



SURVEY OF PROFESSIONAL FORECASTERS

Release Date: November 15, 2024

FOURTH QUARTER 2024

Forecasters Predict Higher Near-Term Growth

The near-term outlook for the U.S. economy looks better now than it did three months ago, according to 33 forecasters surveyed by the Federal Reserve Bank of Philadelphia. The forecasters predict the economy will expand at an annual rate of 2.2 percent this quarter and 1.9 percent in the first quarter of 2025, up from the predictions of 1.7 percent in the last survey. On an annual-average over annual-average basis, the forecasters expect real GDP to increase 2.7 percent in 2024 and 2.2 percent in 2025.

The forecasters see little change in the outlook for the unemployment rate from the survey of three months ago. On an annual-average basis, the forecasters expect the unemployment rate will increase from 4.0 percent in 2024 to 4.3 percent in 2025, and then decrease to 4.1 percent in 2027. These projections are within 0.1 percentage point of the projections from the last survey.

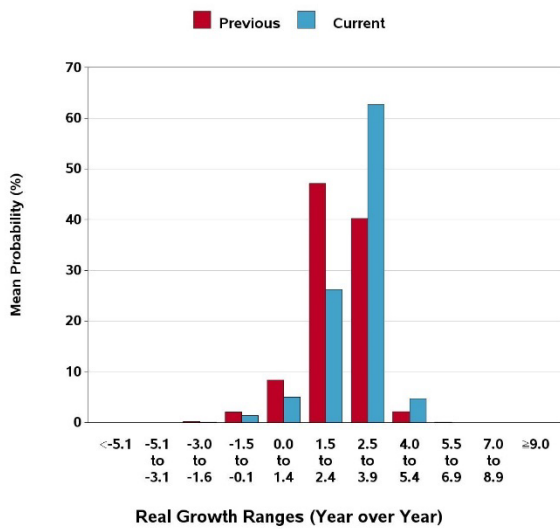
On the employment front, the forecasters also predict little change in job gains for 2024 and 2025. The projections for the annual-average level of nonfarm payroll employment imply job gains at a monthly rate of 208,400 in 2024 and 134,100 in 2025. (These annual-average projections are computed as the year-to-year change in the annual-average level of nonfarm payroll employment, converted to a monthly rate.)

Median Forecasts for Selected Variables in the Current and Previous Surveys

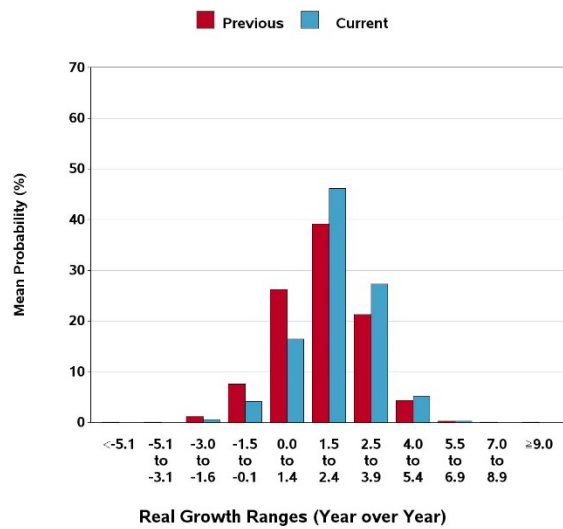
	Real GDP (%)		Unemployment Rate (%)		Payrolls (000s/month)	
	Previous	New	Previous	New	Previous	New
Quarterly data:						
2024:Q4	1.7	2.2	4.3	4.2	125.4	138.8
2025:Q1	1.7	1.9	4.3	4.2	128.7	123.7
2025:Q2	1.8	1.8	4.3	4.3	116.2	117.2
2025:Q3	2.2	2.2	4.3	4.2	145.8	114.2
2025:Q4	N.A.	2.0	N.A.	4.3	N.A.	128.2
Annual data (projections are based on annual-average levels):						
2024	2.6	2.7	4.1	4.0	210.1	208.4
2025	1.9	2.2	4.3	4.3	130.0	134.1
2026	2.3	2.1	4.2	4.2	N.A.	N.A.
2027	2.0	2.1	4.2	4.1	N.A.	N.A.

The charts below provide some insight into the degree of uncertainty the forecasters have about their projections for the rate of growth in the annual-average level of real GDP. Each chart presents the forecasters' previous and current estimates of the probability that growth will fall into each of 11 ranges. For 2024, the forecasters are increasing their probability estimates from the previous survey for real GDP growth in the range of 2.5 percent to 3.9 percent. Over each of the following three years, from 2025 to 2027, the forecasters are increasing their probability estimates from the survey of three months ago for real GDP growth in the range of 1.5 percent to 2.4 percent.

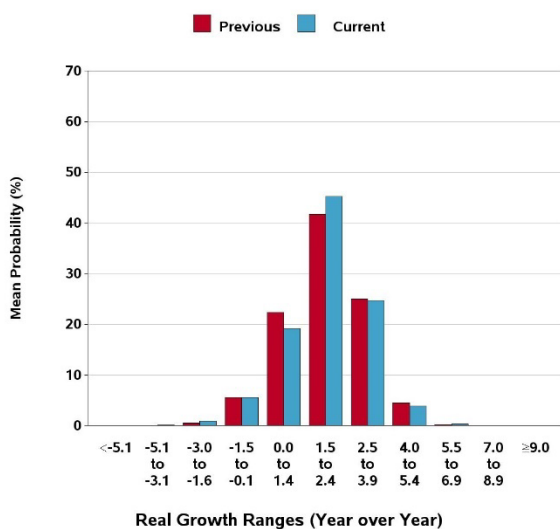
Mean Probabilities for Real GDP Growth in 2024



