Blue Chip Financial Forecasts®

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

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BLUE CHIP FINANCIAL FORECASTS®

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U.S. Economy Keeps Humming, But Slowdown May Be Near

Solid growth now. The resilience of the US economy thus far in 2023 continues to concern financial markets and to surprise the Blue Chip Financial Forecasts (BCFF) panelists. Notwithstanding 525 basis points of fed funds rate (FFR) increases over the past 18 months, the US economy has confounded expectations this year. While real GDP growth in Q2 was revised down slightly from 2.4% q/q saar to 2.1%, this was still above mainstream estimates of the economy's potential growth rate. Moreover, the downward revision was mostly due to a liquidation of inventories (an event that rarely occurs outside of a recession) and a widening of the trade deficit, not weaker demand. Final domestic demand growth was unrevised at a solid 2.3%.

With inventories having declined in Q2 and barely advanced in Q1, the stage would seem to be set for some rebuilding in the near term that would support further GDP growth. Moreover, consumer spending (revised up slightly in Q2) ended Q2 on a strong note and was even stronger at the beginning of Q3. This has been reflected in the BCFF consensus. In this month's survey the consensus has significantly raised its outlook for GDP growth in the current quarter—to 2.4% from 0.8% in last month's survey.

Monetary policy is tight. Given the current elevated level of the FFR, the balance of risks appears to have shifted. The question now is not has the Fed tightened too little, but rather has it tightened too much. It is possible that the economy has yet to feel the full, lagged impact of the monetary tightening thus far. The BCFF consensus, with some shades of grey, seems to think that the Fed has almost over-tightened. Consequently, it doesn't look for any further rate hikes. Of the 32 respondents to a special question, 23 (72%) think that the Fed will not raise the FFR any further in this cycle while the remaining nine look for one more 25 basis points increase before the end of this year.

Moreover, the BCFF consensus implicitly considers the current stance of monetary policy to be restrictive. In answering another special question, the consensus estimate of the neutral FFR rate (the rate that is neither restrictive nor stimulative) was 2.74%, which is 264 basis points below the current FFR target and indicates that monetary policy is very tight. From another perspective, as Chair Powell has noted, when inflation falls, monetary policy becomes incrementally tighter even without changes in the nominal FFR. Specifically, this is reflected in a rising real (or inflation-adjusted) FFR. The BCFF consensus looks for the real FFR, which has risen significantly since the middle of last year, to continue to rise through the first quarter of next year, reaching 2.93%, the highest level since 2007 and a sign of tight policy.

Resilient economy has pushed up yields. Longer-term market interest rates have risen markedly over the past few months. The yield on the benchmark 10-year Treasury note reached 4.34% in mid-August, the highest daily close since November 2007, before receding somewhat over the past couple of weeks on the release of more inflation-friendly economic data. While the BCFF consensus does not expect much fur-

ther rise in longer-term market rates, it has reflected the recent increases in its forecasts. For example, the 10-year Treasury yield is expected to be about 15-20 basis points higher across the forecast horizon in the most recent survey relative to last month's. When asked in a special question as to what were the most important factors driving the recent increase in longer-term yields, 27 of 31 respondents named the resilient US economy. Twenty-one listed expectations that the FFR would remain elevated longer than previously expected, which also likely reflected the impact of the economy's resilience on the calibration of monetary policy.

The BCFF consensus now looks for the Fed to remain on hold longer than it had previously expected. While a plurality of respondents in this survey thought the first FFR cut would be in the first quarter of next year, this was slightly smaller than in the previous month's survey. Moreover, the consensus expected the quarterly average FFR in Q1 2024 to be eight basis points higher than last month with expected rates in Q2 and Q3 10-16 basis points higher.

Sharp slowdown expected. As for the economy, the BCFF consensus expects it to slow sharply with GDP edging up just 0.6% in Q4, 0.1% in next year's first quarter and 0.5% in Q2 2024. Indeed, the BCFF consensus still places a 49% probability on a recession occurring within the next 12 months, up slightly from 48% last month. This view continues to be supported by two historically dependable harbingers of recession (the 10-year/3-month and the 10-year/2-year yield curves), which remain decidedly inverted. The consensus expects these two curves to remain inverted until at least the end of 2024, underscoring the subpar growth that is anticipated over this period. In conjunction with its outlook for a sharp and protracted economic slowdown, the BCFF consensus looks for inflation to decline sufficiently close to the Fed's 2% target by the middle of next year for the Fed to be satisfied that inflation is no longer inappropriately elevated.

Historically tight labor market conditions continue to be a major source of concern for the Federal Reserve. It doubts that it can rein in inflation without labor markets softening materially, thereby reducing the upward pressure that labor-market tightness might place on wages and subsequently prices. On that front, even though the unemployment rate remains around a 50-year low, there have been signs of incipient softening over the past few months. Payroll growth has slowed; job openings are on a clear downtrend and declined much more than expected in July with a significant downward revision to June; weekly unemployment claims have recently taken a step up; the average workweek has declined to the lower end of its prepandemic range and hours worked have been flat over the first half of 2023. The BCFF consensus expects further significant slowing in labor-market conditions, especially over the next year with the unemployment rate increasing by 0.8%-point by the middle of 2024. An increase of this magnitude and pace has occurred in the past only during periods of recession.

Sandy Batten (Haver Analytics, New York, NY)

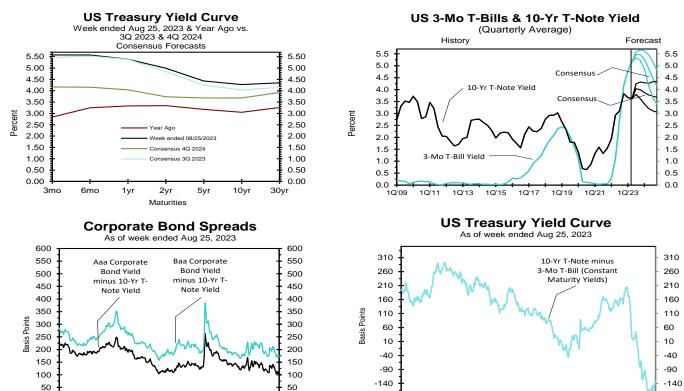
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13 '14 '15 '16 '17 '18 '19 '20 '21 '22

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

				Histor		Cons	ensus l	Forecas	sts-Qua	arterly	Avg.			
	Ave	erage For	Week End					Latest Qtr	3Q	4Q	1Q	2Q	3Q	4Q
Interest Rates	Aug 25	Aug 18	Aug 11	Aug 4	<u>Jul</u>	<u>Jun</u>	May	2Q 2023	<u>2023</u>	<u>2023</u>	<u>2024</u>	<u>2024</u>	<u>2024</u>	<u>2024</u>
Federal Funds Rate	5.33	5.33	5.33	5.33	5.12	5.08	5.06	4.99	5.3	5.4	5.3	5.0	4.6	4.2
Prime Rate	8.50	8.50	8.50	8.50	8.29	8.25	8.23	8.16	8.4	8.6	8.4	8.1	7.6	7.3
SOFR	5.30	5.30	5.30	5.30	5.09	5.06	5.02	4.96	5.3	5.4	5.4	5.1	4.6	4.2
Commercial Paper, 1-mo.	5.27	5.31	5.31	5.30	5.16	5.10	5.06	4.99	5.4	5.5	5.3	4.9	4.6	4.2
Treasury bill, 3-mo.	5.58	5.56	5.55	5.54	5.49	5.42	5.31	5.27	5.5	5.5	5.3	4.9	4.5	4.2
Treasury bill, 6-mo.	5.58	5.54	5.53	5.52	5.53	5.42	5.27	5.23	5.5	5.5	5.2	4.9	4.5	4.2
Treasury bill, 1 yr.	5.39	5.36	5.34	5.36	5.37	5.24	4.91	4.94	5.4	5.3	5.0	4.6	4.3	4.0
Treasury note, 2 yr.	4.99	4.94	4.80	4.87	4.83	4.64	4.13	4.26	4.8	4.7	4.4	4.1	3.9	3.7
Treasury note, 5 yr.	4.43	4.39	4.18	4.22	4.14	3.95	3.59	3.69	4.2	4.2	4.0	3.8	3.8	3.7
Treasury note, 10 yr.	4.27	4.25	4.07	4.07	3.90	3.75	3.57	3.59	4.0	4.0	3.9	3.8	3.7	3.7
Treasury note, 30 yr.	4.35	4.36	4.23	4.17	3.96	3.87	3.86	3.80	4.1	4.2	4.1	4.0	4.0	3.9
Corporate Aaa bond	5.31	5.33	5.21	5.14	4.98	4.95	4.95	4.88	5.0	5.1	5.0	4.9	4.9	4.8
Corporate Baa bond	5.98	5.99	5.86	5.78	5.64	5.64	5.66	5.58	6.0	6.1	6.0	5.9	5.8	5.8
State & Local bonds	4.46	4.37	4.35	4.32	4.20	4.23	4.21	4.17	4.3	4.4	4.3	4.2	4.2	4.2
Home mortgage rate	7.23	7.09	6.96	6.90	6.84	6.71	6.43	6.49	6.9	6.8	6.6	6.4	6.3	6.1
				Histor	y				Co	onsensu	ıs Fore	casts-()uartei	rly
	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Key Assumptions	2021	2021	<u>2022</u>	<u>2022</u>	2022	<u>2022</u>	<u>2023</u>	<u>2023</u>	2023	2023	2024	2024	2024	2024
Fed's AFE \$ Index	104.9	106.9	108.3	113.5	118.8	119.8	115.5	114.6	115.1	114.8	114.5	114.2	114.0	113.7
Real GDP	2.7	7.0	-1.6	-0.6	3.2	2.6	2.0	2.1	2.4	0.6	0.1	0.5	1.3	1.8
GDP Price Index	6.2	6.8	8.3	9.0	4.4	3.9	4.1	2.0	2.7	2.6	2.4	2.3	2.2	2.2
Consumer Price Index	6.6	8.8	9.2	9.7	5.5	4.2	3.8	2.7	3.2	2.9	2.5	2.3	2.4	2.4
PCE Price Index	5.6	6.2	7.5	7.3	4.3	3.7	4.1	2.5	2.9	2.8	2.4	2.2	2.2	2.2

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).



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12 '13 '14

'15 '16 '17

'18 '19 '20 '21 '22

-----Policy Rates1-----

		History		Cons	ensus Foi	recasts
		Month	Year	Mon	ths From	Now:
	Latest:	Ago:	Ago:	3	6	12
U.S.	5.38	5.38	2.38	5.43	5.37	4.65
Japan	-0.10	-0.10	-0.10	-0.09	-0.09	-0.06
U.K.	5.25	5.00	1.75	5.47	5.43	4.92
Switzerland	1.75	1.75	-0.25	1.93	1.96	1.84
Canada	5.00	5.00	2.50	5.04	4.97	4.38
Australia	4.10	4.10	1.85	4.24	4.23	3.80
Euro area	4.25	4.00	0.50	4.21	4.20	3.70

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

		History		Cons	ensus For	ecasts
		Month	Year	Mon	ths From	Now:
	Latest:	Ago:	Ago:	3	6	12
U.S.	4.25	3.96	3.04	3.92	3.78	3.58
Germany	2.56	2.47	1.40	2.47	2.40	2.28
Japan	0.66	0.55	0.23	0.69	0.68	0.68
U.K.	4.50	4.34	2.79	4.33	4.24	4.05
France	3.08	3.03	2.01	2.97	2.87	2.73
Italy	4.23	4.13	3.74	4.16	4.05	3.89
Switzerland	0.98	0.97	0.79	1.14	1.27	1.28
Canada	3.71	3.52	3.02	3.49	3.45	3.30
Australia	4.15	4.06	3.59	4.16	4.17	3.58
Spain	3.50	3.51	2.48	3.45	3.38	3.27

-----Foreign Exchange Rates³-----

		-History-		Cons	ensus For	recasts
		Month	Year	Mon	ths From	Now:
	Latest:	Ago:	Ago:	3	6	12
U.S.	116.43	113.27	118.75	114.0	113.4	112.1
Japan	146.38	140.72	137.07	140.5	137.1	132.6
U.K.	1.26	1.29	1.18	1.28	1.29	1.31
Switzerland	0.89	0.87	0.96	0.88	0.88	0.87
Canada	1.36	1.32	1.30	1.33	1.32	1.29
Australia	0.64	0.67	0.69	0.67	0.68	0.70
Euro	1.08	1.10	1.00	1.10	1.11	1.13

Consensus	
Policy Rates	
vs. US Rate	

Conse	ensus	
10-Ye	ar Gov't	
Yields vs	. U.S. Yiel	ld

	Now	In 12 Mo.		Now	In 12 Mo.
Japan	-5.48	-4.72	Germany	-1.69	-1.31
U.K.	-0.13	0.26	Japan	-3.59	-2.91
Switzerland	-3.63	-2.81	U.K.	0.25	0.47
Canada	-0.38	-0.28	France	-1.17	-0.85
Australia	-1.28	-0.85	Italy	-0.02	0.31
Euro area	-1.13	-0.96	Switzerland	-3.27	-2.30
			Canada	-0.55	-0.29
			Australia	-0.10	-0.01
			Spain	-0.75	-0.31

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.

International. The mood in financial markets has soured a little over the past few weeks and investors are no longer actively embracing the soft landing consensus for the world economy that had previously held sway. Growing evidence of economic instability in China has magnified these concerns. But they have been amplified by a break higher in government bond yields over the last few weeks. A soft landing narrative for the US economy has helped to mitigate this negativity. Recent evidence suggesting the labor market is re-balancing even as the economy more generally has remained resilient has certainly left investors hopeful that a US recession could be avoided in the period ahead.

On the China front, domestic growth concerns, and their global implications, are deep-seated. In a special question this month, 96% of panelists who responded believe the recent weakness of China's economy threatens the prospects for global growth. Incoming data show the property market is heavily saddled with excess capacity. Real estate investment, for example, fell by 8.5%y/y in July while existing house prices in China's largest 69 cities fell by 2.5%y/y. Additional data for July point to flagging consumer spending growth, sagging exports, and intensifying deflation. Policymakers have admittedly sought to counter these negatives by cutting lending rates and unveiling some targeted fiscal policy initiatives. But the breadth and magnitude of these measures have, so far, failed to impress.

On the broader global economic front, incoming data have additionally underwhelmed. Early PMI survey data for August, for example, showed the major developed economies collectively slipping into contraction territory for the first time since January. The euro area led that downturn by registering an output decline for a third consecutive month. But output additionally fell in the UK at the fastest rate since January 2021. In the meantime, even though much of the incoming data suggest the US economy has registered greater resilience, this specific survey hinted at more fragility. Against this backdrop, Blue Chip panelists remain concerned about global recession risk in the year ahead. In response to our special question on that issue, probabilities of 53% and 56% were placed on the respective chances of a recession in the euro area and the UK over the next 12 months. That contrasts with the US, where the probability was 49%.

As noted, a trend toward higher government bond yields has posed an additional threat to global financial stability in recent weeks. Responses to another special question this month suggest that most of our panelists believe that higher yields in the US can be traced to the resilience of the economy and the implications of this for the calibration of Fed policy. The stance of fiscal policy and, presumably with a nod to the Fed, lingering inflationary pressures were also cited as important. But with a nod too to the global nature of this trend, the economic outlook and its monetary policy implications in other major economies may have played an important role as well.

