SURVEY OF PROFESSIONAL FORECASTERS

SECOND QUARTER 2024

Forecasters Predict Higher Near-Term Growth and Job Gains
The near-term outlook for the U.S. economy looks better now than it did three months ago, according to 34 forecasters surveyed by the Federal Reserve Bank of Philadelphia. The forecasters predict the economy will expand at an annual rate of 2.1 percent this quarter and 2.0 percent next quarter, up from the predictions of 1.5 percent in the last survey. On an annual-average over annual-average basis, the forecasters expect real GDP to grow at an annual rate of 2.5 percent in 2024 and 1.9 percent in 2025. These annual projections are 0.1 percentage point higher than the previous estimates of three months ago.

The projections for the unemployment rate are nearly unchanged from those of the previous survey. On an annual-average basis, the forecasters predict the unemployment rate will increase from 3.9 percent in 2024 to 4.1 percent in 2027.

On the employment front, the forecasters see job gains in the current quarter at a rate of 200,000 per month. The employment projections for the current quarter and the following three quarters show upward revisions from those of the previous survey. The projections for the annual-average level of nonfarm payroll employment suggest job gains at a monthly rate of 212,600 in 2024 and 140,600 in 2025. Both projections are higher than their respective previous estimates. (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:Q2	1.5	2.1	3.9	3.9	119.8	200.0
2024:Q3	1.5	2.0	4.0	4.0	114.6	147.3
2024:Q4	1.7	1.5	4.0	4.0	122.4	129.7
2025:Q1	1.8	1.8	4.1	4.1	133.5	144.2
2025:Q2	N.A.	2.0	N.A.	4.1	N.A.	108.7
Annual data (projections are based on annual-average levels):						
2024	2.4	2.5	3.9	3.9	190.0	212.6
2025	1.8	1.9	4.1	4.1	111.7	140.6
2026	2.2	1.9	4.1	4.1	N.A.	N.A.
2027	1.7	2.1	4.0	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' current estimates of the probability that growth will fall into each of 11 ranges. (Note that beginning with this survey, we made changes to the definition of the probability bins for real GDP growth over the next four years. Comparisons with the results of the previous survey are not possible.)

Notably, in each of the next four years, the forecasters predict year-over-year real GDP growth will most likely be in the range of 1.5 percent to 2.4 percent.

Mean Probabilities for Real GDP Growth in 2024
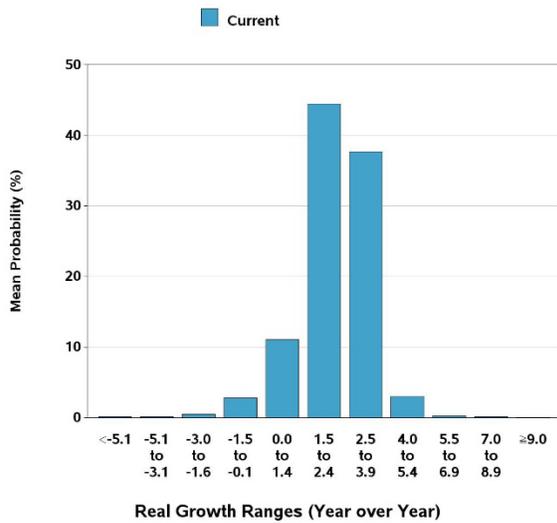
Mean Probabilities for Real GDP Growth in 2025
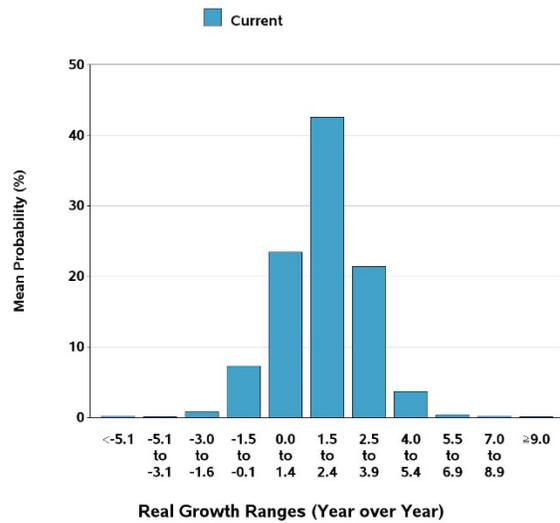
Mean Probabilities for Real GDP Growth in 2026
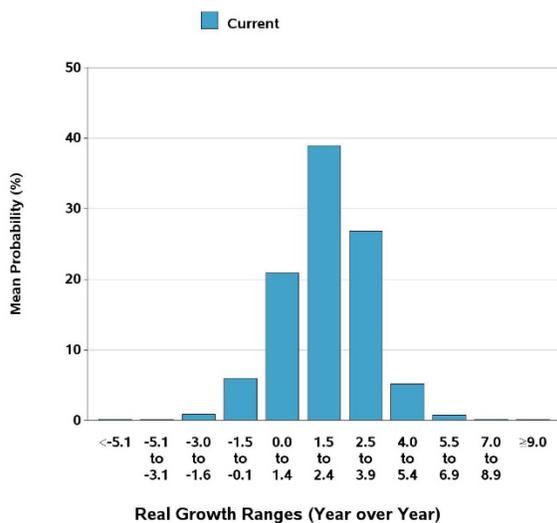
**Mean Probabilities for Real GDP Growth in 2027**
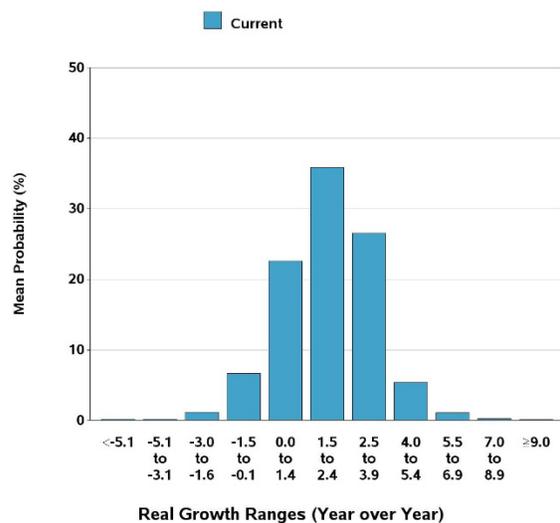
The forecasters' density projections for unemployment, shown below, shed light on uncertainty about the labor market over the next four years. Each chart presents the forecasters' current estimates of the probability that unemployment will fall into each of 10 ranges. (Note that beginning with this survey, we made changes to the definition of the probability bins for the unemployment rate over the next four years. Comparisons with the results of the previous survey are not possible.)