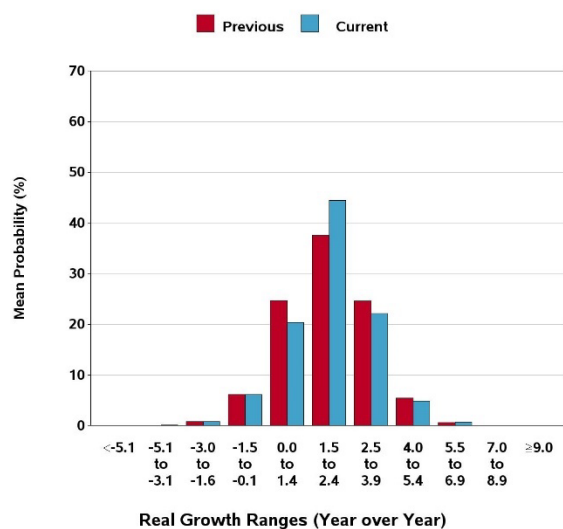
Mean Probabilities for Real GDP Growth in 2025



Mean Probabilities for Real GDP Growth in 2026

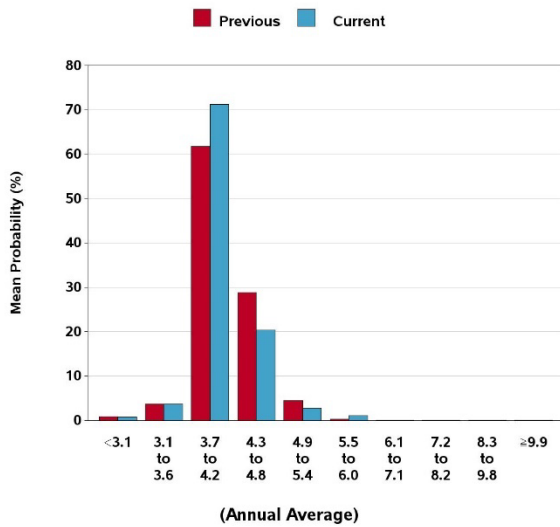


Mean Probabilities for Real GDP Growth in 2027

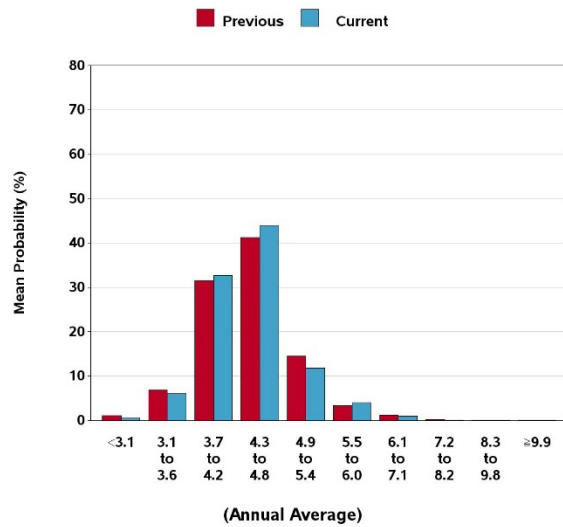


The forecasters' density projections for unemployment, shown below, shed light on uncertainty about the labor market over the next four years. Each chart presents the forecasters' current and previous estimates of the probability that unemployment will fall into each of 10 ranges. For 2024, the forecasters are raising their probability estimates from the previous survey for an unemployment rate in the range of 3.7 percent to 4.2 percent. Over each of the following three years, from 2025 to 2027, the forecasters are increasing their probability estimates from the survey of three months ago for an unemployment rate in the range of 4.3 percent to 4.8 percent.

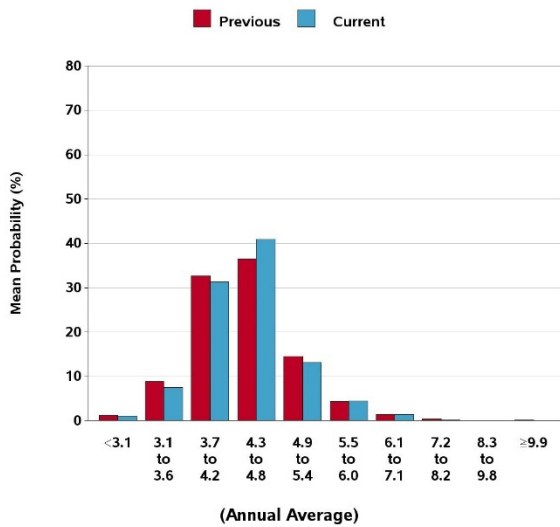
Mean Probabilities for Unemployment Rate in 2024



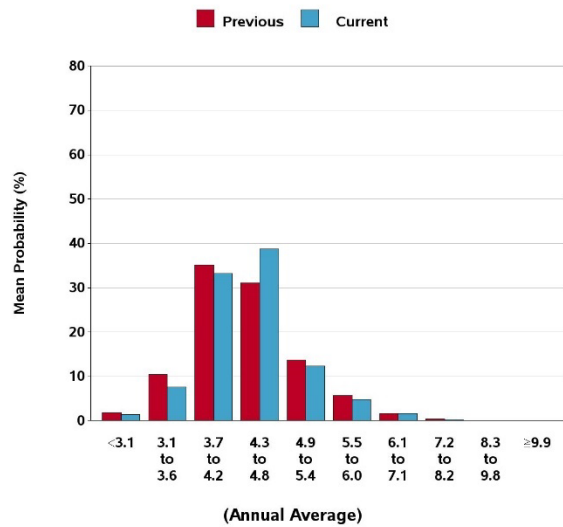
Mean Probabilities for Unemployment Rate in 2025



Mean Probabilities for Unemployment Rate in 2026



Mean Probabilities for Unemployment Rate in 2027



Forecasters Lower Their Near-Term Projections for Headline Inflation

The forecasters expect current-quarter headline CPI inflation will average 2.2 percent at an annual rate, down from their prediction of 2.5 percent in the previous survey. Headline PCE inflation over the current quarter will also be slightly lower at an annual rate of 2.0 percent. The prediction for current-quarter core CPI inflation of 2.9 percent, on the other hand, is higher than that of the previous estimate of 2.6 percent.

Projections for headline and core CPI and PCE inflation in 2025 and 2026 are little changed compared with those of the previous survey.