The state of play in Japan's economy and the policy response is a case in point. For example, while Europe's, and to a lesser extent the US, flash PMIs in July exhibited fragility, Japan's composite PMI indicated strengthening economic momentum. In the meantime, the BoJ unexpectedly made a tweak to its yield curve control policy at its end-July policy meeting that has allowed JGB yields to move more freely. And that tweak subsequently generated a big sell-off in the JGB market. By incentivizing domestic savers to withdraw from overseas government bond markets, this could have been a factor that's driven yields higher in other markets, including the US, as well.

Notwithstanding those issues concerning Japan, there remains a broad consensus that central banks either already have completed, or are very close to completing, their monetary policy tightening campaigns. This month's survey equally suggests that easing cycles are still expected to commence within the next 12 months in most major economies as well. This is presumably why this month's forecasts additionally suggest little scope for a further sharp climb in 10-year bond yields from here.

Third Quarter 2023

Interest Rate Forecasts

	-					Ре	rcent Pe	r Annum	Average F	or Quarte	er				-	Avg. For		(Q-Q	% Change)
Blue Chip			{	Short-Ter	m			Inte	rmediate-1	Term		L0	ng-Term-			Qtr		(SAAR)	
Financial Forecasts	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A.	В.	C.	D.	E.
Panel Members	Federal	Prime	SOFR	Com.	Treas.	Treas.	Treas	. Treas.	Treas.	Treas.	Treas.	Aaa	Baa	State &	Home	Fed's Adv		GDP	Cons.	PCE
	Funds	Bank	Rate	Paper	Bills	Bills	Bills	Notes	Notes	Notes	Bond	Corp.	Corp.	Local	Mtg.	Fgn Econ	Real	Price	Price	Price
	Rate	Rate		1-Mo.	3-Mo.	6-Mo.	1-Yr.	2-Yr.	5-Yr.	10-Yr.	30-Yr.	Bond	Bond	Bonds	Rate	\$ Index	GDP	Index	Index	Index
Bank of the West	5.5 H	8.6 H	5.4	5.4	5.6	H 5.6	5.4	5.0	4.3	4.1	4.2	5.0	6.1	4.6	7.0	114.2	3.1	2.5	2.6	2.5
Scotiabank Group	5.5 H	na	5.3	na	5.3	na	na	4.6	4.0	3.7	3.9	na	na	na	na	na	-0.7	L 1.1	3.8	1.7 L
TS Lombard	5.5 H	8.6 H	5.4	5.5 l	H 5.4	5.5	5.3	5.0	4.4	4.1	4.2	5.0	5.8	4.1	5.9 L	118.0 H	3.5	4.0 H	4.0	4.0 H
Bank of America	5.4	na	na	na	na	na	na	5.0	4.4	4.1	4.3	na	na	na	na	na	2.0	3.7	3.1	3.1
Barclays	5.4	na	na	na	na	na	na	5.0	4.5	4.3 H	H 4.4	H na	na	na	na	na	3.0	3.2	3.4	3.2
Chan Economics	5.4	8.4 L	5.3	5.4	5.6	H 5.6	5.2	5.0	4.5	4.2	4.3	5.3	6.3	4.8 H	7.0	116.0	4.5	H 2.9	3.1	2.7
Economist Intelligence Unit	5.4	8.4 L	na	5.3	5.5	5.6	5.5	5.0	4.5	4.3 H	H 4.3	na	na	na	7.3	na	0.7	na	1.9	L na
GLC Financial Economics	5.4	8.5	5.2 L	5.3	5.5	5.4	L 5.1	L 4.6	4.2	4.2	4.3	5.0	6.1	4.2	6.8	114.8	1.6	2.8	2.8	2.8
Goldman Sachs & Co.	5.4	na	na	na	5.1	L na	na	4.4	3.9	3.9	4.0	na	na	na	na	na	2.6	2.5	2.4	2.3
ING	5.4	na	na	na	na	na	na	5.0	4.3	4.3 H	H 4.0	na	na	na	na	na	3.2	na	na	na
MacroFin Analytics & Rutgers Bus School	5.4	8.5	5.3	5.5 l	H 5.6	H 5.6	5.5	5.0	4.5	4.3 H	4.4	H 5.4	6.2	4.4	7.3	116.5	2.6	3.0	2.7	2.8
Naroff Economic Advisors	5.4	8.4 L	5.4	5.5 l	H 5.4	5.5	5.4	4.8	4.4	4.2	4.3	na	na	4.1	6.7	114.0	2.0	3.9	4.1	4.0 H
NatWest Markets	5.4	8.5	na	5.5 l	H 5.6	H 5.7	H 5.8	H 4.0	L 3.5 l	_ 3.5 l	L 3.7	L 5.3	6.3	4.7	6.5	na	3.7	2.4	3.3	3.0
Nomura Securities, Inc.	5.4	8.5	na	na	na	na	na	4.7	4.0	3.5 l	L na	na	na	na	na	na	2.4	2.5	3.2	2.8
The Lonski Group	5.4	8.5	5.3	5.5 l	H 5.5	5.5	5.2	4.9	4.2	4.0	4.1	5.2	5.8	4.5	7.0	115.5	2.0	2.8	3.2	3.5
Wells Fargo	5.4	8.5	5.3	5.4	5.4	5.4	L 5.3	4.6	4.0	3.9	4.0	5.1	6.1	4.5	6.8	na	3.1	2.7	2.8	2.7
Action Economics	5.3	8.4 L	5.5 H	5.4	5.5	5.5	5.3	4.9	4.3	4.2	4.2	4.9	6.0	4.3	7.4 H	114.6	2.4	2.1	3.0	2.7
BMO Capital Markets	5.3	8.5	5.2 L	. na	5.6	H 5.6	5.4	4.9	4.3	4.1	4.2	na	na	na	6.9	114.3	2.5	2.6	3.2	3.1
Chmura Economics & Analytics	5.3	8.4 L	5.3	5.4	5.5	5.6	5.4	4.9	4.3	4.1	4.2	4.9	na	na	6.9	na	0.9	3.1	3.3	2.5
Comerica Bank	5.3	8.4 L	5.3	na	5.6	H 5.6	5.4	4.9	4.2	4.0	4.1	4.8	5.9	na	7.0	na	1.5	2.6	3.8	3.5
DePrince & Assoc.	5.3	8.4 L	5.2 L	5.3	5.5	5.5	5.4	4.9	4.3	4.1	4.2	4.9	6.0	4.1	7.0	116.6	1.5	3.2	3.3	3.1
EY-Parthenon	5.3	na	na	na	5.2	na	na	na	na	4.0	na	na	na	na	na	na	2.4	1.7	3.3	2.9
Fannie Mae	5.3	8.4 L	na	na	5.5	5.5	5.4	4.9	4.3	4.1	4.2	na	na	na	7.0	na	2.2	2.4	3.4	3.0
Georgia State University	5.3	8.4 L	na	na	5.5	5.5	5.8	H 5.1	H 4.6 H	4.3 H	H 4.2	5.0	6.2	na	7.0	na	2.3	2.4	2.8	2.5
J.P. Morgan Chase	5.3	na	na	na	na	na	na	4.5	4.0	3.8	4.0	na	na	na	na	na	2.5	2.8	3.2	2.8
KPMG	5.3	8.4 L	5.3	5.3	5.5	5.6	5.4	4.9	4.2	4.0	3.9	4.9	5.9	na	7.1	na	2.3	2.3	3.3	2.8
Loomis, Sayles & Company	5.3	8.5	5.3	5.3	5.5	5.5	5.3	4.8	4.1	4.1	4.2	5.0	6.0	4.4	7.0	115.3	1.7	2.2	3.2	2.9
Moody's Analytics	5.3	8.4 L	5.2 L	5.3	5.3	5.4	L 5.4	5.0	4.3	3.9	4.1	4.8	5.8	3.7 L	6.8	na	1.6	2.6	3.1	2.5
Oxford Economics	5.3	8.4 L	5.3	na	5.4	5.4	L 5.3	4.9	4.1	3.8	3.9	4.3 L	na	na	6.8	115.0	1.4	1.0 L	3.0	2.6
PNC Financial Services Corp.	5.3	8.4 L	5.2 L	. na	5.4	5.5	5.3	4.8	4.1	4.0	4.1	na	6.0	3.8	6.9	113.8	2.7	3.4	3.3	3.0
RDQ Economics	5.3	8.4 L	5.3	5.3	5.4	5.5	5.2	4.9	4.4	4.0	4.1	5.1	6.0	4.5	6.9	114.5	2.6	3.7	3.6	3.3
Regions Financial Corporation	5.3	8.4 L	5.3	5.3	5.5	5.6	5.4	4.9	4.3	4.1	4.2	5.6 H	6.5	H 4.8 F	7.1	114.6	3.0	2.8	4.3	H 3.0
S&P Global Market Intelligence	5.3	8.4 L	5.2 L	na	5.4	5.4	L 5.4	4.9	4.2	4.0	4.0	na	na	na	7.0	na	2.2	2.2	3.1	2.8
Santander Capital Markets	5.3	8.4 L	5.2 L	5.3	5.5	5.6	5.4	4.9	4.3	4.1	4.2	4.9	6.0	3.8	7.1	114.8	3.7	3.3	3.3	3.2
Societe Generale	5.3	8.4 L	5.2 L	5.3	5.5	5.5	5.4	4.9	4.3	4.1	4.2	na	na	na	6.8	na	3.6	2.3	3.3	3.0
The Northern Trust Company	5.3	8.5	5.3	5.3	5.6	H 5.6	5.4	5.0	4.4	4.1	4.3	5.0	6.0	4.5	7.1	116.0	1.0	3.1	3.0	2.8
Via Nova Investment Mgt.	5.2 L	8.4 L	5.2 L	5.2	L 5.6	H 5.6	5.4	4.9	4.2	4.0	4.1	4.7	5.4	L 3.9	6.3	113.0 L	4.0	3.0	2.9	2.5
September Consensus	5.3	8.4	5.3	5.4	5.5	5.5	5.4	4.8	4.2	4.0	4.1	5.0	6.0	4.3	6.9	115.1	2.4	2.7	3.2	2.9
Top 10 Avg.	5.4	8.5	5.4	5.5	5.6	5.6	5.5	5.0	4.5	4.2	4.3	5.2	6.2	4.6	7.1	115.9	3.5	3.5	3.7	3.4
Bottom 10 Avg.	5.3	8.4	5.2	5.3	5.3	5.5	5.3	4.6	4.0	3.8	4.0	4.8	5.9	4.0	6.6	114.3	1.1	2.0	2.7	2.5
August Consensus		8.5	5.3	5.4	5.5	5.5	5.3	4.7	4.1	3.9	4.0	4.9	6.0	4.2	6.7	114.4	0.8	2.7	2.9	2.7
Number of Forecasts Changed From A Mon	-																			
Down	9	7	4	9	8	6	7	2	3	1	3	4	5	4	1	3	0	13	9	8
Same	24	20	21	8	13	13	11	16	10	8	6	4	4	5	4	4	2	10	5	9
Up	4	3	1	4	11	10	11	18	23	28	26	14	12	10	23	11	35	12	22	18
Diffusion Index	43%	43%	44%	38%	55%	57%	57%	72%	78%	86%	83%	73%	67%	66%	89%	72%	97%	49%	68%	64%

