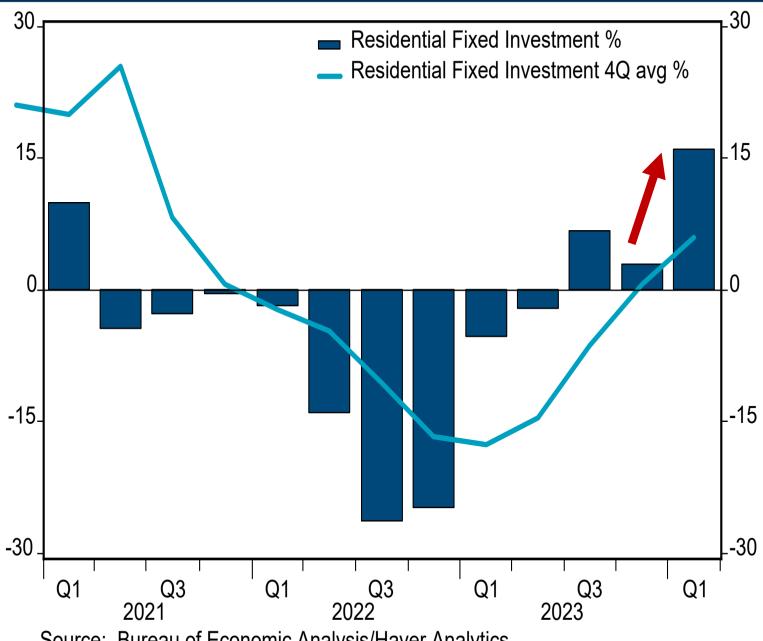


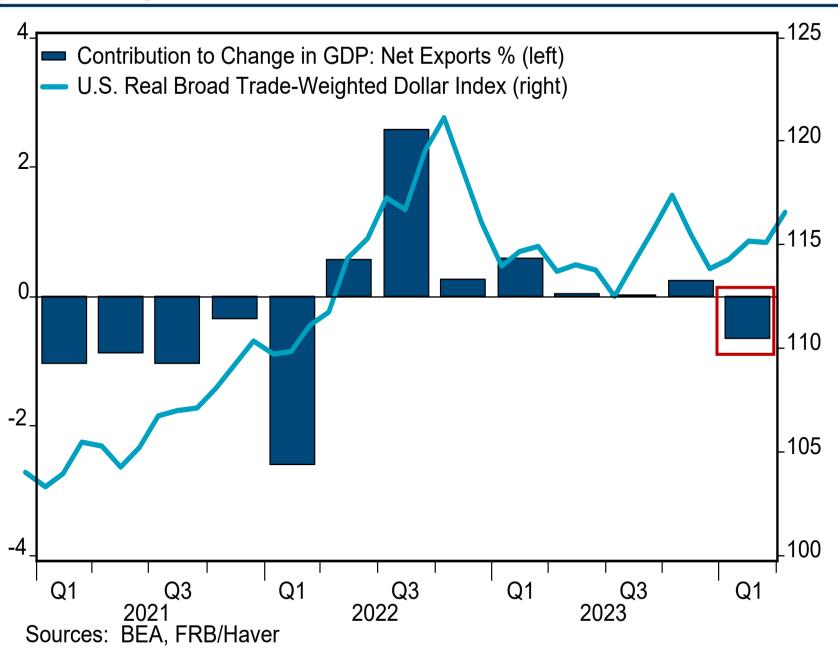
Consumption Moves Lower in Q1 Due to a Decline in Goods Consumption