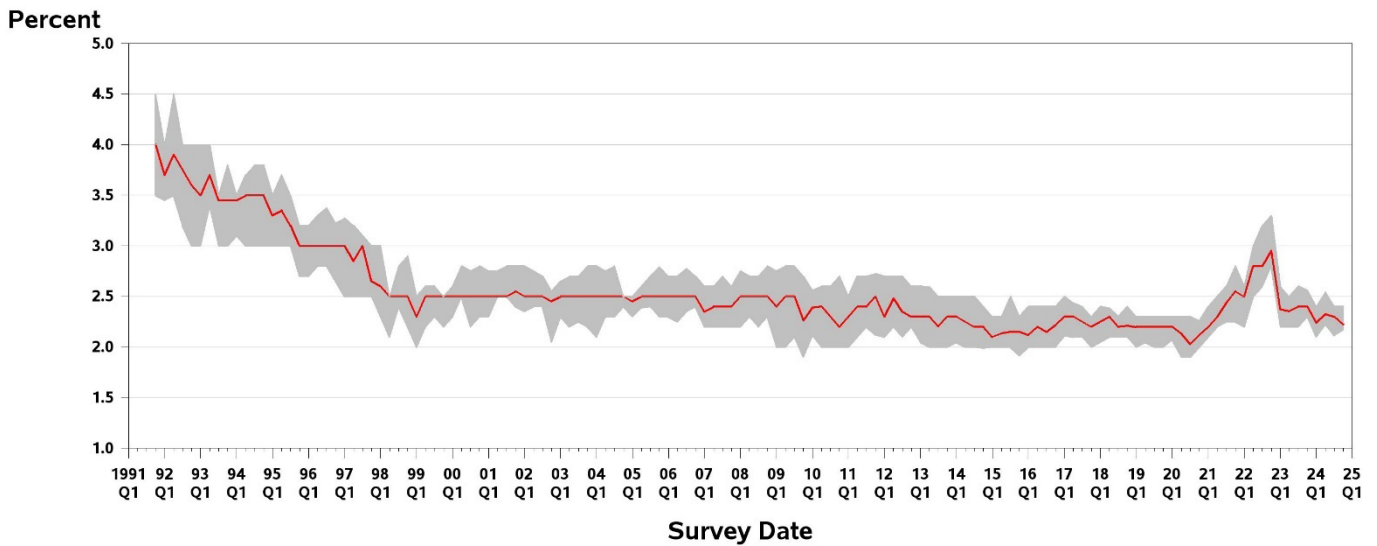
Over the next 10 years, 2024 to 2033, the forecasters expect headline CPI inflation to average 2.23 percent at an annual rate, slightly lower than the estimate of 2.30 percent from the previous survey. The corresponding estimate for 10-year annual-average PCE inflation is 2.10 percent, unchanged from the previous prediction.

Median Short-Run and Long-Run Projections for Inflation (Annualized Percentage Points)

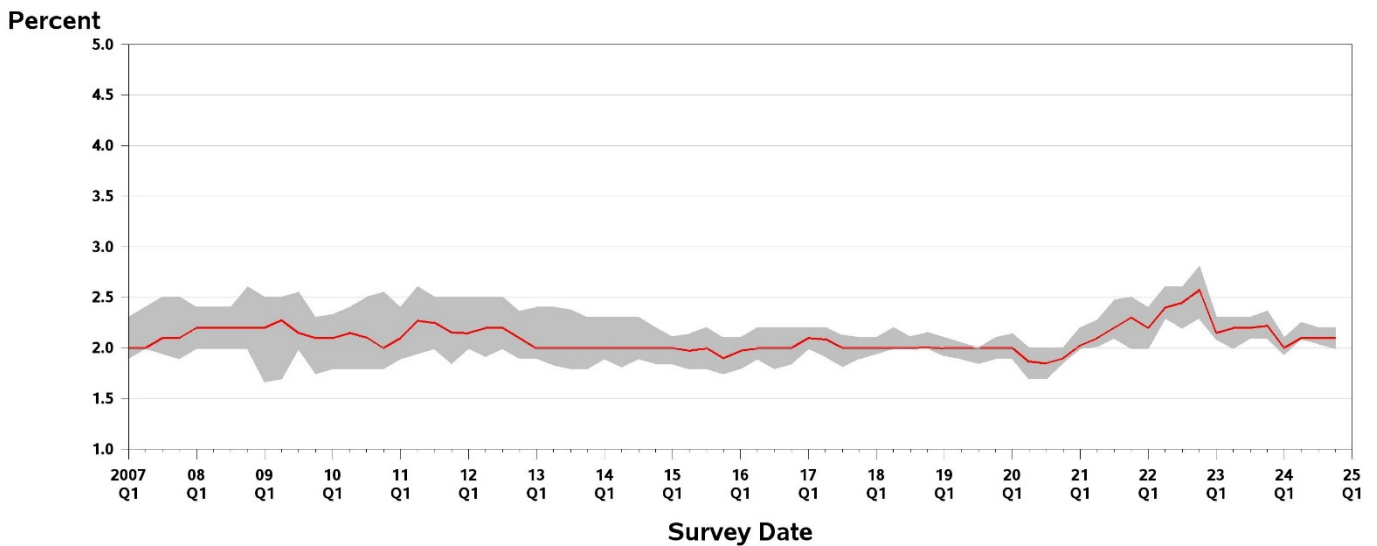
	Headline CPI		Core CPI		Headline PCE		Core PCE	
	Previous	Current	Previous	Current	Previous	Current	Previous	Current
Quarterly								
2024:Q4	2.5	2.2	2.6	2.9	2.1	2.0	2.3	2.3
2025:Q1	2.4	2.3	2.4	2.5	2.2	2.2	2.3	2.3
2025:Q2	2.4	2.4	2.4	2.5	2.2	2.2	2.2	2.2
2025:Q3	2.3	2.2	2.4	2.3	2.1	2.1	2.1	2.1
2025:Q4	N.A.	2.3	N.A.	2.4	N.A.	2.1	N.A.	2.1
Q4/Q4 Annual Averages								
2024	2.8	2.5	3.2	3.1	2.6	2.4	2.8	2.7
2025	2.3	2.4	2.4	2.4	2.1	2.2	2.2	2.2
2026	2.2	2.3	2.3	2.4	2.1	2.1	2.0	2.1
Long-Term Annual Averages								
2024-2028	2.40	2.40	N.A.	N.A.	2.20	2.20	N.A.	N.A.
2024-2033	2.30	2.23	N.A.	N.A.	2.10	2.10	N.A.	N.A.

