Release Date: May 12, 2023

SECOND QUARTER 2023

Forecasters Maintain Their Expectations for Growth in 2023

The forecasters see the U.S. economy in 2023 expanding at the same pace as they predicted three months ago, according to 38 panelists surveyed by the Federal Reserve Bank of Philadelphia. The forecasters predict annual-average over annual-average growth in real GDP of 1.3 percent in 2023, unrevised from their estimate of three months ago. The panelists are also maintaining their forecast for growth in the second quarter at an annual rate of 1.0 percent, unchanged compared with their previous projection. However, while their predictions for the second quarter and for 2023 remain the same, the forecasters revised upward their predictions for the third quarter of 2023. They also revised downward their fourth-quarter estimates.

A downward revision of 0.1 percentage point in the quarterly projections for the unemployment rate over the next four quarters accompanies the outlook for growth. On an annual-average over annual-average basis, the forecasters have lowered their 2023 unemployment rate forecast from 3.8 percent in the previous survey to 3.7 percent in the current survey.

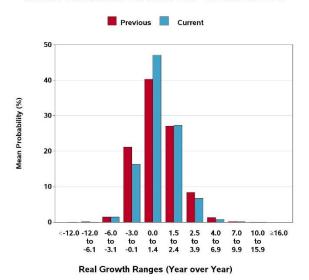
The forecasters see stronger payroll employment growth in 2023 than they did three months ago. The current estimate calls for job gains at a monthly rate of 257,500 in 2023, marking an increase from 217,800 in the previous survey.

Median Forecasts for Selected Variables in the Current and Previous Surveys

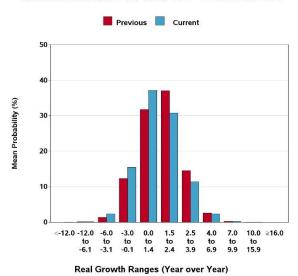
	Real GD	P (%)	Unemploymer	nt Rate (%)	Payrolls (00	0s/month)
	Previous	New	Previous	New	Previous	New
Quarterly data:						
2023:Q2	1.0	1.0	3.7	3.6	0.5	156.1
2023:Q3	-0.1	0.6	3.9	3.8	47.5	43.8
2023:Q4	1.2	-0.0	4.1	4.0	62.7	25.6
2024:Q1	1.3	1.0	4.2	4.1	60.8	37.2
2024:Q2	N.A.	2.5	N.A.	4.2	N.A.	22.7
Annual data (proj	jections are ba	ased on a	nnual-average le	vels):		
2023	1.3	1.3	3.8	3.7	217.8	257.5
2024	1.4	1.0	4.2	4.3	43.3	56.1
2025	2.2	2.4	4.2	4.4	N.A.	N.A.
2026	1.5	2.3	4.1	4.3	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. The current estimates indicate the forecasters are slightly more confident that real GDP growth will fall into the range of 0.0 percent to 1.4 percent in each of the next four years than they were in the previous survey.

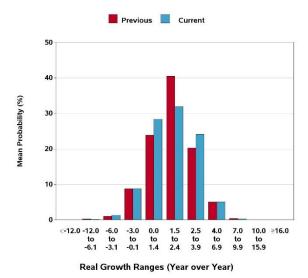
Mean Probabilities for Real GDP Growth in 2023



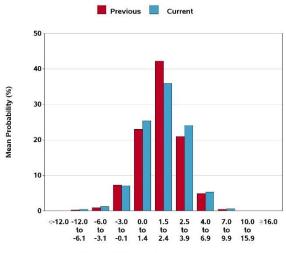
Mean Probabilities for Real GDP Growth in 2024