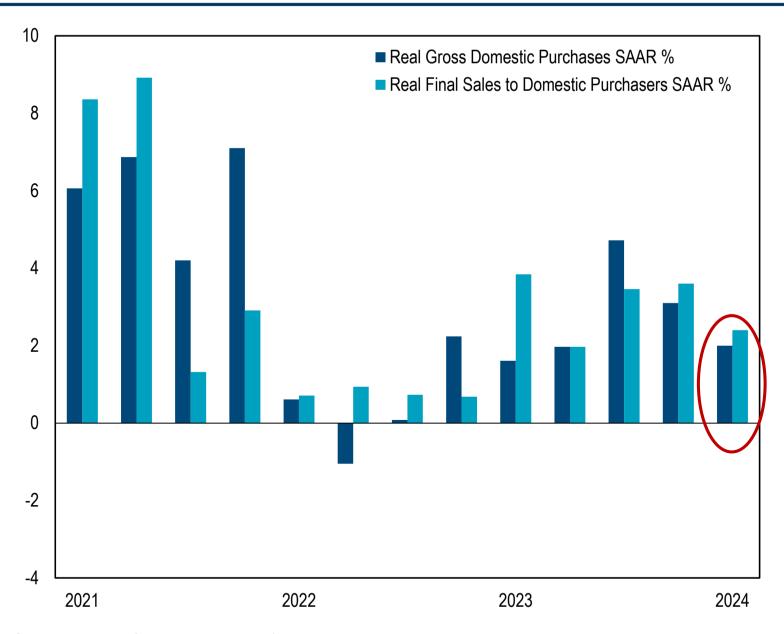


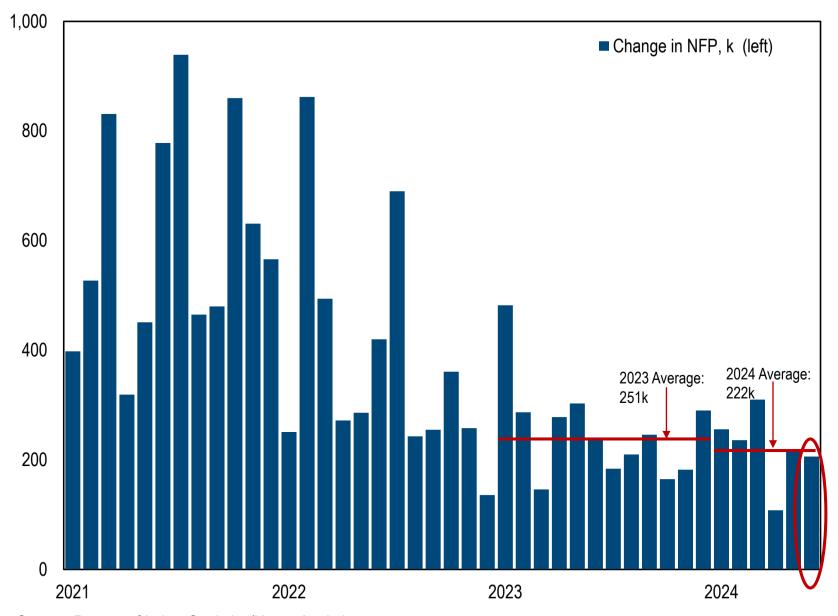


Source: Bureau of Economic Analysis/Haver Analytics

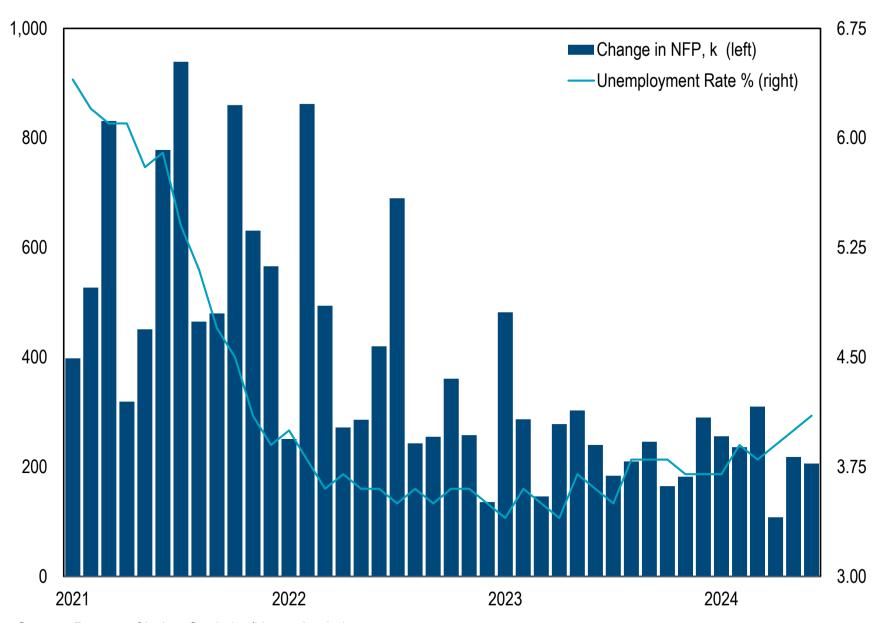




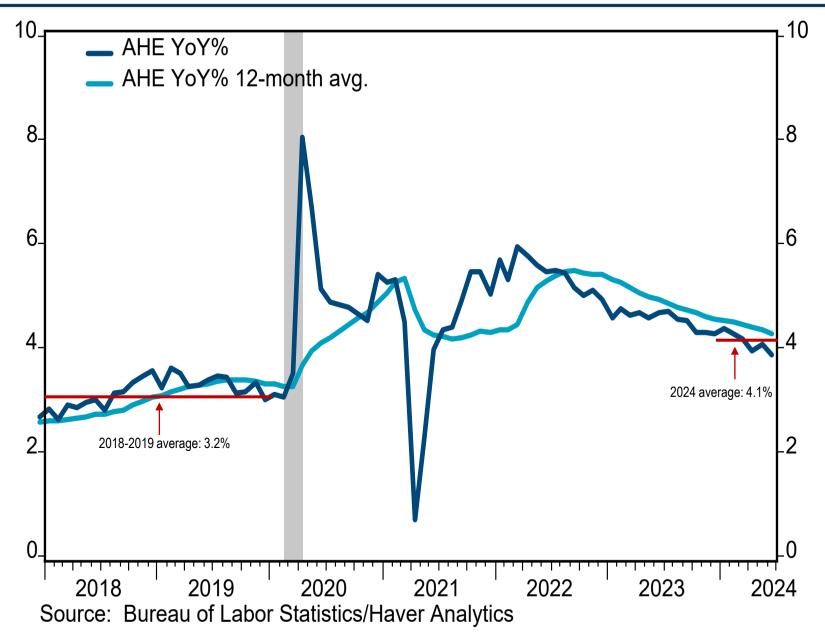


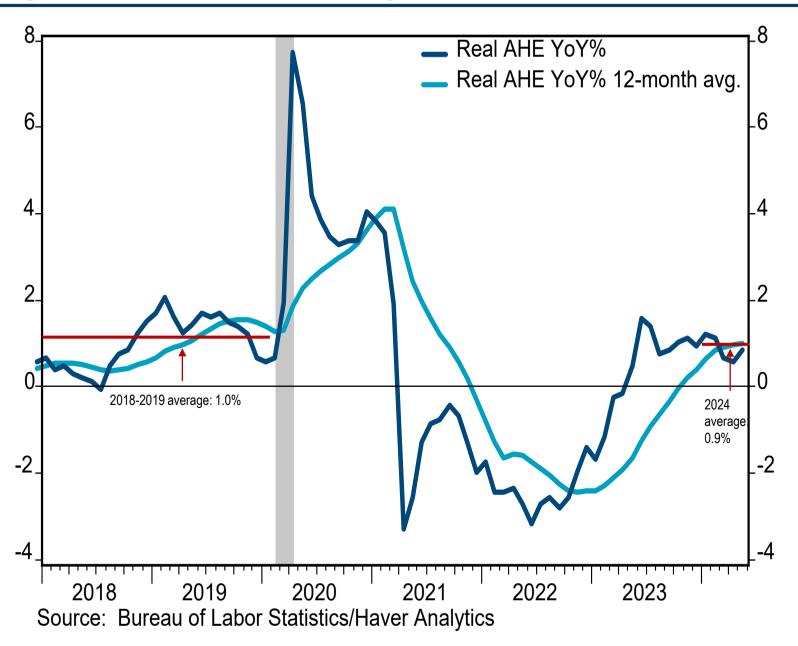