The forecasters predict the unemployment rate will most likely be in the range of 3.7 percent to 4.2 percent in each of the next four years.

Mean Probabilities for Unemployment Rate in 2024
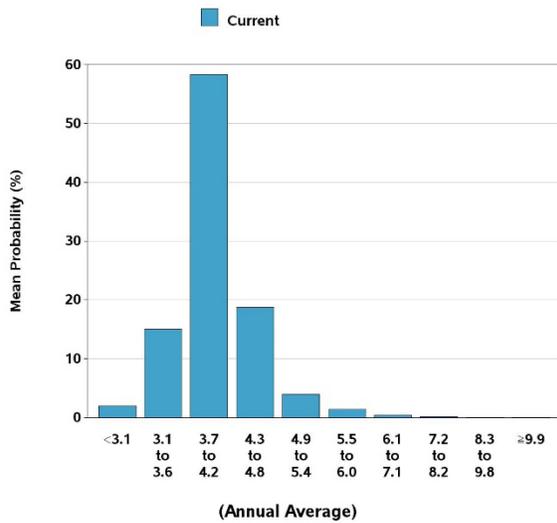
Mean Probabilities for Unemployment Rate in 2025
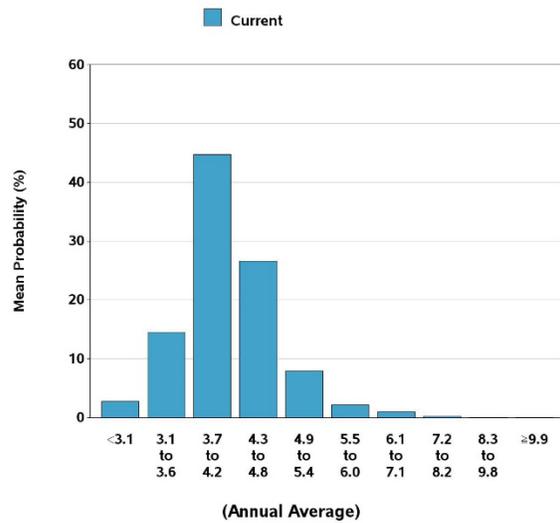
Mean Probabilities for Unemployment Rate in 2026
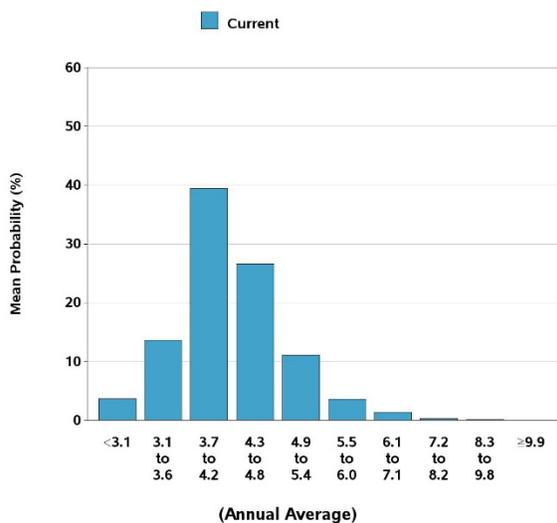
Mean Probabilities for Unemployment Rate in 2027
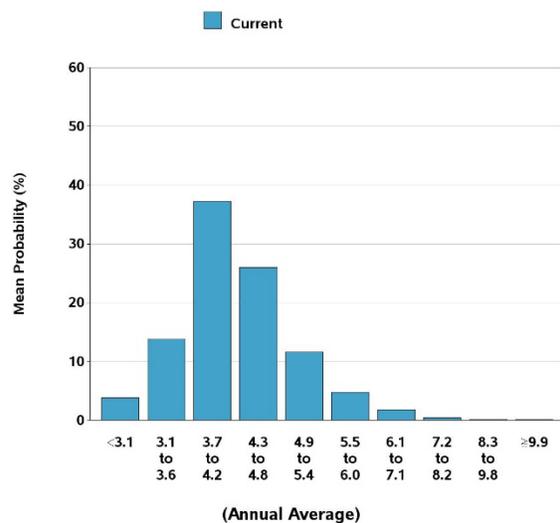
Upward Revisions to the Projections for Inflation

