

Blue Chip Financial Forecasts®

**Top Analysts' Forecasts Of U.S. And Foreign Interest Rates, Currency Values
And The Factors That Influence Them**

Vol. 42, No. 12, December 1, 2023

Wolters Kluwer

BLUE CHIP FINANCIAL FORECASTS®

Executive Editor: Joseph Aguinaldo
Assistant Editor: Jules Valencia
Haver Analytics
60 East 42nd Street
New York, NY 10165
Phone (212) 986-9300
E-mail: bluechip@haver.com

Robert J. Eggert, Founder
Randell E. Moore, Editor Emeritus
Rocco Impreveduto, General Manager

Blue Chip Financial Forecasts® (ISSN: 0741-8345) is published monthly by CCH Incorporated, 28 Liberty St., 44th Floor New York, NY 10005-1400. Printed in the U.S.A.

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TABLE OF CONTENTS

Domestic Commentary – Highlights of Nov 27-28 Survey	p. 1
Domestic Summary Table – Table of consensus forecasts of U.S. interest rates and key economic assumptions	p. 2
International Summary Table – Table of consensus forecasts of international interest rates and foreign exchange values	p. 3
International Commentary (by Andy Cates)	p. 3
Individual Panel Member's U.S. Forecasts – Of interest rates and key assumptions for the next six quarters	p. 4-9
Individual Panel Member's International Forecasts – Of international interest rates and foreign exchange values	p. 10-11
Special Questions – Results of special questions posed to panel members about the economy, financial markets and government policy	p. 12
Viewpoints – A sampling of views on the economy and government policy excerpted from recent reports issued by our panel members	p. 13
Long-Range Survey – Results of twice annual long-range survey forecasts for the years 2025 through 2029 and the five-year periods 2025-2029 and 2030-2034	p. 14
Databank – Monthly historical data on many key indicators of economic activity	p. 15
Calendar – Release dates for important upcoming economic data, FOMC meetings, etc.	p. 16
List of Contributing Economists – To domestic and international survey	inside of back cover

Interest Rates Have Peaked Amid Tight Financial Conditions

The Blue Chip Financial Forecasts (BCFF) see an economy that is likely to slow down in coming quarters due to tighter financial conditions. As a result of slowing growth and an accompanying decline in inflation, market yields are likely to continue to fall. The consensus expects that the Fed has completed its tightening cycle and will begin easing in 2024. The economy is expected to avoid a recession as it has shown resilience (especially in the labor market) in the face of policy tightening.

Slowdown ahead. The latest GDP figures for Q3 2023 showed a sizable 5.2% quarter-to-quarter annualized growth rate, but recent data suggest that demand is dwindling. The Atlanta Fed nowcast is currently pointing to a 2.1% pace in Q4. The BCFF consensus looks for an even slower growth rate of 1.2%. Importantly, the consensus expects tepid growth to persist for the entire forecast horizon. The average GDP growth forecast for all of 2024 is 0.7%, with particular weakness in the first three quarters.

In a special question, the median BCFF forecaster puts the odds of recession in the next 12 months at 45%. A significant minority of forecasters (27%) believes that a recession is the most likely path for the economy, and expects two or more consecutive quarterly declines in GDP. The other 73% of panelists expect a slowdown without recession.

Consistent with a soft economic outlook, the consensus projects continued declines in the inflation rate. The PCE inflation rate is expected to slide to 2.2% by midyear 2024, nearly a percentage point lower than the current inflation rate.

Tight financial conditions. Earlier this year, market interest rates had increased to levels not seen since before the 2008 financial crisis. For example, the 10-year Treasury yield nearly reached 5% in October. Rates rose for a variety of reasons including data showing economic resilience, which in turn signaled that the Fed might have to keep rates high for longer than anticipated. High rates have taken a toll on interest-sensitive sectors, such as housing and capital goods expenditures. There is a growing sense that elevated rates have done some of the work for the Fed in slowing the economy. In a special question, BCFF panelists overwhelmingly stated that the rise in rates has tightened financial conditions sufficiently to delay/prevent further interest rate increases.

Indeed, with the funds rate above 5%, inflation subsiding, and Fed asset holdings declining, policy does already seem quite tight. In a special question, panelists estimated that the neutral fed funds rate was 2.9%, which is well below the current funds rate target.

Falling market yields. As a result of tightening financial conditions and the drag on economic activity, the 10-year yield has actually begun to decline, falling by more than 60 basis points in the past month. This decline was aided by better-than-expected inflation news for October, with the CPI posting an unchanged reading for a 3.2% rise year to year. Core CPI rose 0.2% for a 4.0% rise year to year, the lowest reading since August 2021.

The BCFF consensus expectation that both economic growth and inflation will slow significantly in the near term is being reflected in projections for market rates. The slide in rates over the past month is expected to continue over the next six quarters. For example, consensus expectations for the 10-year Treasury yield are for a half-point drop to 4.3% by Q1 2025. At the same time, the 1-year Treasury bill rate is expected to fall by nearly 1.5 percentage points to 4.1%, suggesting a significant steepening of the yield curve and a move away from inversion.

Importantly, the BCFF consensus expects mortgage rates to fall by nearly 1 percentage point over the next six quarters, which could bring much needed relief to the beleaguered housing market. The weakness in the economy is also expected to affect corporate debt somewhat, as panelists look for the spread between corporates and Treasuries to widen slightly.

No more Fed tightening. Policymakers have made a point of leaving the door open to further hikes, even as Fed Chair Powell suggests that the economy may be resistant to higher rates. While supply chains have improved, aiding the decline in inflation, Powell has stated repeatedly that the path to lower inflation involves below-trend growth and softening in the labor market. Conversely, BCFF panelists believe that the Fed is finished hiking rates. In a special question, 100 percent of panelists indicated that the Fed had completed its tightening cycle. Markets agree – the federal funds futures market does not price in any further tightening either.

Funds rate cuts. Against this backdrop, every BCFF panelist expects the Fed to cut the fed funds rate in the forecast horizon. Three-quarters of the panelists believe the Fed will cut rates for the first time either in Q2 or Q3 2024. Respondents seem to be pushing out the timing of the first rate cut – two months ago no panelist thought rate cuts would start after Q3 2024, now 22% do. Still, the BCFF consensus is that the fed funds rate will drop to 4.2% by Q1 2025, with nearly all panelists indicating that Fed easing will be ongoing at that time.

Long-range forecasts. The Blue Chip semi-annual longer-range forecasts show BCFF panelists' views on trend growth, inflation, and interest rates out to 2034. From 2026 on, panelists expect US GDP growth will hover near 2%, which is slightly higher than the CBO estimate of the steady state. They anticipate inflation will subside toward the Fed's target through 2026 and remain there.

Interest rates are expected to fall but remain elevated relative to pre-pandemic norms. The BCFF consensus looks for the funds rate to drop to 3% by 2028 and remain there. Similarly, the 10-year yield is expected to decline to 3.9% in 2025 and stay there. For comparison, in the decade prior to the latest tightening cycle, the funds rate averaged 0.6% and the 10-year yield averaged 2%. The higher rate projections are consistent with panelists' judgments about the neutral fed funds rate, which is substantially higher than before the pandemic.

Peter D'Antonio (Haver Analytics, New York, NY)

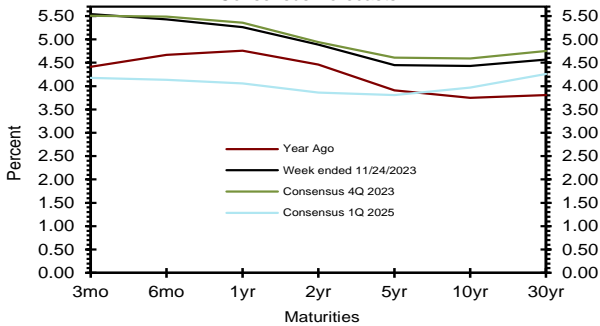
Consensus Forecasts of U.S. Interest Rates and Key Assumptions

Interest Rates	History								Consensus Forecasts-Quarterly Avg.					
	Average For Week Ending				Average For Month				Latest Qtr	4Q 2023	1Q 2024	2Q 2024	3Q 2024	4Q 2024	1Q 2025
	Nov 24	Nov 17	Nov 10	Nov 3	Oct	Sep	Aug	3Q 2023	2023	2024	2024	2024	2024	2025
Federal Funds Rate	5.33	5.33	5.33	5.33	5.33	5.33	5.33	5.26	5.4	5.4	5.2	4.9	4.6	4.2
Prime Rate	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.43	8.5	8.5	8.3	8.1	7.7	7.4
SOFR	5.31	5.32	5.32	5.33	5.31	5.31	5.30	5.23	5.4	5.3	5.2	4.9	4.6	4.3
Commercial Paper, 1-mo.	5.33	5.34	5.32	5.33	5.33	5.31	5.30	5.26	5.4	5.4	5.1	4.9	4.5	4.2
Treasury bill, 3-mo.	5.54	5.52	5.54	5.57	5.60	5.56	5.56	5.54	5.5	5.4	5.1	4.8	4.5	4.2
Treasury bill, 6-mo.	5.43	5.41	5.46	5.51	5.57	5.51	5.54	5.53	5.5	5.3	5.1	4.7	4.4	4.1
Treasury bill, 1 yr.	5.26	5.27	5.35	5.38	5.42	5.44	5.37	5.39	5.4	5.2	4.9	4.6	4.3	4.1
Treasury note, 2 yr.	4.89	4.89	4.97	4.97	5.07	5.02	4.90	4.92	4.9	4.8	4.5	4.2	4.0	3.9
Treasury note, 5 yr.	4.45	4.50	4.59	4.69	4.77	4.49	4.31	4.31	4.6	4.5	4.3	4.1	4.0	3.8
Treasury note, 10 yr.	4.43	4.50	4.59	4.75	4.80	4.38	4.17	4.15	4.6	4.5	4.3	4.2	4.1	4.0
Treasury note, 30 yr.	4.57	4.65	4.75	4.93	4.95	4.47	4.28	4.24	4.8	4.7	4.5	4.5	4.4	4.3
Corporate Aaa bond	5.41	5.53	5.66	5.86	5.87	5.38	5.25	5.20	5.5	5.5	5.3	5.3	5.1	5.0
Corporate Baa bond	6.02	6.17	6.31	6.52	6.53	6.03	5.90	5.86	6.4	6.4	6.4	6.3	6.2	6.1
State & Local bonds	4.45	4.55	4.67	4.90	4.88	4.54	4.39	4.38	4.6	4.7	4.6	4.6	4.5	4.4
Home mortgage rate	7.29	7.44	7.50	7.76	7.62	7.20	7.07	7.04	7.4	7.3	7.1	6.9	6.7	6.5

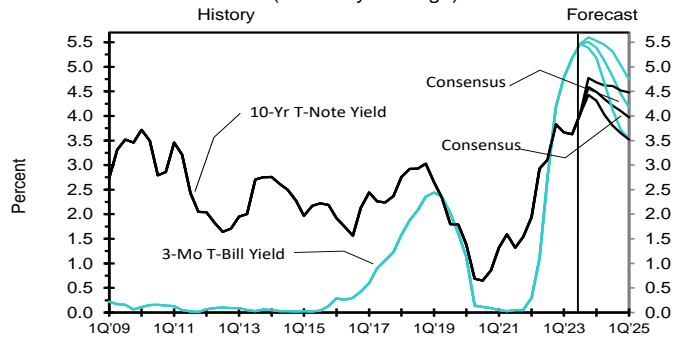
Key Assumptions	History								Consensus Forecasts-Quarterly					
	4Q 2021	1Q 2022	2Q 2022	3Q 2022	4Q 2022	1Q 2023	2Q 2023	3Q 2023	4Q 2023	1Q 2024	2Q 2024	3Q 2024	4Q 2024	1Q 2025
Fed's AFE \$ Index	106.9	108.3	113.5	118.8	119.8	115.5	114.6	115.1	116.6	116.3	115.9	115.9	115.7	115.7
Real GDP	7.0	-2.0	-0.6	2.7	2.6	2.2	2.1	5.2	1.2	0.7	0.3	0.6	1.2	1.7
GDP Price Index	7.0	8.5	9.1	4.4	3.9	3.9	1.7	3.6	2.7	2.4	2.3	2.2	2.2	2.2
Consumer Price Index	8.8	9.2	9.7	5.5	4.2	3.8	2.7	3.6	2.9	2.5	2.3	2.5	2.3	2.2
PCE Price Index	6.8	7.7	7.2	4.7	4.1	4.2	2.5	2.8	2.6	2.4	2.2	2.3	2.2	2.1

Forecasts for interest rates and the Federal Reserve's Advanced Foreign Economies Index represent averages for the quarter. Forecasts for Real GDP, GDP Price Index, CPI and PCE Price Index are seasonally adjusted annual rates of change (saar). Individual panel members' forecasts are on pages 4 through 9. Historical data: Treasury rates from the Federal Reserve Board's H.15; AAA-AA and A-BBB corporate bond yields from Bank of America-Merrill Lynch and are 15+ years, yield to maturity; State and local bond yields from Bank of America-Merrill Lynch, A-rated, yield to maturity; Mortgage rates from Freddie Mac, 30-year, fixed; SOFR from the New York Fed. All interest rate data are sourced from Haver Analytics. Historical data for Fed's Major Currency Index are from FRSR H.10. Historical data for Real GDP, GDP Price Index and PCE Price Index are from the Bureau of Economic Analysis (BEA). Consumer Price Index history is from the Department of Labor's Bureau of Labor Statistics (BLS).