The charts below show the median projections (the red line) and the associated interquartile ranges (gray areas around the red line) for 10-year annual-average CPI and PCE inflation. The charts provide historical perspective on the current survey's lower projection for 10-year CPI inflation and the unchanged projection for 10-year PCE inflation.

Projections for the 10-Year Annual-Average Rate of CPI Inflation (Median and Interquartile Range)

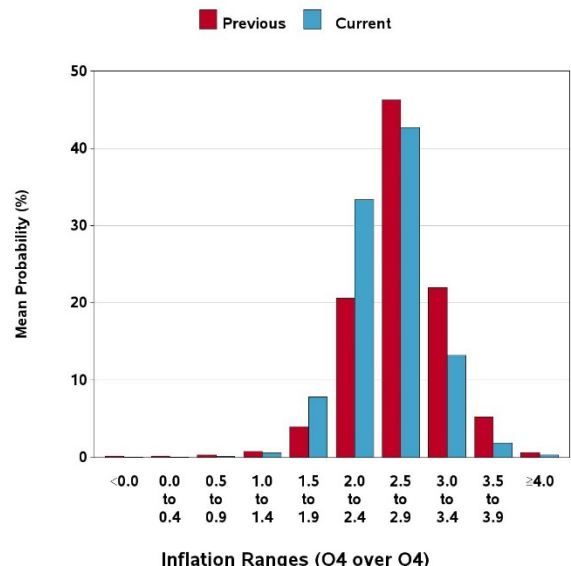


Projections for the 10-Year Annual-Average Rate of PCE Inflation (Median and Interquartile Range)

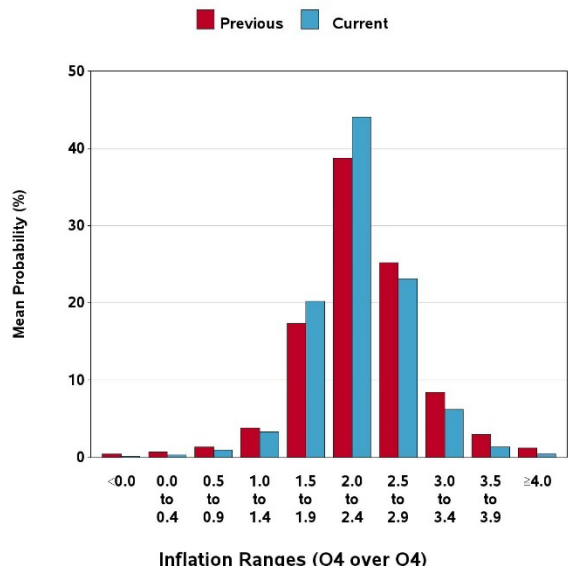


The figures below show the probabilities that the forecasters are assigning to each of 10 possible ranges for fourth-quarter over fourth-quarter core PCE inflation in 2024 and 2025. Notably, the panelists have raised their predictions for the probability that core PCE inflation in 2024 and 2025 will be in the range of 1.5 percent to 2.4 percent, compared with their estimates in the last survey.

Mean Probabilities for Core PCE Inflation in 2024



Mean Probabilities for Core PCE Inflation in 2025



Lower Risk of Negative Quarter-over-Quarter Growth in 2025

The forecasters see the likelihood of a downturn in real GDP this quarter at 8.9 percent, down from the previous estimate of 21.0 percent. They have also lowered their probability estimates for negative growth for the following three quarters, compared with their previous estimates.

*Risk of a Negative Quarter (%)
Survey Means*

Quarterly data:	Previous	New
2024:Q4	21.0	8.9
2025:Q1	27.3	15.0
2025:Q2	27.6	19.7
2025:Q3	25.0	22.4
2025:Q4	N.A.	23.3

Technical Notes

Moody's Aaa and Baa Historical Rates

The historical values of Moody's Aaa and Baa rates are proprietary and, therefore, not available in the data files on the Bank's website or on the tables that accompany the survey's complete write-up in the PDF.

The Federal Reserve Bank of Philadelphia thanks the following forecasters for their participation in recent surveys:

William Adams, Comerica Bank; **Ed Al-Hussainy** and **Alexander Spitz**, Columbia Threadneedle Investments; **Scott Anderson** and **Doug Porter**, BMO Capital Markets; **Robert J. Barbera**, Johns Hopkins University Center for Financial Economics; **Peter Bernstein**, RCF Economic and Financial Consulting, Inc.; **Wayne Best** and **Michael Brown**, Visa, Inc.; **Jay Bryson**, Wells Fargo; **Seth Carpenter**, Morgan Stanley; **Christine Chmura, Ph.D.**, and **Xiaobing Shuai, Ph.D.**, Chmura Economics & Analytics; **Gary Ciminero, CFA**, GLC Financial Economics; **Grant Collins**, AIM Research, LLC; **Rajeev Dhawan**, Georgia State University; **Bill Diviney**, ABN AMRO Bank NV; **Gabriel Ehrlich**, **Daniil Manaenkov**, and **Yinuo Zhang**, RSQE, University of Michigan; **Michael R. Englund**, Action Economics, LLC; **Michael Feroli**, J.P. Morgan; **Tani Fukui** and **Shan Ahmed**, MetLife Investment Management; **Sacha Gelfer**, Bentley University; **James Glassman**, Independent Economist; **Jan Hatzius**, Goldman Sachs; **Ben Herzon** and **Patrick Newport**, S&P Global Market Intelligence; **Steve Kihm**, Citizens Utility Board of Wisconsin; **Yaniv Konchitchki**, University of California, Berkeley; **Thomas Lam**, Independent Economist (Singapore); **Matthew Luzzetti**, Deutsche Bank; **Brian Martin**, Australia New Zealand Bank (ANZ); **Robert McNab**, Old Dominion University; **R. Anthony Metz**, Pareto Optimal Economics, LLC; **R. M. Monaco**, TitanRM; **Joel L. Naroff**, Naroff Economics, LLC; **Nomura Securities International**; **Brendon Ogmundson**, BC Real Estate Association; **Panos N. Patatoukas**, U.C. Berkeley, Haas School of Business; **Perc Pineda, Ph.D.**, Plastics Industry Association; **Jason Prole**, Capital Risk Management; **Michael Roberts**, **Dan Roberts**, and **Jeffrey Baldwin**, Roberts Capital Advisors, LLC; **Parker Ross**, Arch Capital Group; **Philip Rothman**, East Carolina University; **Allen Sinai** and **Anqi Liu**, Decision Economics, Inc.; **Sean Snaith**, University of Central Florida; **Stephen Stanley**, Santander US Capital Markets; **Charles Steindel**, Editor, NABE *Business Economics*; **Susan M. Sterne**, Economic Analysis Associates, Inc.; **Edward Sullivan**, Portland Cement Association; **Patrick P. Sullivan**, Sullivan Economic Consulting, LLC; **Ryan Sweet**, Oxford Economics USA, Inc.; **Jordan Vickers** and **Maira Trimble**, Eaton Corporation; **Gary Wagner**, University of Louisiana at Lafayette; **Lawrence Werther**, Daiwa Capital Markets America; **Mark Zandi**, Moody's Analytics.

This is a partial list of participants. We also thank those who wish to remain anonymous.

SUMMARY TABLE
SURVEY OF PROFESSIONAL FORECASTERS
MAJOR MACROECONOMIC INDICATORS

	2024 Q4	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2024	2025 (YEAR-OVER-YEAR)	2026	2027
PERCENT GROWTH AT ANNUAL RATES									
1. REAL GDP (BILLIONS, CHAIN WEIGHTED)	2.2	1.9	1.8	2.2	2.0	2.7	2.2	2.1	2.1
2. GDP PRICE INDEX (PERCENT CHANGE)	2.0	2.2	2.2	2.3	2.3	2.4	2.2	N.A.	N.A.
3. NOMINAL GDP (\$ BILLIONS)	4.3	4.3	4.3	4.2	4.1	5.2	4.4	N.A.	N.A.
4. NONFARM PAYROLL EMPLOYMENT (PERCENT CHANGE) (AVG MONTHLY CHANGE)	1.1 138.8	0.9 123.7	0.9 117.2	0.9 114.2	1.0 128.2	1.6 208.4	1.0 134.1	N.A. N.A.	N.A. N.A.
VARIABLES IN LEVELS									
5. UNEMPLOYMENT RATE (PERCENT)	4.2	4.2	4.3	4.2	4.3	4.0	4.3	4.2	4.1
6. 3-MONTH TREASURY BILL (PERCENT)	4.5	4.2	4.0	3.7	3.4	5.0	3.8	3.4	2.8
7. 10-YEAR TREASURY BOND (PERCENT)	4.2	4.1	4.0	3.9	3.8	4.2	4.0	3.8	3.7
	2024 Q4	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2024	2025 (Q4-OVER-Q4)	2026	
INFLATION INDICATORS									
8. CPI (ANNUAL RATE)	2.2	2.3	2.4	2.2	2.3	2.5	2.4	2.3	
9. CORE CPI (ANNUAL RATE)	2.9	2.5	2.5	2.3	2.4	3.1	2.4	2.4	
10. PCE (ANNUAL RATE)	2.0	2.2	2.2	2.1	2.1	2.4	2.2	2.1	
11. CORE PCE (ANNUAL RATE)	2.3	2.3	2.2	2.1	2.1	2.7	2.2	2.1	

Note: The figures on each line are medians of 33 forecasters.

Source: Research Department, Federal Reserve Bank of Philadelphia.
Survey of Professional Forecasters, Fourth Quarter 2024.

SURVEY OF PROFESSIONAL FORECASTERS

Fourth Quarter 2024

Tables

Note: Data in these tables listed as "actual" are the data that were available to the forecasters when they were sent the survey questionnaire on October 30, 2024; the tables do not reflect subsequent revisions to the data. All forecasts were received on or before November 11, 2024.