The forecasters expect current-quarter headline CPI inflation will average 3.4 percent at an annual rate, up from the prediction of 2.5 percent in the previous survey. Headline PCE inflation over the current quarter will also be higher at an annual rate of 3.1 percent, up from the previous estimate of 2.1 percent. The predictions for current-quarter core CPI and core PCE inflation are also higher than those of the previous survey.

The forecasters predict higher inflation at nearly all other forecast horizons for both the headline and core measures of CPI and PCE inflation, compared with their previous estimates of three months ago.

Over the next 10 years, 2024 to 2033, the forecasters predict headline CPI inflation will be an annual-average rate of 2.33 percent. The corresponding estimate for 10-year annual-average PCE inflation is 2.10 percent. These 10-year projections are 0.09 percentage point and 0.10 percentage point higher than those of the previous survey.

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:Q2	2.5	3.4	2.7	3.5	2.1	3.1	2.1	3.0
2024:Q3	2.4	2.8	2.6	3.0	2.1	2.4	2.1	2.5
2024:Q4	2.4	2.5	2.4	2.7	2.1	2.2	2.1	2.4
2025:Q1	2.3	2.4	2.4	2.7	2.0	2.2	2.1	2.4
2025:Q2	N.A.	2.3	N.A.	2.5	N.A.	2.1	N.A.	2.3
Q4/Q4 Annual Averages								
2024	2.5	3.1	2.7	3.4	2.1	2.8	2.1	2.9
2025	2.2	2.4	2.3	2.5	2.0	2.2	2.0	2.2
2026	2.3	2.3	2.3	2.4	2.0	2.1	2.0	2.1
Long-Term Annual Averages								
2024-2028	2.30	2.50	N.A.	N.A.	2.05	2.21	N.A.	N.A.
2024-2033	2.24	2.33	N.A.	N.A.	2.00	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 marginally higher 10-year inflation expectations in the current survey.

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

Percent

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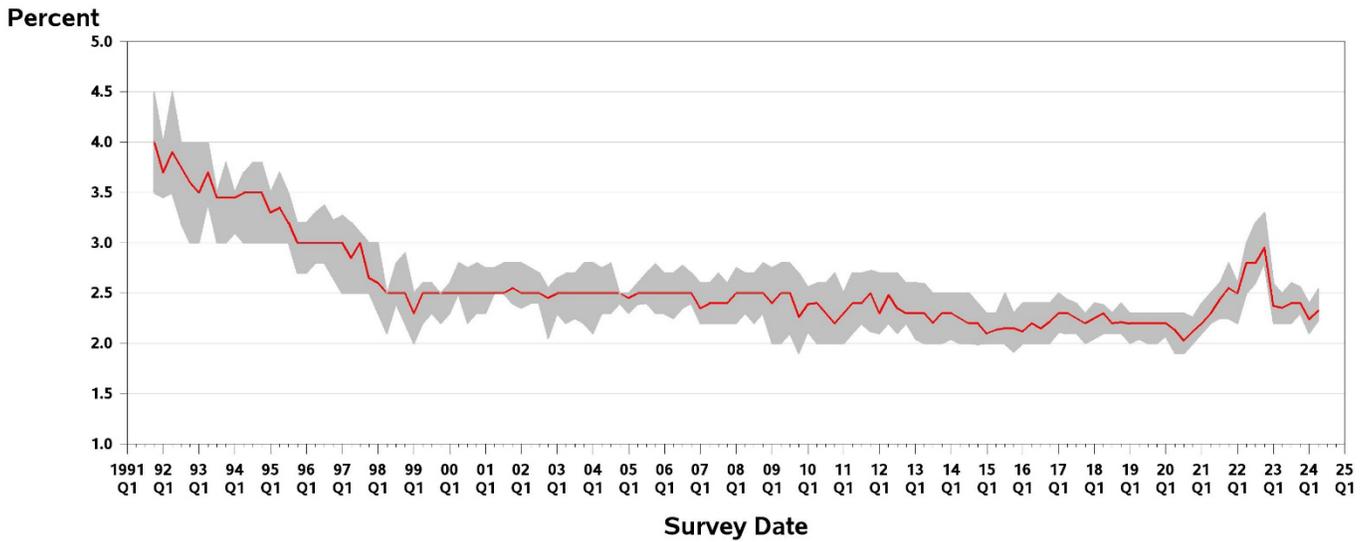
Projections for the 10-Year Annual-Average Rate of PCE Inflation
(Median and Interquartile Range)