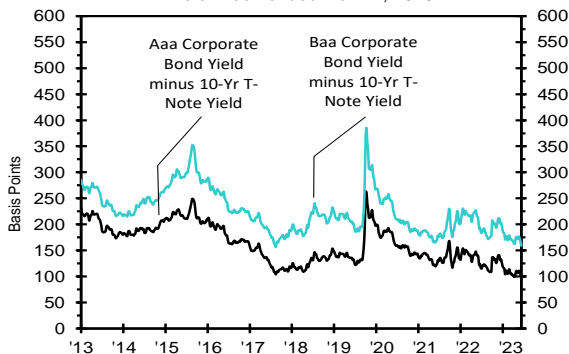
US Treasury Yield Curve
Week ended Nov 24, 2023 & Year Ago vs.
4Q 2023 & 1Q 2025
Consensus Forecasts



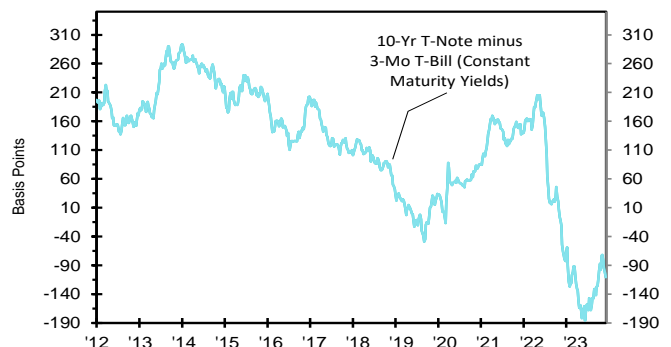
US 3-Mo T-Bills & 10-Yr T-Note Yield
(Quarterly Average)



Corporate Bond Spreads
As of week ended Nov 24, 2023



US Treasury Yield Curve
As of week ended Nov 24, 2023



-----Policy Rates¹-----

	History			Consensus Forecasts		
	Latest:	Month Ago:	Year Ago:	Months From Now:		
				3	6	12
U.S.	5.38	5.38	3.88	5.28	5.06	4.52
Japan	-0.10	-0.10	-0.10	-0.08	-0.06	0.01
U.K.	5.25	5.25	3.00	5.25	5.01	4.25
Switzerland	1.75	1.75	0.50	1.78	1.72	1.55
Canada	5.00	5.00	3.75	5.03	4.78	4.12
Australia	4.35	4.10	2.85	4.32	4.24	3.81
Euro area	4.50	4.50	2.00	4.39	4.11	3.61

-----10-Yr. Government Bond Yields²-----

	History			Consensus Forecasts		
	Latest:	Month Ago:	Year Ago:	Months From Now:		
				3	6	12
U.S.	4.47	4.84	3.68	4.54	4.33	4.03
Germany	2.64	2.81	1.97	2.60	2.50	2.32
Japan	0.79	0.88	0.28	0.88	0.86	0.90
U.K.	4.34	4.61	3.26	4.25	4.12	3.87
France	3.20	3.45	2.44	3.17	3.03	2.87
Italy	4.39	4.84	3.85	4.43	4.28	4.15
Switzerland	0.98	1.09	1.01	1.10	1.17	1.19
Canada	3.72	3.98	2.94	3.78	3.52	3.37
Australia	4.55	4.81	3.58	4.70	4.33	3.95
Spain	3.58	3.98	2.82	3.67	3.51	3.40

-----Foreign Exchange Rates³-----

	History			Consensus Forecasts		
	Latest:	Month Ago:	Year Ago:	Months From Now:		
				3	6	12
U.S.	115.81	118.73	117.55	115.9	114.9	113.6
Japan	149.57	149.60	139.21	148.1	145.4	139.8
U.K.	1.26	1.22	1.21	1.24	1.24	1.26
Switzerland	0.88	0.90	0.95	0.90	0.89	0.88
Canada	1.36	1.39	1.34	1.36	1.34	1.31
Australia	0.66	0.64	0.68	0.65	0.66	0.69
Euro	1.09	1.06	1.04	1.08	1.09	1.11

Consensus Policy Rates vs. US Rate

	Now	In 12 Mo.
Japan	-5.48	-4.51
U.K.	-0.13	-0.28
Switzerland	-3.63	-2.98
Canada	-0.38	-0.40
Australia	-1.03	-0.72
Euro area	-0.88	-0.92

Consensus 10-Year Gov't Yields vs. U.S. Yield

	Now	In 12 Mo.
Germany	-1.83	-1.71
Japan	-3.68	-3.13
U.K.	-0.13	-0.16
France	-1.27	-1.17
Italy	-0.08	0.12
Switzerland	-3.49	-2.85
Canada	-0.75	-0.66
Australia	0.08	-0.08
Spain	-0.89	-0.63

International. Growing conviction that central banks have concluded their tightening cycles has fueled a rally in both bond and equity markets over the past few weeks. That conviction has been bolstered by a number of factors. First, global inflationary pressures have continued to diminish, in large part because of weaker energy prices. And, notwithstanding the recent instability in the Middle East, oil prices have continued to decline over the past two months, which has further eased concerns that this trend toward weaker inflation might stall. Second, there is growing evidence to suggest that higher interest rates are taking a heavier toll on global economic activity, evidence that's particularly compelling in the euro area and the UK. Lastly, the latest policy decisions and accompanying statements from various central banks - including the Fed, the ECB, and the BoE - indicate a growing consensus among policymakers that further tightening may not be necessary.

This month's survey of Blue Chip Financial Forecasters aligns with that narrative. The policy rate projections for the US, Canada, Europe, and Australia, for example, indicate a broadly shared consensus that tightening cycles have reached their conclusion. And that corresponds too with the responses to a special question, where approximately 90% of panelists believe the ECB and BoE have completed their tightening cycles with that proportion rising to 100% for the Fed.

Closer scrutiny of these policy rate projections further reveals that easing cycles are now expected to commence in the euro area, Switzerland, Australia, the UK as well as the US within the next 6 months. Financial futures contracts, moreover, indicate that investors believe that easing campaigns could potentially begin even earlier. Those views do not, however, chime with the messages from central banks' policy committees have staunchly opposed these views over the last few weeks.

That dichotomy of views could reflect a more downbeat view from our panelists about the outlook for growth and inflation next year compared with the expectations of central banks. In response to another special question, for example, 55% of our panelists expect a euro area recession over the next 12 months while 58% expect a UK recession. As noted above, moreover, downbeat views about the growth outlook - and euro area growth in particular - have been validated of late by much of the incoming data. The flash PMI surveys for November, for example, reveal ongoing contractions in the manufacturing sector in the euro area, UK, Japan and the US.

Still, those recession odds for Europe and downbeat data points for manufacturing have not been amplified elsewhere. For example, only 44% of our panelists now anticipate a US recession phase over the next 12 months, down a little from 47% in our last survey. Those same flash PMI surveys for November, in the meantime, suggest that activity has held up quite well in the service sector in the US, UK and Japan.

Against this backdrop, investors are likely to be alert to how this dichotomy of views is resolved. Will the incoming data for both growth and inflation disappoint to the downside and thereby validate the consensus view that easing cycles will shortly commence? Alternatively, will growth and hold up and thereby challenge the dovish Blue Chip consensus but at the same time validate the more hawkish central bank consensus?

However, the outlook for the world economy and financial markets will not solely hinge on these considerations. Economic developments in Asia will also be closely watched. In response to another special question, 74% of our panelists believe the situation in China poses significant risks to global growth. Moreover, Japan's economic outlook could wield considerable influence over global financial stability as well. There is ample speculation in particular about if and when the BoJ will start to normalize its monetary policy. In a final special question this month, for example, 62% of our panelists expect that an interest rate normalization campaign could begin before the middle of 2024.

Forecasts of panel members are on pages 10 and 11. Definitions of variables are as follows: ¹Monetary policy rates. ²Government bonds are yields to maturity. ³Foreign exchange rate forecasts for U.K., Australia and the Euro are U.S. dollars per currency unit. For the U.S. dollar, forecasts are of the U.S. Federal Reserve Board's AFE Dollar Index.