Source: Bureau of Labor Statistics/Haver Analytics

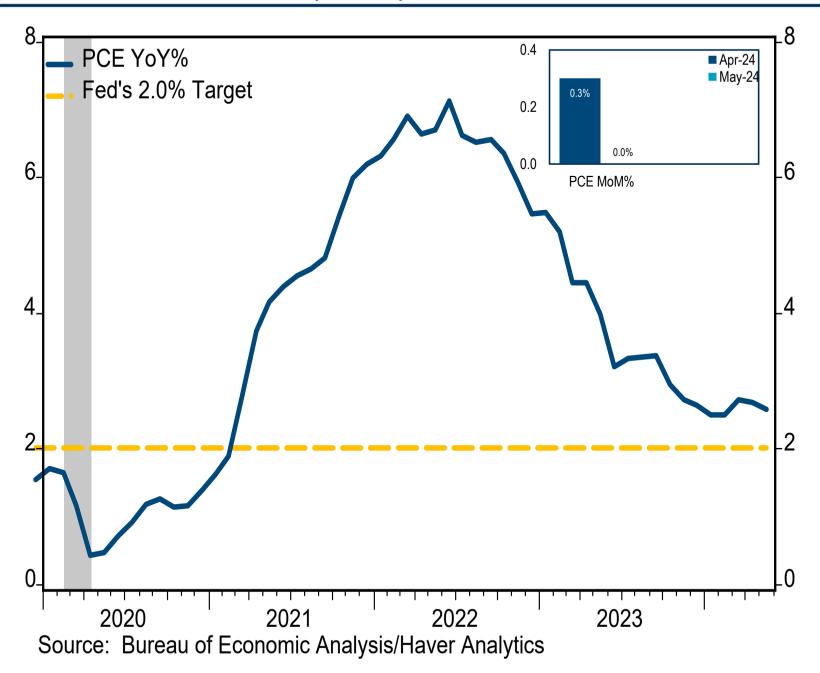


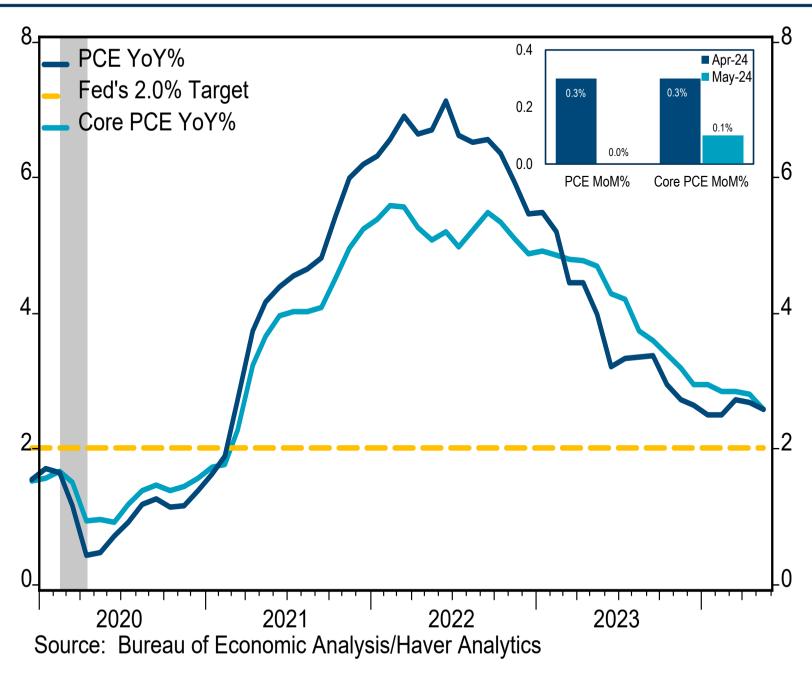
Source: Bureau of Labor Statistics/Haver Analytics



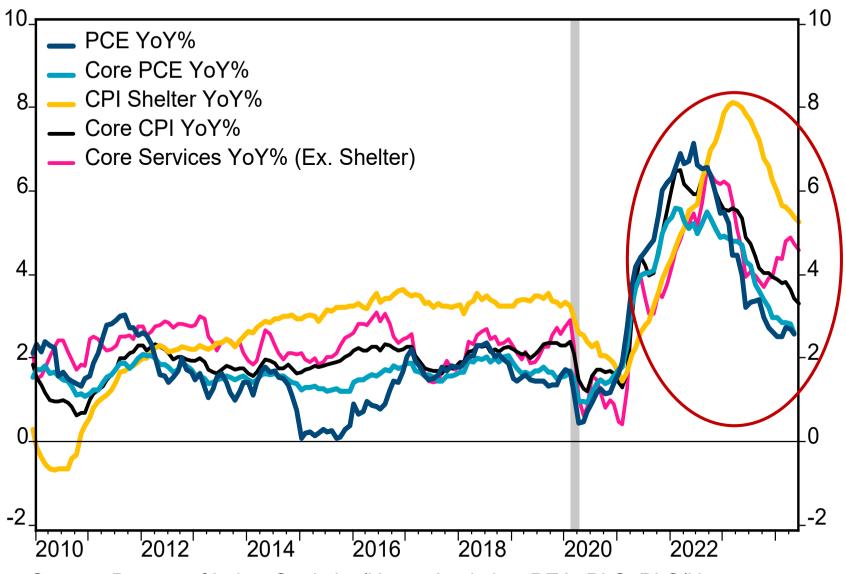


Cooling in Headline Personal Consumption Expenditures (PCE)