Percent

Survey Date

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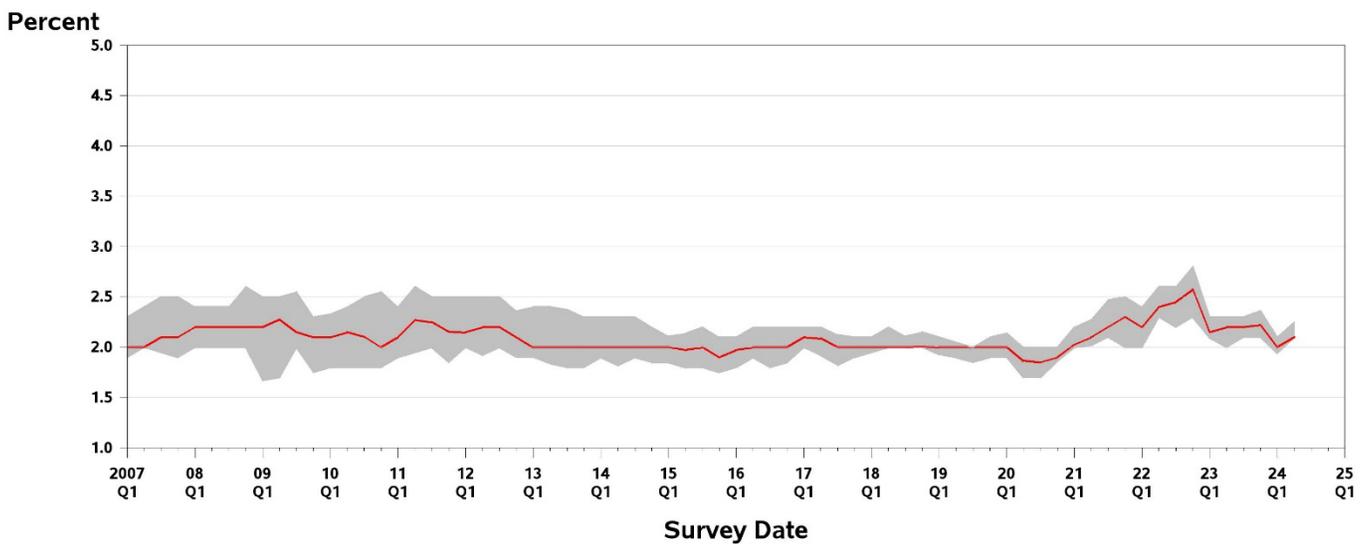
The figures below show the probabilities that the forecasters are assigning to each of 10 possible ranges for fourth-quarter over fourth-quarter core PCE inflation in 2024 and 2025. For both years, the forecasters have noticeably raised their estimates for the probability that core PCE inflation will be 2.5 percent or higher, compared with their predictions in the previous survey.
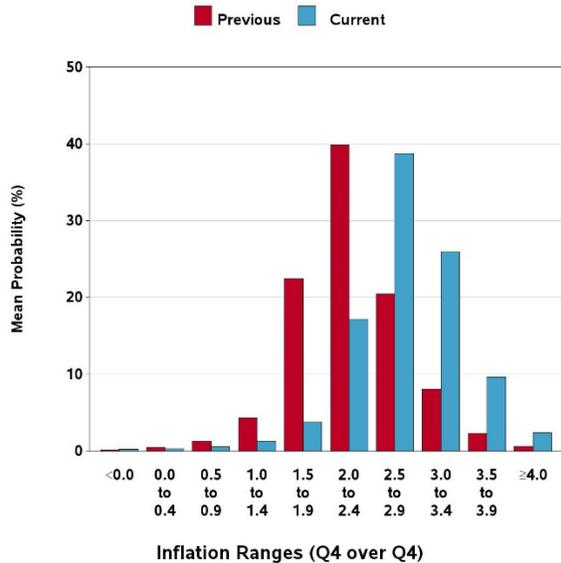
Mean Probabilities for Core PCE Inflation in 2024   **Mean Probabilities for Core PCE Inflation in 2025**
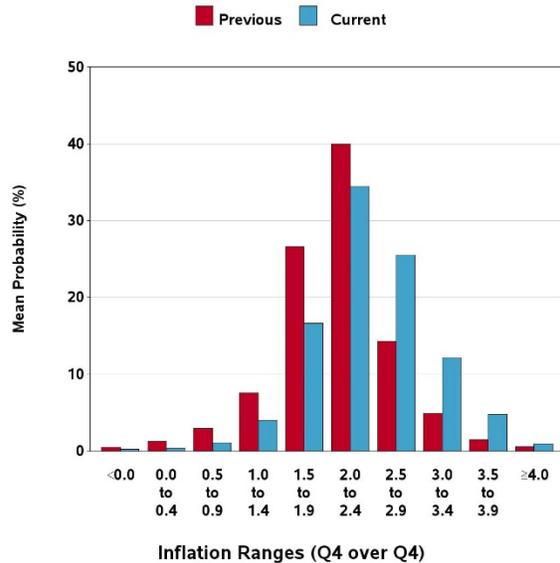
Lower Risk of Negative Quarter-over-Quarter Growth in 2024
The forecasters see the risk of a downturn in real GDP this quarter at 14.4 percent, down from the previous estimate of 23.9 percent. They have also lowered their probability estimates for negative growth for the last two quarters in 2024, compared with their previous estimates.