Fourth Quarter 2023

Interest Rate Forecasts

	-						cent Per i	Annum	Average F	or Quarte	er				-	Avg. For		(Q-Q	% Change)
Blue Chip				Short-Terr	n			Inter	mediate-1	erm		Lo	ng-Term-			Qtr		(SAAR)	
Financial Forecasts	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A.	В.	C.	D.	E.
Panel Members	Federal	Prime	SOFR	Com.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Aaa	Baa	State &	Home	Fed's Adv		GDP	Cons.	PCE
	Funds	Bank	Rate	Paper	Bills	Bills	Bills	Notes	Notes	Notes	Bond	Corp.	Corp.	Local	Mtg.	Fgn Econ	Real	Price	Price	Price
	Rate	Rate		1-Mo.	3-Mo.	6-Mo.	1-Yr.	2-Yr.	5-Yr.	10-Yr.	30-Yr.	Bond	Bond	Bonds	Rate	\$ Index	GDP	Index	Index	Index
Chan Economics	5.7 H	8.7	5.6	5.7 H	1 5.9 H	1 5.9	H 5.5	5.3	H 4.8 F	4.5	4.6	5.6 H	H 6.6	5.1 H	7.3	115.8	1.0	2.6	2.8	2.4
Bank of America	5.6	na	na	na	na	na	na	4.8	4.3	4.0	4.2	na	na	na	na	na	1.5	3.9 H	H 3.4	3.3
Bank of the West	5.6	8.8 H	5.5	5.6	5.6	5.6	5.5	5.0	4.5	4.3	4.4	5.2	6.3	4.8	7.1	115.0	1.1	2.6	2.5	2.4
Barclays	5.6	na	na	na	na	na	na	4.8	4.4	4.2	4.3	na	na	na	na	na	0.5	2.8	2.3	2.6
Chmura Economics & Analytics	5.6	8.7	5.6	5.7 H	5.8	5.8	5.6	H 5.2	4.8 H	1 4.6 H	H 4.7 I	H 5.4	na	na	7.1	na	1.0	2.7	3.0	2.6
Naroff Economic Advisors	5.6	8.6	5.6	5.7 H	5.6	5.7	5.4	4.8	4.4	4.2	4.3	na	na	4.1	7.2	114.2	1.1	3.6	3.5	3.5
The Northern Trust Company	5.6	8.8 H	5.6	5.6	5.8	5.7	5.6	H 5.0	4.4	4.3	4.5	5.3	6.3	4.8	7.3	117.0	0.8	2.8	2.8	2.6
Action Economics	5.5	8.7	5.8 H	5.6	5.6	5.5	5.3	4.8	4.2	4.2	4.2	5.0	6.1	4.3	7.5 H	114.7	1.2	2.7	3.1	2.6
Comerica Bank	5.5	8.6	5.5	na	5.6	5.6	5.4	4.7	4.3	4.1	4.3	5.0	6.1	na	7.0	na	1.0	2.3	2.1	2.3
DePrince & Assoc.	5.5	8.6	5.4	5.4	5.6	5.6	5.5	5.0	4.5	4.3	4.3	5.3	6.2	4.5	6.9	117.5 H	1.2	2.8	2.9	2.7
S&P Global Market Intelligence	5.5	8.6	5.5	na	5.5	5.4	5.4	4.9	4.2	4.0	4.0	na	na	na	6.9	na	1.6	2.7	2.8	2.6
Santander Capital Markets	5.5	8.7	5.5	5.6	5.6	5.6	5.3	5.1	4.5	4.3	4.5	5.2	6.3	4.0 L	7.3	115.3	2.1	H 3.2	3.9	3.5
Scotiabank Group	5.5	na	5.3 L	. na	5.3	na	na	4.4	3.9	3.6	3.9	na	na	na	na	na	-0.3	1.4	3.9	3.7 H
TS Lombard	5.5	8.6	5.4	5.5	5.3	5.4	5.1	4.8	4.0	4.1	4.2	5.0	5.8	4.1	5.9	114.0	-1.5	3.5	3.5	3.5
Economist Intelligence Unit	5.4	8.4	na	5.4	5.4	5.5	5.2	5.0	4.4	4.2	4.2	na	na	na	7.2	na	-0.6	na	1.8	na
Fannie Mae	5.4	8.5	na	na	5.5	5.5	5.3	4.8	4.3	4.2	4.3	na	na	na	7.0	na	1.1	2.6	2.8	2.6
Georgia State University	5.4	8.5	na	na	5.4	5.2	5.4	4.8	4.3	4.1	4.1	4.8	6.0	na	6.7	na	0.2	2.8	3.4	3.3
GLC Financial Economics	5.4	8.6	5.4	5.2	5.4	5.2	5.0	4.6	4.3	4.1	4.4	5.1	6.1	4.2	6.5	114.6	0.3	2.7	2.8	2.8
Goldman Sachs & Co.	5.4	na	na	na	5.1 l	_ na	na	4.5	4.0	3.9	4.0	na	na	na	na	na	1.3	3.2	3.0	2.7
ING	5.4	na	na	na	na	na	na	4.3	3.8	3.8	3.7	L na	na	na	na	na	0.6	na	na	na
J.P. Morgan Chase	5.4	na	na	na	na	na	na	4.6	4.1	3.9	4.1	na	na	na	na	na	1.5	2.4	3.0	2.6
KPMG	5.4	8.5	5.4	5.3	5.5	5.5	5.3	4.8	4.1	3.9	4.0	4.9	5.9	na	7.0	na	1.5	2.6	3.2	2.7
Loomis, Sayles & Company	5.4	8.6	5.4	5.3	5.6	5.6	5.0	3.9	L 3.7	3.7	3.9	4.7	5.7	L 4.0 L	6.6	115.0	-1.6	1.9	1.1	L 1.3 L
MacroFin Analytics & Rutgers Bus School	5.4	8.5	5.3 L	. 5.5	5.6	5.6	5.4	5.0	4.5	4.3	4.4	5.4	6.2	4.4	7.3	116.4	1.3	2.9	2.6	2.7
Nomura Securities, Inc.	5.4	8.5	na	na	na	na	na	3.9	L 3.3 l	_ 2.9 l	_ na	na	na	na	na	na	-1.7	L 2.0	2.6	2.3
Oxford Economics	5.4	8.5	5.4	na	5.3	5.2	5.1	4.6	3.8	3.6	3.7	L 4.2	L na	na	6.3	114.9	-1.6	-0.6 l	L 3.2	2.7
RDQ Economics	5.4	8.5	5.4	5.5	5.4	5.4	5.2	4.9	4.4	4.0	4.0	5.5	6.2	4.4	6.7	112.7	0.8	3.6	3.8	3.5
The Lonski Group	5.4	8.5	5.3 L	5.6	5.4	5.4	5.0	4.7	4.0	3.8	3.9	5.0	5.8	4.3	6.7	116.4	0.7	2.4	3.0	3.1
Wells Fargo	5.4	8.5	5.4	5.4	5.3	5.3	4.8	L 4.2	3.7	3.7	3.9	4.9	5.9	4.3	6.6	na	0.4	2.5	2.8	2.5
BMO Capital Markets	5.3	8.5	5.3 L	. na	5.6	5.6	5.2	4.6	4.1	4.0	4.1	na	na	na	6.8	113.0	1.0	3.0	3.5	3.3
EY-Parthenon	5.3	na	na	na	5.1 l	_ na	na	na	na	3.9	na	na	na	na	na	na	0.4	2.6	2.9	2.6
Moody's Analytics	5.3	8.5	5.3 L	5.5	5.2	5.1	L 4.9	4.7	4.3	4.0	4.3	5.1	6.1	4.1	6.8	na	0.3	2.9	3.2	3.1
PNC Financial Services Corp.	5.3	8.5	5.3 L	. na	5.3	5.3	4.9	4.4	4.0	3.9	4.1	na	6.9	H 4.9	6.7	113.4	0.7	2.6	2.2	2.0
Regions Financial Corporation	5.3	8.5	5.3 L	5.4	5.5	5.5	5.4	4.7	4.2	4.0	4.2	5.5	6.4	4.7	6.9	115.1	0.3	3.3	4.2 I	H 3.3
Societe Generale	5.3	8.5	5.3 L	5.3	5.3	5.3	5.1	4.6	4.2	4.1	4.2	na	na	na	5.6 L	na	0.8	2.7	2.9	2.5
Via Nova Investment Mgt.	5.3	8.5	5.3 L	5.3	5.6	5.6	5.5	4.8	4.1	3.8	4.1	5.0	5.8	4.4	6.8	112.0 L	2.0	2.5	2.4	2.3
NatWest Markets	4.9 L	8.0 L			. 5.1 l	5.2	5.3	3.9	L 3.4	3.4	3.7	L 5.2	6.1	4.7	6.5	na	-1.0	2.2	2.6	2.5
September Consensus	5.4	8.6	5.4	5.5	5.5	5.5	5.3	4.7	4.2	4.0	4.2	5.1	6.1	4.4	6.8	114.8	0.6	2.6	2.9	2.8
- 45 ·																				
Top 10 Avg.	5.6	8.7	5.6	5.6	5.7	5.7	5.5	5.0	4.5	4.3	4.4	5.4	6.4	4.7	7.2	115.8	1.5	3.3	3.6	3.4
Bottom 10 Avg.	5.3	8.4	5.3	5.3	5.2	5.3	5.0	4.3	3.8	3.6	3.9	4.9	5.9	4.2	6.4	113.9	-0.8	1.9	2.2	2.3
August Consensus		8.5	5.4	5.4	5.4	5.4	5.1	4.5	4.0	3.8	3.9	4.9	6.0	4.2	6.6	114.1	0.0	2.6	2.8	2.7
Number of Forecasts Changed From A Mon	th Ago:																			
Down	4	3	2	4	4	3	6	2	3	1	2	3	4	2	0	3	7	14	13	13
Same	26	20	21	13	18	16	11	13	9	10	9	5	4	6	5	4	6	12	8	9
Up	7	7	3	4	10	10	12	21	24	26	24	14	13	11	23	11	24	9	15	13
Diffusion Index	54%	57%	52%	50%	59%	62%	60%	76%	79%	84%	81%	75%	71%	74%	91%	72%	73%	43%	53%	50%

First Quarter 2024

Interest Rate Forecasts

	-					Perd	ent Per	Annum	Average F	or Quart	er				-	Avg. For		(Q-Q	% Change)
Blue Chip			5	Short-Ter	m			Inte	mediate-1	Геrm		Lo	ng-Term			Qtr		(;	SAAR)	
Financial Forecasts	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A.	В.	C.	D.	E.
Panel Members	Federal	Prime	SOFR	Com.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Aaa	Baa	State &	Home	Fed's Adv		GDP	Cons.	PCE
	Funds	Bank	Rate	Paper	Bills	Bills	Bills	Notes	Notes	Notes	Bond	Corp.	Corp.	Local	Mtg.	Fgn Econ	Real	Price	Price	Price
	Rate	Rate		1-Mo.	3-Mo.	6-Mo.	1-Yr.	2-Yr.	5-Yr.	10-Yr.	30-Yr.	Bond	Bond	Bonds	Rate	\$ Index	GDP	Index	Index	Index
Bank of America	5.6 H		na	na	na	na	na	4.6	4.1	3.8	4.0	na	na	na	na	na	1.0	4.0 H		H 3.4 H
Bank of the West	5.6 H		5.5	5.6	5.6	5.6	5.5	4.9	4.4	4.3	4.4	5.3	6.3	4.9	7.1	114.4	0.3	2.4	2.4	2.3
Barclays	5.6 H		na	na	na	na	na	4.6	4.3	4.1	4.2	na 	na	na	na	na	0.0	2.6	2.1	2.4
Chmura Economics & Analytics		8.7	5.6	5.7 l		5.8 H	1 5.6	H 5.3	H 5.1 F	. 0.0		H 5.7 H		na	7.2	na	-0.5	2.5	2.7	2.2
Comerica Bank Naroff Economic Advisors	5.6 H 5.6 H		5.6 5.6	na 5.7 l	5.6 4 5.6	5.5 5.7	5.2 5.0	4.4 4.7	4.2 4.2	4.1	4.3 4.2	5.0	6.1	na 4.1	6.9 7.1	na 114.5	0.7 -1.9	2.1 3.3	2.0 3.4	1.9 3.2
S&P Global Market Intelligence	5.6 H		5.6	na	5.5	5.2	5.1	4.7	3.9	4.0 3.8	4.2	na na	na na	na	6.7	na	1.1	2.6	1.7	2.1
Santander Capital Markets	5.6 H		5.6	5.7 I		5.6	5.3	5.0	4.5	4.3	4.5	5.3	6.5	4.0	7.2	115.0	1.3	3.1	3.2	2.9
The Northern Trust Company	5.6 H		5.6	5.6	5.8 H	1 5.7	5.6		4.4	4.3	4.5	5.4	6.4	4.9	7.2	118.0	1.1	2.4	2.8	2.5
Action Economics	5.5	8.7	5.9 H		5.5	5.3	5.0	4.5	4.2	4.1	4.2	5.0	6.0	4.3	7.4 H	115.9	0.8	2.3	2.6	2.1
DePrince & Assoc.	5.5	8.6	5.4	5.4	5.6	5.5	5.5	5.0	4.5	4.3	4.3	5.5	6.4	4.6	6.8	117.7	0.8	2.7	2.8	2.6
J.P. Morgan Chase	5.5	na	na	na	na	na	na	4.6	4.0	3.9	4.1	na	na	na	na	na	0.5	2.3	2.1	1.8
Scotiabank Group	5.5	na	5.3	na	5.3	na	na	4.0	3.8	3.7	3.9	na	na	na	na	na	0.6	1.4	2.4	2.7
Chan Economics	5.4	8.4	5.3	5.4	5.6	5.6	5.2	5.0	4.5	4.2	4.3	5.3	6.3	4.8	7.0	115.6	-0.8	2.5	2.7	2.3
Economist Intelligence Unit	5.4	8.4	na	5.3	5.3	5.2	5.0	4.9	4.2	4.0	4.0	na	na	na	7.0	na	0.6	na	2.2	na
Goldman Sachs & Co.	5.4	na	na	na	5.1	na	na	4.4	4.0	3.8	3.9	na	na	na	na	na	1.9	3.2	3.5	2.8
KPMG	5.4	8.5	5.4	5.1	5.4	5.4	5.2	4.8	4.0	3.8	3.9	4.7	5.8	na	6.7	na	1.0	2.4	2.1	2.3
RDQ Economics	5.4	8.5	5.5	5.5	5.3	5.2	4.9	4.7	4.3	4.0	4.0	5.7 H		4.4	6.5	110.7	-1.2	3.5	•.•	H 3.3
Wells Fargo	5.4	8.5	5.4	5.4	5.0	4.7	4.0	L 3.7	3.3	3.4	3.7	4.6	5.6	4.0	6.2	na	-0.9	2.0	2.2	2.0
BMO Capital Markets	5.3	8.5	5.3	na	5.6	5.6	5.0	4.2	3.9	3.8	3.9	na	na	na	6.6	111.8	-0.5	2.7	2.9	2.8
EY-Parthenon	5.3	na	na	na	4.9	na	na	na	na 	3.8	na	na	na	na	na	na	0.6	2.3	2.4	2.2
Georgia State University	5.3	8.4	na	na	5.2	4.8	4.9	4.3	3.7	3.6	3.8	4.4	5.7	na	6.2	na	-0.2	2.5	2.2	2.3
GLC Financial Economics	5.3	8.4	5.3	4.9	5.3	4.9	4.8	4.3	4.2	4.1	4.4	5.0	6.0	4.2	6.1	114.2	0.9	2.5	2.6	2.6
Moody's Analytics PNC Financial Services Corp.	5.3 5.3	8.5 8.5	5.3 5.3	5.4	5.1 4.9	5.0	4.8 4.4	4.6 4.1	4.2 3.8	4.0 3.8	4.4 4.1	5.3	6.3 6.9	4.3 H 5.1 H	6.6 1 6.4	na 113.1	0.9 -0.7	2.5 1.3	2.7 0.9	2.5 L 0.8 L
Regions Financial Corporation	5.3	6.5 8.5	5.3	na 5.4	5.3	5.0 5.4	5.3	4.1	3.0 4.1	3.9	4.1	na 5.4	6.3	п э.1 г 4.6	6.7	114.7	0.7	2.8	3.2	2.8
Societe Generale	5.3	8.5	5.3	5.3	5.3	5.1	4.7	4.0	3.9	3.9	4.1	na	na	na	5.4 L	na	0.7	1.8	2.2	2.0
Via Nova Investment Mgt.	5.3	8.6	5.4	5.4	5.3	5.3	5.2	4.7	4.3	4.2	4.4	5.4	6.2	4.6	7.2	110.0 L	2.0 H	1 2.2	2.1	2.0
Fannie Mae	5.2	8.3	na	na	5.4	5.3	5.0	4.6	4.2	4.1	4.2	na	na	na	6.8	na L	-0.1	2.7	2.5	2.5
Loomis, Sayles & Company	5.2	8.3	5.1	5.1	5.3	5.3	4.4	2.6	L 3.2	3.1	3.7	4.1	5.1	3.4 l	_ 5.9	114.9	-2.1	L 2.3	1.8	1.7
The Lonski Group	5.2	8.3	5.1	5.5	5.1	5.2	4.8	4.4	3.7	3.6	3.7	4.8	5.7	4.1	6.5	118.1 H	0.3	2.3	1.8	2.5
Nomura Securities, Inc.	5.1	8.3	na	na	na	na	na	3.2	3.0 L	2.9	L na	na	na	na	na	na	-1.9	1.5	2.5	2.2
Oxford Economics	5.1	8.3	5.1	na	5.0	4.9	4.8	4.3	3.5	3.3	3.6	3.9	na	na	5.8	114.4	-1.8	0.6 L	2.8	2.4
ING	4.9	na	na	na	na	na	na	3.8	3.5	3.3	3.7	na	na	na	na	na	-1.3	na	na	na
MacroFin Analytics & Rutgers Bus School	4.9	8.3	4.8 L	5.0	5.2	5.3	5.3	4.9	4.5	4.0	4.2	5.3	6.1	4.2	7.0	116.2	1.0	2.8	2.6	2.6
TS Lombard	4.8	7.9	4.8 L	4.8	4.3	4.4	4.3	4.3	3.8	4.0	4.1	4.9	5.7	4.0	5.8	112.0	-1.0	3.0	3.0	3.0
NatWest Markets	3.9 L	7.0 L	na	4.0	L 4.1 L	4.2 L	4.3	3.4	3.1	3.3	3.5	L 3.2 I	3.4	L 3.6	6.3	na	-1.5	1.6	1.9	1.6
September Consensus	5.3	8.4	5.4	5.3	5.3	5.2	5.0	4.4	4.0	3.9	4.1	5.0	6.0	4.3	6.6	114.5	0.1	2.4	2.5	2.4
Top 10 Avg.	5.6	8.7	5.6	5.6	5.6	5.6	5.4	5.0	4.5	4.3	4.5	5.4	6.4	4.7	7.1	116.1	1.2	3.1	3.2	3.0
Bottom 10 Avg.	5.0	8.2	5.1	5.0	4.9	4.8	4.5	3.7	3.5	3.4	3.7	4.5	5.5	4.0	6.1	113.0	-1.4	1.7	1.9	1.8
August Consensus	5.2	8.4	5.2	5.3	5.2	5.0	4.8	4.2	3.8	3.7	4.0	4.9	6.0	4.2	6.4	113.6	0.2	2.5	2.6	2.4
Number of Forecasts Changed From A Mon	th Ago:	_																		
Down	3	2	2	3	3	1	5	1	3	0	2	4	4	3	1	3	9	11	13	15
Same	23	18	16	11	16	15	11	18	12	17	13	8	8	6	7	4	17	15	13	11
Up	11	10	8	7	13	13	13	17	21	20	20	10	9	10	20	11	11	9	10	9
Diffusion Index	61%	63%	62%	60%	66%	71%	64%	72%	75%	77%	76%	64%	62%	68%	84%	72%	53%	47%	46%	41%