Mean Probabilities for Real GDP Growth in 2025

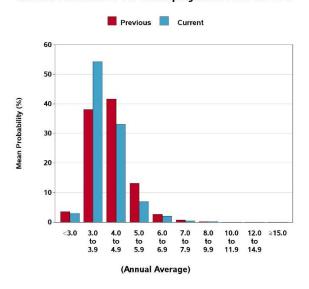


Mean Probabilities for Real GDP Growth in 2026

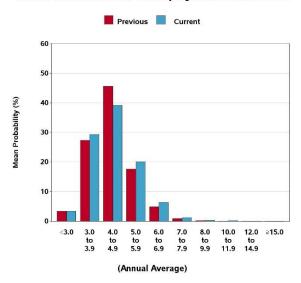


The forecasters' density projections for unemployment, shown below, shed light on uncertainty about the labor market over the next four years. Each chart presents the forecasters' current and previous estimates of the probability that unemployment will fall into each of 10 ranges. The current estimates for 2023 show the forecasters are more confident that annual-average unemployment will be between 3.0 percent and 3.9 percent than they were in the previous survey.

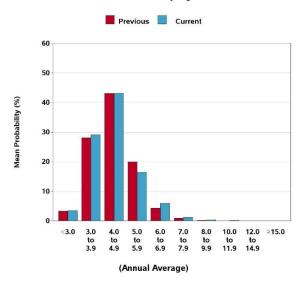
Mean Probabilities for Unemployment Rate in 2023



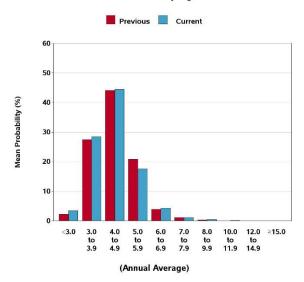
Mean Probabilities for Unemployment Rate in 2024



Mean Probabilities for Unemployment Rate in 2025



Mean Probabilities for Unemployment Rate in 2026



Forecasters Revise Upward Their Near-Term Expectations for Inflation

The forecasters have revised upward their near-term projections for headline and core CPI and PCE inflation, compared with their projections of three months ago. These upward revisions characterize the projections for every inflation measure over nearly all of the next four quarters as well as the whole of 2023.

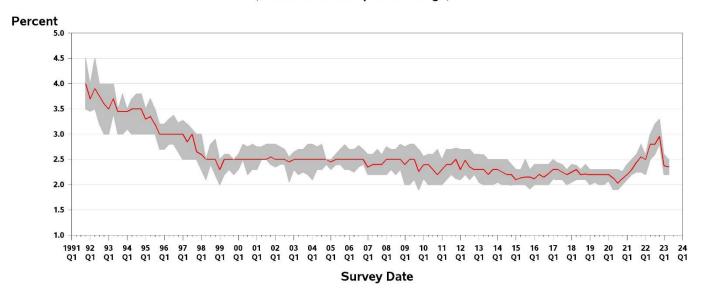
Over the next 10 years, 2023 to 2032, the forecasters predict headline CPI inflation will be an annual-average rate of 2.36 percent, slightly lower than the previous estimate of 2.37 percent. The corresponding estimate for the 10-year annual-average PCE inflation rate is 2.20 percent, slightly higher than the previous estimate of 2.15 percent.

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

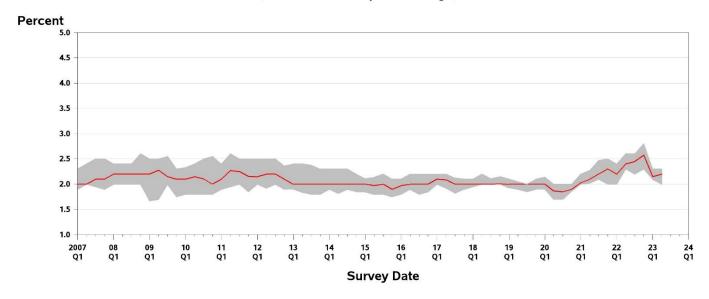
	Headline CPI		Core	CPI	Headlin	ne PCE	Core	Core PCE		
	Previous	Current	Previous	Current	Previous	Current	Previous	Current		
Quarterly										
2023:Q2	3.4	3.5	3.6	4.5	3.0	3.2	3.1	3.8		
2023:Q3	3.1	3.2	3.1	3.6	2.6	3.2	2.7	3.3		
2023:Q4	2.8	2.9	2.9	3.1	2.6	2.9	2.5	2.9		
2024:Q1	2.6	2.7	2.8	3.0	2.3	2.5	2.5	2.5		
2024:Q2	N.A.	2.4	N.A.	2.7	N.A.	2.4	N.A.	2.4		
Q4/Q4 Annual A	Averages									
2023	3.1	3.4	3.4	4.1	2.8	3.4	3.0	3.7		
2024	2.5	2.5	2.6	2.7	2.2	2.4	2.3	2.3		
2025	2.4	2.3	2.4	2.3	2.2	2.1	2.1	2.0		
Long-Term Ann	nual Averag	ges								
2023-2027	2.50	2.50	N.A.	N.A.	2.30	2.42	N.A.	N.A.		
2023-2032	2.37	2.36	N.A.	N.A.	2.15	2.20	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 perspective on the current survey's slightly lower 10-year annual-average CPI inflation projection and the slightly higher 10-year annual-average PCE inflation projection.