First Quarter 2024

Interest Rate Forecasts

Key Assumptions

Blue Chip Financial Forecasts Panel Members	Percent Per Annum -- Average For Quarter															Avg. For --Qtr.-- A.	(Q-Q % Change)											
	Short-Term					Intermediate-Term					Long-Term						B.	C.	D.	E.								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						Fed's Adv Fgn Econ \$ Index	Real GDP	Price Index	Cons. Price Index	PCE Price Index			
	Federal Funds Rate	Prime Bank Rate	SOFR Rate	Com. Paper 1-Mo.	Treas. Bills 3-Mo.	Treas. Bills 6-Mo.	Treas. Bills 1-Yr.	Treas. Notes 2-Yr.	Treas. Notes 5-Yr.	Treas. Notes 10-Yr.	Treas. Bonds 30-Yr.	Aaa Corp. Bond	Baa Corp. Bond	State & Local Bonds	Home Mtg. Rate						Fed's Adv Fgn Econ \$ Index	Real GDP	Price Index	Cons. Price Index	PCE Price Index			
S&P Global Market Intelligence	5.6	H	8.7	H	5.6	na	5.6	H	5.5	5.6	5.1	H	4.7	4.6	4.8	na	na	na	7.5	na	0.9	2.4	1.9	1.9				
J.P. Morgan Chase	5.5	na	na	na	na	na	na	na	4.8	4.4	4.4	4.6	na	na	na	na	na	na	na	na	1.3	1.9	2.1	1.7				
Scotiabank Group	5.5	na	5.3	na	5.4	na	na	na	4.4	4.2	4.5	4.6	na	na	na	na	na	na	na	na	0.0	1.6	L	2.3	2.6			
Bank of America	5.4	na	na	na	na	na	na	na	4.8	4.5	4.4	4.7	na	na	na	na	na	na	na	na	0.5	3.1	3.2	3.1				
BMO Capital Markets	5.4	8.5	5.3	5.4	5.5	5.4	5.1	4.6	4.4	4.4	4.6	5.4	6.5	5.0	7.4	117.2	0.2	2.7	3.2	3.0	0.2	2.7	3.2	3.0				
Chan Economics	5.4	8.4	5.3	5.3	5.4	5.5	5.3	4.8	4.3	4.4	4.6	5.6	6.6	5.0	7.2	114.7	1.0	2.6	2.8	2.4	1.0	2.6	2.8	2.4				
Chmura Economics & Analytics	5.4	8.5	5.4	5.4	5.5	5.5	5.4	4.9	4.6	4.6	4.7	5.4	na	na	7.6	na	0.3	3.0	3.0	2.9	0.3	3.0	3.0	2.9				
Comerica Bank	5.4	8.6	5.4	na	5.4	5.4	5.1	4.5	4.4	4.5	4.7	5.4	6.3	na	7.3	na	0.5	2.2	2.4	2.5	0.5	2.2	2.4	2.5				
Daiwa Capital Markets America	5.4	8.5	na	na	5.3	na	na	4.5	4.1	L	4.3	4.4	L	na	na	na	7.1	116.0	-1.0	L	2.6	2.6	2.5	2.5				
DePrince & Assoc.	5.4	8.5	5.4	5.4	5.5	5.4	5.3	4.9	4.6	4.6	4.7	5.5	6.5	4.6	7.3	117.2	0.7	2.7	2.9	2.7	1.3	2.7	2.9	2.7				
GLC Financial Economics	5.4	8.5	5.4	5.3	5.4	5.2	5.0	4.5	4.7	4.6	4.7	5.4	6.2	4.4	6.7	116.9	1.3	3.5	H	2.8	2.4	3.5	H	2.8	2.4			
Goldman Sachs & Co.	5.4	na	na	na	5.5	na	na	5.0	4.7	4.8	H	4.7	na	na	na	na	na	na	na	na	1.8	2.3	2.7	2.4				
ING	5.4	na	na	na	na	na	na	4.5	4.2	4.3	4.5	na	na	na	na	na	na	na	na	na	0.0	na	na	na				
KPMG	5.4	8.5	5.4	5.3	5.5	5.6	5.5	5.0	4.7	4.6	4.7	5.5	6.6	na	7.5	na	0.8	2.4	1.9	1.9	0.8	2.4	1.9	1.9				
MacroPolicy Perspectives	5.4	8.5	5.3	na	na	na	na	4.7	4.3	4.5	na	na	na	na	7.2	na	1.2	2.0	1.8	1.6	1.2	2.0	1.8	1.6				
Nomura Securities, Inc.	5.4	8.5	na	na	na	na	na	4.8	4.5	4.5	na	na	na	na	na	na	1.3	1.6	L	2.5	2.2	1.6	L	2.5	2.2			
Oxford Economics	5.4	8.5	5.4	na	5.6	H	5.5	5.4	5.0	4.6	4.6	4.8	5.3	na	7.5	119.4	H	0.0	2.6	2.9	2.5	0.0	2.6	2.9	2.5			
RDQ Economics	5.4	8.5	5.4	6.0	H	5.3	5.2	4.9	4.7	4.6	4.6	4.6	5.8	6.6	4.7	7.3	117.3	0.5	3.0	3.4	H	3.2	H	3.2	H			
The Northern Trust Company	5.4	8.5	5.3	5.4	5.5	5.4	5.4	5.0	4.8	4.7	5.0	H	5.6	6.6	4.9	7.6	116.0	0.9	2.3	2.8	2.6	0.9	2.3	2.8	2.6			
Wells Fargo	5.4	8.5	5.4	5.4	5.2	5.1	4.7	4.4	4.2	4.3	4.6	5.5	6.5	4.9	7.2	na	0.9	2.5	2.9	2.5	0.9	2.5	2.9	2.5				
Action Economics	5.3	8.5	5.8	H	5.4	5.5	5.4	5.3	4.9	4.7	4.7	4.8	5.6	6.6	4.5	7.8	H	118.4	0.6	1.8	1.9	1.4	0.6	1.8	1.9	1.4	L	
Barclays	5.3	na	na	na	5.4	na	na	5.0	4.7	4.8	H	5.0	H	na	na	na	na	na	na	na	1.0	3.1	2.9	3.0				
Economist Intelligence Unit	5.3	8.5	na	5.4	5.5	5.4	5.1	5.0	4.7	4.6	4.8	na	na	na	7.5	na	-0.9	na	2.3	na	-0.9	na	2.3	na				
EY-Parthenon	5.3	na	na	na	5.0	na	na	na	na	4.2	L	na	na	na	na	na	na	na	na	na	-0.1	2.5	2.5	2.2				
Fannie Mae	5.3	8.4	na	na	5.3	5.3	5.0	4.7	4.3	4.4	4.5	na	na	na	7.0	na	0.1	2.2	1.8	1.8	0.1	2.2	1.8	1.8				
Georgia State University	5.3	8.4	na	na	5.4	5.2	5.2	4.8	4.5	4.5	4.7	5.4	6.6	na	7.4	na	0.3	2.3	1.9	1.9	0.3	2.3	1.9	1.9				
Loomis, Sayles & Company	5.3	8.5	5.3	5.3	5.5	5.5	5.3	5.0	4.6	4.5	4.7	5.3	6.3	4.6	7.3	116.8	1.5	2.1	1.7	L	1.6	1.5	2.1	1.7	L	1.6		
MacroFin Analytics & Rutgers Bus School	5.3	8.5	5.3	5.4	5.3	5.4	5.4	4.8	4.4	4.4	4.5	5.4	5.9	L	4.4	7.2	115.7	1.0	2.5	2.8	2.6	1.0	2.5	2.8	2.6			
Moody's Analytics	5.3	8.5	5.3	5.3	5.1	5.1	5.0	4.8	4.5	4.3	4.7	5.7	6.7	4.4	7.1	na	1.1	2.1	2.7	2.4	1.1	2.1	2.7	2.4				
NatWest Markets	5.3	na	na	5.4	5.6	H	5.7	H	5.8	H	4.5	4.3	4.4	4.7	5.7	6.6	5.1	6.9	na	na	1.3	1.6	L	2.2	1.9			
PNC Financial Services Corp.	5.3	8.5	5.3	na	5.3	5.4	5.2	4.9	4.7	4.5	4.6	na	6.9	H	5.3	H	7.4	115.0	0.4	2.2	1.8	1.8	0.4	2.2	1.8	1.8		
Regions Financial Corporation	5.3	8.5	5.3	5.4	5.5	5.4	5.2	4.8	4.4	4.4	4.6	5.3	6.3	4.6	7.2	116.5	0.4	2.4	2.8	2.9	0.4	2.4	2.8	2.9				
Santander Capital Markets	5.3	8.5	5.3	5.4	5.5	5.4	5.2	4.9	4.5	4.6	4.8	5.4	6.4	4.0	L	7.4	116.0	1.2	3.1	2.8	2.6	1.2	3.1	2.8	2.6			
Societe Generale	5.3	8.5	5.3	na	5.3	5.1	4.7	4.2	L	4.3	4.3	4.5	na	na	na	na	na	na	na	na	0.5	1.8	2.2	2.2				
The Lonski Group	5.3	8.5	5.3	5.4	5.5	5.3	5.0	4.8	4.5	4.3	4.5	5.4	6.1	4.5	7.2	117.9	0.4	2.2	2.3	2.6	0.4	2.2	2.3	2.6				
Via Nova Investment Mgt.	5.3	8.5	5.4	5.4	5.3	5.3	5.3	4.9	4.9	H	4.8	H	4.9	5.9	H	6.5	4.8	7.6	116.0	2.5	H	2.1	2.1	2.1	2.1			
TS Lombard	4.8	L	7.9	L	4.8	L	4.8	L	4.5	L	4.3	4.2	4.3	4.4	L	5.1	L	6.0	4.3	6.1	L	110.0	L	0.2	3.2	3.2	3.2	H
December Consensus	5.4	8.5	5.3	5.4	5.4	5.3	5.2	4.8	4.5	4.5	4.7	5.5	6.4	4.7	7.3	116.3	0.7	2.4	2.5	2.4	0.7	2.4	2.5	2.4				
Top 10 Avg.	5.4	8.5	5.5	5.5	5.5	5.5	5.4	5.0	4.7	4.7	4.8	5.6	6.6	4.9	7.5	117.4	1.5	3.0	3.0	2.9	1.5	3.0	3.0	2.9				
Bottom 10 Avg.	5.3	8.4	5.3	5.3	5.2	5.2	4.9	4.4	4.2	4.3	4.5	5.3	6.3	4.4	7.0	115.3	-0.1	1.9	1.9	1.8	-0.1	1.9	1.9	1.8				
November Consensus	5.4	8.5	5.4	5.4	5.4	5.4	5.2	4.8	4.5	4.5	4.7	5.5	6.5	4.8	7.3	118.0	0.3	2.4	2.5	2.4	0.3	2.4	2.5	2.4				
Number of Forecasts Changed From A Month Ago:																												
Down	10	7	7	6	12	10	10	14	12	14	12	12	11	13	13	11	10	14	11	12								
Same	25	19	17	9	13	11	13	15	13	10	11	3	3	2	6	3	12	9	8	11								
Up	2	3	1	5	7	6	4	7	11	13	11	7	7	3	9	3	15	12	17	12								
Diffusion Index	39%	43%	38%	48%	42%	43%	39%	40%	49%	49%	49%	39%	40%	22%	43%	26%	57%	47%	58%	50%								