Second Quarter 2024 Interest Rate Forecasts

						Perc	ent Per /	Annum	Average F	or Quarte	er				-	Avg. For		(Q-Q	% Change)
Blue Chip			S	Short-Terr	n			Inter	mediate-1	em		Lo	ng-Term			Qtr		(SAAR)	
Financial Forecasts	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A.	В.	C.	D.	E.
Panel Members	Federal	Prime	SOFR		Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Aaa	Baa	State &	Home	Fed's Adv		GDP	Cons.	PCE
	Funds	Bank	Rate	Paper	Bills	Bills	Bills	Notes	Notes	Notes	Bond	Corp.	Corp.	Local	Mtg.	Fgn Econ	Real	Price	Price	Price
	Rate	Rate		1-Mo.	3-Mo.	6-Mo.	1-Yr.	2-Yr.	5-Yr.	10-Yr.	30-Yr.	Bond	Bond	Bonds	Rate	\$ Index	GDP	Index	Index	Index
Barclays	5.6 H	na	na	na	na	na	na	4.4	4.2	4.0	4.1	na	na	na	na	na	-0.5	2.4	1.9	2.2
Santander Capital Markets	5.6 H	8.8 H	5.6	5.7 H		5.4	5.1	4.8	4.3	4.2	4.4	5.3	6.5	4.0	7.0	114.5	1.0	2.9	2.9	2.6
The Northern Trust Company	5.6 H	8.8 H	5.6	5.7 H		5.6	5.4	4.8	4.3	4.1	4.4	5.4	6.5	4.8	6.9	115.0	1.1	2.5	2.4	2.4
Bank of the West	5.5	8.6	5.4	5.4	5.4	5.5	5.3	4.8 H 5.5 H	4.4 + 5.4 +	4.2	4.3	5.3	6.4 H na	4.9 F	7.1	114.4	0.9	2.3	2.3	2.2
Chmura Economics & Analytics J.P. Morgan Chase	5.5 5.5	8.6 na	5.4 na	5.6 na	5.6 na	5.7 h na	1 5.6 I na	H 5.5 H 4.4	1 5.4 H 3.9	1 5.3 H 3.8	1 5.4 4.0	H 6.0 I	H na na	na na	7.1 na	na na	-0.7 0.5	2.2	2.3 1.7	2.3 1.5
Bank of America	5.4	na	na	na	na	na	na	4.4	4.1	3.8	4.0	na	na	na	na	na	0.5	3.5	2.7	2.5
Chan Economics	5.4	8.4	5.3	5.4	5.6	5.6	5.2	5.0	4.5	4.2	4.3	5.3	6.3	4.8	7.0	115.5	-0.2	2.3	2.5	2.1
Economist Intelligence Unit	5.4	8.4	na	5.3	5.2	5.0	4.8	4.8	4.0	3.8	3.9	na	na	na	6.8	na	1.1	na	2.4	na
S&P Global Market Intelligence	5.4	8.5	5.4	na	5.2	4.8	4.7	4.2	3.7	3.7	3.9	na	na	na	6.3	na	1.0	2.7	2.8	2.6
Action Economics	5.3	8.4	5.8 H	5.3	5.2	5.0	4.8	4.3	4.1	4.1	4.1	4.9	6.0	4.2	7.4 H	116.1	1.0	1.8	2.5	2.0
BMO Capital Markets	5.3	8.4	5.3	na	5.5	5.5	4.8	3.9	3.8	3.6	3.7	na	na	na	6.4	111.1	1.0	2.2	2.4	2.2
Comerica Bank	5.3	8.5	5.3	na	5.3	5.2	4.8	4.0	3.9	3.8	4.0	4.8	5.8	na	6.4	na	0.9	2.1	2.2	2.0
DePrince & Assoc.	5.3	8.4	5.2	5.2	5.4	5.4	5.3	4.9	4.5	4.4	4.3	5.6	6.4	4.7	6.7	117.1	1.5	2.6	2.8	2.5
Moody's Analytics	5.3	8.5	5.3	5.3	5.0	4.9	4.8	4.5	4.2	4.0	4.4	5.4	6.4	4.4	6.5	na	1.5	2.1	2.4	2.4
RDQ Economics	5.3	8.4	5.4	5.4	5.2	5.1	4.8	4.5	4.1	3.9	3.9	5.7	6.6	H 4.3	6.3	109.4 L	-1.8	3.2	3.4	3.2 H
Regions Financial Corporation	5.3	8.5	5.3	5.3	5.2	5.3	5.2	4.3	4.0	3.9	4.1	5.4	6.3	4.5	6.6	114.2	0.5	2.4	2.3	2.6
Scotiabank Group	5.3	na	5.2	na	4.8	na	na	3.8	3.8	3.8	3.9	na	na	na	na	na	0.6	4.0 H	H 1.0	1.8
Goldman Sachs & Co.	5.1	na	na	na	4.8	na	na	4.2	3.9	3.8	3.9	na	na	na	na	na	1.9	2.7	2.7	2.5
Naroff Economic Advisors	5.1	8.1	5.1	5.2	5.3	5.4	4.5	4.6	4.1	4.0	4.1	na	na	4.0	6.8	114.0	2.1	3.0	3.1	2.8
Societe Generale	5.1	8.3	5.1	5.0	4.9	4.6	4.1	3.5	3.6	3.7	4.0	na	na	na	5.2 L	na	-2.3	L 1.8	2.2	2.0
EY-Parthenon	5.0	na	na	na	4.6	na	na	na	na	3.7	na	na	na	na	na	na	1.1	1.9	1.7	1.9
Fannie Mae	5.0	8.1	na	na	5.2	5.1	4.8	4.4	4.1	4.1	4.2	na	na	na	6.7	na	-0.9	2.8	2.9	2.7
GLC Financial Economics KPMG	5.0	8.1	5.0	4.9	4.9	4.5	4.5	4.0	4.0	3.9	4.2	4.8	5.8	4.1	5.8 6.5	113.9	1.5	2.4	2.5	2.5
Oxford Economics	5.0 5.0	8.1 7.8	5.0 5.0	4.7	4.9 4.5	5.0 4.5	4.9 4.3	4.5 3.8	3.8 3.2	3.6 3.2	3.8 3.4	4.5 3.5	5.7	na	5.4	na 113.6	1.1 1.2	2.4 1.5	1.9 2.4	2.1 2.1
Via Nova Investment Mgt.	5.0	8.3	5.1	na 5.1	5.0	5.0	4.9	4.4	4.0	3.9	4.2	5.5 5.1	na 5.9	na 4.2	6.9	110.0	2.5	H 2.1	2.4	2.1
PNC Financial Services Corp.	4.7	7.8	4.7	na	4.2	4.2	3.8	3.8	3.7	3.7	4.0	na	6.5	4.8	6.1	112.6	-1.5	1.2	0.9	0.7 L
The Lonski Group	4.7	7.8	4.7	5.0	4.6	4.7	4.4	4.2	3.7	3.5	3.7	4.8	5.6	4.1	6.5	118.9 H	0.2	2.2	2.4	2.0
Nomura Securities. Inc.	4.6	7.8	na	na	na	na	na	2.8	2.8	2.8 L	na na	na	na	na	na	na	0.4	1.0	L 1.9	1.8
Georgia State University	4.5	7.6	na	na	4.3	3.9	3.8	3.4	3.1	3.3	3.5	4.1	5.4	na	5.8	na	0.4	2.6	2.6	2.6
Loomis, Sayles & Company	4.4	7.6	4.4	4.4	4.5	4.5	3.7	2.1 I	2.4 L	2.9	3.4	3.9	4.9	3.2 L	5.6	114.8	1.5	2.6		H 2.8
MacroFin Analytics & Rutgers Bus School	4.4	7.8	4.3	4.5	4.9	4.9	5.0	4.8	3.9	4.0	4.1	5.2	6.0	4.1	6.8	116.0	1.5	2.6	2.5	2.5
Wells Fargo	4.4	7.5	4.4	4.4	4.0	3.8	3.2	L 3.2	3.1	3.2	3.6	4.4	5.4	3.8	6.0	na	-1.2	1.3	1.4	1.3
ING	3.9	na	na	na	na	na	na	3.2	3.1	3.0	3.4	na	na	na	na	na	-1.2	na	na	na
TS Lombard	3.0	6.1	3.0 L	. 3.0 L	. 3.3	3.4	3.4	3.5	3.6	3.8	3.9	4.7	5.5	3.8	5.6	114.0	2.0	2.5	2.5	2.5
NatWest Markets	2.9 L	6.0 L	na	3.0 L	. 3.1 L	. 3.2 l	3.3	2.7	2.8	3.0	3.2	L 2.9	L 3.1	L 3.3	6.0	na	0.0	1.8	0.7	L 1.2
September Consensus	5.0	8.1	5.1	4.9	4.9	4.9	4.6	4.1	3.8	3.8	4.0	4.9	5.9	4.2	6.4	114.2	0.5	2.3	2.3	2.2
Top 10 Avg.	5.5	8.6	5.5	5.4	5.5	5.5	5.2	4.9	4.4	4.3	4.4	5.5	6.4	4.6	7.0	115.7	1.7	3.0	3.0	2.7
Bottom 10 Avg.	4.2	7.4	4.6	4.4	4.2	4.1	3.9	3.2	3.1	3.2	3.6	4.2	5.3	3.9	5.8	112.7	-1.0	1.6	1.5	1.6
August Consensus		8.0	4.9	4.9	4.7	4.7	4.5	4.0	3.7	3.6	3.9	4.9	6.0	4.1	6.2	113.1	0.8	2.3	2.4	2.3
Number of Forecasts Changed From A Mon	th Ago:																			
Down	1	1	1	1	2	1	6	2	4	4	4	4	4	3	3	3	16	9	11	13
Same	23	18	16	11	14	14	13	19	16	15	15	9	9	8	8	4	16	18	15	13
Up	13	11	9	9	16	14	10	15	16	18	16	9	8	8	17	11	5	8	10	9
Diffusion Index	66%	67%	65%	69%	72%	72%	57%	68%	67%	69%	67%	61%	60%	63%	75%	72%	35%	49%	49%	44%