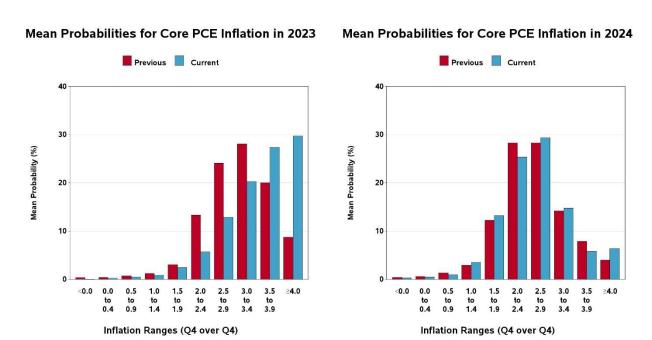
Projections for the 10-Year Annual-Average Rate of CPI Inflation (Median and Interquartile Range)



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 2023 and 2024. The forecasters have increased their estimates for the probability that core PCE inflation in 2023 will be 3.5 percent or higher compared with their prediction in the last survey. For 2024, forecasters' probabilities for core PCE inflation remain largely unchanged between the current and previous surveys.



Higher Risk of Negative Real GDP Growth in Second Half of 2023 and Early 2024

The forecasters reduced their estimate for the risk of negative growth this quarter but raised their estimates over subsequent quarters. The estimate for the current quarter stands at 38.8 percent, down from the previous estimate of 42.4 percent. The first quarter 2024 estimate saw the largest revision in the risk of a contraction in real GDP. The forecasters now peg that risk at 39.3 percent, marking an upward revision from 31.8 percent in the previous survey of three months ago.

Risk of a Negative Quarter (%) Survey Means

Quarterly data:	Previous	New
2023:Q2	42.4	38.8
2023:Q3	44.9	45.2
2023:Q4	40.6	41.9
2024:Q1	31.8	39.3
2024:Q2	N.A.	31.8

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:

Scott Anderson, Bank of the West (BNP Paribas Group); Anwiti Bahuguna and Ed Al-Hussainy, Columbia Threadneedle Investments; 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; 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 Tereza Ranosova, RSOE, University of Michigan; Michael R. Englund, Action Economics, LLC; Sacha Gelfer, Bentley University; James Glassman, JPMorgan Chase & Co.; Jan Hatzius, Goldman Sachs; Steve Kihm, Citizens Utility Board of Wisconsin; Oren Klachkin and Ryan Sweet, Oxford Economics USA, Inc.; Jack Kleinhenz, Kleinhenz & Associates, Inc.; Yaniv Konchitchki, University of California, Berkeley; Thomas Lam, Sim Kee Boon Institute, Singapore Management University; Brian Martin, Australia New Zealand Bank (ANZ); Robert McNab, Old Dominion University; R. Anthony Metz, Pareto Optimal Economics; R. M. Monaco, TitanRM; Joel L. Naroff, Naroff Economic Advisors; Nomura Securities International; Brendon Ogmundson, BC Real Estate Association; Perc Pineda, Ph.D., Plastics Industry Association; Joel Prakken and Chris Varvares, S&P Global Market Intelligence; Jason Prole, Capital Risk Management; Michael Roberts, Roberts Capital Advisors, LLC; Alfredo A. Romero, North Carolina A&T State University: Philip Rothman, East Carolina University: Allen Sinai and Lu Yu, Decision Economics, Inc.: Sean Snaith, University of Central Florida; Stephen Stanley, Santander Capital Markets; Charles Steindel, Editor, NABE Business Economics; Susan M. Sterne, Economic Analysis Associates, Inc.; Edward Sullivan, Portland Cement Association; James Sweeney, Credit Suisse; Jordan Vickers and Marie Dempsey, Eaton Corporation; Lawrence Werther, Daiwa Capital Markets America; Mark Zandi, Moody's Analytics; Ellen Zentner, Morgan Stanley.