Third Quarter 2024

Interest Rate Forecasts

Key Assumptions

Blue Chip Financial Forecasts Panel Members	Percent Per Annum -- Average For Quarter															Avg. For --Qtr-- A. Fed's Adv Fgn Econ \$ Index	(Q-Q % Change)											
	Short-Term					Intermediate-Term					Long-Term						B. Real GDP	C. Price Index	D. Cons. Price Index	E. PCE Price Index								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15													
	Federal Funds Rate	Prime Bank Rate	SOFR Rate	Com. Paper 1-Mo.	Treas. Bills 3-Mo.	Treas. Bills 6-Mo.	Treas. Bills 1-Yr.	Treas. Notes 2-Yr.	Treas. Notes 5-Yr.	Treas. Notes 10-Yr.	Treas. Bond 30-Yr.	Aaa Corp. Bond	Baa Corp. Bond	State & Local Bonds	Home Mtg. Rate													
Chan Economics	5.4	H	8.4	5.3	5.3	5.4	5.5	H	5.3	H	4.8	4.3	4.4	4.6	5.6	6.6	5.0	7.2	114.5	0.3	2.4	2.6	2.2					
Goldman Sachs & Co.	5.4	H	na	na	na	5.0	na	na	na	4.8	4.6	4.6	4.6	na	na	na	na	na	na	117.7	1.7	2.3	2.4	2.3				
J.P. Morgan Chase	5.4	H	na	na	na	na	na	na	na	4.3	4.1	4.2	4.6	na	na	na	na	na	na	117.7	0.5	2.5	2.7	2.3				
Oxford Economics	5.4	H	8.5	H	5.4	na	5.5	H	5.4	5.2	4.8	4.0	4.3	4.6	4.6	L	na	na	7.1	117.7	0.5	2.3	2.2	2.2				
Action Economics	5.3		8.4	5.8	H	5.3	5.3		5.1	4.9	4.7	4.5	4.5	4.7	5.4	6.4	4.3	7.6	118.8	1.3	1.4	L	2.4	1.7				
Barclays	5.3		na	na	na	5.3	na	na	na	4.6	4.4	4.5	4.7	na	na	na	na	na	na	na	-0.5	2.8	2.6	2.6				
BMO Capital Markets	5.3		8.4	5.3	5.3	5.5	H	5.4	4.9	4.1	4.1	4.2	4.4	5.4	6.5	5.0	7.2	117.4	1.3	2.2	2.4	2.2						
Loomis, Sayles & Company	5.3		8.5	H	5.3	5.3	5.5	H	5.5	H	5.3	H	5.0	4.6	4.5	4.7	5.3	6.3	4.6	7.1	116.7	-1.5	1.9	1.2	L	1.2	L	
Regions Financial Corporation	5.3		8.5	H	5.3	5.2	5.2	5.1	4.9	4.3	4.2	4.1	4.4	5.2	6.2	4.5	6.8	115.7	1.2	2.4	2.4	2.6						
S&P Global Market Intelligence	5.3		8.4	5.3	na	5.1	4.8	4.8	4.4	4.1	4.2	4.4	na	na	na	na	6.8	na	na	1.1	2.5	3.3	2.7					
Santander Capital Markets	5.3		8.5	H	5.3	5.3	5.2	5.1	4.9	4.7	4.4	4.3	4.7	5.5	6.6	3.8	L	6.9	115.0	0.8	2.7	2.7	2.3					
PNC Financial Services Corp.	5.2		8.3	5.2	na	5.0	5.0	4.9	4.7	4.7	4.7	4.7	4.8	na	7.1	5.9	H	7.3	119.7	H	-1.4	2.0	1.6	1.6				
RDQ Economics	5.2		8.3	5.2	5.7	H	5.1	5.0	4.6	4.3	4.4	4.4	4.4	6.0	7.2	H	4.6	6.9	116.2	-1.8	L	3.0	3.2	3.1				
Comerica Bank	5.1		8.3	5.1	na	5.1	4.9	4.5	3.9	3.9	4.0	4.3	5.0	5.9	na	na	6.5	na	na	1.3	2.0	2.1	2.2					
Economist Intelligence Unit	5.1		8.3	na	5.1	5.0	4.8	4.6	4.6	4.4	4.4	4.5	na	na	na	na	7.1	na	na	1.1	na	2.2	na					
Fannie Mae	5.1		8.3	na	na	4.9	4.8	4.6	4.4	4.2	4.3	4.5	na	na	na	na	6.7	na	na	-0.5	2.2	2.1	2.0					
Nomura Securities, Inc.	5.1		8.3	na	na	na	na	na	3.7	3.7	3.9	na	na	na	na	na	na	na	na	-1.1	2.0	2.8	2.5					
The Northern Trust Company	5.1		8.3	5.1	5.2	5.1	4.9	4.7	4.3	4.4	4.5	4.8	5.6	6.7	4.8	7.0	114.0	1.3	2.2	2.3	2.3							
Chmura Economics & Analytics	5.0		8.1	4.9	5.0	5.0	5.1	5.2	4.8	4.5	4.7	4.8	5.4	na	na	na	7.4	na	na	0.8	2.8	2.8	2.5					
DePrince & Assoc.	5.0		8.1	5.0	5.0	5.0	4.9	4.7	4.6	4.6	4.6	4.7	5.7	6.6	4.8	7.0	117.3	1.8	2.5	2.7	2.5							
EY-Parthenon	5.0		na	na	na	4.6	na	na	na	na	3.9	na	na	na	na	na	na	na	na	1.5	2.2	2.5	2.2					
Moody's Analytics	5.0		8.2	5.0	4.9	4.7	4.7	4.6	4.5	4.3	4.1	4.6	5.6	6.6	4.3	6.7	na	na	1.5	1.8	2.3	2.3						
Bank of America	4.9		na	na	na	na	na	na	4.3	4.3	4.3	4.7	na	na	na	na	na	na	na	0.5	2.7	2.5	2.4					
KPMG	4.9		8.0	4.9	4.6	4.9	4.8	4.7	4.3	3.9	3.9	4.1	4.8	6.0	na	6.5	na	na	1.0	2.6	3.4	H	2.8					
Scotiabank Group	4.8		na	4.6	na	4.2	na	na	3.7	3.8	4.0	4.2	na	na	na	na	na	na	na	0.8	1.5	3.2	1.9					
Via Nova Investment Mgt.	4.8		8.0	4.8	4.9	4.8	4.8	4.8	5.1	H	5.1	H	5.1	H	6.2	H	6.8	5.1	7.9	H	112.0	2.5	H	2.1	2.1	2.1		
GLC Financial Economics	4.7		7.8	4.6	4.7	4.6	4.6	4.4	4.0	4.2	4.2	4.5	5.1	6.0	4.3	6.2	116.1	2.1	1.4	L	2.2	2.3						
MacroPolicy Perspectives	4.7		7.8	4.6	na	na	na	na	4.0	4.2	4.3	na	na	na	na	na	6.8	na	na	2.0	2.4	2.5	2.0					
Daiwa Capital Markets America	4.6		7.8	na	na	4.4	na	na	3.7	3.5	L	3.6	4.3	na	na	na	6.3	115.0	1.0	2.4	2.5	2.4						
MacroFin Analytics & Rutgers Bus School	4.6		7.8	4.5	4.7	4.5	4.7	4.8	4.7	4.0	4.2	4.4	5.1	5.7	L	4.1	6.9	115.3	1.3	2.2	2.3	2.4						
Societe Generale	4.6		7.8	4.6	na	4.4	4.1	3.7	3.3	3.5	L	3.6	3.9	L	na	na	na	na	na	-0.5	1.8	2.2	1.9					
ING	4.4		na	na	na	na	na	na	3.5	3.5	L	3.5	L	3.9	L	na	na	na	na	na	-1.7	na	na	na				
The Lonski Group	4.4		7.6	4.4	4.4	4.2	4.2	4.1	4.0	4.0	3.9	4.1	5.0	5.8	4.1	6.7	118.7	0.8	2.1	2.1	2.2							
Wells Fargo	4.4		7.5	4.4	4.4	4.0	3.6	3.4	L	3.4	3.5	L	3.7	4.0	4.9	5.9	4.3	6.4	na	-1.5	1.4	L	1.3	1.4				
Georgia State University	4.0		7.2	na	na	3.9	3.7	3.5	3.5	3.7	4.0	4.3	5.0	6.1	na	6.8	na	na	na	0.4	2.4	3.3	2.6					
TS Lombard	3.5		6.6	L	3.5	L	3.5	L	3.6	3.8	3.9	4.0	4.1	4.9	5.7	L	4.0	5.8	L	110.0	L	1.5	3.4	H	3.4	H	3.4	H
NatWest Markets	3.3	L	na	na	3.4	L	3.6	3.7	3.8	3.2	L	3.5	L	4.1	4.6	4.9	5.8	4.6	6.4	na	-0.5	1.6	1.7	2.0				
December Consensus	4.9		8.1	4.9	4.9	4.8	4.7	4.6	4.2	4.1	4.2	4.5	5.3	6.3	4.6	6.9	115.9	0.6	2.2	2.5	2.3							
Top 10 Avg.	5.3		8.4	5.3	5.3	5.3	5.2	5.0	4.8	4.6	4.6	4.8	5.6	6.7	4.9	7.3	117.4	1.7	2.8	3.1	2.7							
Bottom 10 Avg.	4.3		7.6	4.5	4.5	4.1	4.2	4.0	3.6	3.7	3.8	4.1	4.9	5.9	4.2	6.4	114.4	-1.1	1.7	1.9	1.8							
November Consensus	4.9		8.0	4.9	4.8	4.8	4.7	4.6	4.2	4.1	4.2	4.5	5.2	6.3	4.5	6.8	116.6	1.0	2.2	2.5	2.3							
Number of Forecasts Changed From A Month Ago:																												
Down	11		7	7	7	14	14	12	12	11	10	12	8	8	10	13	8	17	10	8	8							
Same	22		16	15	9	12	8	7	13	16	15	10	7	7	4	6	5	12	16	16	15							
Up	4		6	3	4	6	5	8	11	9	12	12	7	6	4	9	4	8	9	12	12							
Diffusion Index	41%		48%	42%	43%	38%	33%	43%	49%	47%	53%	50%	48%	45%	33%	43%	38%	38%	49%	56%	56%							

Fourth Quarter 2024

Interest Rate Forecasts

Key Assumptions

Blue Chip Financial Forecasts Panel Members	Percent Per Annum – Average For Quarter															Avg. For ---Qtr--- A.	---(Q-Q % Change)--- ---(SAAR)---										
	Short-Term					--Intermediate-Term--					Long-Term						Fed's Adv Fgn Econ \$ Index	B. Real GDP	C. Price Index	D. Cons. Price Index	E. PCE Price Index						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15												
	Federal Funds Rate	Prime Bank Rate	SOFR Rate	Com. Paper 1-Mo.	Treas. Bills 3-Mo.	Treas. Bills 6-Mo.	Treas. Bills 1-Yr.	Treas. Notes 2-Yr.	Treas. Notes 5-Yr.	Treas. Notes 10-Yr.	Treas. Bond 30-Yr.	Aaa Corp. Bond	Baa Corp. Bond	State & Local Bonds	Home Mtg. Rate												
Barclays	5.3	H	na	na	na	5.1	na	na	4.4	4.3	4.3	4.5	na	na	na	na	na	na	1.0	2.7	2.6	2.6					
Chan Economics	5.2	8.2	5.1	5.1	5.2	5.3	H	5.1	H	4.6	4.1	4.2	4.4	5.4	6.4	4.8	7.0	na	0.8	2.3	2.5	2.1					
Goldman Sachs & Co.	5.1	na	na	na	na	4.8	na	na	na	4.6	4.5	4.6	4.5	na	na	na	na	na	1.9	2.1	2.4	2.1					
Loomis, Sayles & Company	5.1	8.3	H	5.1	5.1	5.2	5.1	4.9	4.6	4.6	4.5	4.7	5.3	6.3	4.6	6.9	na	116.6	-2.2	L	1.9	1.5	L	1.5	L		
Regions Financial Corporation	5.1	8.3	H	5.1	5.2	H	4.8	4.8	4.8	4.1	4.1	4.1	4.3	5.1	6.2	4.4	6.7	na	115.5	1.6	2.4	2.4	2.5				
S&P Global Market Intelligence	5.1	8.2	5.0	na	4.8	4.5	4.5	4.1	3.9	4.0	4.3	na	na	na	na	6.5	na	na	1.3	2.3	2.0	2.1					
Santander Capital Markets	5.1	8.3	H	5.1	5.1	4.7	4.6	4.5	4.4	4.2	4.1	4.4	5.2	6.3	3.6	L	6.6	114.0	1.1	2.5	2.5	2.1					
Action Economics	5.0	8.2	5.7	H	5.0	5.1	4.9	4.6	4.6	4.5	4.5	4.6	5.3	6.3	4.3	7.6	H	119.0	1.6	1.5	2.4	1.8					
BMO Capital Markets	5.0	8.2	5.0	5.1	5.2	5.1	4.6	3.9	4.0	4.1	4.3	5.3	6.4	4.8	7.1	na	na	117.6	1.5	2.0	2.2	2.0					
Fannie Mae	5.0	8.1	na	na	na	4.6	4.6	4.4	4.3	4.2	4.3	4.4	na	na	na	6.6	na	na	0.5	2.2	2.6	2.3					
J.P. Morgan Chase	5.0	na	na	na	na	na	na	na	3.9	3.9	4.0	4.5	na	na	na	na	na	na	0.8	2.3	2.4	2.0					
Oxford Economics	5.0	8.2	5.0	na	5.3	H	5.2	4.9	4.5	3.7	4.1	4.4	4.2	L	na	na	6.9	116.1	0.7	2.3	1.8	2.2					
PNC Financial Services Corp.	5.0	8.1	5.0	na	4.7	4.6	4.6	4.6	4.7	4.8	H	5.0	na	7.1	H	5.9	H	7.2	122.0	H	-1.2	1.9	1.8	1.6			
Comerica Bank	4.8	8.0	4.8	na	4.7	4.5	4.0	3.5	3.5	3.7	4.0	4.7	5.6	L	na	6.0	na	na	1.5	2.0	2.1	2.2					
Economist Intelligence Unit	4.8	8.0	na	4.8	4.8	4.6	4.5	4.4	4.2	4.3	4.5	na	na	na	na	7.0	na	na	1.5	na	2.1	na					
EY-Parthenon	4.8	na	na	na	4.4	na	na	na	na	3.8	na	na	na	na	na	na	na	na	1.8	2.1	2.2	2.1					
Moody's Analytics	4.8	7.9	4.7	4.7	4.5	4.4	4.4	4.3	4.2	4.1	4.5	5.5	6.5	4.2	6.5	na	na	na	1.5	1.9	2.2	2.3					
DePrince & Assoc.	4.7	7.8	4.7	4.7	4.7	4.7	4.6	4.5	4.5	4.5	4.6	5.7	6.6	4.9	6.8	na	na	117.1	2.1	2.4	2.6	2.4					
RDQ Economics	4.7	7.8	4.7	5.1	4.6	4.6	4.4	4.2	4.3	4.3	5.3	H	5.9	H	7.0	5.6	6.8	115.1	0.9	2.9	3.0	3.0					
Bank of America	4.6	na	na	na	na	na	na	na	4.0	4.2	4.3	4.8	na	na	na	na	na	na	1.0	2.5	1.9	2.2					
Nomura Securities, Inc.	4.6	7.8	na	na	na	na	na	na	3.2	3.3	L	3.7	na	na	na	na	na	na	na	-1.9	1.6	2.7	2.3				
The Northern Trust Company	4.6	7.8	4.6	4.7	4.5	4.3	4.2	3.9	4.2	4.3	4.6	5.6	6.7	4.7	6.8	na	na	112.0	1.5	2.1	2.2	2.2					
Chmura Economics & Analytics	4.5	7.7	4.5	4.6	4.6	4.8	4.8	4.6	4.4	4.6	4.8	5.4	na	na	na	7.0	na	na	1.9	2.5	2.6	2.4					
KPMG	4.5	7.6	4.5	4.1	4.4	4.4	4.2	3.9	3.5	3.6	3.9	4.5	5.7	na	6.0	na	na	na	2.0	2.4	2.1	2.2					
Via Nova Investment Mgt.	4.5	7.8	4.6	4.6	4.5	4.5	4.5	4.8	H	4.8	H	4.8	H	4.8	5.9	H	6.6	4.8	7.6	H	110.0	L	2.5	2.1	2.0	2.1	
GLC Financial Economics	4.3	7.4	4.3	4.3	4.3	4.2	4.1	3.7	4.1	4.1	4.4	4.9	5.9	4.3	6.0	na	na	115.9	1.6	1.6	2.0	2.2					
MacroPolicy Perspectives	4.2	7.4	4.2	na	na	na	na	3.5	4.0	4.3	na	na	na	na	6.5	na	na	na	2.3	2.5	2.7	2.1					
Societe Generale	4.2	7.3	4.2	na	3.9	3.6	3.3	3.1	L	3.5	3.6	3.9	na	na	na	na	na	na	3.7	H	1.8	2.2	1.8				
Daiwa Capital Markets America	4.1	7.3	na	na	4.0	na	na	na	3.4	3.3	L	3.5	L	4.2	na	na	na	6.1	115.0	2.0	2.3	2.4	2.3				
MacroFin Analytics & Rutgers Bus School	4.1	7.3	4.0	4.3	3.9	4.2	4.4	4.5	3.8	4.0	4.4	5.0	5.6	L	3.9	6.7	na	115.1	1.6	2.2	2.1	2.2					
Scotiabank Group	4.0	na	3.8	na	3.7	na	na	3.5	3.6	4.0	4.2	na	na	na	na	na	na	na	1.2	1.1	L	2.9	2.9				
ING	3.9	na	na	na	na	na	na	3.3	3.4	3.5	L	3.9	na	na	na	na	na	na	1.0	na	na	na					
The Lonski Group	3.9	7.1	3.9	4.0	3.7	3.8	3.7	3.7	3.8	3.9	4.0	5.0	5.8	4.1	6.6	na	na	119.3	1.5	2.2	2.1	2.0					
Georgia State University	3.6	6.8	na	na	3.5	3.2	L	3.1	L	3.4	3.4	3.7	4.0	4.7	5.9	na	6.6	na	0.8	2.2	2.0	2.0					
Wells Fargo	3.6	6.8	3.6	3.6	3.4	L	3.3	3.2	3.2	3.3	L	3.5	L	3.8	L	4.7	5.7	4.1	6.1	na	0.3	2.6	3.1	2.6			
TS Lombard	3.5	6.6	L	3.5	L	3.5	3.4	L	3.5	3.6	3.8	3.9	4.0	4.1	4.9	5.7	4.0	5.8	L	112.0	2.0	3.2	H	3.2	H	3.2	H
NatWest Markets	3.1	L	na	na	3.2	L	3.4	L	3.5	3.6	3.1	L	3.4	4.0	4.6	4.8	5.7	4.5	6.3	na	1.5	1.4	2.7	2.4			
December Consensus	4.6	7.7	4.6	4.5	4.5	4.4	4.3	4.0	4.0	4.1	4.4	5.1	6.2	4.5	6.7	115.7	1.2	2.2	2.3	2.2							
Top 10 Avg.	5.1	8.2	5.1	5.0	5.0	4.9	4.7	4.6	4.5	4.5	4.8	5.5	6.6	4.9	7.1	117.4	2.2	2.6	2.8	2.6							
Bottom 10 Avg.	3.8	7.2	4.1	4.1	3.7	3.8	3.7	3.3	3.4	3.7	4.0	4.7	5.8	4.1	6.2	113.9	-0.1	1.7	1.9	1.9							
November Consensus	4.5	7.6	4.5	4.4	4.5	4.4	4.3	3.9	3.9	4.0	4.3	5.1	6.2	4.4	6.6	116.4	1.5	2.2	2.5	2.3							
Number of Forecasts Changed From A Month Ago:																											
Down	9	5	5	4	15	15	12	9	8	6	9	8	8	8	10	8	14	10	11	8							
Same	20	17	14	11	12	8	11	14	15	16	11	8	7	5	8	4	17	16	18	16							
Up	8	7	6	5	5	4	4	11	11	13	12	6	6	5	10	5	6	9	7	11							
Diffusion Index	49%	53%	52%	53%	34%	30%	35%	53%	54%	60%	55%	45%	45%	42%	50%	41%	39%	49%	44%	54%							