Third Quarter 2024 Interest Rate Forecasts

Loomis, Sayles & Company 35 66 34 3.4 3.5 3.5 3.0 L 2.0 L 2.4 L 2.8 L 3.3 3.8 4.8 3.1 L 5.4 11.7 2.0 2.1 2.8 2.2 ING 34 na		-					Perc	ent Per /	Annum	Average F	or Quart	er				-	Avg. For		(Q-Q	% Change)
Panel Members Fisched Prime SIGN Corn Times	Blue Chip			S	Short-Teri	m			Inte	mediate-1	Term		Lo	ng-Term-			Qtr		(SAAR)	
Figure Search Register Search	Financial Forecasts	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A.	В.	C.	D.	E.
Semilar Part Part Semilar	Panel Members	Federal	Prime	SOFR	Com.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Aaa	Baa	State &	Home	Fed's Adv		GDP	Cons.	PCE
Betrays		Funds	Bank	Rate	Paper	Bills	Bills	Bills	Notes	Notes	Notes	Bond	Corp.	Corp.	Local	Mtg.	Fgn Econ	Real	Price	Price	Price
J.P. Morgan Crosses		Rate	Rate		1-Mo.	3-Mo.	6-Mo.	1-Yr.	2-Yr.	5-Yr.	10-Yr.	30-Yr.	Bond	Bond	Bonds	Rate	\$ Index	GDP	Index	Index	Index
Salton Schoper (apper language) Salton Salton Markers 54 H 88 H 58 H 58 H 58 H 58 H 59 S 22 S 0 48 43 40 41 51 63 53 58 1140 08 27 27 23 23 Bask of Amenica 51 na	,	5.4 H	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	-0.5	2.8	2.6	2.6
Conservations	•	5.4 H	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	1.0	2.5	2.4	2.1
Bark of Manniches 51	Santander Capital Markets	5.4 H	8.6 H	5.4	5.4 H	H 5.3	5.2	5.0	4.6	4.2	4.0	4.2	5.1	6.3	3.9	6.7	114.0	0.9	2.7	2.7	2.3
BMO Copin Markets \$1 82 \$50 \$na\$ \$53 \$53 \$46 \$37 \$36 \$35 \$36 \$na\$ \$na\$ \$na\$ \$63 \$1104 \$15 \$20 \$22 \$21 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$	Chan Economics	5.2	8.2	5.1	5.2	5.4 H	H 5.4 H	H 5.0	4.8	4.3	4.0	4.1	5.1	6.1	4.6	6.8	115.8	8.0	2.3	2.5	2.1
Comeric Definition Service Proposale Research Service Proposale Register Function (Service Proposale Register Function (Se		5.1	na	na	na	na	na	na	4.2	4.0	3.7	3.9	na	na	na	na	na	0.5	3.3	2.5	2.3
Exponsibility Resolution S1	BMO Capital Markets	5.1	8.2	5.0	na	5.3	5.3	4.6	3.7	3.6	3.5	3.6	na	na	na	6.3	110.4	1.5	2.0	2.2	2.0
Regions Francisal Corporation 51 83 51 52 84 50 52 44 56 50 173 0 192 4 23 22 Action Ecoromics 50 82 56 H 51 50 50 45 45 44 41 40 41 49 53 42 73 1163 18 62 23 22 Action Ecoromics 50 82 56 H 51 50 50 48 45 54 24 14 40 41 49 53 42 73 1163 18 18 12 24 18 Bask of the West 50 82 50 55 53 53 53 44 84 55 42 41 40 40 41 49 53 42 73 1163 18 18 12 22 22 22 Deferrors Associa 50 82 50 50 50 47 47 7 45 45 44 41 39 44 55 45 46 44 63 63 63 18 18 18 12 21 24 25 23 23 Deferrors Associa 50 82 50 50 50 47 47 7 45 45 44 41 39 44 43 56 64 44 63 63 63 18 18 18 18 18 18 18 18 18 18 18 18 18		5.1	8.2	5.1	na	5.1	4.9	4.5	3.7	3.6	3.6	3.8	4.6	5.6	na	6.1	na	0.9	2.0	1.9	1.9
The Northern Trust Compreny 151 83 51 52 53 53 53 52 44 41 41 40 43 53 64 48 65 1120 19 24 23 22 Action Exponence 50 82 58 H 51 50 50 48 45 45 42 41 40 41 49 59 42 73 1163 163 163 42 42 19 6 64 67 67 67 67 67 67 67 67 67 67 67 67 67	o .	5.1	8.1	na	5.1	5.0	4.9	4.6	4.5	3.8	3.5	3.7	na	na	na		na	1.9	na	2.0	na
Action Ecromonics	'	5.1	8.3			4.8	5.0			3.9	3.8	4.0	5.3	6.2	4.4		113.8	0.8		2.1	
Bank of Mest Second Secon		5.1		5.1		5.3				4.1	4.0	4.3	5.3	6.4							
Chruse Economics Analytics 50 82 50 51 53 53 53 54 H 54 H 54 H 55 H 57 H 59 ns ns ns 68 ns 20 22 22 22 22 20 0 0 0 0 0 0 0 0 0 1 0 0 0 0		5.0		5.6 H	5.1	5.0	4.8						4.9	5.9	4.2		116.3	1.6	1.4		
DePrince Assesse: 50														6.4	5.0		114.6				
Modyls Ashapitiss 5.0 8.2 5.0 5.0 5.0 4.7 4.7 4.8 4.4 4.1 3.9 4.4 5.4 6.4 4.4 6.3 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	,	5.0	8.2	5.0	5.1	5.3	5.3	5.4 l	H 5.4	H 5.4 F	H 5.6	H 5.7	H 5.9	na	na						
Goldman Sachè & Co. 49 na na ra 48 na 48 na 48 na 48 na 48 1 38 38 39 na na ra 60 na 11 02 22 22 22 23 SAP Coloradoris Advisors 49 80 49 50 48 47 45 43 43 39 35 38 39 na na ra 60 na 11 02 10 30 32 31 33 SAP Coloradoris Advisors 49 80 49 na 48 43 43 39 35 38 39 na na na ra 60 na 11 02 42 22 22 21 SAP COLORADORIS AND									4.7	4.5	4.4	4.3					116.3				
RDQ Economics 49 8.0 49 8.0 49 5.0 48 47 45 43 40 38 37 5.6 6.8 4.1 6.1 109.1 L 10 3.0 3.2 3.1 SAP Globe Market Intelligence 49 8.0 49 na 4.5 4.3 4.3 3.9 3.5 3.6 3.8 3.7 n. na	, ,	5.0	8.2	5.0	5.0	4.7	4.7	4.6	4.4	4.1	3.9	4.4	5.4	6.4	4.4	6.3	na		1.9		
S&P Global Market Irvelligence		4.9	na	na	na	4.6	na	na	4.1	3.8	3.8	3.9	na	na	na	na	na	1.9	2.2	2.2	2.0
EY-Parthenon 48 na		4.9	8.0	4.9	5.0	4.8	4.7	4.5	4.3	4.0	3.8	3.7	5.6	6.8	4.1	6.1	109.1 L	1.0	3.0	3.2	3.1
Scoriabarik Group 48 na 46 na 4.1 na na 38 37 38 39 na na na na na na 1.1 0.0 L 35 H 1.4 Via Nova Investment Migl. 48 80 48 77 49 48 48 46 51 51 5.1 5.1 5.1 6.3 H 7.1 H 5.6 H 8.1 H 1100 25 22 L 21 21 21 21 21 21 21 21 21 21 21 21 21	v	4.9	8.0	4.9	na	4.6	4.3	4.3	3.9	3.5	3.6	3.9	na	na	na	6.0	na	1.1	2.4	2.6	2.4
Via Nova Investment Migr.	EY-Parthenon	4.8	na	na	na	4.4	na	na	na	na	3.6	na	na	na	na	na	na	1.6	2.0	2.2	2.1
Fannie Mae 47 78 na na 49 48 45 43 41 40 42 na na na 65 na 64 25 28 25 26 CEL Friencial Economics 45 77 45 46 45 42 33 83 83 83 41 48 65 5 40 59 40 59 1135 13 23 25 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Scotiabank Group	4.8	na	4.6	na	4.1	na	na	3.6	3.7	3.8	3.9	na	na	na	na	na	1.1	0.0	L 3.5	H 1.4
GLC Financial Economics	Via Nova Investment Mgt.	4.8	8.0	4.8	4.9	4.8	4.8	4.6	5.1	5.1	5.1	5.1	6.3 l	H 7.1	H 5.6 H	1 8.1 H	110.0	2.5	2.1	2.1	2.1
Oxford Economics		4.7	7.8	na	na	4.9	4.8	4.5	4.3	4.1	4.0	4.2	na	na	na	6.5	na	-0.4	2.5	2.8	2.5
Societe Generale	GLC Financial Economics	4.6	7.7	4.5	4.6	4.5	4.5	4.2	3.8	3.8	3.8	4.1	4.8	5.9	4.0	5.9	113.5	1.3	2.3	2.5	2.4
Naroff Economic Advisors	Oxford Economics	4.6	7.1	4.6	na	4.2	4.3	3.8	3.3	3.0	3.0	3.2	L 3.5	na	na	5.0 L	112.6	1.6	3.5 H	H 2.2	2.1
KPMG 4.4 7.5 4.4 4.1 4.3 4.4 4.2 3.9 3.4 3.4 3.7 4.4 5.6 na 6.3 na 12 2.3 2.3 2.2 The Lonski Group 4.2 7.3 4.2 4.4 4.1 4.2 4.1 4.0 4.5 3.5 3.4 3.6 4.6 5.5 4.0 6.3 119.0 H 1.4 2.1 2.2 1.9 Nomura Securities, Inc. 4.1 7.3 na		4.6	7.8	4.6	4.5	4.4	4.1	3.6	3.2	3.5	3.6	3.9	na	na	na	5.1	na	-0.7	1.8	2.2	1.9
The Lonski Group		4.5	7.5	4.5	4.6	4.5	4.5	4.5	4.5	4.0	4.0	4.2	na	na	4.0	6.5	113.5	3.6 l	1 2.6	2.8	2.6
Nomura Securities, Inc. 4.1 7.3 na na na na na na na 2.5 2.7 2.8 L na		4.4	7.5	4.4	4.1	4.3	4.4	4.2	3.9	3.4	3.4	3.7	4.4	5.6	na	6.3	na	1.2	2.3	2.3	
Georgia State University 4.0 7.1 na na 38 3.5 3.4 3.1 2.9 3.1 3.4 4.0 5.3 na 5.4 na 0.9 2.2 2.9 2.3 MacroFin Analytics & Ritggers Bus School 3.9 7.3 3.8 4.0 4.1 4.3 4.7 4.7 3.9 3.9 4.0 5.1 5.9 4.0 6.7 115.8 1.6 2.5 2.3 2.4 PNC Financial Services Corp. 3.8 6.9 3.8 na 3.5 3.6 3.3 3.4 3.0 2.0 L 2.4 L 2.8 L 3.3 3.8 4.8 3.1 L 5.4 114.7 2.0 2.1 1.0 0.5 Loonis, Sayles & Company 3.5 6.6 3.4 3.4 3.5 3.5 3.0 L 2.0 L 2.4 L 2.8 L 3.3 3.8 4.8 3.1 L 5.4 114.7 2.0 2.1 1.0 0.5 Loonis, Sayles & Company 3.5 6.6 3.4 3.4 3.3 3.5 3.5 3.0 L 3.0 L 3.1 3.1 3.2 3.6 4.4 5.4 3.8 5.8 na 1.6 2.4 2.8 L 2.8 L 2.8 L 3.0 L 3.1 L 5.4 114.7 2.0 2.1 1.0 0.5 Loonis, Sayles & Company 3.5 6.6 3.4 3.4 3.3 3.5 3.6 3.7 3.8 3.8 4.0 4.1 4.9 5.7 4.0 5.8 118.0 3.0 3.5 H 3.5	·	4.2	7.3	4.2	4.4	4.1	4.2	4.1	4.0	3.5	3.4	3.6	4.6	5.5	4.0	6.3	119.0 H	1.4	2.1	2.2	1.9
MacroFrin Analytics & Rutgers Bus School 3.9 7.3 3.8 4.0 4.1 4.3 4.7 4.7 3.9 3.9 4.0 5.1 5.9 4.0 6.7 115.8 1.6 2.5 2.3 2.4 PNC Financial Services Corp. 3.8 6.9 3.8 na 3.5 3.6 3.3 3.4 3.6 3.7 4.0 na 6.1 4.6 5.8 112.4 -1.0 L 1.1 0.7 L 0.5 Loomis, Sayles & Company 3.5 6.6 3.4 3.4 3.5 3.5 3.0 L 2.0 L 2.4 L 2.8 L 3.3 3.8 4.8 3.1 L 5.4 114.7 2.0 2.1 2.8 2.2 ING 3.4 6.5 3.4 3.4 3.5 3.5 3.0 L 2.0 L 2.4 L 2.8 L 3.3 3.8 4.8 3.1 L 5.4 114.7 2.0 2.1 2.8 2.2 ING 3.4 6.5 3.4 3.4 3.5 3.5 3.0 L 2.0 L 2.4 L 2.8 L 3.3 3.8 4.8 3.1 L 5.4 114.7 2.0 2.1 2.8 2.2 ING 3.4 6.5 3.4 3.4 3.0 3.0 L 3.0 L 3.1 3.1 3.2 3.6 4.4 5.4 3.8 5.8 na 1.6 5.2 4.2 2.8 2.4 ING 3.3 L 3	Nomura Securities, Inc.	4.1	7.3	na	na	na	na	na	2.5	2.7	2.8	L na	na	na	na	na	na	1.3	1.1	2.5	2.2
PNC Financial Services Corp. 3.8 6.9 3.8 na 3.5 3.6 3.3 3.4 3.6 3.7 4.0 na 6.1 4.6 5.8 112.4 -1.0 L 1.1 0.7 L 0.5 Loomis, Sayles & Company 3.5 6.6 3.4 3.4 3.5 3.5 3.5 3.0 L 2.0 L 2.4 L 2.8 L 3.3 3.8 4.8 3.1 L 5.4 114.7 2.0 2.1 2.8 2.2 ING 3.4 na	,	4.0	7.1	na	na	3.8	3.5	3.4	3.1	2.9	3.1	3.4	4.0	5.3	na	5.4	na	0.9	2.2	2.9	2.3
Loomis, Sayles & Company Sayles & Company 35 66 34 34 35 35 35 30 L 20 L 24 L 28 L 33 38 4.8 3.1 L 54 1147 2.0 2.1 2.8 2.2 NG 34 na na na na na na na n	, ,	3.9	7.3	3.8	4.0	4.1	4.3	4.7	4.7	3.9	3.9	4.0	5.1	5.9	4.0	6.7	115.8	1.6	2.5	2.3	2.4
ING	PNC Financial Services Corp.	3.8	6.9	3.8	na	3.5	3.6	3.3	3.4	3.6	3.7	4.0	na	6.1	4.6	5.8	112.4	-1.0 l	_ 1.1	0.7	L 0.5 L
Wells Fargo 3.4 6.5 3.4 3.4 3.0 3.0 L 3.1 3.1 3.2 3.6 4.4 5.4 3.8 5.8 na 1.6 2.4 2.8 2.4 TS Lombard 3.3 6.4 3.3 L 3.3 3.5 3.6 3.7 3.8 3.8 4.0 4.1 4.9 5.7 4.0 5.8 118.0 3.0 3.5 H 3.5 Nat/West Markets September Consensus 4.6 7.6 4.6 4.5 4.5 4.3 3.9 3.8 3.7 4.0 4.9 5.8 4.2 6.3 114.0 1.3 2.2 2.4 2.2 Top 10 Avg. 5.2 8.3 5.1 5.1 5.2 5.1 5.0 4.7 4.4 4.3 4.5 5.5 6.4 4.6 6.9 115.8 2.3 2.9 3.0 2.6 Bottom 10 Avg. 3.6 6.8 4.0 3.9 3.7	Loomis, Sayles & Company	3.5	6.6	3.4	3.4	3.5	3.5	3.0	L 2.0	L 2.4 l	L 2.8	L 3.3	3.8	4.8	3.1 L	5.4	114.7	2.0	2.1	2.8	2.2
TS Lombard 3.3 6.4 3.3 L 3.3 3.5 3.6 3.7 3.8 3.8 4.0 4.1 4.9 5.7 4.0 5.8 118.0 3.0 3.5 H 3.5 H 3.5 I 3.6 NatWest Markets 2.6 L 5.8 L na 2.7 L 2.9 L 3.0 L 3.1 2.6 2.7 2.9 3.2 L 2.8 L 3.0 L 3.0 L 3.3 6.0 na 1.5 1.6 1.2 1.3 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.6 1.2 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5		3.4	na	na	na	na	na	na	3.0	3.0	3.0	3.4	na	na	na	na	na	-0.3	na	na	na
NatWest Markets	Wells Fargo	3.4	6.5	3.4	3.4	3.0	3.0 I	L 3.0	L 3.1	3.1	3.2	3.6	4.4	5.4	3.8	5.8	na	1.6	2.4	2.8	2.4
September Consensus 4.6 7.6 4.6 4.5 4.5 4.3 3.9 3.8 3.7 4.0 4.9 5.8 4.2 6.3 114.0 1.3 2.2 2.4 2.2 Top 10 Avg. 5.2 8.3 5.1 5.1 5.2 5.1 5.0 4.7 4.4 4.3 4.5 5.5 6.4 4.6 6.9 115.8 2.3 2.9 3.0 2.6 Bottom 10 Avg. 3.6 6.8 4.0 3.9 3.7 3.7 3.5 3.0 3.0 3.1 3.5 4.2 5.3 3.8 5.6 112.1 0.1 1.5 1.9 1.7 August Consensus 4.4 7.5 4.4 4.3 4.2 4.2 3.8 3.6 3.6 3.9 4.8 5.9 4.0 6.1 112.7 1.6 2.3 2.4 2.2 Number of Forecasts Changed From A Month Ago: Down 0 0 0 0 1 0 <td>TS Lombard</td> <td>3.3</td> <td>6.4</td> <td>3.3 L</td> <td>. 3.3</td> <td>3.5</td> <td>3.6</td> <td>3.7</td> <td>3.8</td> <td>3.8</td> <td>4.0</td> <td>4.1</td> <td>4.9</td> <td>5.7</td> <td>4.0</td> <td>5.8</td> <td>118.0</td> <td>3.0</td> <td>3.5 H</td> <td>H 3.5</td> <td>H 3.5 H</td>	TS Lombard	3.3	6.4	3.3 L	. 3.3	3.5	3.6	3.7	3.8	3.8	4.0	4.1	4.9	5.7	4.0	5.8	118.0	3.0	3.5 H	H 3.5	H 3.5 H
Top 10 Avg. 5.2 8.3 5.1 5.1 5.2 5.1 5.0 4.7 4.4 4.3 4.5 5.5 6.4 4.6 6.9 115.8 2.3 2.9 3.0 2.6 Bottom 10 Avg. 3.6 6.8 4.0 3.9 3.7 3.7 3.5 3.0 3.0 3.1 3.5 4.2 5.3 3.8 5.6 112.1 0.1 1.5 1.9 1.7 August Consensus 4.4 7.5 4.4 4.4 4.3 4.2 4.2 3.8 3.6 3.6 3.9 4.8 5.9 4.0 6.1 112.7 1.6 2.3 2.4 2.2 Number of Forecasts Changed From A Month Ago: Down 0 0 0 0 1 0 5 4 5 4 4 4 4 3 2 3 3 3 19 8 7 12 Same 23 20 15 12 16 15 14 16 14 14 12 7 5 7 8 4 14 19 20 17 Up 14 10 11 9 15 14 10 14 15 17 17 11 13 10 17 11 4 8 9 6	NatWest Markets	2.6 L	5.8 L	na	2.7 l	L 2.9 l	L 3.0 I	L 3.1	2.6	2.7	2.9	3.2	L 2.8	L 3.0	L 3.3	6.0	na	1.5	1.6	1.2	1.3
Bottom 10 Avg. 3.6 6.8 4.0 3.9 3.7 3.7 3.5 3.0 3.0 3.1 3.5 4.2 5.3 3.8 5.6 112.1 0.1 1.5 1.9 1.7 August Consensus 4.4 7.5 4.4 4.4 4.3 4.2 4.2 3.8 3.6 3.6 3.9 4.8 5.9 4.0 6.1 112.7 1.6 2.3 2.4 2.2 Number of Forecasts Changed From A Month Ago: Down 0 0 0 0 1 0 5 4 5 4 5 4 4 4 3 2 3 3 3 19 8 7 12	September Consensus	4.6	7.6	4.6	4.6	4.5	4.5	4.3	3.9	3.8	3.7	4.0	4.9	5.8	4.2	6.3	114.0	1.3	2.2	2.4	2.2
Bottom 10 Avg. 3.6 6.8 4.0 3.9 3.7 3.7 3.5 3.0 3.0 3.1 3.5 4.2 5.3 3.8 5.6 112.1 0.1 1.5 1.9 1.7 August Consensus 4.4 7.5 4.4 4.4 4.3 4.2 4.2 3.8 3.6 3.6 3.9 4.8 5.9 4.0 6.1 112.7 1.6 2.3 2.4 2.2 Number of Forecasts Changed From A Month Ago: Down 0 0 0 0 1 0 5 4 5 4 5 4 4 4 3 2 3 3 3 19 8 7 12	Top 10 Avg	5.2	0.2	E 1	E 1	5.2	5.1	5.0	4.7	4.4	12	4.5	5.5	6.4	16	6.0	115 0	22	2.0	2.0	26
August Consensus 4.4 7.5 4.4 4.4 4.3 4.2 4.2 3.8 3.6 3.6 3.9 4.8 5.9 4.0 6.1 112.7 1.6 2.3 2.4 2.2 Number of Forecasts Changed From A Month Ago: Down 0 0 0 0 1 0 5 4 5 4 4 4 4 3 2 3 3 3 19 8 7 12 Same 23 20 15 12 16 15 14 16 14 14 12 7 5 7 8 4 14 19 20 17 Up 14 10 11 9 15 14 10 14 15 17 17 11 13 10 17 11 4 8 9 6																					
Number of Forecasts Changed From A Month Ago: Down 0 0 0 0 1 0 5 4 5 4 4 4 3 2 3 3 19 8 7 12 Same 23 20 15 12 16 15 14 16 14 14 12 7 5 7 8 4 14 19 20 17 Up 14 10 11 9 15 14 10 14 15 17 17 11 13 10 17 11 4 8 9 6	9																				
Down 0 0 0 0 1 0 5 4 5 4 4 4 3 2 3 3 19 8 7 12 Same 23 20 15 12 16 15 14 16 14 14 12 7 5 7 8 4 14 19 20 17 Up 14 10 11 9 15 14 10 14 15 17 17 11 13 10 17 11 4 8 9 6									3.0	2.0		3.0		3.0						2	
Up 14 10 11 9 15 14 10 14 15 17 17 11 13 10 17 11 4 8 9 6		•		0	0	1	0	5	4	5	4	4	4	3	2	3	3	19	8	7	12
	Same	23	20	15	12	16	15	14	16	14	14	12	7	5	7	8	4	14	19	20	17
	Up	14	10	11	9	15	14	10	14	15	17	17	11	13	10	17	11	4	8	9	6
Diffusion Index 69% 67% 71% 71% 72% 74% 59% 65% 65% 69% 70% 66% 74% 71% 75% 72% 30% 50% 53% 41%	Diffusion Index	69%	67%	71%	71%	72%	74%	59%	65%	65%	69%	70%	66%	74%	71%	75%	72%	30%	50%	53%	41%