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

	2023 Q2	2023 Q3	2023 Q4	2024 Q1	2024 Q2	2023		2025 OVER-YEA	2026 R)
PERCENT GROWTH AT ANNUAL RATES									
1. REAL GDP (BILLIONS, CHAIN WEIGHTED)	1.0	0.6	-0.0	1.0	2.5	1.3	1.0	2.4	2.3
2. GDP PRICE INDEX (PERCENT CHANGE)	3.3	3.0	2.6	2.2	2.3	4.0	2.5	N.A.	N.A.
3. NOMINAL GDP (\$ BILLIONS)	4.0	3.3	3.2	4.0	3.8	5.4	3.7	N.A.	N.A.
4. NONFARM PAYROLL EMPLOYMENT									
(PERCENT CHANGE)	1.2	0.3	0.2	0 3	0.2	2 0	0.4	N.A.	N.A.
(AVG MONTHLY CHANGE)	156.1		25.6						N.A.
VARIABLES IN LEVELS									
5. UNEMPLOYMENT RATE (PERCENT)	3.6	3.8	4.0	4.1	4.2	3.7	4.3	4.4	4.3
6. 3-MONTH TREASURY BILL (PERCENT)	5.0	5.1	5.0	4.7	4.3	4.9	4.2	3.3	2.8
7. 10-YEAR TREASURY BOND (PERCENT)	3.6	3.6	3.6	3.5	3.5	3.6	3.4	3.3	3.4
	2023 Q2	2023 Q3	2023 Q4	2024 Q1	2024 Q2	2023	2024 Q4-OVER:	2025 -Q4)	
INFLATION INDICATORS									
8. CPI (ANNUAL RATE)	3.5	3.2	2.9	2.7	2.4	3.4	2.5	2.3	
9. CORE CPI (ANNUAL RATE)	4.5	3.6	3.1	3.0	2.7	4.1	2.7	2.3	
10. PCE (ANNUAL RATE)	3.2	3.2	2.9	2.5	2.4	3.4	2.4	2.1	
11. CORE PCE (ANNUAL RATE)	3.8	3.3	2.9	2.5	2.4	3.7	2.3	2.0	

Note: The figures on each line are medians of 38 forecasters.

SURVEY OF PROFESSIONAL FORECASTERS	
Second Quarter 2023	
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 27, 2023; the tables do not reflect subsequent revisions to the data. All forecasts were received on or before May 9, 2023.