Risk of a Negative Quarter (%)
Survey Means

Quarterly data:	Previous	New
2024:Q2	23.9	14.4
2024:Q3	25.6	18.7
2024:Q4	25.6	22.5
2025:Q1	25.2	25.6
2025:Q2	N.A.	25.6

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                          SUMMARY TABLE
                 SURVEY OF PROFESSIONAL FORECASTERS
                  MAJOR MACROECONOMIC INDICATORS
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	2024 Q2	2024 Q3	2024 Q4	2025 Q1	2025 Q2	2024	2025	2026	2027
						(YEAR-OVER-YEAR)			

PERCENT GROWTH AT ANNUAL RATES

	2024 Q2	2024 Q3	2024 Q4	2025 Q1	2025 Q2	2024	2025	2026	2027
1. REAL GDP (BILLIONS, CHAIN WEIGHTED)	2.1	2.0	1.5	1.8	2.0	2.5	1.9	1.9	2.1
2. GDP PRICE INDEX (PERCENT CHANGE)	2.9	2.5	2.2	1.9	2.1	2.6	2.1	N.A.	N.A.
3. NOMINAL GDP ($ BILLIONS)	4.9	4.5	4.0	4.1	4.0	5.2	4.2	N.A.	N.A.
4. NONFARM PAYROLL EMPLOYMENT (PERCENT CHANGE)	1.5	1.1	1.0	1.1	0.8	1.6	1.1	N.A.	N.A.
(AVG MONTHLY CHANGE)	200.0	147.3	129.7	144.2	108.7	212.6	140.6	N.A.	N.A.

VARIABLES IN LEVELS

	2024 Q2	2024 Q3	2024 Q4	2025 Q1	2025 Q2	2024	2025	2026	2027
5. UNEMPLOYMENT RATE (PERCENT)	3.9	4.0	4.0	4.1	4.1	3.9	4.1	4.1	4.1
6. 3-MONTH TREASURY BILL (PERCENT)	5.3	5.1	4.9	4.5	4.2	5.1	4.1	3.4	2.9
7. 10-YEAR TREASURY BOND (PERCENT)	4.5	4.4	4.2	4.1	4.0	4.3	4.0	3.9	3.7

	2024 Q2	2024 Q3	2024 Q4	2025 Q1	2025 Q2	2024	2025	2026
						(Q4-OVER-Q4)		

INFLATION INDICATORS

	2024 Q2	2024 Q3	2024 Q4	2025 Q1	2025 Q2	2024	2025	2026
8. CPI (ANNUAL RATE)	3.4	2.8	2.5	2.4	2.3	3.1	2.4	2.3
9. CORE CPI (ANNUAL RATE)	3.5	3.0	2.7	2.7	2.5	3.4	2.5	2.4
10. PCE (ANNUAL RATE)	3.1	2.4	2.2	2.2	2.1	2.8	2.2	2.1
11. CORE PCE (ANNUAL RATE)	3.0	2.5	2.4	2.4	2.3	2.9	2.2	2.1

Note: The figures on each line are medians of 34 forecasters.

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

SURVEY OF PROFESSIONAL FORECASTERS

Second 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 April 25, 2024; the tables do not reflect subsequent revisions to the data. All forecasts were received on or before May 6, 2024.