Fourth Quarter 2024 Interest Rate Forecasts

The Lonski Group 37 68 36 39 37 38 36 39 37 38 36 35 39 37 38 36 35 35 33 32 34 45 53 38 60 1178 17 21 18 20 Georgia State University 36 67 na							Perce	nt Per A	nnum A	verage Fo	r Quarter-					-	Avg. For		(Q-Q	% Change)
Panel Members Pinels SPCR Crm Finels Tenes	Blue Chip			S	Short-Terr	m			Inte	mediate-T	erm		Lo	ng-Term-			Qtr		(SAAR)	
Filtrox Board Paper Bills Bi		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A.	В.	C.	D.	E.
Part	Panel Members	Federal	Prime	SOFR	Com.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Treas.	Aaa	Baa	State &	Home	Fed's Adv		GDP	Cons.	PCE
12 Margan Charge		Funds	Bank	Rate	Paper	Bills	Bills	Bills	Notes	Notes	Notes	Bond	Corp.	Corp.	Local	Mtg.	Fgn Econ	Real	Price	Price	Price
Back of American 49 no		Rate	Rate		1-Mo.	3-Mo.	6-Mo.	1-Yr.	2-Yr.	5-Yr.	10-Yr.	30-Yr.	Bond	Bond	Bonds	Rate	\$ Index	GDP	Index	Index	Index
Berlups	•		na	na	na	na	na	na				na	na	na	na	na	na	1.0			
Consistency Configuration			na	na	na	na	na	na	4.0	3.8	3.5	3.7	na	na	na	na	na				
Settles of proper Markers	•																				
Accon Ecconnes																					
Bark of the Wier 88 79 47 48 48 48 48 45 43 43 41 42 53 63 63 68 1147 15 22 22 21 Sometical Bank 48 79 48 68 69 69 69 69 69 69 6																					
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Fancie Mae 44 7.5 na na 41 39 39 39 38 3.4 3.5 na na na na 6.3 na na 0.6 L 24 30 25 SAP Clobal Market Intelligence 44 7.5 4.3 na na na 41 39 39 39 38 3.6 3.4 3.5 3.8 na na na na 5.8 na na na 13 22 22 12 22 CLOBAL Market Intelligence 44 7.5 4.3 na na na 40 na	RDQ Economics	4.5	7.6	4.5	4.6	4.4	4.4	4.3	4.2	4.0	3.8	3.7	5.4	6.4	4.1	6.0	108.5 L	1.2	2.9	3.0	3.0
S&P Gibbal Market Intelligence	Via Nova Investment Mgt.	4.5	7.8	4.6	4.6	4.5	4.5	4.4	4.8	4.8	4.8	4.8	6.0	6.8	5.3 H	1 7.8 H	110.0	2.5	2.1	2.1	2.1
EY-Parthenon	Fannie Mae	4.4	7.5	na	na	4.6	4.5	4.3	4.2	4.1	4.0	4.2	na	na	na	6.3	na	0.6	L 2.4	3.0	2.5
GLC Firancial Economics	S&P Global Market Intelligence	4.4	7.5	4.3	na	4.1	3.9	3.9	3.6	3.4	3.5	3.8	na	na	na	5.8	na	1.3	2.3	2.0	2.0
KPMG 4.1 7.3 4.1 3.7 4.0 4.0 3.9 3.6 3.1 3.2 3.6 4.2 5.4 na 6.0 na 16.0 2.1 1.9 1.9 Oxbord Coronomics 4.1 6.5 4.1 na 3.8 3.8 3.5 3.0 2.9 2.9 3.1 L 3.4 na na 4.7 L 111.7 1.8 3.5 H 2.2 2.0 1.9 Naroff Economic Advisors 4.0 7.0 4.0 4.1 3.9 3.9 3.8 3.3 3.0 2.9 2.9 3.1 L 3.4 na na 4.1 5.9 11.0 1.8 3.5 H 2.2 2.0 1.9 Naroff Economic Advisors 4.0 7.0 4.0 4.1 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9	EY-Parthenon	4.3	na	na	na	4.0	na	na	na	na	3.5	na	na	na	na	na	na	1.7	2.1	2.1	2.0
Oxford Economics		4.2	7.3	4.1	4.2	4.2	4.0	4.0	3.6	3.7	3.7	4.0	4.7	5.7	4.0	5.6	113.3	1.3	2.3	2.2	2.2
Societe Generale 4.1 7.3 4.1 4.0 3.9 3.6 3.3 3.0 3.5 3.6 3.9 na na na na 5.1 na 4.9 H 1.8 22 1.9 Naroff Economic Ackisors 4.0 7.0 4.0 4.1 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9		4.1		4.1	3.7									5.4	na			-			
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Bottom 10 Avg. 3.3 6.5 3.6 3.6 3.4 3.4 3.3 2.8 3.0 3.1 3.4 4.1 5.2 3.8 5.5 111.7 1.1 1.5 1.9 1.8 August Consensus 4.0 7.1 4.0 4.1 4.0 3.9 3.9 3.5 3.5 3.5 3.8 4.7 5.7 4.0 5.9 112.4 1.8 2.3 2.3 2.2 Number of Forecasts Changed From A Month Ago: Down 1	September Consensus	4.2	7.3	4.2	4.2	4.2	4.2	4.0	3.7	3.7	3.7	3.9	4.8	5.8	4.2	6.1	113.7	1.8	2.2	2.4	2.2
Bottom 10 Avg. 33 6.5 3.6 3.6 3.4 3.4 3.3 2.8 3.0 3.1 3.4 4.1 5.2 3.8 5.5 111.7 1.1 1.5 1.9 1.8 August Consensus 4.0 7.1 4.0 4.1 4.0 3.9 3.9 3.5 3.5 3.5 3.8 4.7 5.7 4.0 5.9 112.4 1.8 2.3 2.3 2.2 Number of Forecasts Changed From A Month Ago: Down 1	Ton 10 Ava	10	7.0	18	18	18	18	46	4.5	11	13	15	5.5	6.4	16	6.8	115.7	26	2.0	3.0	2.7
August Consensus 4.0 7.1 4.0 4.1 4.0 3.9 3.9 3.5 3.5 3.5 3.8 4.7 5.7 4.0 5.9 112.4 1.8 2.3 2.3 2.2 Number of Forecasts Changed From A Month Ago: Down 1 1 1 1 2 2 1 1 3 2 3 1 3 5 4 3 3 2 4 2 13 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3																					
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Up 15 12 10 8 14 15 10 15 17 18 17 10 10 10 15 11 5 6 12 12	•	•	1	1	2	2	1	3	2	3	5	4	3	3	2	4	2	13	7	3	3
	Same	21	17	15	11	16	13	16	17	14	12	12	9	8	7	9	5	18	21	20	19
Diffusion Index 60% 68% 67% 64% 60% 74% 62% 60% 71% 60% 70% 66% 77% 67% 71% 70% 75% 20% 40% 62% 62%	Up	15	12	10	8	14	15	10	15	17	18	17	10	10	10	15	11	5	6	12	12
ווים מולבי מולבים מולבי	Diffusion Index	69%	68%	67%	64%	69%	74%	62%	69%	71%	69%	70%	66%	67%	71%	70%	75%	39%	49%	63%	63%

International Interest Rate And Foreign Exchange Rate Forecasts

	Fed F	und Targe	t Rate
Blue Chip Forecasters	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	5.63	5.63	5.38
BMO Capital Markets	5.38	5.38	5.13
ING Financial Markets	5.38	5.38	3.68
Moody's Analytics	5.31	5.38	5.35
Northern Trust	5.63	5.63	5.13
Oxford Economics	5.31	5.38	4.96
S&P Global Market Intelligence			
Scotiabank	5.38	5.38	4.63
TS Lombard	5.50	4.75	3.25
Wells Fargo	5.38	5.38	4.38
September Consensus	5.43	5.37	4.65
High	5.63	5.63	5.38
Low	5.31	4.75	3.25
Last Months Ava	5 42	5 44	4 92

	Policy-l	Rate Balan	ce Rate
Blue Chip Forecasters	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	-0.10	-0.10	
BMO Capital Markets	-0.10	-0.10	-0.10
ING Financial Markets	-0.10	-0.10	0.00
Moody's Analytics	-0.10	-0.10	-0.10
Nomura Securities			
Northern Trust	-0.10	-0.10	0.00
Oxford Economics	-0.03	-0.04	-0.04
S&P Global Market Intelligence			
Scotiabank			
TS Lombard	-0.10	-0.10	-0.10
Wells Fargo	-0.10	-0.10	-0.10
September Consensus	-0.09	-0.09	-0.06
High	-0.03	-0.04	0.00
Low	-0.10	-0.10	-0.10
Last Months Avg.	-0.08	-0.08	-0.06

	Official Bank Rate			
Blue Chip Forecasters	In 3 Mo.	In 6 Mo.	In 12 Mo.	
Barclays	5.50	5.50	5.00	
BMO Capital Markets	5.50	5.50	5.25	
ING Financial Markets	5.50	5.50	4.50	
Moody's Analytics	5.19	5.66	5.75	
Nomura Securities				
Northern Trust	5.75	5.75	5.75	
Oxford Economics	5.35	5.75	5.75	
S&P Global Market Intelligence				
Scotiabank	5.50	5.50	4.50	
TS Lombard	5.20	4.00	3.00	
Wells Fargo	5.75	5.75	4.75	
September Consensus	5.47	5.43	4.92	
High	5.75	5.75	5.75	
Low	5.19	4.00	3.00	
Last Months Avg.	5.59	5.69	5.41	

	SNB Policy Rate			
Blue Chip Forecasters	In 3 Mo.	In 6 Mo.	In 12 Mo.	
Barclays	2.00	2.25	2.25	
ING Financial Markets	2.00	2.00	2.00	
Moody's Analytics	2.00	2.00	2.00	
Nomura Securities				
Northern Trust	2.00	2.00	1.75	
Oxford Economics	1.77	2.00	1.88	
S&P Global Market Intelligence				
Scotiabank				
TS Lombard	1.75	1.50	1.25	
Wells Fargo	2.00	2.00	1.75	
September Consensus	1.93	1.96	1.84	
High	2.00	2.25	2.25	
Low	1.75	1.50	1.25	
Last Months Avg.	1.96	2.04	1.94	

		<u>lkt Financi</u>	
Blue Chip Forecasters	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	5.00	5.00	4.25
BMO Capital Markets	5.00	5.00	4.50
ING Financial Markets	5.00	5.00	4.25
Moody's Analytics	5.19	5.25	5.25
Nomura Securities			
Northern Trust	5.25	5.25	4.75
Oxford Economics	4.88	5.00	4.88
S&P Global Market Intelligence			
Scotiabank	5.00	5.00	4.25
TS Lombard	5.00	4.25	2.75
Wells Fargo	5.00	5.00	4.50
September Consensus	5.04	4.97	4.38
High	5.25	5.25	5.25
Low	4.88	4.25	2.75
Last Months Avg.	4.98	5.00	4.64