International Interest Rate And Foreign Exchange Rate Forecasts

Blue Chip Forecasters	Fed Fund Target Rate		
	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	5.13	5.13	5.13
BMO Capital Markets	5.38	5.38	4.88
ING Financial Markets	5.38	4.88	3.88
Moody's Analytics	5.37	5.38	5.09
Northern Trust	5.38	5.38	4.63
Oxford Economics	5.38	5.38	5.35
S&P Global Market Intelligence	--	--	--
Scotiabank	5.38	5.13	3.88
TS Lombard	4.75	3.50	3.50
Wells Fargo	5.38	5.38	4.38
December Consensus	5.28	5.06	4.52
High	5.38	5.38	5.35
Low	4.75	3.50	3.50
Last Months Avg.	5.49	5.36	4.52

Blue Chip Forecasters	Policy-Rate Balance Rate		
	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	-0.10	0.00	0.20
BMO Capital Markets	-0.10	-0.10	-0.10
ING Financial Markets	-0.10	0.00	0.00
Moody's Analytics	-0.10	-0.10	0.00
Nomura Securities	--	--	--
Northern Trust	-0.10	-0.10	0.10
Oxford Economics	-0.04	-0.04	0.00
S&P Global Market Intelligence	--	--	--
Scotiabank	--	--	--
TS Lombard	0.00	0.00	-0.10
Wells Fargo	-0.10	-0.10	0.00
December Consensus	-0.08	-0.06	0.01
High	0.00	0.00	0.20
Low	-0.10	-0.10	-0.10
Last Months Avg.	-0.08	-0.06	-0.05

Blue Chip Forecasters	Official Bank Rate		
	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	5.25	5.25	4.25
BMO Capital Markets	5.25	5.08	4.58
ING Financial Markets	5.25	5.25	4.25
Moody's Analytics	5.25	5.25	5.06
Nomura Securities	--	--	--
Northern Trust	5.25	5.25	4.75
Oxford Economics	5.25	5.25	5.09
S&P Global Market Intelligence	--	--	--
Scotiabank	5.25	4.75	4.25
TS Lombard	5.25	4.25	2.25
Wells Fargo	5.25	4.75	3.75
December Consensus	5.25	5.01	4.25
High	5.25	5.25	5.09
Low	5.25	4.25	2.25
Last Months Avg.	5.28	5.09	4.43

Blue Chip Forecasters	SNB Policy Rate		
	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	1.75	1.75	1.25
BMO Capital Markets	1.75	1.75	1.75
ING Financial Markets	1.75	1.75	1.75
Moody's Analytics	2.00	2.00	2.00
Nomura Securities	--	--	--
Northern Trust	1.75	1.75	1.50
Oxford Economics	1.75	1.75	1.63
S&P Global Market Intelligence	--	--	--
Scotiabank	--	--	--
TS Lombard	1.75	1.50	1.25
Wells Fargo	1.75	1.50	1.25
December Consensus	1.78	1.72	1.55
High	2.00	2.00	2.00
Low	1.75	1.50	1.25
Last Months Avg.	1.79	1.75	1.59

Blue Chip Forecasters	O/N MMkt Financing Rate		
	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	5.25	5.25	5.00
BMO Capital Markets	5.00	5.00	4.50
ING Financial Markets	5.00	4.50	3.50
Moody's Analytics	5.00	5.00	4.49
Nomura Securities	--	--	--
Northern Trust	5.00	5.00	4.25
Oxford Economics	5.00	5.00	4.63
S&P Global Market Intelligence	--	--	--
Scotiabank	5.00	4.75	4.00
TS Lombard	5.00	4.00	2.75
Wells Fargo	5.00	4.50	4.00
December Consensus	5.03	4.78	4.12
High	5.25	5.25	5.00
Low	5.00	4.00	2.75
Last Months Avg.	5.03	4.88	4.17

United States			
10 Yr. Gov't Bond Yield %			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
5.00	4.85	4.35	
4.37	4.26	4.13	
4.25	4.00	3.50	
4.66	4.33	4.13	
4.70	4.70	4.30	
4.72	4.65	4.27	
4.64	4.43	4.01	
4.50	4.20	4.00	
4.25	4.00	4.00	
4.30	3.85	3.65	
4.54	4.33	4.03	
5.00	4.85	4.35	
4.25	3.85	3.50	
4.64	4.39	3.92	

Japan			
10 Yr. Gov't Bond Yield %			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
0.90	0.95	1.00	
0.96	0.98	1.00	
1.00	1.00	1.20	
0.90	0.90	0.90	
--	--	--	
0.80	0.80	1.00	
0.88	0.91	0.87	
--	--	--	
--	--	--	
0.65	0.40	0.40	
0.95	0.95	0.85	
0.88	0.86	0.90	
1.00	1.00	1.20	
0.65	0.40	0.40	
0.85	0.80	0.66	

United Kingdom			
10 Yr. Gilt Yields %			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
4.10	4.10	4.00	
4.39	4.30	4.13	
4.25	4.25	3.50	
4.26	3.93	3.73	
--	--	--	
4.30	4.25	3.85	
4.42	4.39	4.35	
--	--	--	
--	--	--	
4.10	3.85	3.85	
4.20	3.90	3.55	
4.25	4.12	3.87	
4.42	4.39	4.35	
4.10	3.85	3.50	
4.52	4.28	3.88	

Switzerland			
10 Yr. Gov't Bond Yield %			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
--	--	--	
--	--	--	
1.10	1.10	1.10	
1.46	1.96	2.05	
--	--	--	
1.00	1.00	0.90	
1.15	1.25	1.34	
--	--	--	
--	--	--	
0.80	0.55	0.55	
--	--	--	
1.10	1.17	1.19	
1.46	1.96	2.05	
0.80	0.55	0.55	
1.29	1.31	1.29	

Canada			
10 Yr. Gov't Bond Yield %			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
--	--	--	
3.64	3.58	3.54	
3.50	3.25	3.00	
4.39	4.19	4.14	
--	--	--	
3.75	3.70	3.20	
4.01	3.97	3.91	
--	--	--	
3.85	3.75	3.65	
3.50	2.25	2.25	
3.60	3.50	3.30	
3.78	3.52	3.37	
4.39	4.19	4.14	
3.50	2.25	2.25	
3.91	3.76	3.39	

Fed's AFE \$ Index			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
--	--	--	
117.2	117.2	117.0	
116.2	114.0	109.1	
--	--	--	
117.5	116.0	112.0	
118.8	119.4	117.7	
--	--	--	
--	--	--	
110.0	108.0	112.0	
--	--	--	
115.9	114.9	113.6	
118.8	119.4	117.7	
110.0	108.0	109.1	
119.3	116.4	112.7	

Yen per US\$			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
153.0	152.0	145.0	
148.0	146.0	141.0	
140.0	135.0	130.0	
148.2	144.0	133.6	
148.0	140.0	135.0	
149.0	146.0	140.0	
150.4	152.5	145.0	
148.9	146.4	141.0	
150.0	150.0	140.0	
145.0	142.4	147.6	
--	--	--	
148.1	145.4	139.8	
153.0	152.5	147.6	
140.0	135.0	130.0	
147.2	142.6	135.3	

US\$ per Pound Sterling			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
1.21	1.23	1.30	
1.26	1.26	1.27	
1.23	1.24	1.28	
1.25	1.26	1.26	
1.27	1.28	1.30	
1.24	1.26	1.30	
1.21	1.21	1.22	
1.22	1.23	1.25	
1.25	1.25	1.30	
1.27	1.20	1.15	
--	--	--	
1.24	1.24	1.26	
1.27	1.28	1.30	
1.21	1.20	1.15	
1.22	1.23	1.24	

CHF per US\$			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
0.91	0.92	0.91	
0.87	0.86	0.85	
0.91	0.90	0.87	
0.89	0.88	0.84	
0.88	0.87	0.86	
0.89	0.87	0.85	
0.91	0.93	0.92	
0.92	0.91	0.89	
0.89	0.89	0.89	
0.90	0.90	0.90	
--	--	--	
0.90	0.89	0.88	
0.92	0.93	0.92	
0.87	0.86	0.84	
0.91	0.90	0.89	