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                              TABLE ONE
                  MAJOR MACROECONOMIC INDICATORS
                 MEDIANS OF FORECASTER PREDICTIONS
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	NUMBER OF FORECASTERS	ACTUAL 2024 Q1	FORECAST 2024 Q2	FORECAST 2024 Q3	FORECAST 2024 Q4	FORECAST 2025 Q1	FORECAST 2025 Q2	ACTUAL 2023 ANNUAL	FORECAST 2024 ANNUAL	FORECAST 2025 ANNUAL	FORECAST 2026 ANNUAL	FORECAST 2027 ANNUAL
1. GROSS DOMESTIC PRODUCT (GDP) ($ BILLIONS)	31	28285	28628	28944	29231	29528	29818	27361	28779	29980	N.A.	N.A.
2. GDP PRICE INDEX (2017=100)	31	124.24	125.13	125.90	126.60	127.20	127.87	122.28	125.46	128.13	N.A.	N.A.
3. CORPORATE PROFITS AFTER TAXES ($ BILLIONS)	18	N.A.	2858.8	2859.9	2885.8	2895.7	2909.0	2672.9	2855.0	2893.8	N.A.	N.A.
4. UNEMPLOYMENT RATE (PERCENT)	33	3.8	3.9	4.0	4.0	4.1	4.1	3.6	3.9	4.1	4.1	4.1
5. NONFARM PAYROLL EMPLOYMENT (THOUSANDS)	26	157841	158441	158883	159272	159704	160031	156066	158618	160305	N.A.	N.A.
6. INDUSTRIAL PRODUCTION (2017=100)	25	102.3	102.7	103.0	103.4	103.8	104.3	102.8	102.9	104.6	N.A.	N.A.
7. NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	29	1.42	1.42	1.43	1.44	1.45	1.45	1.42	1.42	1.47	N.A.	N.A.
8. 3-MONTH TREASURY BILL RATE (PERCENT)	28	5.23	5.26	5.10	4.85	4.50	4.16	5.07	5.13	4.10	3.38	2.91
9. MOODY'S AAA CORP BOND YIELD * (PERCENT)	19	N.A.	5.28	5.30	5.20	5.20	5.07	N.A.	5.20	5.03	N.A.	N.A.
10. MOODY'S BAA CORP BOND YIELD * (PERCENT)	18	N.A.	6.06	6.10	6.08	6.07	6.05	N.A.	6.00	6.02	N.A.	N.A.
11. 10-YEAR TREASURY BOND YIELD (PERCENT)	31	4.16	4.50	4.40	4.20	4.10	4.00	3.96	4.29	4.00	3.89	3.72
12. REAL GDP (BILLIONS, CHAIN WEIGHTED)	34	22769	22889	23003	23090	23196	23311	22377	22935	23374	23819	24316
13. TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	29	15683.5	15775.8	15855.9	15933.9	16012.9	16085.2	15426.2	15812.7	16118.9	N.A.	N.A.
14. NONRESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	28	3338.6	3355.8	3377.2	3395.9	3420.7	3441.0	3271.7	3366.9	3459.4	N.A.	N.A.
15. RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	28	768.7	772.9	777.7	781.9	786.8	795.7	735.3	775.2	795.9	N.A.	N.A.
16. FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	29	1500.1	1505.9	1511.7	1515.2	1520.5	1524.0	1480.8	1508.6	1528.4	N.A.	N.A.
17. STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	29	2397.9	2408.6	2417.6	2427.5	2435.7	2445.6	2339.2	2412.7	2447.8	N.A.	N.A.
18. CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	27	35.4	40.0	39.7	45.1	44.8	51.6	43.7	40.2	50.0	N.A.	N.A.
19. NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	27	-973.2	-988.5	-993.4	-1004.0	-1009.5	-1026.8	-928.1	-990.1	-1019.5	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, Second Quarter 2024.

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                            TABLE TWO
                  MAJOR MACROECONOMIC INDICATORS
                 PERCENTAGE CHANGES AT ANNUAL RATES
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	NUMBER OF FORECASTERS	Q1 2024 TO Q2 2024	Q2 2024 TO Q3 2024	Q3 2024 TO Q4 2024	Q4 2024 TO Q1 2025	Q1 2025 TO Q2 2025	2023 TO 2024	2024 TO 2025	2025 TO 2026	2026 TO 2027
1. GROSS DOMESTIC PRODUCT (GDP) ($ BILLIONS)	31	4.9	4.5	4.0	4.1	4.0	5.2	4.2	N.A.	N.A.
2. GDP PRICE INDEX (2017=100)	31	2.9	2.5	2.2	1.9	2.1	2.6	2.1	N.A.	N.A.
3. CORPORATE PROFITS AFTER TAXES ($ BILLIONS)	18	5.4	0.2	3.7	1.4	1.8	6.8	1.4	N.A.	N.A.
4. UNEMPLOYMENT RATE (PERCENT)	33	0.1	0.1	0.0	0.1	0.0	0.3	0.2	0.0	-0.1
5. NONFARM PAYROLL EMPLOYMENT (PERCENT CHANGE)	26	1.5	1.1	1.0	1.1	0.8	1.6	1.1	N.A.	N.A.
(AVG MONTHLY CHANGE)	26	200.0	147.3	129.7	144.2	108.7	212.6	140.6	N.A.	N.A.
6. INDUSTRIAL PRODUCTION (2017=100)	25	1.6	1.2	1.7	1.5	1.8	0.0	1.7	N.A.	N.A.
7. NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	29	1.4	1.4	3.2	2.5	1.5	-0.0	3.0	N.A.	N.A.
8. 3-MONTH TREASURY BILL RATE (PERCENT)	28	0.03	-0.16	-0.25	-0.35	-0.34	0.06	-1.02	-0.72	-0.47
9. MOODY'S AAA CORP BOND YIELD * (PERCENT)	19	N.A.	0.02	-0.10	0.00	-0.13	N.A.	-0.17	N.A.	N.A.
10. MOODY'S BAA CORP BOND YIELD * (PERCENT)	18	N.A.	0.04	-0.02	-0.01	-0.02	N.A.	0.01	N.A.	N.A.
11. 10-YEAR TREASURY BOND YIELD (PERCENT)	31	0.34	-0.10	-0.20	-0.10	-0.10	0.33	-0.29	-0.11	-0.17
12. REAL GDP (BILLIONS, CHAIN WEIGHTED)	34	2.1	2.0	1.5	1.8	2.0	2.5	1.9	1.9	2.1
13. TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	29	2.4	2.0	2.0	2.0	1.8	2.5	1.9	N.A.	N.A.
14. NONRESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	28	2.1	2.6	2.2	2.9	2.4	2.9	2.7	N.A.	N.A.
15. RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	28	2.2	2.5	2.2	2.5	4.6	5.4	2.7	N.A.	N.A.
16. FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	29	1.6	1.6	0.9	1.4	0.9	1.9	1.3	N.A.	N.A.
17. STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	29	1.8	1.5	1.6	1.3	1.6	3.1	1.5	N.A.	N.A.
18. CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	27	4.6	-0.3	5.4	-0.4	6.8	-3.5	9.8	N.A.	N.A.
19. NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	27	-15.3	-4.9	-10.7	-5.5	-17.4	-62.0	-29.4	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, Second Quarter 2024.