TABLE ONE
MAJOR MACROECONOMIC INDICATORS
MEDIAN OF FORECASTER PREDICTIONS

	NUMBER OF FORECASTERS	ACTUAL		FORECAST				ACTUAL		FORECAST		
		2024 Q3	2024 Q4	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2023 ANNUAL	2024 ANNUAL	2025 ANNUAL	2026 ANNUAL	2027 ANNUAL
1. GROSS DOMESTIC PRODUCT (GDP) (\$ BILLIONS)	28	29350	29663	29977	30292	30608	30918	27721	29162	30452	N.A.	N.A.
2. GDP PRICE INDEX (2017=100)	29	125.51	126.14	126.82	127.50	128.22	128.93	122.27	125.19	127.89	N.A.	N.A.
3. CORPORATE PROFITS AFTER TAXES (\$ BILLIONS)	18	N.A.	3178.3	3184.2	3227.6	3208.1	3255.0	2921.8	3129.0	3215.7	N.A.	N.A.
4. UNEMPLOYMENT RATE (PERCENT)	32	4.2	4.2	4.2	4.3	4.2	4.3	3.6	4.0	4.3	4.2	4.1
5. NONFARM PAYROLL EMPLOYMENT (THOUSANDS)	24	158883	159235	159606	159957	160300	160684	156066	158567	160176	N.A.	N.A.
6. INDUSTRIAL PRODUCTION (2017=100)	23	102.7	102.8	103.2	103.6	104.0	104.5	102.9	102.7	103.9	N.A.	N.A.
7. NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	28	1.33	1.35	1.37	1.40	1.42	1.43	1.42	1.35	1.41	N.A.	N.A.
8. 3-MONTH TREASURY BILL RATE (PERCENT)	19	4.99	4.48	4.24	4.00	3.72	3.42	5.07	4.99	3.84	3.36	2.82
9. MOODY'S AAA CORP BOND YIELD * (PERCENT)	17	N.A.	5.07	4.92	4.84	4.80	4.80	N.A.	5.04	4.83	N.A.	N.A.
10. MOODY'S BAA CORP BOND YIELD * (PERCENT)	16	N.A.	5.80	5.74	5.66	5.69	5.66	N.A.	5.76	5.71	N.A.	N.A.
11. 10-YEAR TREASURY BOND YIELD (PERCENT)	29	3.95	4.18	4.07	4.00	3.90	3.80	3.96	4.18	3.95	3.77	3.70
12. REAL GDP (BILLIONS, CHAIN WEIGHTED)	32	23386	23512	23625	23728	23859	23977	22671	23291	23796	24305	24822
13. TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	27	16111.7	16212.5	16293.9	16370.9	16468.2	16537.3	15621.7	16038.2	16421.0	N.A.	N.A.
14. NONRESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	24	3532.8	3555.4	3577.6	3601.8	3626.8	3651.9	3384.6	3515.9	3614.3	N.A.	N.A.
15. RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	24	784.7	785.1	787.2	793.6	801.1	808.0	762.7	791.5	798.8	N.A.	N.A.
16. FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	25	1522.8	1526.6	1531.1	1535.0	1543.5	1546.9	1466.1	1502.3	1537.6	N.A.	N.A.
17. STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	25	2441.9	2453.8	2462.0	2467.5	2474.2	2481.0	2345.1	2434.4	2471.2	N.A.	N.A.
18. CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	24	60.2	61.1	60.2	60.0	61.4	63.0	33.1	52.7	61.3	N.A.	N.A.
19. NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	25	-1077.1	-1093.1	-1110.3	-1119.0	-1130.0	-1143.0	-932.8	-1045.7	-1123.7	N.A.	N.A.

* The historical values of Moody's Aaa and Baa rates are proprietary and therefore not available to the general public.

Source: Research Department, Federal Reserve Bank of Philadelphia. Survey of Professional Forecasters, Fourth Quarter 2024.

TABLE TWO
MAJOR MACROECONOMIC INDICATORS
PERCENTAGE CHANGES AT ANNUAL RATES

	NUMBER OF FORECASTERS	Q3 2024	Q4 2024	Q1 2025	Q2 2025	Q3 2025	2023	2024	2025	2026
		TO Q4 2024	TO Q1 2025	TO Q2 2025	TO Q3 2025	TO Q4 2025	TO 2024	TO 2025	TO 2026	TO 2027
1. GROSS DOMESTIC PRODUCT (GDP) (\$ BILLIONS)	28	4.3	4.3	4.3	4.2	4.1	5.2	4.4	N.A.	N.A.
2. GDP PRICE INDEX (2017=100)	29	2.0	2.2	2.2	2.3	2.3	2.4	2.2	N.A.	N.A.
3. CORPORATE PROFITS AFTER TAXES (\$ BILLIONS)	18	2.8	0.7	5.6	-2.4	6.0	7.1	2.8	N.A.	N.A.
4. UNEMPLOYMENT RATE (PERCENT)	32	0.0	0.0	0.1	-0.0	0.0	0.4	0.2	-0.1	-0.1
5. NONFARM PAYROLL EMPLOYMENT (PERCENT CHANGE)	24	1.1	0.9	0.9	0.9	1.0	1.6	1.0	N.A.	N.A.
(AVG MONTHLY CHANGE)	24	138.8	123.7	117.2	114.2	128.2	208.4	134.1	N.A.	N.A.
6. INDUSTRIAL PRODUCTION (2017=100)	23	0.6	1.4	1.4	1.7	1.8	-0.2	1.2	N.A.	N.A.
7. NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	28	6.4	6.8	9.4	5.1	2.6	-4.7	4.1	N.A.	N.A.
8. 3-MONTH TREASURY BILL RATE (PERCENT)	19	-0.51	-0.25	-0.24	-0.28	-0.30	-0.08	-1.15	-0.48	-0.53
9. MOODY'S AAA CORP BOND YIELD * (PERCENT)	17	N.A.	-0.15	-0.08	-0.04	0.00	N.A.	-0.21	N.A.	N.A.
10. MOODY'S BAA CORP BOND YIELD * (PERCENT)	16	N.A.	-0.06	-0.08	0.04	-0.03	N.A.	-0.06	N.A.	N.A.
11. 10-YEAR TREASURY BOND YIELD (PERCENT)	29	0.23	-0.11	-0.07	-0.10	-0.10	0.22	-0.23	-0.18	-0.07
12. REAL GDP (BILLIONS, CHAIN WEIGHTED)	32	2.2	1.9	1.8	2.2	2.0	2.7	2.2	2.1	2.1
13. TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	27	2.5	2.0	1.9	2.4	1.7	2.7	2.4	N.A.	N.A.
14. NONRESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	24	2.6	2.5	2.7	2.8	2.8	3.9	2.8	N.A.	N.A.
15. RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	24	0.2	1.0	3.3	3.8	3.5	3.8	0.9	N.A.	N.A.
16. FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	25	1.0	1.2	1.0	2.2	0.9	2.5	2.3	N.A.	N.A.
17. STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	25	2.0	1.3	0.9	1.1	1.1	3.8	1.5	N.A.	N.A.
18. CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	24	0.9	-0.9	-0.2	1.4	1.6	19.6	8.6	N.A.	N.A.
19. NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	25	-16.0	-17.2	-8.7	-10.9	-13.1	-112.9	-78.0	N.A.	N.A.

* The historical values of Moody's Aaa and Baa rates are proprietary and therefore not available to the general public.