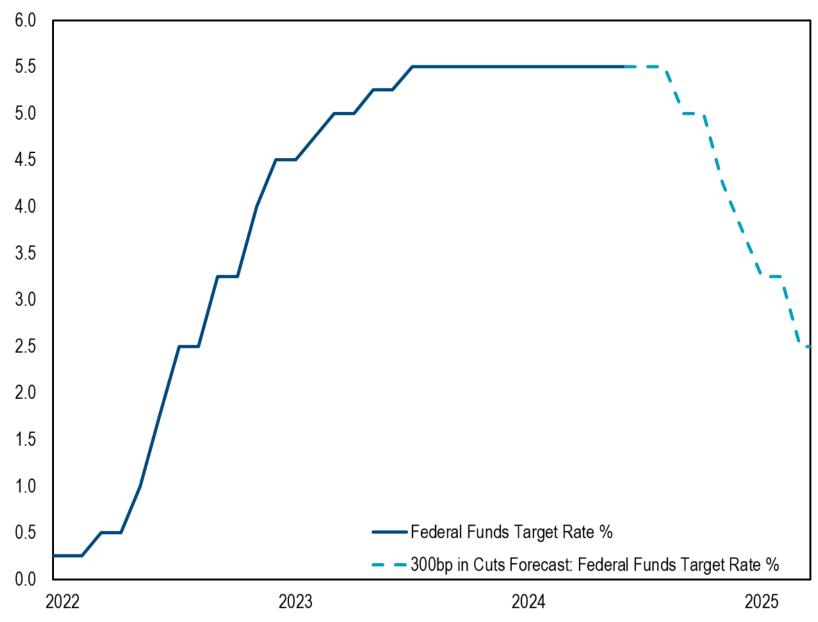


Inflation Still Nominally Elevated



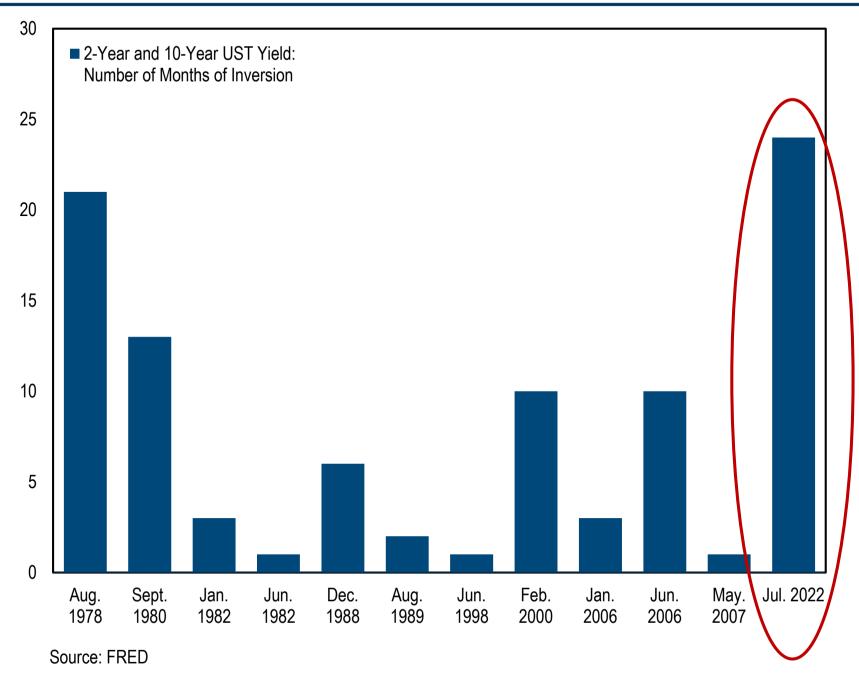
Source: Bureau of Labor Statistics/Haver Analytics: BEA, BLS, BLS/H

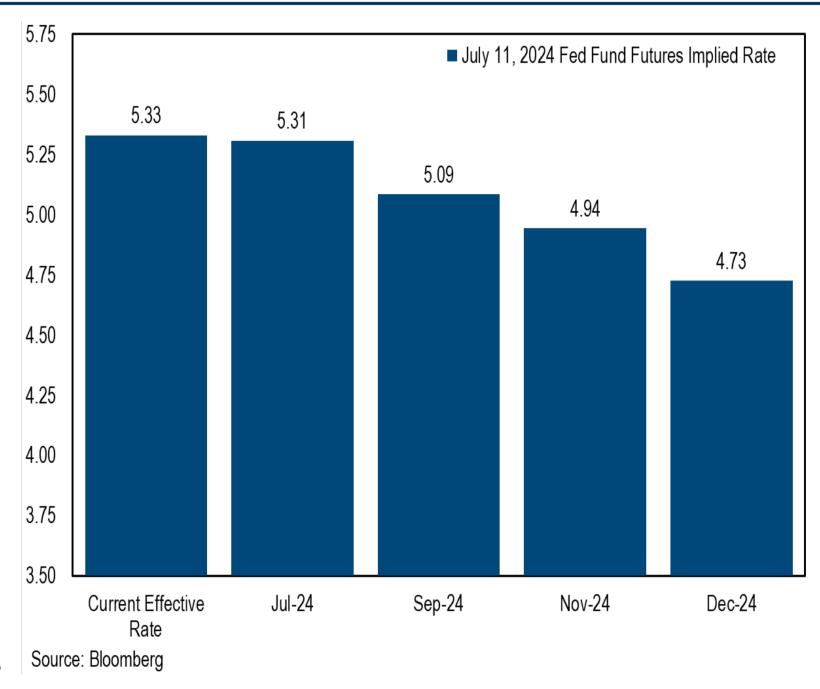
Scenario of 300 Basis Points (bps) in Rate Cuts