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                          TABLE THREE
                    MAJOR PRICE INDICATORS
                 MEDIANS OF FORECASTER PREDICTIONS
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	NUMBER OF FORECASTERS	ACTUAL 2024 Q1	FORECAST(Q/Q)						ACTUAL 2023 ANNUAL	FORECAST(Q4/Q4)		
			2024 Q2	2024 Q3	2024 Q4	2025 Q1	2025 Q2			2024 ANNUAL	2025 ANNUAL	2026 ANNUAL
1. CONSUMER PRICE INDEX (ANNUAL RATE)	31	3.8	3.4	2.8	2.5	2.4	2.3		3.2	3.1	2.4	2.3
2. CORE CONSUMER PRICE INDEX (ANNUAL RATE)	31	4.2	3.5	3.0	2.7	2.7	2.5		4.0	3.4	2.5	2.4
3. PCE PRICE INDEX (ANNUAL RATE)	31	3.4	3.1	2.4	2.2	2.2	2.1		2.8	2.8	2.2	2.1
4. CORE PCE PRICE INDEX (ANNUAL RATE)	31	3.7	3.0	2.5	2.4	2.4	2.3		3.2	2.9	2.2	2.1

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

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                                    TABLE FOUR
                                   YIELD SPREADS
                          MEDIANS OF FORECASTER PREDICTIONS


                      NUMBER   ACTUAL           FORECAST              ACTUAL           FORECAST
                        OF     ─────   ─────────────────────────────  ─────   ───────────────────────────
                               2024    2024   2024   2024   2025   2025  2023    2024   2025   2026   2027
                    FORECASTERS  Q1      Q2     Q3     Q4     Q1     Q2  ANNUAL  ANNUAL ANNUAL ANNUAL ANNUAL

 1. TBOND MINUS TBILL    26    -1.07   -0.85  -0.80  -0.69  -0.40  -0.21  -1.11  -0.86  -0.18   0.53   0.90
    (PERCENTAGE POINTS)

 2. AAA MINUS TBOND      19    N.A.     0.78   0.81   0.87   0.90   0.90  N.A.    0.80   0.99   N.A.   N.A.
    (PERCENTAGE POINTS)

 3. BAA MINUS TBOND      18    N.A.     1.54   1.65   1.73   1.83   1.85  N.A.    1.64   1.93   N.A.   N.A.
    (PERCENTAGE POINTS)

 4. BAA MINUS AAA        18    N.A.     0.75   0.82   0.84   0.85   0.89  N.A.    0.80   0.90   N.A.   N.A.
    (PERCENTAGE POINTS)
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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, Second Quarter 2024.

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                        TABLE FIVE
         ESTIMATED PROBABILITY OF DECLINE IN REAL GDP
```

ESTIMATED PROBABILITY (CHANCES IN 100)	Q1 2024 TO Q2 2024	Q2 2024 TO Q3 2024	Q3 2024 TO Q4 2024	Q4 2024 TO Q1 2025	Q1 2025 TO Q2 2025
		NUMBER OF FORECASTERS			
10 OR LESS	16	9	5	3	4
11 TO 20	7	13	13	9	6
21 TO 30	1	1	4	12	14
31 TO 40	1	2	4	1	1
41 TO 50	1	1	0	1	1
51 TO 60	0	0	0	0	0
61 TO 70	0	0	0	0	0
71 TO 80	1	1	1	1	1
81 TO 90	0	0	0	0	0
91 AND OVER	0	0	0	0	0
NOT REPORTING	7	7	7	7	7
MEAN AND MEDIAN					
MEDIAN PROBABILITY	10.00	15.00	20.00	25.00	25.00
MEAN PROBABILITY	14.41	18.74	22.53	25.56	25.64

Note: Total number of forecasters reporting is 27.

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

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                           TABLE SIX
                        MEAN PROBABILITIES


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


                      2024        2025        2026        2027
                   _____   _____   _____   _____

  9.9 PERCENT OR MORE    0.07        0.06        0.05        0.10
  8.3 TO 9.8 PERCENT     0.07        0.06        0.09        0.16
  7.2 TO 8.2 PERCENT     0.10        0.21        0.32        0.46
  6.1 TO 7.1 PERCENT     0.42        0.97        1.38        1.82
  5.5 TO 6.0 PERCENT     1.38        2.19        3.56        4.82
  4.9 TO 5.4 PERCENT     3.95        7.88       11.11       11.65
  4.3 TO 4.8 PERCENT    18.75       26.63       26.63       26.05
  3.7 TO 4.2 PERCENT    58.30       44.72       39.46       37.24
  3.1 TO 3.6 PERCENT    15.01       14.51       13.68       13.84
LESS THAN 3.1 PERCENT    1.96        2.78        3.72        3.87


                 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    0.04        0.08        0.09        0.10
  7.0 TO  8.9 PERCENT    0.11        0.16        0.18        0.26
  5.5 TO  6.9 PERCENT    0.27        0.38        0.73        1.09
  4.0 TO  5.4 PERCENT    3.02        3.73        5.18        5.42
  2.5 TO  3.9 PERCENT   37.65       21.38       26.86       26.55
  1.5 TO  2.4 PERCENT   44.46       42.53       38.95       35.86
  0.0 TO  1.4 PERCENT   11.01       23.41       20.91       22.57
 -1.5 TO -0.1 PERCENT    2.80        7.28        5.95        6.64
 -3.0 TO -1.6 PERCENT    0.48        0.81        0.90        1.19
 -5.1 TO -3.1 PERCENT    0.07        0.08        0.09        0.14
LESS THAN -5.1 PERCENT   0.09        0.15        0.17        0.19


                 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    1.18        1.60
  3.5 TO 3.9 PERCENT     4.92        4.48
  3.0 TO 3.4 PERCENT    17.61       12.02
  2.5 TO 2.9 PERCENT    31.62       23.56
  2.0 TO 2.4 PERCENT    30.38       35.08
  1.5 TO 1.9 PERCENT     9.67       14.18
  1.0 TO 1.4 PERCENT     2.55        6.00
  0.5 TO 0.9 PERCENT     1.27        2.11
  0.0 TO 0.4 PERCENT     0.58        0.51
LESS THAN 0.0 PERCENT    0.23        0.47
```