Note: Figures for unemployment rate, 3-month Treasury bill rate, Moody's Aaa corporate bond yield, Moody's Baa corporate bond yield, and 10-year Treasury bond yield are changes in these rates, in percentage points. Figures for change in private inventories and net exports are changes in billions of chain-weighted dollars. All others are percentage changes at annual rates.

Source: Research Department, Federal Reserve Bank of Philadelphia. Survey of Professional Forecasters, Fourth Quarter 2024.

TABLE THREE
 MAJOR PRICE INDICATORS
 MEDIANS OF FORECASTER PREDICTIONS

	NUMBER OF FORECASTERS	ACTUAL		FORECAST (Q/Q)				ACTUAL	FORECAST (Q4/Q4)		
		2024 Q3	2024 Q4	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2023 ANNUAL	2024 ANNUAL	2025 ANNUAL	2026 ANNUAL
1. CONSUMER PRICE INDEX (ANNUAL RATE)	30	1.2	2.2	2.3	2.4	2.2	2.3	3.2	2.5	2.4	2.3
2. CORE CONSUMER PRICE INDEX (ANNUAL RATE)	30	2.2	2.9	2.5	2.5	2.3	2.4	4.0	3.1	2.4	2.4
3. PCE PRICE INDEX (ANNUAL RATE)	29	1.5	2.0	2.2	2.2	2.1	2.1	2.8	2.4	2.2	2.1
4. CORE PCE PRICE INDEX (ANNUAL RATE)	29	2.2	2.3	2.3	2.2	2.1	2.1	3.2	2.7	2.2	2.1

Source: Research Department, Federal Reserve Bank of Philadelphia. Survey of Professional Forecasters, Fourth Quarter 2024.

TABLE FOUR
YIELD SPREADS
MEDIANS OF FORECASTER PREDICTIONS

	NUMBER OF FORECASTERS	ACTUAL		FORECAST				ACTUAL		FORECAST		
		2024 Q3	2024 Q4	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2023 ANNUAL	2024 ANNUAL	2025 ANNUAL	2026 ANNUAL	2027 ANNUAL
1. TBOND MINUS TBILL (PERCENTAGE POINTS)	16	-1.04	-0.41	-0.16	0.00	0.20	0.37	-1.11	-0.83	0.10	0.67	0.69
2. AAA MINUS TBOND (PERCENTAGE POINTS)	17	N.A.	0.88	0.90	0.90	0.98	0.97	N.A.	0.85	0.90	N.A.	N.A.
3. BAA MINUS TBOND (PERCENTAGE POINTS)	16	N.A.	1.56	1.62	1.72	1.80	1.81	N.A.	1.57	1.73	N.A.	N.A.
4. BAA MINUS AAA (PERCENTAGE POINTS)	16	N.A.	0.70	0.73	0.80	0.85	0.85	N.A.	0.73	0.80	N.A.	N.A.

Notes:

TBOND is the rate on 10-year Treasury bonds.
TBILL is the rate on 3-month Treasury bills.
AAA is the rate on Moody's Aaa corporate bonds.
BAA is the rate on Moody's Baa corporate bonds.

The historical values for interest rate spreads for Moody's Aaa and Baa rates are proprietary and therefore not available to the general public.

Each interest rate spread is computed as the median value of the forecasters' spreads. These median values may differ from those computed as the difference between the median values of each interest rate in the spread.

Source: Research Department, Federal Reserve Bank of Philadelphia. Survey of Professional Forecasters, Fourth Quarter 2024.

TABLE FIVE
ESTIMATED PROBABILITY OF DECLINE IN REAL GDP

ESTIMATED PROBABILITY (CHANCES IN 100)	Q3 2024	Q4 2024	Q1 2025	Q2 2025	Q3 2025
	TO Q4 2024	TO Q1 2025	TO Q2 2025	TO Q3 2025	TO Q4 2025
NUMBER OF FORECASTERS					
10 OR LESS	18	11	4	5	4
11 TO 20	7	11	13	12	12
21 TO 30	2	4	8	7	7
31 TO 40	0	1	1	1	2
41 TO 50	0	0	1	2	1
51 TO 60	0	0	0	0	1
61 TO 70	0	0	0	0	0
71 TO 80	0	0	0	0	0
81 TO 90	0	0	0	0	0
91 AND OVER	0	0	0	0	0
NOT REPORTING	6	6	6	6	6
MEAN AND MEDIAN					
MEDIAN PROBABILITY	5.00	15.00	18.00	20.00	20.00
MEAN PROBABILITY	8.91	14.95	19.69	22.42	23.27

Note: Total number of forecasters reporting is 27.

Source: Research Department, Federal Reserve Bank of Philadelphia.
Survey of Professional Forecasters, Fourth Quarter 2024.

TABLE SIX
MEAN PROBABILITIES

MEAN PROBABILITY ATTACHED TO POSSIBLE
CIVILIAN UNEMPLOYMENT RATES:
(ANNUAL AVERAGE)

	2024	2025	2026	2027
9.9 PERCENT OR MORE	0.02	0.02	0.02	0.00
8.3 TO 9.8 PERCENT	0.02	0.02	0.02	0.06
7.2 TO 8.2 PERCENT	0.02	0.04	0.16	0.28
6.1 TO 7.1 PERCENT	0.02	0.96	1.41	1.59
5.5 TO 6.0 PERCENT	1.08	3.98	4.46	4.85
4.9 TO 5.4 PERCENT	2.81	11.82	13.18	12.35
4.3 TO 4.8 PERCENT	20.38	43.91	40.89	38.75
3.7 TO 4.2 PERCENT	71.27	32.69	31.28	33.17
3.1 TO 3.6 PERCENT	3.65	6.02	7.48	7.59
LESS THAN 3.1 PERCENT	0.73	0.55	1.10	1.36

MEAN PROBABILITY ATTACHED TO POSSIBLE
PERCENT CHANGES IN REAL GDP:
(ANNUAL-AVERAGE OVER ANNUAL-AVERAGE)