C\$ per US\$			
In 3 Mo.	In 6 Mo.	In 12 Mo.	
1.39	1.38	1.36	
1.33	1.31	1.28	
1.35	1.33	1.27	
1.36	1.32	1.27	
1.34	1.33	1.31	
1.38	1.34	1.30	
1.37	1.38	1.37	
1.35	1.33	1.30	
1.33	1.33	1.28	
1.35	1.35	1.35	
--	--	--	
1.36	1.34	1.31	
1.39	1.38	1.37	
1.33	1.31	1.27	
1.35	1.33	1.30	

International Interest Rate And Foreign Exchange Rate Forecasts

Blue Chip Forecasters	Official Cash Rate		
	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	4.35	4.35	3.85
BMO Capital Markets	4.35	4.10	3.60
ING Financial Markets	4.35	4.10	3.60
Moody's Analytics	4.27	4.35	4.10
Nomura Securities	--	--	--
Northern Trust	4.35	4.35	3.85
Oxford Economics	4.40	4.60	4.60
S&P Global Market Intelligence	--	--	--
Scotiabank	--	--	--
TS Lombard	4.10	3.75	2.75
Wells Fargo	4.35	4.35	4.10
December Consensus	4.32	4.24	3.81
High	4.40	4.60	4.60
Low	4.10	3.75	2.75
Last Months Avg.	4.24	4.12	3.76

Australia		
10 Yr. Gov't Bond Yield %		
In 3 Mo.	In 6 Mo.	In 12 Mo.
--	--	--
--	--	--
4.80	4.30	3.70
5.12	4.90	4.36
--	--	--
4.60	4.50	4.10
4.60	4.76	4.41
--	--	--
--	--	--
4.40	3.20	3.20
--	--	--
4.70	4.33	3.95
5.12	4.90	4.41
4.40	3.20	3.20
4.59	4.27	3.69

US\$ per A\$		
In 3 Mo.	In 6 Mo.	In 12 Mo.
0.63	0.64	0.66
0.66	0.66	0.67
0.63	0.66	0.72
0.64	0.66	0.72
0.68	0.69	0.71
0.64	0.66	0.68
0.64	0.64	0.67
0.64	0.66	0.69
0.66	0.66	0.68
0.65	0.65	0.65
--	--	--
0.65	0.66	0.69
0.68	0.69	0.72
0.63	0.64	0.65
0.65	0.66	0.68

Blue Chip Forecasters	Main Refinancing Rate		
	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	4.50	4.50	3.50
BMO Capital Markets	4.50	4.25	3.75
ING Financial Markets	4.50	4.25	3.75
Moody's Analytics	4.50	4.50	4.22
Nomura Securities	--	--	--
Northern Trust	4.50	4.25	3.75
Oxford Economics	4.50	4.50	3.75
S&P Global Market Intelligence	--	--	--
Scotiabank	4.50	4.25	3.75
TS Lombard	4.00	2.75	2.75
Wells Fargo	4.00	3.75	3.25
December Consensus	4.39	4.11	3.61
High	4.50	4.50	4.22
Low	4.00	2.75	2.75
Last Months Avg.	4.38	4.22	3.56

Euro area

US\$ per Euro		
In 3 Mo.	In 6 Mo.	In 12 Mo.
1.05	1.06	1.09
1.10	1.11	1.12
1.08	1.10	1.15
1.04	1.06	1.09
1.11	1.12	1.14
1.07	1.10	1.14
1.05	1.05	1.06
1.07	1.09	1.12
1.10	1.10	1.12
1.10	1.10	1.10
--	--	--
1.08	1.09	1.11
1.11	1.12	1.15
1.04	1.05	1.06
1.05	1.06	1.09

Blue Chip Forecasters	10 Yr. Gov't Bond Yields %											
	Germany			France			Italy			Spain		
	In 3 Mo.	In 6 Mo.	In 12 Mo.	In 3 Mo.	In 6 Mo.	In 12 Mo.	In 3 Mo.	In 6 Mo.	In 12 Mo.	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	2.70	2.65	2.25	--	--	--	--	--	--	--	--	--
BMO Capital Markets	2.60	2.49	2.28	--	--	--	--	--	--	--	--	--
ING Financial Markets	2.40	2.30	2.30	3.30	3.20	3.30	4.70	4.40	4.50	3.85	3.60	3.70
Moody's Analytics	2.73	2.67	2.60	3.28	3.15	3.02	4.60	4.60	4.53	3.84	3.77	3.75
Northern Trust	2.65	2.50	2.10	3.15	3.00	2.60	4.35	4.25	3.85	3.60	3.50	3.10
Oxford Economics	2.80	2.73	2.44	3.37	3.29	2.91	4.82	4.72	4.43	3.89	3.80	3.55
TS Lombard	2.40	2.15	2.15	2.75	2.50	2.50	3.70	3.45	3.45	3.15	2.90	2.90
Wells Fargo	2.55	2.50	2.45	--	--	--	--	--	--	--	--	--
December Consensus	2.60	2.50	2.32	3.17	3.03	2.87	4.43	4.28	4.15	3.67	3.51	3.40
High	2.80	2.73	2.60	3.37	3.29	3.30	4.82	4.72	4.53	3.89	3.80	3.75
Low	2.40	2.15	2.10	2.75	2.50	2.50	3.70	3.45	3.45	3.15	2.90	2.90
Last Months Avg.	2.76	2.63	2.44	3.27	3.09	2.88	4.49	4.31	4.10	3.76	3.60	3.42

	Consensus Forecasts			
	10-year Bond Yields vs U.S. Yield			
	Current	In 3 Mo.	In 6 Mo.	In 12 Mo.
Japan	-3.68	-3.66	-3.47	-3.13
United Kingdom	-0.13	-0.29	-0.21	-0.16
Switzerland	-3.49	-3.44	-3.16	-2.85
Canada	-0.75	-0.76	-0.80	-0.66
Australia	0.08	0.16	0.00	-0.08
Germany	-1.83	-1.94	-1.83	-1.71
France	-1.27	-1.37	-1.30	-1.17
Italy	-0.08	-0.11	-0.04	0.12
Spain	-0.89	-0.87	-0.81	-0.63

	Consensus Forecasts			
	Policy Rates vs U.S. Target Rate			
	Current	In 3 Mo.	In 6 Mo.	In 12 Mo.
Japan	-5.48	-5.36	-5.01	-4.51
United Kingdom	-0.13	-0.03	-0.05	-0.28
Switzerland	-3.63	-3.50	-3.34	-2.98
Canada	-0.38	-0.25	-0.28	-0.40
Australia	-1.03	-0.97	-0.82	-0.72
Euro area	-0.88	-0.89	-0.95	-0.92

Special Questions:

1. What is your estimate of the long-term neutral fed funds rate?

<u>Consensus</u>	2.90%
<u>Top 10</u>	3.72%
<u>Bottom 10</u>	2.29%

2. Have financial conditions tightened sufficiently to delay/prevent further policy rate increases? Yes 97% No 3%

3. What probability do you attach to a recession beginning over the next 12 months in the:

	<u>US</u>	<u>euro area</u>	<u>UK</u>
Consensus	44%	55%	58%
Top 10	59%	66%	67%
Bot 10	29%	44%	48%

4 a. Does your outlook for China's economy pose meaningful risks to the outlook for global growth? Yes 74% No 26%

b. Do you think recent policy measures in China will boost its growth rate? Yes 37% No 63%

5 a. Has the Federal Reserve completed its tightening cycle? Yes 100% No 0%

b. Has the European Central Bank completed its tightening cycle? Yes 91% No 9%

c. Has the Bank of England completed its tightening cycle? Yes 91% No 9%

6. When will the first hike in the BoJ's short-term policy rate occur?

<u>Q4 2023</u>	0%
<u>Q1 2024</u>	5%
<u>Q2 2024</u>	53%
<u>Q3 2024</u>	21%
<u>Later</u>	21%

Viewpoints:

A Sampling of Views on the Economy, Financial Markets and Government Policy Excerpted from Recent Reports Issued by our Blue Chip Panel Members and Others

FOMC: On Hold in Restrictive Territory

(Lawrence Werther, Daiwa Capital Markets America)

Since the Fed embarked on its aggressive rate hike campaign in March 2022, we have held the view that a restrictive stance of monetary policy would be required to tame rapid inflation and prevent erosion in inflation expectations of businesses and households. For much of the past year, we had anticipated that the current campaign would culminate in a final increase of 25 basis points in the target range for the federal funds rate to 5.50 to 5.75 percent, with the last change occurring in late 2023, before maintaining the policy rate in restrictive territory for several months. In light of more recent developments, we have become less confident in anticipating any further increase. The FOMC last hiked the federal funds rate in July, and comments by various officials since then, in our view, have turned decidedly more cautious. Moreover, while inflation is still well above target and various indicators suggest that supply and demand imbalances persist in the labor market, we see increasing evidence on both fronts that give officials more leeway to wait for restrictive policy to work.

As of now, and despite the constant reminders from Fed officials that more hikes are possible, we suspect that the FOMC is done tightening monetary policy (i.e., a terminal target range of 5.25 to 5.50 percent). However, while this represents a shift in our Fed call, it is not a material one. We still project policymakers holding the federal funds rate at the terminal rate well into 2024-Q2 to ensure that inflation is convincingly on a path back toward 2%. As inflation decelerates further and the economy struggles amid still-tight financial conditions, we expect the FOMC to begin its slow transition to easier policy. That said, rather than projecting a first cut of 25 basis points to come at the April 30/May 1 FOMC meeting, we now look for the change to occur at the June 11-12 gathering. We then look for the Committee to continue easing by 25-basis-point increments at each of the final four meetings of 2024, leading to a year-end target range of 4.00 to 4.25 percent (consistent with our previous forecast).

Messaging is likely to present a key challenge for officials in coming months despite what we view as a sufficiently restrictive monetary policy. Financial conditions are the primary transmission mechanism of monetary policy to the real economy, and while the economy has responded to tight financial conditions, maintenance of the current constraints on economic activity is essential to achieve desired policy outcomes, i.e., stable prices and maximum sustainable employment. Evidence of the challenge awaiting officials emerged as markets repriced to incorporate evolving expectations for monetary policy. The S&P 500 has rallied more than nine percent since its recent low on October 27, erasing much of the easing in the August-to-October period. Moreover, softening data and the perception that the Fed is done hiking interest rates contributed to a 16-basis-point drop in the 2-year yield from last Friday's close to 4.90 percent and a plunge of 21 basis points in the 10-year yield to 4.44 percent. Consequently, additional easing in financial conditions, despite the maintenance of restrictive policy, could jeopardize further progress toward policy objectives.

A near-term catalyst for movements in financial markets, and key contributory factor in the revision of our Fed call, was data this week that pointed more decidedly toward progress in inflation and easing in tight labor market conditions. On the inflation front, the CPI for October printed below expectations. The headline was flat while the core increased 0.2%. Moreover, risks tilted to the upside as many analysts were concerned that changes to the calculation of health insurance costs in the October report could lead to an upswing in a previously subdued area.

Headline CPI inflation has fallen from a peak of 9.1% in June 2022 to 3.2% in Oct, including a slowing of five ticks in the past month. Energy costs have dropped and increases in food prices have decelerated sharply. Improvement in the core component has been measurable, but less dramatic, as prices rose 4.0% in Oct vs 4.2% in Sep. Additionally, Fed officials rightly view core inflation as still well above the two percent target. Core goods inflation has returned to the pre-2020 trend after the unwinding of pandemic-related supply-demand imbalances (year-over-year growth of 0.1 percent as of October), but more improvement is required in core services where year-over-year growth has slowed from a peak of 7.3 percent in February 2023 but is still elevated at 5.5 percent. Housing costs (illustrated by owners' equivalent rent in the chart) is still a key contributor to core service costs and is widely expected to moderate only over time.

A helpful illustration of near-term progress on inflation is the recent month-to-month performance of the trimmed-mean CPI. (We view this measure as offering a better perspective of underlying inflation as it eliminates price changes at the tails of the monthly distribution.) On a year-over-year basis, this measure has remained elevated (growth of 4.1 percent versus 4.3 percent in September), but the far better near-term performance indicates a more forceful easing in underlying inflation (increases of 0.2 percent in five of the past eight months).