Source: Bureau of Economic Analysis/Federal Reserve

Cycles and Duration of Curve Inversions

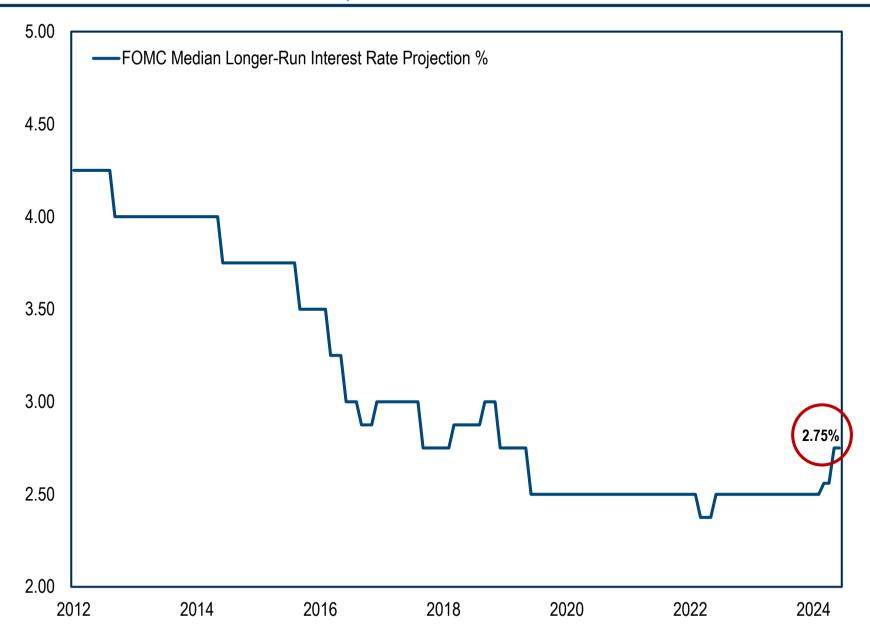




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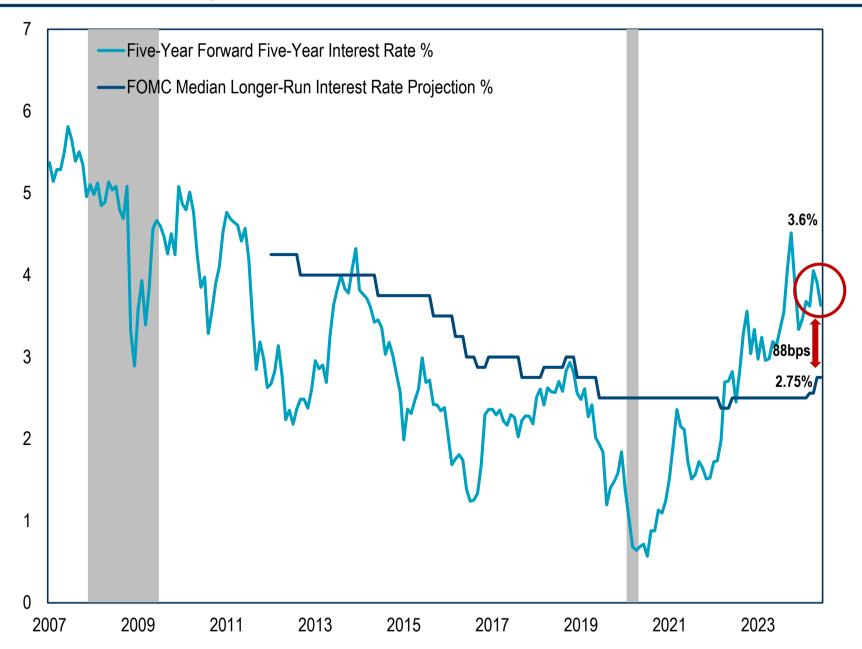
- The neutral rate, also known as r*, may be higher than previously indicated.
- It is the level of policy that neither stimulates nor slows underlying growth.
- Helps guide policy decisions in terms of how aggressively to adjust rates higher or lower throughout a rate cycle.