Source: Research Department, Federal Reserve Bank of Philadelphia.
Survey of Professional Forecasters, Second 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	5.56	2.66
3.5 TO 3.9 PERCENT	22.84	8.52
3.0 TO 3.4 PERCENT	29.75	16.42
2.5 TO 2.9 PERCENT	25.81	31.54
2.0 TO 2.4 PERCENT	11.78	23.16
1.5 TO 1.9 PERCENT	2.61	11.64
1.0 TO 1.4 PERCENT	0.84	4.36
0.5 TO 0.9 PERCENT	0.32	0.89
0.0 TO 0.4 PERCENT	0.24	0.48
LESS THAN 0.0 PERCENT	0.24	0.32

MEAN PROBABILITY ATTACHED TO CORE PCE INFLATION:

	23Q4 TO 24Q4	24Q4 TO 25Q4
4.0 PERCENT OR MORE	2.37	0.93
3.5 TO 3.9 PERCENT	9.64	4.74
3.0 TO 3.4 PERCENT	25.97	12.15
2.5 TO 2.9 PERCENT	38.77	25.49
2.0 TO 2.4 PERCENT	17.14	34.45
1.5 TO 1.9 PERCENT	3.76	16.62
1.0 TO 1.4 PERCENT	1.27	3.99
0.5 TO 0.9 PERCENT	0.54	1.04
0.0 TO 0.4 PERCENT	0.30	0.34
LESS THAN 0.0 PERCENT	0.24	0.25

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

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


        ANNUAL AVERAGE OVER THE NEXT 5 YEARS: 2024-2028
        ===============================================

        CPI INFLATION RATE              PCE INFLATION RATE
        ------------------------        ------------------------
        MINIMUM          2.10           MINIMUM          1.62
        LOWER QUARTILE   2.37           LOWER QUARTILE   2.19
        MEDIAN           2.50           MEDIAN           2.21
        UPPER QUARTILE   2.70           UPPER QUARTILE   2.38
        MAXIMUM          3.70           MAXIMUM          3.20
        MEAN             2.60           MEAN             2.32
        STD. DEVIATION   0.37           STD. DEVIATION   0.31
        N                  28           N                  28
        MISSING             6           MISSING             6


        ANNUAL AVERAGE OVER THE FOLLOWING 5 YEARS: 2029-2033
        ====================================================

        CPI INFLATION RATE              PCE INFLATION RATE
        ------------------------        ------------------------
        MINIMUM          0.72           MINIMUM          0.81
        LOWER QUARTILE   2.10           LOWER QUARTILE   1.90
        MEDIAN           2.20           MEDIAN           2.00
        UPPER QUARTILE   2.44           UPPER QUARTILE   2.20
        MAXIMUM          2.80           MAXIMUM          2.40
        MEAN             2.23           MEAN             2.01
        STD. DEVIATION   0.37           STD. DEVIATION   0.28
        N                  28           N                  28
        MISSING             6           MISSING             6


        ANNUAL AVERAGE OVER THE NEXT 10 YEARS: 2024-2033
        ================================================

        CPI INFLATION RATE              PCE INFLATION RATE
        ------------------------        ------------------------
        MINIMUM          2.00           MINIMUM          1.68
        LOWER QUARTILE   2.23           LOWER QUARTILE   2.10
        MEDIAN           2.33           MEDIAN           2.10
        UPPER QUARTILE   2.54           UPPER QUARTILE   2.25
        MAXIMUM          3.00           MAXIMUM          2.70
        MEAN             2.41           MEAN             2.16
        STD. DEVIATION   0.25           STD. DEVIATION   0.20
        N                  28           N                  28
        MISSING             6           MISSING             6
```

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, Second Quarter 2024.