Data on unemployment claims also suggest a slowdown in the real economy that should further dull the underlying inflation impulse, while also emphasizing that risks to the outlook have become more two-sided. That is, the risks of doing too little to combat entrenched inflation must now be weighed against the risks of overtightening and doing unnecessary damage to the economy. While initial claims increased by 13,000 to 231,000 in the week of Nov 11, a reading above the pre-pandemic average of 218,000, which suggested a labor market on firm footing, they were still relatively low from a longer-term perspective. More important, and perhaps somewhat concerning, was the jump of 32,000 in continuing unemployment claims to 1.865 million in the week of Nov 4. Over the past eight weeks, continuing claims have risen by a cumulative 207,000 to the highest level in almost two years. On one hand, this development speaks to an ongoing rebalancing in a tight labor market; on the other hand, it may be the beginning of an uptrend that usually presents prior to the onset of a recession. Again, this development speaks to postponing further hikes, both because policy goals appear more attainable with the current level of monetary restraint and because caution is warranted as the economy possibly nears an inflection point.

Long-Range Survey:

The table below contains the results of our twice-annual long-range CONSENSUS survey. There are also Top 10 and Bottom 10 averages for each variable. Shown are consensus estimates for the years 2025 through 2029 and averages for the five-year periods 2025-2029 and 2030-2034. Apply these projections cautiously. Few if any economic, demographic and political forces can be evaluated accurately over such long time spans.

		----- Average For The Year -----					Five-Year Averages	
		2025	2026	2027	2028	2029	2025-2029	2030-2034
1. Federal Funds Rate	CONSENSUS	3.8	3.2	3.1	3.0	3.0	3.2	3.0
	Top 10 Average	4.3	3.6	3.6	3.5	3.5	3.7	3.5
	Bottom 10 Average	3.3	2.7	2.6	2.6	2.5	2.7	2.5
2. Prime Rate	CONSENSUS	6.9	6.3	6.2	6.2	6.2	6.3	6.1
	Top 10 Average	7.3	6.7	6.7	6.6	6.6	6.8	6.6
	Bottom 10 Average	6.5	5.9	5.7	5.7	5.7	5.9	5.6
3. SOFR	CONSENSUS	3.8	3.2	3.1	3.1	3.1	3.3	3.0
	Top 10 Average	4.1	3.6	3.5	3.5	3.4	3.6	3.4
	Bottom 10 Average	3.4	2.9	2.7	2.7	2.6	2.9	2.6
4. Commercial Paper, 1-Mo	CONSENSUS	3.7	3.2	3.2	3.2	3.1	3.3	3.1
	Top 10 Average	3.9	3.5	3.4	3.4	3.4	3.5	3.4
	Bottom 10 Average	3.5	2.9	2.8	2.8	2.8	3.0	2.7
5. Treasury Bill Yield, 3-Mo	CONSENSUS	3.7	3.2	3.1	3.0	3.0	3.2	3.0
	Top 10 Average	4.1	3.6	3.6	3.5	3.5	3.7	3.5
	Bottom 10 Average	3.2	2.7	2.6	2.5	2.5	2.7	2.4
6. Treasury Bill Yield, 6-Mo	CONSENSUS	3.7	3.3	3.2	3.2	3.1	3.3	3.1
	Top 10 Average	4.1	3.7	3.6	3.6	3.6	3.7	3.6
	Bottom 10 Average	3.4	2.9	2.8	2.7	2.7	2.9	2.7
7. Treasury Bill Yield, 1-Yr	CONSENSUS	3.7	3.4	3.3	3.3	3.2	3.4	3.2
	Top 10 Average	4.1	3.8	3.7	3.7	3.7	3.8	3.7
	Bottom 10 Average	3.3	3.0	2.9	2.8	2.8	3.0	2.8
8. Treasury Note Yield, 2-Yr	CONSENSUS	3.7	3.5	3.4	3.4	3.4	3.5	3.4
	Top 10 Average	4.1	3.9	3.9	3.9	3.9	3.9	3.9
	Bottom 10 Average	3.3	3.1	3.0	2.9	2.9	3.0	2.9
9. Treasury Note Yield, 5-Yr	CONSENSUS	3.7	3.7	3.7	3.7	3.7	3.7	3.7
	Top 10 Average	4.1	4.1	4.2	4.2	4.3	4.2	4.3
	Bottom 10 Average	3.3	3.2	3.2	3.1	3.1	3.2	3.1
10. Treasury Note Yield, 10-Yr	CONSENSUS	3.9	3.9	3.9	3.9	3.9	3.9	3.9
	Top 10 Average	4.3	4.4	4.5	4.5	4.5	4.4	4.5
	Bottom 10 Average	3.5	3.3	3.3	3.3	3.3	3.3	3.3
11. Treasury Bond Yield, 30-Yr	CONSENSUS	4.1	4.1	4.1	4.2	4.2	4.1	4.2
	Top 10 Average	4.5	4.6	4.7	4.7	4.7	4.6	4.8
	Bottom 10 Average	3.8	3.6	3.6	3.6	3.6	3.7	3.6
12. Corporate Aaa Bond Yield	CONSENSUS	5.0	4.9	4.9	5.0	5.0	4.9	5.0
	Top 10 Average	5.3	5.3	5.4	5.5	5.5	5.4	5.5
	Bottom 10 Average	4.6	4.5	4.5	4.5	4.5	4.5	4.4
13. Corporate Baa Bond Yield	CONSENSUS	6.0	6.0	6.0	6.0	6.0	6.0	6.0
	Top 10 Average	6.4	6.4	6.5	6.6	6.6	6.5	6.6
	Bottom 10 Average	5.7	5.5	5.5	5.6	5.6	5.6	5.6
14. State & Local Bonds Yield	CONSENSUS	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	Top 10 Average	4.6	4.7	4.7	4.8	4.8	4.7	4.9
	Bottom 10 Average	4.0	3.8	3.9	3.9	3.8	3.9	3.8
15. Home Mortgage Rate	CONSENSUS	6.2	5.9	5.9	5.9	5.9	5.9	5.8
	Top 10 Average	6.6	6.4	6.4	6.5	6.5	6.5	6.5
	Bottom 10 Average	5.7	5.5	5.4	5.3	5.2	5.4	5.2
A. Fed's AFE Nominal \$ Index	CONSENSUS	114.1	113.0	113.1	113.2	112.8	113.2	112.3
	Top 10 Average	116.0	115.5	115.9	116.5	116.2	116.0	115.7
	Bottom 10 Average	111.8	110.4	110.1	109.6	109.1	110.2	108.5
		----- Year-Over-Year, % Change -----					Five-Year Averages	
		2025	2026	2027	2028	2029	2025-2029	2030-2034
B. Real GDP	CONSENSUS	1.6	2.1	2.1	2.0	2.0	1.9	2.0
	Top 10 Average	2.1	2.4	2.4	2.3	2.3	2.3	2.3
	Bottom 10 Average	1.1	1.8	1.8	1.7	1.7	1.6	1.7
C. GDP Chained Price Index	CONSENSUS	2.2	2.2	2.1	2.1	2.2	2.2	2.2
	Top 10 Average	2.5	2.3	2.3	2.3	2.3	2.3	2.3
	Bottom 10 Average	2.0	2.0	2.0	2.0	2.0	2.0	2.0
D. Consumer Price Index	CONSENSUS	2.3	2.2	2.2	2.2	2.2	2.2	2.2
	Top 10 Average	2.5	2.4	2.4	2.4	2.4	2.4	2.4
	Bottom 10 Average	2.1	2.1	2.0	2.0	2.0	2.0	2.0
E. PCE Price Index	CONSENSUS	2.2	2.1	2.1	2.1	2.1	2.1	2.1
	Top 10 Average	2.3	2.3	2.2	2.2	2.2	2.2	2.3
	Bottom 10 Average	2.0	2.0	1.9	1.9	2.0	1.9	2.0

2023 Historical Data

Monthly Indicator	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Retail and Food Service Sales (a)	2.8	-0.7	-0.9	0.4	0.7	0.2	0.6	0.7	0.9	-0.1	....	....
Auto & Light Truck Sales (b)	15.10	14.88	14.93	15.68	15.51	16.06	15.94	15.27	15.68	15.50	....	....
Personal Income (a, current \$)	1.0	0.5	0.5	0.2	0.3	0.2	0.3	0.5	0.4	0.2	....	....
Personal Consumption (a, current \$)	1.6	0.4	-0.1	0.4	0.2	0.4	0.7	0.4	0.7	0.2	....	....
Consumer Credit (e)	5.1	2.8	4.8	3.3	-0.2	3.1	2.7	-3.8	2.2	....	....	....
Consumer Sentiment (U. of Mich.)	64.9	66.9	62.0	63.7	59.0	64.2	71.5	69.4	67.9	63.8	61.3	....
Household Employment (c)	894	177	577	139	-310	273	268	222	86	-348	....	....
Nonfarm Payroll Employment (c)	472	248	217	217	281	105	236	165	297	150	....	....
Unemployment Rate (%)	3.4	3.6	3.5	3.4	3.7	3.6	3.5	3.8	3.8	3.9	....	....
Average Hourly Earnings (All, cur. \$)	33.02	33.11	33.20	33.34	33.45	33.60	33.73	33.82	33.93	34.00	....	....
Average Workweek (All, hrs.)	34.6	34.5	34.4	34.4	34.3	34.4	34.3	34.4	34.4	34.3	....	....
Industrial Production (d)	1.5	0.9	0.2	0.3	0.1	-0.4	0.1	0.1	-0.2	-0.7	....	....
Capacity Utilization (%)	79.6	79.5	79.5	79.8	79.5	78.9	79.6	79.5	79.5	78.9	....	....
ISM Manufacturing Index (g)	47.4	47.7	46.3	47.1	46.9	46.0	46.4	47.6	49.0	46.7	....	....
ISM Nonmanufacturing Index (g)	55.2	55.1	51.2	51.9	50.3	53.9	52.7	54.5	53.6	51.8	....	....
Housing Starts (b)	1.340	1.436	1.380	1.348	1.583	1.418	1.451	1.305	1.346	1.372	....	....
Housing Permits (b)	1.354	1.482	1.437	1.417	1.496	1.441	1.443	1.541	1.471	1.498	....	....
New Home Sales (1-family, c)	649	625	640	679	710	683	728	662	719	679	....	....
Construction Expenditures (a)	2.2	0.4	0.6	0.3	2.0	0.5	0.7	1.0	0.4	....	....	....
Consumer Price Index (nsa, d)	6.4	6.0	5.0	4.9	4.0	3.0	3.2	3.7	3.7	3.2	....	....
CPI ex. Food and Energy (nsa, d)	5.6	5.5	5.6	5.5	5.3	4.8	4.7	4.3	4.1	4.0	....	....
PCE Chain Price Index (d)	5.5	5.2	4.4	4.4	4.0	3.2	3.4	3.4	3.4	3.0	....	....
Core PCE Chain Price Index (d)	4.9	4.8	4.8	4.8	4.7	4.3	4.3	3.8	3.7	3.5	....	....
Producer Price Index (nsa, d)	5.7	4.7	2.7	2.3	1.1	0.3	1.2	2.1	2.2	1.3	....	....
Durable Goods Orders (a)	-1.3	-2.7	3.3	1.2	2.0	4.3	-5.6	-0.1	4.0	-5.4	....	....
Leading Economic Indicators (a)	-0.5	-0.5	-1.2	-0.8	-0.7	-0.7	-0.2	-0.4	-0.7	-0.8	....	....
Balance of Trade & Services (f)	-70.8	-70.6	-60.4	-73.0	-66.8	-63.7	-64.7	-58.7	-61.5	....	....	....
Federal Funds Rate (%)	4.33	4.57	4.65	4.83	5.06	5.08	5.12	5.33	5.33	5.33	....	....
3-Mo. Treasury Bill Rate (%)	4.69	4.79	4.86	5.07	5.31	5.42	5.49	5.56	5.56	5.60	....	....
10-Year Treasury Note Yield (%)	3.53	3.75	3.66	3.46	3.57	3.75	3.90	4.17	4.38	4.80	....	....