Federal Reserve (Fed) Neutral Rate Projections



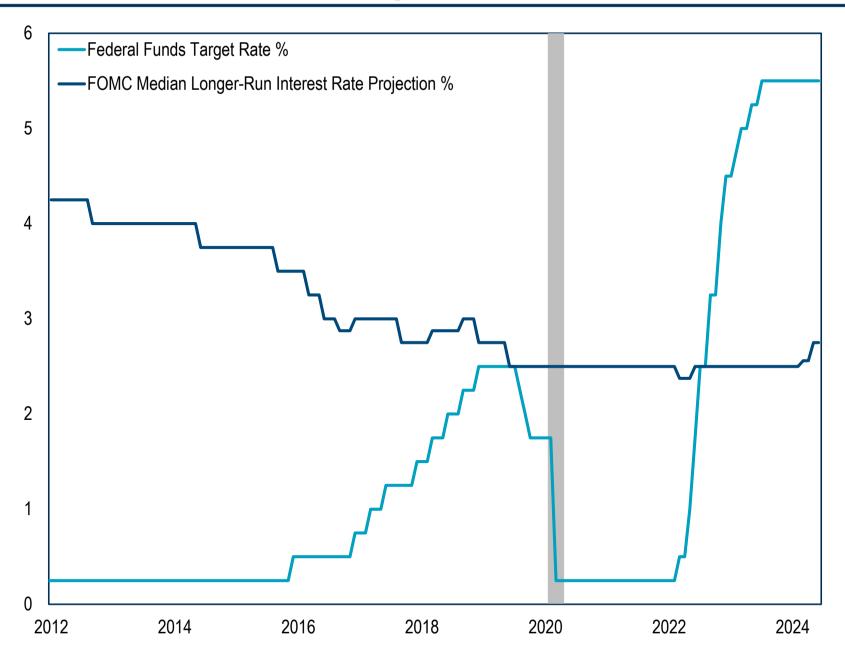
Source: Bloomberg

Market's Neutral Rate Higher than Fed's



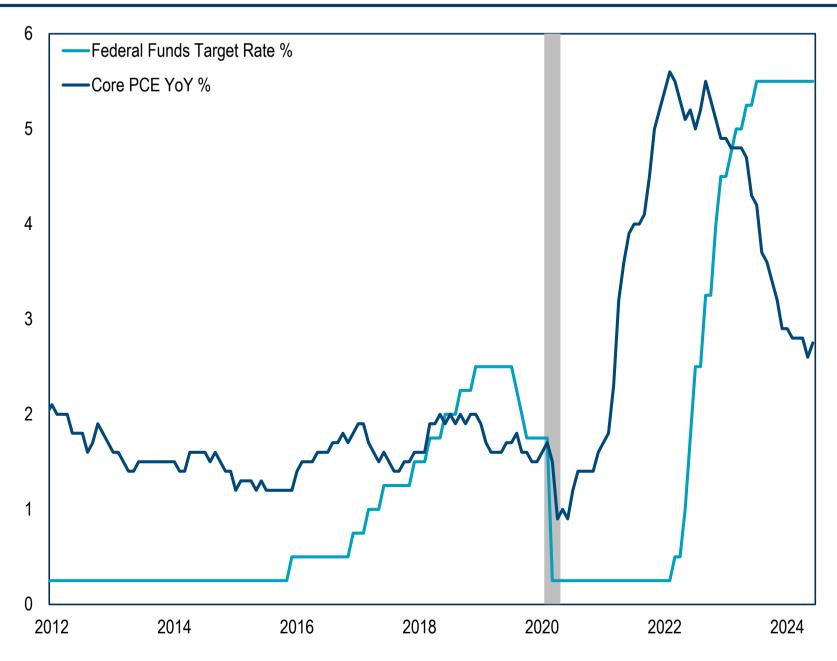
Page 22 Source: Bloomberg

Higher Neutral Rate Creates a Floor for Longer-Term Rates



Page 23 Source: Bloomberg

Higher Neutral Rate Calls into Question Fed's Terminal Rate Decision



Page 24 Source: Bloomberg

Neutral Rate Could be Relatively Higher



"I will argue that the Federal Open Market Committee has tightened policy significantly... But I will also observe that the housing market is proving more resilient to that tight policy... Given that housing is a key channel through which monetary policy affects the economy, its resilience raises questions about whether policymakers and the market are misperceiving neutral... The uncertainty about where neutral is today creates a challenge for policymakers."

Minneapolis Fed President Neel Kashkari, Online Essay

May 7, 2024

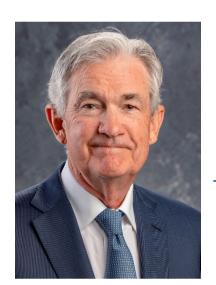
Powell Says Policy is "About Right"



"I will argue that the Federal Open Market Committee (FOMC) has tightened policy significantly...But I will also observe that the housing market is proving more resilient to that tight policy...Given that housing is a key channel through which monetary policy affects the economy, its resilience raises questions about whether policymakers and the market are misperceiving neutral...The uncertainty about where neutral is today creates a challenge for policymakers."

Minneapolis Fed President Neel Kashkari, Online Essay

May 7, 2024



"...we're asking, "Is our policy stance about right?" And I think we think, Yes, it's about right." We're prepared to adjust that as appropriate, but we think—we think we're getting the things that we would want to get, broadly speaking. And that's why we've been at this policy rate now for almost a year."

Federal Reserve Chairman Jerome Powell, FOMC Press Conference

June 12, 2024

1. Inflation is easing, but there is still a long way to go

Timeline for Achieving Price Stability is Still Years Away

		Central 1	endency		Range							
Variable	2024	2025	2026	Longer Run	2024	2025	2026	Longer Run	2024	2025	2026	Longer Run
Change in real GDP	2.1	2.0	2.0	1.8	1.9-2.3	1.8-2.2	1.8-2.1	1.7-2.0	1.4-2.7	1.5-2.5	1.7-2.5	1.6-2.5
March projection	2.1	2.0	2.0	1.8	2.0-2.4	1.9-2.3	1.8-2.1	1.7-2.0	1.3-2.7	1.7-2.5	1.7-2.5	1.6-2.5
Unemployment rate	4.0	4.2	4.1	4.2	4.0-4.1	3.9-4.2	3.9-4.3	3.8-4.3	3.8-4.4	3.8-4.3	3.8-4.3	3.5-4.5
March projection	4.0	4.1	4.0	4.1	3.9-4.1	3.9-4.2	3.9-4.3	3.8-4.3	3.8-4.5	3.7-4.3	3.7-4.3	3.5-4.3
PCE inflation	2.6	2,3	2.0	2.0	2.5-2.9	2.2-2.4	2.0-2.1	2.0	2.5-3.0	2.2-2.5	2.0-2.3	2.0
March projection	2.4	2.2	2.0	2.0	2.3-2.7	2.1-2.2	2.0-2.1	2.0	2.2-2.9	2.0-2.5	2.0-2.3	2.0
Core PCE inflation	2.8	2.3	2.0		2.8-3.0	2.3-2.4	2.0-2.1		2.7-3.2	2.2-2.6	2.0-2.3	
March projection	2.6	2.2	2.0		2.5-2.8	2.1-2.3	2.0-2.1		2.4-3.0	2.0-2.6	2.0-2.3	
				Memo: Pr	ojected a	ppropriat	e policy	path				
Federal funds rate	5.1	4.1	3.1	2.8	4.9-5.4	3.9-4.4	2.9-3.6	2.5-3.5	4.9-5.4	2.9-5.4	2.4-4.9	2.4-3.8
March projection	4.6	3.9	3.1	2.6	4.6-5.1	3.4-4.1	2.6-3.4	2.5-3.1	4.4-5.4	2.6-5.4	2.4-4.9	2.4-3.8