TABLE ONE
MAJOR MACROECONOMIC INDICATORS
MEDIANS OF FORECASTER PREDICTIONS

		NUMBER	ACTUA:	L		FORECAS	ST		ACTUAL		FORE	CAST	
	FC	OF RECASTERS	2023 Q1	2023 Q2	2023 Q3	2023 Q4	2024 Q1	2024 Q2	2022 ANNUAL	2023 ANNUAL	2024 ANNUAL	2025 ANNUAL	2026 ANNUAL
1.	GROSS DOMESTIC PRODUCT (GDP) (\$ BILLIONS)	36	26466	26729	26945	27158	27427	27686	25463	26830	27824	N.A.	N.A.
2.	GDP PRICE INDEX (2012=100)	35	130.79	131.84	132.83	133.69	134.42	135.18	127.23	132.33	135.60	N.A.	N.A.
3.	CORPORATE PROFITS AFTER TAXES (\$ BILLIONS)	22	N.A.	2490.7	2481.2	2489.5	2516.4	2523.7	2478.9	2490.9	2532.2	N.A.	N.A.
4.	UNEMPLOYMENT RATE (PERCENT)	37	3.5	3.6	3.8	4.0	4.1	4.2	3.6	3.7	4.3	4.4	4.3
5.	NONFARM PAYROLL EMPLOYMENT (THOUSANDS)	32	155303	155771	155903	155979	156091	156159	152625	155715	156388	N.A.	N.A.
6.	INDUSTRIAL PRODUCTION (2017=100)	28	102.7	102.5	102.2	102.2	102.4	102.8	102.6	102.4	103.1	N.A.	N.A.
7.	NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	31	1.40	1.36	1.33	1.32	1.33	1.38	1.55	1.35	1.40	N.A.	N.A.
8.	3-MONTH TREASURY BILL RATE (PERCENT)	36	4.63	5.05	5.06	4.95	4.70	4.34	2.02	4.94	4.18	3.30	2.83
9.	MOODY'S AAA CORP BOND YIELD * (PERCENT)	20	N.A.	4.60	4.64	4.63	4.61	4.58	N.A.	4.60	4.59	N.A.	N.A.
10.	MOODY'S BAA CORP BOND YIELD * (PERCENT)	18	N.A.	5.62	5.83	5.83	5.65	5.62	N.A.	5.72	5.63	N.A.	N.A.
11.	10-YEAR TREASURY BOND YIELD (PERCENT)	34	3.65	3.58	3.62	3.57	3.50	3.50	2.95	3.61	3.45	3.34	3.36
12.	REAL GDP (BILLIONS, CHAIN WEIGHTED)	38	20236	20286	20314	20312	20362	20486	20014	20284	20478	20960	21432
13.	TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	33 1	4344.5	14366.0	14373.9	14378.6	14417.9	14490.5	14130.4	14361.0	14532.8	N.A.	N.A.
14.	NONRESIDENTIAL FIXED INVESTMEN (BILLIONS, CHAIN WEIGHTED)	т 32	2994.1	2996.3	2991.1	2992.6	3006.9	3026.5	2944.8	2991.4	3033.9	N.A.	N.A.
15.	RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	31	570.6	563.3	557.1	555.8	558.2	567.3	643.1	561.4	572.3	N.A.	N.A.
16.	FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	31	1399.1	1404.3	1406.8	1411.2	1418.3	1417.9	1355.3	1406.9	1423.6	N.A.	N.A.
17.	STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	31	2084.6	2092.2	2097.6	2103.5	2110.0	2112.8	2051.2	2094.0	2114.3	N.A.	N.A.
18.	CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	31	-1.6	26.4	20.6	18.4	27.2	30.3	125.0	11.5	28.4	N.A.	N.A.
19.	NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	32 -	1235.8	-1228.9	-1229.0	-1229.6	-1239.0	-1231.2	-1356.7	-1232.5	-1231.7	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, Second Quarter 2023.