2022 Historical Data

Monthly Indicator	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Retail and Food Service Sales (a)	1.4	1.4	2.1	1.3	-0.1	0.8	-0.7	0.7	-0.3	1.4	-1.4	-0.7
Auto & Light Truck Sales (b)	14.38	13.67	13.58	14.04	12.94	13.27	13.49	13.50	13.70	14.68	14.27	13.55
Personal Income (a, current \$)	-0.3	0.6	0.4	0.3	0.4	0.4	0.8	0.5	0.4	0.5	0.1	0.2
Personal Consumption (a, current \$)	0.5	0.7	1.2	0.6	0.4	1.0	0.0	0.8	0.6	0.6	-0.1	0.3
Consumer Credit (e)	4.6	8.3	10.1	7.3	6.9	8.6	6.8	7.0	6.9	8.8	8.1	4.8
Consumer Sentiment (U. of Mich.)	67.2	62.8	59.4	65.2	58.4	50.0	51.5	58.2	58.6	59.9	56.7	59.8
Household Employment (c)	1041	468	738	-346	317	-242	215	422	156	-257	-66	717
Nonfarm Payroll Employment (c)	364	904	414	254	364	370	568	352	350	324	290	239
Unemployment Rate (%)	4.0	3.8	3.6	3.6	3.6	3.6	3.5	3.7	3.5	3.7	3.6	3.5
Average Hourly Earnings (All, cur. \$)	31.63	31.63	31.83	31.94	32.06	32.18	32.33	32.43	32.53	32.66	32.80	32.92
Average Workweek (All, hrs.)	34.6	34.7	34.7	34.6	34.6	34.6	34.6	34.5	34.6	34.6	34.5	34.4
Industrial Production (d)	2.3	6.6	4.4	4.6	3.7	3.2	3.0	3.1	4.5	3.1	1.9	0.6
Capacity Utilization (%)	79.4	79.9	80.5	80.7	80.6	80.5	80.7	80.7	80.8	80.6	80.3	78.9
ISM Manufacturing Index (g)	57.6	58.4	57.0	55.9	56.1	53.1	52.7	52.9	51.0	50.0	49.0	48.4
ISM Nonmanufacturing Index (g)	60.4	57.2	58.4	57.5	56.4	56.0	56.4	56.1	55.9	54.5	55.5	49.2
Housing Starts (b)	1.669	1.771	1.713	1.803	1.543	1.561	1.371	1.505	1.463	1.432	1.427	1.357
Housing Permits (b)	1.898	1.817	1.877	1.795	1.708	1.701	1.658	1.586	1.588	1.555	1.402	1.409
New Home Sales (1-family, c)	810	773	707	611	636	563	543	638	567	577	582	636
Construction Expenditures (a)	2.4	1.5	1.4	1.8	-0.1	-0.4	-0.2	-1.2	-0.6	-0.4	0.6	-0.1
Consumer Price Index (nsa, d)	7.5	7.9	8.5	8.3	8.6	9.1	8.5	8.3	8.2	7.7	7.1	6.5
CPI ex. Food and Energy (nsa, d)	6.0	6.4	6.5	6.2	6.0	5.9	5.9	6.3	6.6	6.3	6.0	5.7
PCE Chain Price Index (d)	6.3	6.5	6.9	6.6	6.7	7.1	6.6	6.5	6.6	6.3	5.9	5.4
Core PCE Chain Price Index (d)	5.4	5.6	5.5	5.3	5.1	5.2	5.0	5.2	5.5	5.3	5.1	4.9
Producer Price Index (nsa, d)	10.1	10.4	11.7	11.2	11.1	11.2	9.7	8.7	8.5	8.2	7.4	6.4
Durable Goods Orders (a)	2.0	-1.4	-0.1	1.0	0.7	1.6	-0.8	-0.1	0.3	1.0	-3.1	4.5
Leading Economic Indicators (a)	-0.5	0.3	0.0	-0.6	-0.9	-0.7	-0.6	-0.3	-0.5	-0.9	-0.9	-0.7
Balance of Trade & Services (f)	-86.5	-87.0	-102.5	-86.0	-84.1	-80.9	-71.7	-67.3	-71.7	-78.3	-63.8	-71.4
Federal Funds Rate (%)	0.08	0.08	0.20	0.33	0.77	1.21	1.68	2.33	2.56	3.08	3.78	4.10
3-Mo. Treasury Bill Rate (%)	0.15	0.31	0.45	0.76	0.99	1.54	2.30	2.72	3.22	3.87	4.32	4.36
10-Year Treasury Note Yield (%)	1.76	1.93	2.13	2.75	2.90	3.14	2.90	2.90	3.52	3.98	3.89	3.62

(a) month-over-month % change; (b) millions, saar; (c) month-over-month change, thousands; (d) year-over-year % change; (e) annualized % change; (f) \$ billions; (g) level. Most series are subject to frequent government revisions. Use with care.

Calendar of Upcoming Economic Data Releases

Monday	Tuesday	Wednesday	Thursday	Friday
December 4 Manufacturers' Shipments, Inventories & Orders (Oct) BEA Auto Sales (Nov) BEA Truck Sales (Nov) NABE Outlook (Q4)	5 JOLTS (Oct) ISM Services PMI (Nov) S&P Global Services PMI (Nov)	6 ADP Employment Report (Nov) Productivity & Costs (Q3) Intl Trade (Oct) Transportation Services Index (Oct) QFR (Q3) Public Debt (Nov) Interest on Public Debt (Nov) EIA Crude Oil Stocks Mortgage Applications	7 Wholesale Trade (Oct) Treasury Auction Allotments (Nov) Consumer Credit (Oct) Financial Accounts (Q3) Challenger Employment Report (Nov) Weekly Jobless Claims	8 Employment Situation (Nov) Consumer Sentiment (Dec, Preliminary)
11 Kansas City Financial Stress Index (Nov)	12 CPI & Real Earnings (Nov) QSS (Q3) Cleveland Fed Median CPI(Nov) Monthly Treasury Statement (Nov) Manpower Survey (Q1) NFIB (Nov) Kansas City Fed Labor Market Conditions Indicators (Nov) FOMC Meeting	13 Producer Prices (Nov) FOMC Meeting OPEC Crude Oil Spot Prices (Nov) EIA Crude Oil Stocks Mortgage Applications	14 Advance Retail Sales (Nov) Import & Export Prices (Nov) MTIS (Oct) Weekly Jobless Claims	15 IP & Capacity Utilization (Nov) ECEC (Q3) Empire State Mfg Survey (Dec) Livingston Survey (Apr) Housing Affordability (Oct)
18 Business Leaders Survey (Dec) Home Builders (Dec)	19 New Residential Construction (Nov) TIC Data (Oct)	20 International Transactions (Q3) Existing Home Sales (Nov) Consumer Confidence (Dec) EIA Crude Oil Stocks Mortgage Applications	21 GDP & Corp Profits (Q3, 3rd Estimate) Philadelphia Fed Mfg Business Outlook Survey (Dec) Kansas City Fed Manufacturing Survey (Dec) Composite Indexes (Nov) Weekly Jobless Claims	22 Personal Income (Nov) Underlying NIPA Tables (Q3, 3rd Estimate) Advance Durable Goods (Nov) New Residential Sales (Nov) Building Permits (Nov) Consumer Sentiment(Dec, Final) Dallas Fed Trim-Mean PCE (Nov) Treas Auction Allotments (Dec) S&P Global Flash PMIs (Dec)
25 CHRISTMAS DAY ALL MARKETS CLOSED	26 FHFA HPI (Oct) Case-Shiller HPI (Oct) H.6 Money Stock (Nov) Philadelphia Fed Nonmfg Business Outlook (Dec) Chicago Fed National Activity Index (Nov) Texas Mfg Outlook (Dec)	27 Richmond Fed Mfg & Service Sector Surveys (Dec) Texas Service Sector Outlook Survey (Dec) Mortgage Applications	28 Adv Trade & Inventories (Nov) Intl Investment Position (Q3) Steel Imports for Consumption (Nov, Preliminary) Pending Home Sales (Nov) EIA Crude Oil Stocks Weekly Jobless Claims	29 Agricultural Prices (Nov) Strike Report (Dec) Chicago PMI (Dec) FRB Philadelphia Coincident Economic Activity Index (Nov)
January 1 NEW YEAR'S DAY ALL MARKETS CLOSED	2 Construction (Nov) Dallas Fed Banking Conditions Survey (Nov) S&P Global Mfg PMI (Dec)	3 ISM Manufacturing (Dec) JOLTS (Nov) Mortgage Applications	4 ADP Employment Report (Dec) Challenger Employment Report (Dec) S&P Global Services PMI (Dec) BEA Auto & Truck Sales (Dec) EIA Crude Oil Stocks Weekly Jobless Claims	5 Employment Situation (Dec) MSIO (Nov) Public Debt (Dec) Interest Expense on Public Debt (Dec) ISM Services PMI (Dec)
8 Consumer Credit (Nov)	9 International Trade (Nov) NFIB (Dec) Kansas City Financial Stress Index (Dec)	10 Wholesale Trade (Nov) EIA Crude Oil Stocks Mortgage Applications	11 CPI & Real Earnings (Dec) Cleveland Fed Median CPI(Dec) Monthly Treasury Statement (Dec) Weekly Jobless Claims	12 Producer Prices (Dec)

BLUE CHIP FORECASTERS

CONTRIBUTORS TO DOMESTIC SURVEY

Action Economics, LLC, Boulder, CO
Michael Englund

Amherst Pierpont Securities, Stamford, CT
Stephen Stanley

Bank of America, New York, NY
Ethan Harris

Barclays, New York, NY
Marc Giannoni

BMO Capital Markets Economics, Toronto, Canada
Scott Anderson

BNP Paribas North America, New York, NY
Andrew Schneider

Chan Economics, New York, NY
Anthony Chan

Chmura Economics & Analytics, Richmond, VA
Christine Chmura and Xiaobing Shuai

Comerica, Dallas, TX
Bill Adams

Daiwa Capital Markets America, New York, NY
Michael Moran

DePrince & Associates, Murfreesboro, TN
Albert E. DePrince Jr.

Economist Intelligence Unit, New York, NY
Leo Abruzzese and Jan Friederich

EY- Parthenon, New York, NY
Gregory Daco

Fannie Mae, Washington, DC
Douglas Duncan

Georgia State University, Atlanta, GA
Rajeev Dhawan

GLC Financial Economics, Providence, RI
Gary L. Ciminero

Goldman, Sachs & Co., New York, NY
Jan Hatzius

KPMG, New York, NY
Diane Swonk

ING Financial Markets, London, England
James Knightley

J.P. Morgan Chase, New York, NY
Bruce Kasman

Loomis, Sayles & Company, L.P., Boston, MA
Brian Horrigan

MacroFin Analytics & Rutgers Business School, Wayne, NJ
Parul Jain

MacroPolicy Perspectives, New York, NY
Julia Coronado and Laura Rosner

Moody's Analytics, West Chester, PA
Mark M. Zandi

Naroff Economic Advisors, Philadelphia, PA
Joel L. Naroff

Nationwide, New York, NY
Kathy Bostjancic

NatWest Markets, Greenwich, CT
Kevin Cummins and Deepika Dayal

Nomura Securities International, Inc., New York, NY
U.S. Economics

Northern Trust Company, Chicago, IL
Carl Tannenbaum

Oxford Economics, New York, NY
Oren Klachkin

PNC Financial Services Group, Pittsburgh, PA
Gus Faucher

RDQ Economics, New York, NY
John Ryding and Conrad de Quadros

Regions Financial Corporation, Birmingham, AL
Richard F. Moody

Scotiabank Group, Toronto, Canada
Jean-Francois Perrault

Societe Generale, New York, NY
Stephen W. Gallagher

S&P Global Market Intelligence, St. Louis, MO
Joel Prakken & Chris Varvares

Swiss Re, New York, NY
Jerome Haegeli

The Lonski Group, White Plains, NY
John Lonski

TS Lombard, London, UK
Steven Blitz

Via Nova Investment Management, Crozet, VA
Alan Gayle

Wells Fargo, Charlotte, NC
Jay Bryson

CONTRIBUTORS TO INTERNATIONAL SURVEY

Barclays Capital, New York, NY

BMO Capital Markets Economics, Toronto, Canada

ING Financial Markets, London, England

Moody's Analytics, West Chester, PA

Nomura Securities International, Inc., New York, NY

Northern Trust Company, Chicago, IL

Oxford Economics, Wayne, PA

Scotiabank Group, Toronto, Canada

S&P Global Market Intelligence, St. Louis, MO

TS Lombard, London, UK

Wells Fargo, Charlotte, NC