Source: Federal Reserve

- Inflation is easing, but there is still a long way to go
- 2. Solid labor market conditions call into question restrictive nature of policy

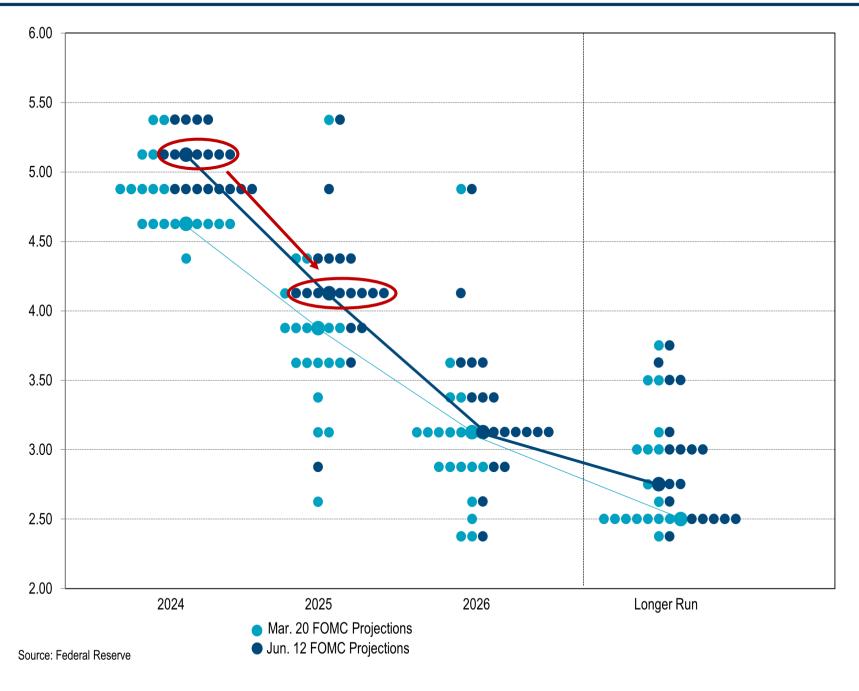
GDP and Unemployment Forecast Unchanged for This Year

June 12 Summary of Economic Projections												
Median				Central Tendency				Range				
Variable	2024	2025	2026	Longer Run	2024	2025	2026	Longer Run	2024	2025	2026	Longer Run
Change in real GDP	2.1	2.0	2.0	1.8	1.9-2.3	1.8-2.2	1.8-2.1	1.7-2.0	1.4-2.7	1.5-2.5	1.7-2.5	1.6-2.5
March projection	2.1	2.0	2.0	1.8	2.0-2.4	1.9-2.3	1.8-2.1	1.7-2.0	1.3-2.7	1.7-2.5	1.7-2.5	1.6-2.5
Unemployment rate	4.0	4.2	4.1	4.2	4.0-4.1	3.9-4.2	3.9-4.3	3.8-4.3	3.8-4.4	3.8-4.3	3.8-4.3	3.5-4.5
March projection	4.0	4.1	4.0	4.1	3.9-4.1	3.9-4.2	3.9-4.3	3.8-4.3	3.8-4.5	3.7-4.3	3.7-4.3	3.5-4.3
PCE inflation	2.6	2.3	2.0	2.0	2.5-2.9	2.2-2.4	2.0-2.1	2.0	2.5-3.0	2.2-2.5	2.0-2.3	2.0
March projection	2.4	2.2	2.0	2.0	2.3-2.7	2.1-2.2	2.0-2.1	2.0	2.2-2.9	2.0-2.5	2.0-2.3	2.0
Core PCE inflation	2.8	2.3	2.0		2.8-3.0	2.3-2.4	2.0-2.1		2.7-3.2	2.2-2.6	2.0-2.3	
March projection	2.6	2.2	2.0		2.5-2.8	2.1-2.3	2.0-2.1		2.4-3.0	2.0-2.6	2.0-2.3	
				Memo: Pr	ojected a	ppropriat	te policy	path				
Federal funds rate	5.1	4.1	3.1	2.8	4.9-5.4	3.9-4.4	2.9-3.6	2.5-3.5	4.9-5.4	2.9-5.4	2.4-4.9	2.4-3.8
March projection	4.6	3.9	3.1	2.6	4.6-5.1	3.4-4.1	2.6-3.4	2.5-3.1	4.4-5.4	2.6-5.4	2.4-4.9	2.4-3.8