TABLE TWO
MAJOR MACROECONOMIC INDICATORS
PERCENTAGE CHANGES AT ANNUAL RATES

		NUMBER OF ECASTERS	Q1 2023 TO Q2 2023	Q2 2023 TO Q3 2023	Q3 2023 TO Q4 2023	TO	Q1 2024 TO Q2 2024	2022 TO 2023	2023 TO 2024	2024 TO 2025	2025 TO 2026
1.	GROSS DOMESTIC PRODUCT (GDP) (\$ BILLIONS)	36	4.0	3.3	3.2	4.0	3.8	5.4	3.7	N.A.	N.A.
2.	GDP PRICE INDEX (2012=100)	35	3.3	3.0	2.6	2.2	2.3	4.0	2.5	N.A.	N.A.
3.	CORPORATE PROFITS AFTER TAXES (\$ BILLIONS)	22	-2.3	-1.5	1.3	4.4	1.2	0.5	1.7	N.A.	N.A.
4.	UNEMPLOYMENT RATE (PERCENT)	37	0.1	0.2	0.2	0.1	0.1	0.1	0.6	0.1	-0.1
5.	NONFARM PAYROLL EMPLOYMENT (PERCENT CHANGE) (AVG MONTHLY CHANGE)	32 32	1.2 156.1	0.3 43.8	0.2 25.6	0.3 37.2	0.2 22.7	2.0 257.5	0.4 56.1	N.A. N.A.	N.A. N.A.
6.	INDUSTRIAL PRODUCTION (2017=100)	28	-0.8	-1.0	-0.3	0.9	1.6	-0.2	0.6	N.A.	N.A.
7.	NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	31	-9.7	-9.9	-2.7	4.9	14.5	-13.2	3.8	N.A.	N.A.
8.	3-MONTH TREASURY BILL RATE (PERCENT)	36	0.42	0.02	-0.11	-0.25	-0.35	2.92	-0.76	-0.88	-0.47
9.	MOODY'S AAA CORP BOND YIELD * (PERCENT)	20	N.A.	0.04	-0.01	-0.02	-0.03	N.A.	-0.01	N.A.	N.A.
10.	MOODY'S BAA CORP BOND YIELD * (PERCENT)	18	N.A.	0.21	-0.00	-0.18	-0.03	N.A.	-0.09	N.A.	N.A.
11.	10-YEAR TREASURY BOND YIELD (PERCENT)	34	-0.07	0.05	-0.05	-0.07	0.00	0.66	-0.16	-0.11	0.03
12.	REAL GDP (BILLIONS, CHAIN WEIGHTED)	38	1.0	0.6	-0.0	1.0	2.5	1.3	1.0	2.4	2.3
13.	TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	33	0.6	0.2	0.1	1.1	2.0	1.6	1.2	N.A.	N.A.
14.	NONRESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	г 32	0.3	-0.7	0.2	1.9	2.6	1.6	1.4	N.A.	N.A.
15.	RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	31	-5.0	-4.4	-0.9	1.7	6.6	-12.7	1.9	N.A.	N.A.
16.	FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	31	1.5	0.7	1.3	2.0	-0.1	3.8	1.2	N.A.	N.A.
17.	STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	31	1.5	1.0	1.1	1.2	0.5	2.1	1.0	Ν.Α.	N.A.
18.	CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	31	28.0	-5.8	-2.2	8.8	3.1	-113.5	16.9	N.A.	N.A.
19.	NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	32	6.9	-0.1	-0.6	-9.4	7.8	124.2	0.9	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.

TABLE THREE MAJOR PRICE INDICATORS MEDIANS OF FORECASTER PREDICTIONS

	NUMBER	ACTUAL		FORECAS	ST (Q/Q)			ACTUAL	FORE	CAST (Q4/Q	4)
	OF FORECASTERS	2023 Q1	2023 Q2	2023 Q3	2023 Q4	2024 Q1	2024 Q2	2022 ANNUAL	2023 ANNUAL	2024 ANNUAL	2025 ANNUAL
1. CONSUMER PRICE INDEX (ANNUAL RATE)	35	3.8	3.5	3.2	2.9	2.7	2.4	7.1	3.4	2.5	2.3
2. CORE CONSUMER PRICE INDE (ANNUAL RATE)	х 33	5.0	4.5	3.6	3.1	3.0	2.7	6.0	4.1	2.7	2.3
3. PCE PRICE INDEX (ANNUAL RATE)	34	4.2	3.2	3.2	2.9	2.5	2.4	5.7	3.4	2.4	2.1
4. CORE PCE PRICE INDEX (ANNUAL RATE)	33	4.9	3.8	3.3	2.9	2.5	2.4	4.8	3.7	2.3	2.0