United States					
Gov't Bond	Yield %				
In 6 Mo.	In 12 Mo.				
4.05					
3.80	3.50				
3.25	3.00				
3.99	3.96				
4.25	4.00				
3.64	3.16				
3.80	3.61				
3.70	3.80				
4.00	4.00				
3.35	3.20				
3.78	3.58				
4.25	4.00				
3.25	3.00				
3.68	3.47				
	Gov't Bond In 6 Mo. 4.05 3.80 3.25 3.99 4.25 3.64 3.80 3.70 4.00 3.35 3.78 4.25 3.25				

Japan						
10 Yr. 0	Sov't Bond					
In 3 Mo.	In 6 Mo.	In 12 Mo.				
0.80	0.80					
0.75	0.80	0.80				
0.80	0.80	0.90				
0.60	0.60	0.60				
0.70	0.75	0.75				
0.45	0.46	0.48				
0.65	0.55	0.55				
0.75	0.70	0.65				
0.69	0.68	0.68				
0.80	0.80	0.90				
0.45	0.46	0.48				
0.48	0.58	0.61				

Unite	United Kingdom						
	10 Yr. Gilt Yields %						
In 3 Mo.	In 6 Mo.	In 12 Mo.					
4.50	4.40						
4.00	3.90	3.60					
4.40	3.80	3.25					
4.17	4.90	5.11					
4.50	4.45	4.40					
4.33	4.28	4.18					
4.40	4.00	3.85					
4.35	4.20	3.95					
4.33	4.24	4.05					
4.50	4.90	5.11					
4.00	3.80	3.25					
4.30	4.23	4.03					

Switzerland							
10 Yr. Gov't Bond Yield %							
In 3 Mo.	In 6 Mo.	In 12 Mo.					
1.15	1.15	1.10					
1.40	1.90	2.03					
1.10	1.10	1.00					
1.09	1.37	1.34					
0.95	0.85	0.95					
1.14	1.27	1.28					
1.40	1.90	2.03					
0.95	0.85	0.95					
1.29	1.41	1.37					

(Canada						
	10 Yr. Gov't Bond Yield %						
In 3 Mo.	In 6 Mo.	In 12 Mo.					
3.50	3.30	3.10					
3.50	3.40	3.00					
3.59	3.79	4.04					
3.65	3.60	3.35					
3.44	3.48	3.42					
3.20	3.30	3.55					
3.60	3.50	2.75					
3.45	3.25	3.15					
3.49	3.45	3.30					
3.65	3.79	4.04					
3.20	3.25	2.75					
3.46	3.41	3.32					

Fee	Fed's AFE \$ Index								
In 3 Mo.	In 6 Mo.	In 12 Mo.							
113.0	111.8	110.4							
112.1	110.2	106.4							
116.0	118.0	112.0							
115.0	114.9	113.6							
114.0	112.0	118.0							
114.0	113.4	112.1							
116.0	118.0	118.0							
112.1	110.2	106.4							
112.8	112.4	110.2							

	Yen per US\$	i
In 3 Mo.	In 6 Mo.	In 12 Mo.
135.0	132.0	
141.0	139.0	137.0
135.0	130.0	120.0
140.0	135.0	124.8
140.0	135.0	125.0
145.0	140.0	135.0
144.6	144.9	139.6
143.9	142.8	136.8
135.0	130.0	125.0
145.0	142.5	150.1
140.5	137.1	132.6
145.0	144.9	150.1
135.0	130.0	120.0
138.3	135.8	129.9

US\$ p	er Pound St	erling
In 3 Mo.	In 6 Mo.	In 12 Mo.
1.29	1.29	
1.27	1.27	1.28
1.29	1.31	1.31
1.35	1.44	1.56
1.22	1.25	1.31
1.25	1.22	1.28
1.27	1.27	1.28
1.26	1.26	1.27
1.35	1.38	1.40
1.25	1.20	1.10
1.28	1.29	1.31
1.35	1.44	1.56
1.22	1.20	1.10
1.30	1.30	1.34

	CHF per US\$	
In 3 Mo.	In 6 Mo.	In 12 Mo.
0.88	0.87	
0.86	0.84	0.85
0.88	0.87	0.81
0.88	0.87	0.88
0.88	0.90	0.85
0.90	0.91	0.90
0.89	0.89	0.87
0.88	0.87	0.86
0.90	0.90	0.90
0.88	0.88	0.87
0.90	0.91	0.90
0.86	0.84	0.81
0.89	0.89	0.87

	C\$ per US\$	
In 3 Mo.	In 6 Mo.	In 12 Mo.
1.32	1.31	
1.32	1.30	1.29
1.29	1.27	1.25
1.36	1.31	1.26
1.35	1.34	1.32
1.36	1.35	1.28
1.32	1.32	1.31
1.33	1.34	1.31
1.30	1.27	1.25
1.35	1.35	1.35
1.33	1.32	1.29
1.36	1.35	1.35
1.29	1.27	1.25
1.32	1.32	1.29

International Interest Rate And Foreign Exchange Rate Forecasts

_			
	Offi	cial Cash F	Rate
Blue Chip Forecasters	In 3 Mo.	In 6 Mo.	In 12 Mo.
Barclays	4.35	4.35	3.60
ING Financial Markets	4.35	4.35	4.10
Moody's Analytics	4.10	4.10	3.85
Nomura Securities			
Northern Trust	4.35	4.35	3.85
Oxford Economics	4.35	4.60	4.60
S&P Global Market Intelligence			
Scotiabank			
TS Lombard	4.10	3.75	2.75
Wells Fargo	4.10	4.10	3.85
September Consensus	4.24	4.23	3.80
High	4.35	4.60	4.60
Low	4.10	3.75	2.75
Last Months Avg.	4.36	4.35	4.10

Australia							
10 Yr. Gov't Bond Yield %							
In 3 Mo. In 6 Mo. In 12 Mo							
4.35	4.35	3.60					
4.38	4.66	4.40					
4.10	4.00	3.75					
3.88	3.89	3.68					
4.10	3.95	2.45					
4.16	4.17	3.58					
4.38	4.66	4.40					
3.88	3.89	2.45					
4.03	3.96	3.77					

	US\$ per A	\$
In 3 Mo.	In 6 Mo.	In 12 Mo.
0.68	0.69	
0.68	0.70	0.73
0.67	0.68	0.72
0.69	0.69	0.71
0.64	0.64	0.69
0.66	0.67	0.68
0.68	0.70	0.72
0.69	0.70	0.72
0.65	0.65	0.65
0.67	0.68	0.70
0.69	0.70	0.73
0.64	0.64	0.65
0.68	0.68	0.71

Blue Chip Forecasters	in 3 Mo.	in 6 Mo.	In 12 Mo.
Barclays	4.25	4.25	3.75
BMO Capital Markets	4.25	4.25	4.00
ING Financial Markets	4.50	4.50	4.00
Moody's Analytics	4.16	4.50	4.45
Nomura Securities			
Northern Trust	4.50	4.50	4.25
Oxford Economics	4.22	4.50	4.04
S&P Global Market Intelligence			
Scotiabank	4.50	4.50	4.00
TS Lombard	3.80	3.05	1.55
Wells Fargo	3.75	3.75	3.25

4.21 4.50

3.75

4.27

September Consensus High

Last Months Avg.

Low

Main Refinancing Rate

4.20 4.50

3.05

4.34

3.70 4.45

1.55

4.12

Eurc	area

	S\$ per Eur	
In 3 Mo.	In 6 Mo.	In 12 Mo.
1.10	1.11	
1.12	1.13	1.14
1.12	1.13	1.17
1.09	1.10	1.16
1.07	1.09	1.11
1.07	1.05	1.12
1.09	1.09	1.10
1.09	1.10	1.13
1.12	1.15	1.18
1.10	1.12	1.05
1.10	1.11	1.13
1.12	1.15	1.18
1.07	1.05	1.05
1.10	1.11	1.14

		10 Yr. Gov't Bond Yields %										
		Germany			France			Italy			Spain	
Blue Chip Forecasters	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	2.50	2.45										
BMO Capital Markets	2.40	2.30	2.10									
ING Financial Markets	2.40	2.30	2.20	2.90	2.75	2.65	4.30	4.10	3.90	3.40	3.25	3.10
Moody's Analytics	2.53	2.60	2.60	3.01	3.03	2.95	4.25	4.23	4.04	3.53	3.63	3.69
Northern Trust	2.50	2.40	2.15	3.10	3.00	2.75	4.25	4.15	3.90	3.65	3.55	3.30
Oxford Economics	2.42	2.30	2.08	2.97	2.82	2.54	4.18	4.07	3.91	3.44	3.32	3.13
TS Lombard	2.50	2.40	2.40	2.85	2.75	2.75	3.80	3.70	3.70	3.25	3.15	3.15
Wells Fargo	2.50	2.45	2.40									
September Consensus	2.47	2.40	2.28	2.97	2.87	2.73	4.16	4.05	3.89	3.45	3.38	3.27
High	2.53	2.60	2.60	3.10	3.03	2.95	4.30	4.23	4.04	3.65	3.63	3.69
Low	2.40	2.30	2.08	2.85	2.75	2.54	3.80	3.70	3.70	3.25	3.15	3.10
Last Months Avg.	2.44	2.40	2.27	2.95	2.89	2.74	4.21	4.10	3.89	3.51	3.46	3.32

	Consensus Forecasts							
	10-year Bond Yields vs U.S. Yield							
	Current	In 3 Mo.	In 6 Mo.	In 12 Mo.				
Japan	-3.59	-3.23	-3.10	-2.91				
United Kingdom	0.25	0.41	0.46	0.47				
Switzerland	-3.27	-2.78	-2.51	-2.30				
Canada	-0.55	-0.43	-0.33	-0.29				
Australia	-0.10	0.24	0.39	-0.01				
Germany	-1.69	-1.45	-1.38	-1.31				
France	-1.17	-0.95	-0.91	-0.85				
Italy	-0.02	0.24	0.27	0.31				
Spain	-0.75	-0.47	-0.40	-0.31				

		Consensus Forecasts							
	Poli	Policy Rates vs U.S. Target Rate							
	Current	In 3 Mo.	In 6 Mo.	In 12 Mo.					
Japan	-5.48	-5.52	-5.27	-4.72					
United Kingdom	-0.13	0.04	0.07	0.26					
Switzerland	-3.63	-3.50	-3.40	-2.81					
Canada	-0.38	-0.40	-0.39	-0.28					
Australia	-1.28	-1.19	-1.14	-0.85					
Euro area	-1.13	-1.22	-1.17	-0.96					

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

House Prices Rose in June With Listings Sparse; New Home Sales Are Growing Again, But Existing Sales Are Depressed

- House prices rose in June, and were down just slightly from their level a year earlier by most measures.
- Sparse listings of existing homes are a big support to house prices, offsetting headwinds from high interest rates.
- New home sales rose from a year earlier in mid-2023, while existing home sales fell by double digits.
- Mortgage rates are rising again as financial markets price in additional tightening by the Fed and the discount of long-term interest rates relative to short-term rates shrinks.
- The stabilization of house prices means shelter prices will contribute less to inflation in 2024, but also that the risk of a recession near-term is smaller than it seemed in early 2023.

This month's data releases tell mixed messages about the housing market, with new home sales rising, while existing home sales are still depressed relative to last year's levels. House prices are rising in monthly terms, but still slightly lower than a year earlier by most measures as the Fed keeps the brakes on the industry.

New home sales rose to 714,000 units at a seasonally-adjusted annual pace in July from 684,000 in June (revised from 697,000 previously). New home sales averaged a 689,000 annualized rate in the second quarter. New home sales in July were up 31% from July 2022. The median price of a new home sold fell 9% from a year earlier, but was up on the month to \$436,700 from \$416,700 in June. The year-over-year decline in the average sale price is a bit of an apples-and-oranges comparison; homebuilders have shrunk the average size of new units to offset the drag of high interest rates on affordability.

It's a very different story in the existing segment. Existing home sales fell 2.2% in July to 4.07 million annualized units from 4.16 million in June, and were down 17% from a year earlier. The average sale price of an existing home rose 1.9% from a year earlier in July, to \$406,700. Existing home prices were flat in year-over-year terms in February and fell between March and June, but are now back in positive territory.

The S&P CoreLogic Case-Shiller 20-City House Price Index ("Case-Shiller HPI") rose 0.9% on the month in June, and fell 1.2% from a year earlier. It has fallen in year-over-year terms since March, reflecting month-over-month declines between last July and February. But since it has risen in monthly terms since then, the index will likely be up modestly in year-over-year terms by the fourth quarter of this year. The FHFA Purchase-Only House Price Index rose 3.1% year-over-year in June. The FHFA Index tracks only the prices of houses that were sold or refinanced, while the Case-Shiller incorporates statistical techniques to measure the prices of all houses.

House price indexes registered big monthly increases in the spring and summer, but this is unlikely to last: The 30-year fixed mortgage rate rose back above 7% in mid-August according to Freddie Mae's weekly survey, as financial markets price in re-

duced risk of a recession beginning near-term as well as increased expectations of the Fed raising interest rates another quarter percent by the end of 2023. Also, a big wave of multifamily construction is on track to come to market in 2024, which will increase housing supply and likely spur landlords to offer incentives on new leases.

The housing market was a big driver of the surge in inflation in 2021, 2022 and early 2023, but house price increases are likely to be much slower in 2024, and rents for new leases will likely be down modestly. These shelter costs carry big weights in the core CPI and PCE price baskets, and will contribute to lower core inflation next year. Comerica forecasts for this to set the stage for the Fed to end the current rate hike cycle in the second half of 2023, and pivot to gradual rate cuts in the first half of 2024.

At the same time, tight supplies of existing homes mean further price declines are unlikely. That bolsters household balance sheets, consumer confidence, and consumer spending. In early 2023, Comerica's forecasts projected for house prices to continue to decline through the end of this year, but that was apparently too pessimistic. The earlier-than-expected stabilization of house prices is a big reason why the risk of a recession seems smaller now than it did at the start of 2023.

Bill Adams & Waran Bhahirethan (Comerica Bank)

July Existing Home Sales: There's A Bottom Down There . . . Somewhere

Total existing home sales fell to an annualized rate of 4.070 million units in July, just a bit short of our below-consensus forecast of 4.090 million units. On a not seasonally adjusted basis, there were 372,000 existing homes sold in July, below the 382,000 sales our forecast anticipated. Keep in mind that existing homes are booked at closing, so July closings would mostly reflect sales contracts signed from late-May through June. In other words, the July data on existing home sales reflect some, but by no means all, of the recent run-up in mortgage interest rates, effects that will be felt more fully in the August data. In addition to higher mortgage interest rates, lack of inventory also weighed on July sales, and while this is an old story, literally years old, it has been given a new twist by higher mortgage interest rates making current owners less inclined to trade up into a mortgage interest rate significantly higher than their existing rate. Turnover of the existing housing stock has for years been abnormally low, mainly reflecting demographic shifts, and is now even lower thanks to higher mortgage interest rates. This has helped steer prospective buyers to the market for new homes, but that there is still considerable pent-up demand for home purchases is evidenced by already low times on market being pushed lower while prices are once again being pushed higher, with the median existing home sales price up 1.9 percent year-on-year, ending a run of five straight months of over-the-year declines. At July's sales rate, inventories of existing homes for sale were equivalent to 3.3 months of sales, far short of the 5.5-to-6.0 months indicative of a balanced market.