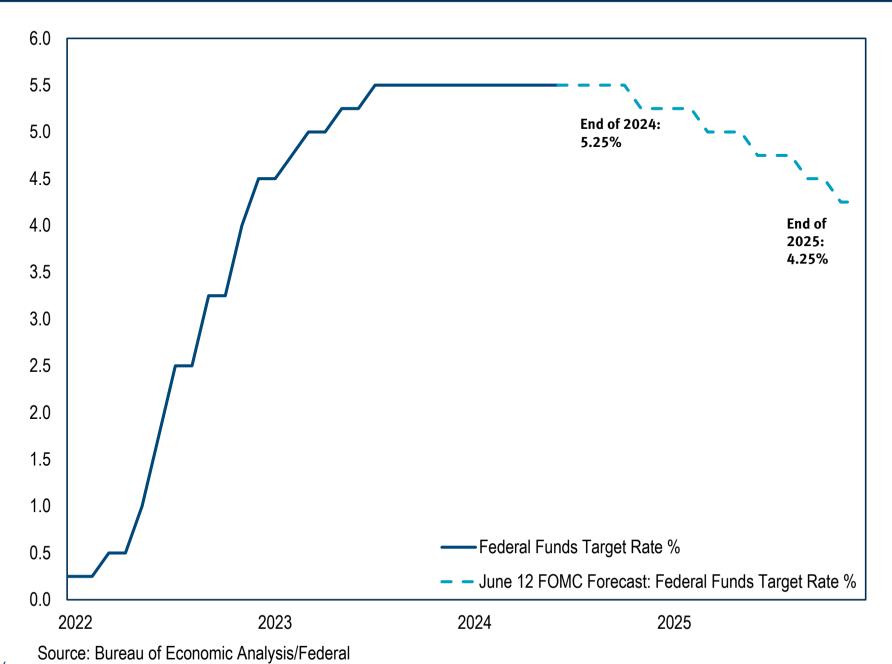
Source: Federal Reserve

- Inflation is easing, but there is still a long way to go
- 2. Solid labor market conditions call into question restrictive nature of policy
- 3. The Fed will expectedly remain on hold for longer than expected

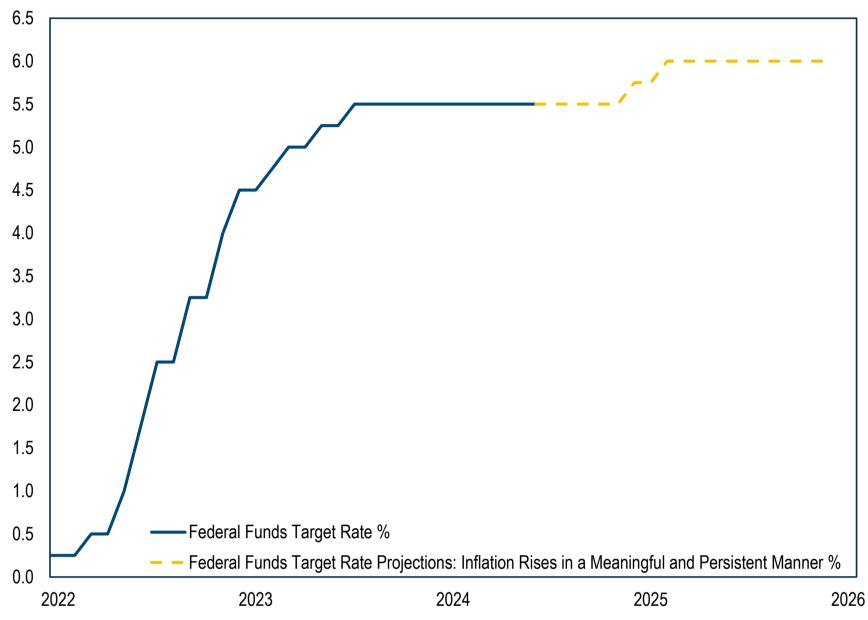
Dot Plot Signals Less Rate Cuts This Year



- 1. Inflation is easing, but there is still a long way to go
- 2. Solid labor market conditions call into question restrictive nature of policy
- 3. The Fed will expectedly remain on hold for longer than expected
- 4. Interest rates are heading lower, eventually

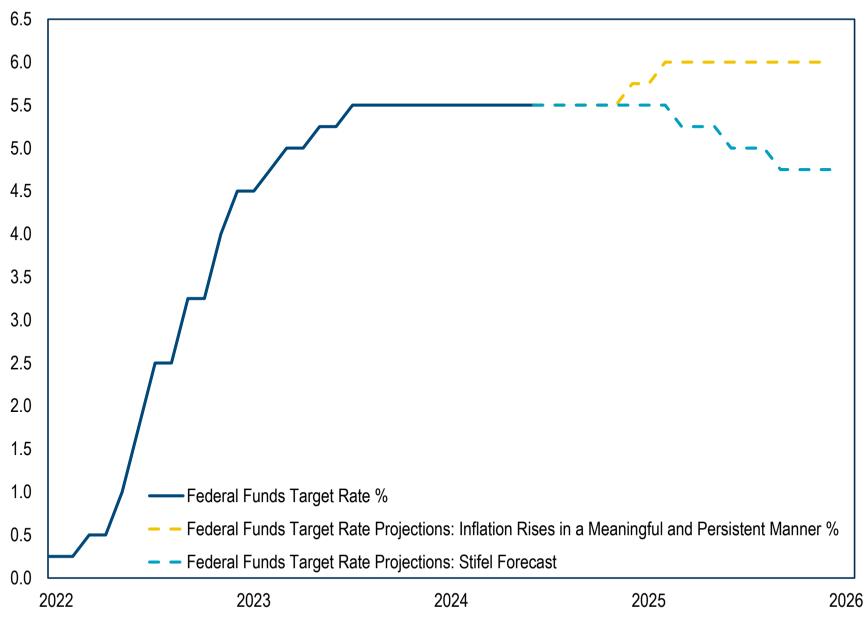


If Inflation Fails to Improve or Pushes Higher, Fed May be Forced to Adjust Policy



Source: Bureau of Economic Analysis/Federal Reserve

Base Case: "Eventual" Policy Easing Likely a 2025 Event



Source: Bureau of Economic Analysis/Federal Reserve



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