TABLE FOUR YIELD SPREADS MEDIANS OF FORECASTER PREDICTIONS

	NUMBER	ACTUAL			FORECAST	Г		ACTUAL		FORE	CAST	
	OF FORECASTERS	2023 Q1	2023 Q2	2023 Q3	2023 Q4	2024 Q1	2024 Q2	2022 ANNUAL	2023 ANNUAL	2024 ANNUAL	2025 ANNUAL	2026 ANNUAL
1. TBOND MINUS TBILL (PERCENTAGE POINTS)	33	-0.98	-1.50	-1.41	-1.30	-1.13	-0.86	0.93	-1.30	-0.81	0.15	0.73
2. AAA MINUS TBOND (PERCENTAGE POINTS)	20	N.A.	1.02	1.00	1.03	1.07	1.07	N.A.	0.98	1.03	N.A.	N.A.
3. BAA MINUS TBOND (PERCENTAGE POINTS)	18	N.A.	2.12	2.16	2.16	2.19	2.21	N.A.	2.12	2.21	N.A.	N.A.
4. BAA MINUS AAA (PERCENTAGE POINTS)	18	N.A.	1.08	1.07	1.07	1.05	1.05	N.A.	1.07	1.07	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.

TABLE FIVE
ESTIMATED PROBABILITY OF DECLINE IN REAL GDP

ESTIMATED PROBABILITY (CHANCES IN 100)	Q1 2023 TO Q2 2023	TO	Q3 2023 TO Q4 2023	Q4 2023 TO Q1 2024	Q1 2024 TO Q2 2024
		NUMBER	OF FORECAS	TERS	
10 OR LESS 11 TO 20 21 TO 30 31 TO 40 41 TO 50 51 TO 60 61 TO 70 71 TO 80 81 TO 90 91 AND OVER NOT REPORTING	5 5 3 4 4 2 1 4 1 0 9	2 4 4 4 3 6 1 3 2 0 9	2 3 7 5 2 4 4 1 1 0 9	3 3 5 7 3 4 1 3 0 0	4 4 9 6 2 2 0 2 0 9
MEAN AND MEDIAN					
MEDIAN PROBABILITY MEAN PROBABILITY	40.00 38.80	50.00 45.16	35.00 41.88	35.00 39.29	30.00 31.79

Note: Total number of forecasters reporting is 29.

TABLE SIX MEAN PROBABILITIES

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

		2023	2024	2025	2026
15.0 PERCENT	OR MORE	0.02	0.02	0.00	0.00
12.0 TO 14.9	PERCENT	0.02	0.02	0.00	0.00
10.0 TO 11.9	PERCENT	0.02	0.18	0.22	0.15
8.0 TO 9.9	PERCENT	0.25	0.31	0.35	0.43
7.0 TO 7.9	PERCENT	0.50	1.23	1.20	1.15
6.0 TO 6.9	PERCENT	2.07	6.31	5.97	4.32
5.0 TO 5.9	PERCENT	6.87	20.08	16.48	17.66
4.0 TO 4.9	PERCENT	33.02	39.10	43.21	44.42
3.0 TO 3.9	PERCENT	54.26	29.30	29.17	28.43
LESS THAN 3.0	PERCENT	2.98	3.46	3.40	3.46

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

		2022-2023	2023-2024	2024-2025	2025-2026
16.0 PERCENT	OR MORE	0.00	0.00	0.00	0.00
10.0 TO 15.9	PERCENT	0.03	0.04	0.00	0.00
7.0 TO 9.9	PERCENT	0.14	0.26	0.32	0.59
4.0 TO 6.9	PERCENT	0.75	2.36	5.03	5.36
2.5 TO 3.9	PERCENT	6.77	11.40	24.13	24.06
1.5 TO 2.4	PERCENT	27.34	30.78	31.89	35.89
0.0 TO 1.4	PERCENT	47.03	37.16	28.38	25.35
-3.0 TO -0.1	PERCENT	16.36	15.49	8.78	7.07
-6.0 TO -3.1	PERCENT	1.48	2.37	1.31	1.26
-12.0 TO -6.1	PERCENT	0.07	0.12	0.17	0.43
LESS THAN -12.0	PERCENT	0.03	0.03	0.00	0.00