As noted above, there were 372,000 existing homes sold in July on a not seasonally adjusted basis, down 14.1 percent from June. While July is a month in which unadjusted sales typically decline, this year's July decline is far larger than is typical for the month. On an over-the-year basis, unadjusted sales were down 18.1 percent in July, marking the twentieth straight month in which sales were down on an over-the-year basis. This is reflected in the ongoing decline in the running twelve-month sum of not seasonally adjusted sales which, as of July, stands at 4.334 million units, the lowest such total since March 2012. On a year-todate basis through July, sales are down 22.3 percent nationally, with declines of 27.2 percent in the West region, 25.2 percent in the Northeast, 21.1 percent in the Midwest, and 20.1 percent in the South. Recall that the Northeast and West are the regions in which prices are the highest and in which inventory constraints have been more pressing.

Inventories of existing homes for sale rose to 1.110 million units in July, up 3.7 percent from June, and while that is larger than the typical July increase (the NAR inventory data are not seasonally adjusted), it comes after an atypical decline in June and nonetheless leaves inventories down 14.6 percent year-on-year. While the months supply metric has ticked higher over the past few months after having slipped to 2.6 months during the first quarter of 2023, this recent move higher is more a reflection of the declining sales rate than of any meaningful improvement in physical supplies.

That there is still pent-up demand for home purchases is seen in how little time homes are spending on the market once listed. NAR reports that seventy-four percent of homes sold in July were on the market less than a month before going under contract. While the median days on market metric rose to twenty days in July from eighteen days in June, that still leaves it well below pre-pandemic norms. Mounting frustrations over limited inventories have steered increasing numbers of prospective buyers to the market for new homes, where many builders have been able to use rate buydowns as a means of facilitating sales. Whether, or to what extent, that practice continues with mortgage rates now back over seven percent remains to be seen. Higher mortgage rates are no impediment to all-cash buyers, many but not all of whom are investors. All-cash sales accounted for twenty-six percent of all existing home sales in July and thus far in 2023 have accounted for twenty-seven percent of all sales, up from 25.5 percent of all sales in 2022. Though many have been surprised that house prices have not fallen sharply as higher mortgage rates have risen, we've maintained that limited inventories coupled with pent-up demand would mitigate downward pressures on prices. While that of course could change, it is unlikely to change any time soon.

Richard F. Moody (Regions Financial Corporation)

Germany: Leader to Laggard

The eurozone economy bounced back from a winter recession in the second quarter, with real gross domestic product (GDP) growing 0.3% quarter over quarter. But the headline number masks weakness in major economies, particularly in Germany.

After a decade of robust economic performance, Germany entered the pandemic with poor momentum and has struggled to regain its stride. The German economy was among the last in Europe to return to pre-COVID output levels. Germany is the only nation among the world's seven most advanced economies (G7) that slipped into recession at the start of the year. Going by the Bundesbank's estimates, the picture isn't going to change in the third quarter. In fact, the International Monetary Fund predicts Germany will be the only G7 economy to contract in 2023.

The current economic stagnation is drawing comparisons with the troubles of the late 1990s, when the nation was dubbed "the sick man of Europe." Deutschland may be falling ill again, but its challenges are very different today. Stubborn unemployment was one the major problems facing the economy in the aftermath of unification. Today, jobs are plentiful, with companies facing labor shortages. The German jobless rate stands at 3.0%, well below the eurozone's 6.4%.

Germany is struggling because its industries are faltering. The local Purchasing Managers' Index for manufacturing is languishing below 40 (any reading under 50 indicates contraction). Production in energy-intensive factories is down 17% since the start of last year. Automobiles have been Germany's main export for some time, but even that sector is struggling amid stiff competition from China. All of this does not bode well for an economy where manufacturing contributes about one-fifth of GDP, almost double the percentage seen in the U.S., the U.K. and France.

The disruption caused by the Ukraine war, higher interest rates and supply chain realignment are all hampering German industries. The country's export-oriented growth model is facing challenges not just from rising geopolitical strife, but also from a slowdown in its largest trading partner, China.

Energy prices are not in crisis anymore, but elevated gas and electricity costs are still a factor. Germany is one of the most energy-efficient countries in the continent but the Energiewende (or green transition) could prove to be painful for an economy which uses nearly twice as much energy as the second largest consumer in Europe.

The German state and industries not only appear to be illprepared for the energy challenge, but some misguided policies are in place. With inexpensive Russian gas no longer an option, sunsetting nuclear power could prove to be a costly decision. Power grids are suffering from a lack of investment that could make them more efficient.

Hopes that services will underpin the economy are vanishing, with the sector set to join the recession in manufacturing. Higher inflation remains a source of pain for consumers. Rising interest rates are weighing on activities like construction, which rely heavily on borrowing.

Not so long ago, Germany was the prime mover of the eurozone economy, accounting for almost 30% of the currency union's output. The former juggernaut is now dragging the entire bloc down.

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Special Questions:

1. What do yo	u think will be the peak fed	eral funds rate ta	rget (midp	oint of range	e) in the curren	t tightening	cycle?	<u>5.44%</u>	
2. When will t	he first fed funds rate cut o Output Output	ccur? <u>Q1 2024</u> 44%	<u>Q2 2</u> 0 319		<u>Q3 2024</u> 19%		<u>ater</u> 0%		
3. a. What is	your estimate of the long-to	erm neutral fed fu	nds rate?	<u>2.74</u>	<u>4%</u>				
b. Since be	efore the pandemic, has it:	increased	69%	decreased	0% <u>rema</u>	ined the san	<u>ne</u> 31%		
4. What do yo	u think are the three most in	mportant factors l	pehind the	recent persi	stent rise in US	longer-term	n interest ra	ates?	
	The resilient US economy Expectations that fed funds Large and increasing Federal Continued elevated US core The Fed's ongoing quantitat Recent reductions in Japane	government deficit inflation ive tightening					Count 27 21 16 12 6 5		
	Other	oc una Cimiese noic	ang or ob	government	<u></u>		2		
5. What proba	bility do you attach to a rec	eession beginning <u>US</u> <u>euro area</u> <u>UK</u>	over the r	next 12 mon	ths in the: 49% 53% 56%				
6. Does the we	eakening of China's econor	ny pose meaningf	ful risks to	the outlook	for global grov	vth? Yes	90%	<u>No</u>	10%
	eadline US PCE price indecess. What do you expect the		-		which excludes	food and en	ergy prices	s, has slow	ved
	<u>Dec 2022</u>	2/Dec 2023 3.5	5%	<u>Dec 20</u>	023/Dec 2024	2.4%			
8. What is you	or US unemployment rate for	precast for:							
		December 2023 June 2024 December 2024			3.8% 4.3% 4.5%				
9. What do yo	u think has been the major	factor behind the	decline in	US inflation	n over the past	year?			
	-	supply chains ergy prices				3% 5%			

Tighter monetary policy

16%

Databank:

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	0.3	0.7	••••				
Auto & Light Truck Sales (b)	15.95	14.92	14.92	16.05	15.05	15.66	15.74					
Personal Income (a, current \$)	0.7	0.4	0.4	0.3	0.4	0.3	0.2					
Personal Consumption (a, current \$)	1.9	0.3	0.1	0.6	0.2	0.6	0.8	• • • •				••••
Consumer Credit (e)	5.2	2.8	4.8	5.4	2.3	4.3		• • • •				••••
Consumer Sentiment (U. of Mich.)	64.9	67.0	62.0	63.5	59.2	64.4	71.6	69.5				••••
Household Employment (c)	894	177	577	139	-310	273	268	• • • •				••••
Nonfarm Payroll Employment (c)	472	248	217	217	281	185	187	• • • •				••••
Unemployment Rate (%)	3.4	3.6	3.5	3.4	3.7	3.6	3.5	••••	• • • •	• • • • •	• • • •	••••
Average Hourly Earnings (All, cur. \$)	33.0	33.1	33.2	33.3	33.5	33.6	33.7	• • • •				••••
Average Workweek (All, hrs.)	34.6	34.5	34.4	34.4	34.3	34.4	34.3	••••	• • • •	• • • • •	• • • •	••••
Industrial Production (d)	1.5	0.9	0.2	0.3	0.0	-0.8	-0.2					••••
Capacity Utilization (%)	79.6	79.5	79.5	79.8	79.4	78.6	79.3	• • • •				••••
ISM Manufacturing Index (g)	47.4	47.7	46.3	47.1	46.9	46.0	46.4	• • • •				••••
ISM Nonmanufacturing Index (g)	55.2	55.1	51.2	51.9	50.3	53.9	52.7					
Housing Starts (b)	1.340	1.436	1.380	1.348	1.583	1.398	1.452	• • • •				••••
Housing Permits (b)	1.354	1.482	1.437	1.417	1.496	1.441	1.443					••••
New Home Sales (1-family, c)	649	625	640	679	704	684	714	• • • •				••••
Construction Expenditures (a)	2.2	0.4	0.6	0.3	1.1	0.5	••••					••••
Consumer Price Index (nsa, d)	6.4	6.0	5.0	4.9	4.0	3.0	3.2	• • • •				••••
CPI ex. Food and Energy (nsa, d)	5.6	5.5	5.6	5.5	5.3	4.8	4.7					••••
PCE Chain Price Index (d)	5.4	5.0	4.2	4.3	3.8	3.0	3.3					••••
Core PCE Chain Price Index (d)	4.7	4.7	4.6	4.6	4.5	4.1	4.2	• • • •				••••
Producer Price Index (nsa, d)	5.7	4.7	2.7	2.2	1.1	0.2	0.8	• • • •				••••
Durable Goods Orders (a)	-1.3	-2.7	3.3	1.2	2.0	4.4	-5.2	• • • •				••••
Leading Economic Indicators (a)	-0.5	-0.5	-1.2	-0.6	-0.7	-0.7	-0.4					••••
Balance of Trade & Services (f)	-70.2	-70.2	-60.6	-74.4	-68.3	-65.5		• • • •				••••
Federal Funds Rate (%)	4.33	4.57	4.65	4.83	5.06	5.08	5.12	••••				••••
3-Mo. Treasury Bill Rate (%)	4.69	4.79	4.86	5.07	5.31	5.42	5.49	••••	• • • •	• • • •	••••	••••
10-Year Treasury Note Yield (%)	3.53	3.75	3.66	3.46	3.57	3.75	3.90		••••	••••	••••	••••

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3.5	41.1					

.3 -0.7
13.37
.2 0.2
.2 0.0
.1 4.8
.8 59.7
66 717
00 239
.6 3.5
.8 32.9
.5 34.4
.9 0.6
.3 78.9
.0 48.4
.5 49.2
27 1.357
1.409
636
.6 -0.1
.1 6.5
.0 5.7
.8 4.6
.4 6.4
.1 4.5
.9 -0.7
.8 -71.4
8 4.10
4.36
3.62
-1. 4.3 0. -0. 8. 56. -6 29 3. 32. 34. 1. 80. 49. 55. .42 .40 .55. .42 .40 .55. .42 .40 .55. .40 .55. .40 .55. .40 .55. .40 .40 .55. .40 .55. .40 .40 .40 .40 .40 .40 .40 .40 .40 .4

(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	
September 4 LABOR DAY ALL MARKETS CLOSED	5 Manufacturers' Shipments, Inventories & Orders (Jul) BEA Auto & Truck Sales (Aug)	6 International Trade (Jul) ISM Services PMI (Aug) S&P Global Services PMI (Aug) QFR (Q2) Kansas City Fed Labor Market Conditions Indicators (Aug)	7 Productivity & Costs (Q2) QSS (Q2) Public Debt (Aug) Interest Expense on the Public Debt (Aug) EIA Crude Oil Stocks	Wholesale Trade (Jul) Treasury Auction Allotments (Aug) Consumer Credit (Jul) Financial Accounts (Q2) Housing Affordability (Jul)	
11	12 ECEC (Q2) Manpower Survey (Q4) NFIB (Aug) Kansas City Financial Stress Index (Aug) OPEC Crude Oil Spot Prices (Aug)	Mortgage Applications 13 CPI & Real Earnings (Aug) Cleveland Fed Median CPI (Aug) Monthly Treasury Statement (Aug) EIA Crude Oil Stocks Mortgage Applications	Meekly Jobless Claims 14 Advance Retail Sales (Aug) Producer Prices (Aug) MTIS (Jul) Transportation Services Index (Jul) Weekly Jobless Claims	If Import & Export Prices (Aug) IP & Capacity Utilization (Aug) Consumer Sentiment (Sep, Preliminary) Empire State Mfg Survey (Sep)	
18 Business Leaders Survey (Sep) Home Builders (Sep) TIC Data (Jul)	19 New Residential Construction (Aug) FOMC Meeting	20 EIA Crude Oil Stocks Mortgage Applications FOMC Meeting	21 International Transactions (Q2) Existing Home Sales (Aug) Philadelphia Fed Mfg Business Outlook Survey (Sep) Composite Indexes (Aug) Weekly Jobless Claims	Treasury Auction Allotments FRB Philadelphia Coincident Economic Activity Index (Aug) S&P Global Flash PMIs (Sep)	
25 Chicago Fed National Activity Index (Aug) Texas Manufacturing Outlook Survey (Sep)	26 FHFA & Case-Shiller HPI (Jul) New Residential Sales (Aug) Consumer Confidence (Sep) H.6 Money Stock (Aug) Final Building Permits (Aug) Philly Fed Nonmfg (Sep) Richmond Fed Mfg and Service Sector (Sep) Texas Service Sector (Sep) Steel Imports (Aug)	27 Advance Durable Goods (Aug) International Investment Position (Q2) EIA Crude Oil Stocks Mortgage Applications	28 GDP (Q2, 3rd Estimate & Rev) Kansas City Fed Manufacturing Survey (Sep) Pending Home Sales (Aug) Weekly Jobless Claims	Dallas Fed TrimMean PCE(Aug) Adv Trade & Inventories (Aug) Personal Income (Aug & Rev) Underlying NIPA Tables (Q2, 3 rd Est & Rev) Agricultural Prices (Aug) Strike Report (Sep) Chicago PMI (Sep) Consumer Sentiment(Sep, Final)	
October 2 Construction (Aug) ISM Manufacturing (Sep) S&P Global Mfg PMI (Sep) Dallas Fed Banking Conditions Survey (Aug)	3 JOLTS (Aug)	4 ADP Employment Report (Sep) Manufacturers' Shipments, Inventories & Orders (Aug) ISM Services PMI (Sep) S&P Global Services PMI (Sep) BEA Auto & Truck Sales (Sep) EIA Crude Oil Stocks Mortgage Applications	5 International Trade (Aug) Public Debt (Sep) Challenger Employment Report (Sep) Weekly Jobless Claims	6 Employment Situation (Sep) Consumer Credit (Aug) Baker Hughes International Rig Count (Sep)	
9 NABE Outlook (Q3) COLUMBUS DAY BOND MARKET CLOSED	10 Wholesale Trade (Aug) NFIB (Sep)	Producer Prices (Sep) Kansas City Fed Labor Market Conditions Indicators (Sep) Kansas City Financial Stress Index (Sep) Mortgage Applications	12 CPI (Sep) Real Earnings (Sep) Transportation Services Index (Aug) Cleveland Fed Median CPI(Sep) Monthly Treasury (Sep) CEO Confidence Survey (Q4) EIA Crude Oil Stocks Weekly Jobless Claims	13 Import & Export Prices (Sep) Consumer Sentiment (Oct, Preliminary)	

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