	2023-2024	2024-2025	2025-2026	2026-2027
9.0 PERCENT OR MORE	0.00	0.00	0.00	0.00
7.0 TO 8.9 PERCENT	0.00	0.00	0.00	0.06
5.5 TO 6.9 PERCENT	0.00	0.21	0.34	0.73
4.0 TO 5.4 PERCENT	4.73	5.17	3.88	4.87
2.5 TO 3.9 PERCENT	62.69	27.33	24.71	22.19
1.5 TO 2.4 PERCENT	26.19	46.10	45.28	44.49
0.0 TO 1.4 PERCENT	5.00	16.48	19.18	20.41
-1.5 TO -0.1 PERCENT	1.31	4.14	5.56	6.17
-3.0 TO -1.6 PERCENT	0.08	0.58	0.92	0.89
-5.1 TO -3.1 PERCENT	0.00	0.00	0.13	0.19
LESS THAN -5.1 PERCENT	0.00	0.00	0.00	0.00

MEAN PROBABILITY ATTACHED TO POSSIBLE
PERCENT CHANGES IN GDP PRICE INDEX:
(ANNUAL-AVERAGE OVER ANNUAL-AVERAGE)

	2023-2024	2024-2025
4.0 PERCENT OR MORE	0.29	1.02
3.5 TO 3.9 PERCENT	0.63	2.13
3.0 TO 3.4 PERCENT	5.58	8.30
2.5 TO 2.9 PERCENT	38.72	24.48
2.0 TO 2.4 PERCENT	44.24	38.94
1.5 TO 1.9 PERCENT	8.13	18.58
1.0 TO 1.4 PERCENT	1.75	4.63
0.5 TO 0.9 PERCENT	0.58	1.53
0.0 TO 0.4 PERCENT	0.04	0.25
LESS THAN 0.0 PERCENT	0.04	0.15

Source: Research Department, Federal Reserve Bank of Philadelphia.
Survey of Professional Forecasters, Fourth Quarter 2024.

TABLE SEVEN
 MEAN PROBABILITY OF CORE CPI AND CORE PCE INFLATION (Q4/Q4)

MEAN PROBABILITY ATTACHED TO CORE CPI INFLATION:

	23Q4 TO 24Q4	24Q4 TO 25Q4
4.0 PERCENT OR MORE	1.44	1.28
3.5 TO 3.9 PERCENT	11.40	3.05
3.0 TO 3.4 PERCENT	31.59	11.86
2.5 TO 2.9 PERCENT	25.05	29.54
2.0 TO 2.4 PERCENT	23.32	35.01
1.5 TO 1.9 PERCENT	6.48	15.64
1.0 TO 1.4 PERCENT	0.60	2.31
0.5 TO 0.9 PERCENT	0.04	0.71
0.0 TO 0.4 PERCENT	0.04	0.41
LESS THAN 0.0 PERCENT	0.04	0.20

MEAN PROBABILITY ATTACHED TO CORE PCE INFLATION:

	23Q4 TO 24Q4	24Q4 TO 25Q4
4.0 PERCENT OR MORE	0.32	0.43
3.5 TO 3.9 PERCENT	1.88	1.36
3.0 TO 3.4 PERCENT	13.21	6.22
2.5 TO 2.9 PERCENT	42.72	23.10
2.0 TO 2.4 PERCENT	33.35	44.05
1.5 TO 1.9 PERCENT	7.80	20.20
1.0 TO 1.4 PERCENT	0.56	3.26
0.5 TO 0.9 PERCENT	0.08	0.94
0.0 TO 0.4 PERCENT	0.04	0.32
LESS THAN 0.0 PERCENT	0.04	0.13

Source: Research Department, Federal Reserve Bank of Philadelphia.
 Survey of Professional Forecasters, Fourth Quarter 2024.

TABLE EIGHT
LONG-TERM (5-YEAR AND 10-YEAR) INFLATION FORECASTS

ANNUAL AVERAGE OVER THE NEXT 5 YEARS: 2024-2028
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CPI INFLATION RATE	PCE INFLATION RATE		
-----	-----		
MINIMUM	2.09	MINIMUM	1.79
LOWER QUARTILE	2.20	LOWER QUARTILE	2.10
MEDIAN	2.40	MEDIAN	2.20
UPPER QUARTILE	2.50	UPPER QUARTILE	2.30
MAXIMUM	3.00	MAXIMUM	2.60
MEAN	2.38	MEAN	2.20
STD. DEVIATION	0.21	STD. DEVIATION	0.17
N	26	N	25
MISSING	7	MISSING	8

ANNUAL AVERAGE OVER THE FOLLOWING 5 YEARS: 2029-2033
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CPI INFLATION RATE	PCE INFLATION RATE		
-----	-----		
MINIMUM	1.80	MINIMUM	1.75
LOWER QUARTILE	2.00	LOWER QUARTILE	1.90
MEDIAN	2.13	MEDIAN	2.00
UPPER QUARTILE	2.37	UPPER QUARTILE	2.10
MAXIMUM	2.60	MAXIMUM	2.97
MEAN	2.17	MEAN	2.06
STD. DEVIATION	0.22	STD. DEVIATION	0.26
N	26	N	25
MISSING	7	MISSING	8

ANNUAL AVERAGE OVER THE NEXT 10 YEARS: 2024-2033
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CPI INFLATION RATE	PCE INFLATION RATE		
-----	-----		
MINIMUM	2.00	MINIMUM	1.77
LOWER QUARTILE	2.17	LOWER QUARTILE	2.00
MEDIAN	2.23	MEDIAN	2.10
UPPER QUARTILE	2.40	UPPER QUARTILE	2.20
MAXIMUM	2.75	MAXIMUM	2.60
MEAN	2.27	MEAN	2.13
STD. DEVIATION	0.19	STD. DEVIATION	0.18
N	26	N	25
MISSING	7	MISSING	8

Note: The summary statistics for each forecast horizon are computed on a sample of panelists that may differ from one horizon to the next. The usual identity linking the 10-year horizon to the two underlying five-year horizons may not hold in the results.

Source: Research Department, Federal Reserve Bank of Philadelphia.
Survey of Professional Forecasters, Fourth Quarter 2024.