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

	2022-2023	2023-2024
4.0 PERCENT OR MORE	31.69	7.48
3.5 TO 3.9 PERCENT	31.69	7.42
3.0 TO 3.4 PERCENT	17.34	15.12
2.5 TO 2.9 PERCENT	9.77	27.61
2.0 TO 2.4 PERCENT	3.12	22.81
1.5 TO 1.9 PERCENT	1.76	10.56
1.0 TO 1.4 PERCENT	1.90	4.99
0.5 TO 0.9 PERCENT	1.45	2.48
0.0 TO 0.4 PERCENT	0.97	1.05
LESS THAN 0.0 PERCENT	0.31	0.48

MEAN PROBABILITY ATTACHED TO CORE CPI INFLATION:

	22Q4 TO 23Q4	23Q4 TO 24Q4
4.0 PERCENT OR M	IORE 39.26	7.92
3.5 TO 3.9 PERCE	INT 30.03	7.11
3.0 TO 3.4 PERCE	INT 17.30	17.29
2.5 TO 2.9 PERCE	INT 7.14	32.40
2.0 TO 2.4 PERCE	INT 3.70	22.36
1.5 TO 1.9 PERCE	INT 1.34	8.86
1.0 TO 1.4 PERCE	O.65	2.65
0.5 TO 0.9 PERCE	O.31	0.68
0.0 TO 0.4 PERCE	O.24	0.39
LESS THAN 0.0 PERCE	O.02	0.33

MEAN PROBABILITY ATTACHED TO CORE PCE INFLATION:

		22Q4 TO 23Q4	23Q4 TO 24Q4
4.0 PER	RCENT OR MORE	29.75	6.36
3.5 TO	3.9 PERCENT	27.36	5.79
3.0 TO	3.4 PERCENT	20.25	14.74
2.5 TO	2.9 PERCENT	12.91	29.36
2.0 TO	2.4 PERCENT	5.68	25.34
1.5 TO	1.9 PERCENT	2.46	13.21
1.0 TO	1.4 PERCENT	0.83	3.49
0.5 TO	0.9 PERCENT	0.50	0.97
0.0 TO	0.4 PERCENT	0.24	0.47
LESS THAN	0.0 PERCENT	0.02	0.27

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

ANNUAL AVERAGE OVER THE NEXT 5 YEARS: 2023-2027

CPI INFLATION RATE		PCE INFLATION RATE	
MINIMUM	2.10	MINIMUM	1.70
LOWER QUARTILE	2.40	LOWER QUARTILE	2.15
MEDIAN	2.50	MEDIAN	2.42
UPPER QUARTILE	2.84	UPPER QUARTILE	2.62
MAXIMUM	3.50	MAXIMUM	3.20
MEAN	2.61	MEAN	2.41
STD. DEVIATION	0.29	STD. DEVIATION	0.34
N	29	N	2.8
MISSING	9	MISSING	10

ANNUAL AVERAGE OVER THE FOLLOWING 5 YEARS: 2028-2032

CPI INFLATION RATE		PCE INFLATION RATE	
MINIMUM	1.50	MINIMUM	0.81
LOWER QUARTILE	2.01	LOWER QUARTILE	1.90
MEDIAN	2.20	MEDIAN	2.00
UPPER QUARTILE	2.36	UPPER QUARTILE	2.10
MAXIMUM	2.76	MAXIMUM	2.53
MEAN	2.20	MEAN	1.95
STD. DEVIATION	0.27	STD. DEVIATION	0.31
N	28	N	27
MISSING	10	MISSING	11

ANNUAL AVERAGE OVER THE NEXT 10 YEARS: 2023-2032

CPI INFLATION RATE		PCE INFLATION RATE	
MINIMUM	1.96	MINIMUM	1.78
LOWER QUARTILE	2.20	LOWER QUARTILE	2.00
MEDIAN	2.36	MEDIAN	2.20
UPPER QUARTILE	2.50	UPPER QUARTILE	2.30
MAXIMUM	3.00	MAXIMUM	2.70
MEAN	2.41	MEAN	2.19
STD. DEVIATION	0.23	STD. DEVIATION	0.23
N	28	N	27
MISSING	10	MISSING	11

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.