Release Date: May 14, 2021

SECOND QUARTER 2021

Faster Pace of Economic Rebound with Stronger Labor Markets

The U.S. economy looks stronger now than it did three months ago, according to 36 forecasters surveyed by the Federal Reserve Bank of Philadelphia. The panel predicts real GDP will grow at an annual rate of 7.9 percent this quarter, up 2.9 percentage points from the prediction in the last survey. Over the next three quarters, the panelists also see a stronger rebound in output growth than they predicted previously. Using the annual-average over annual-average computation, the forecasters expect real GDP to grow at an annual rate of 6.3 percent in 2021 and 4.3 percent in 2022. The projections for 2021 and 2022 are up from 4.5 percent and 3.7 percent, respectively, in the last survey.

The upward revision to growth is accompanied by a brighter outlook for the unemployment rate. The forecasters predict unemployment will decrease from a projected 5.8 percent this quarter to 4.5 percent in the second quarter of 2022. Using the annual-average computation, the panelists predict the unemployment rate will decline from 5.5 percent in 2021 to 3.8 percent in 2024. The annual-average projections for 2021 and 2022 are each 0.4 percentage point below those of the last survey.

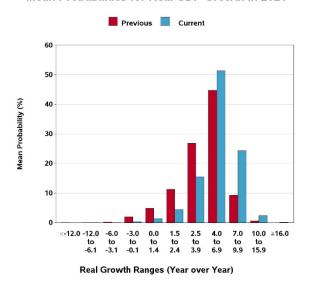
The forecasters are also more optimistic about the employment outlook. They have revised upward their estimates for job gains in 2021 and 2022. The projections for the annual-average level of nonfarm payroll employment suggest job gains at a monthly rate of 331,600 in 2021 and 405,100 in 2022, up from the projections of 223,400 and 329,800, respectively, from three months ago. (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

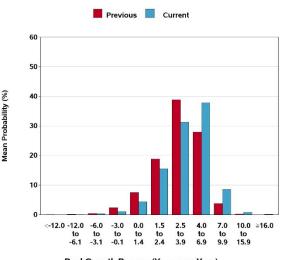
	Real GDP (%)		Unemploymer	nt Rate (%)	Payrolls (000s/mont)		
	Previous	New	Previous	New	Previous	New	
Quarterly data:							
2021:Q2	5.0	7.9	6.1	5.8	396.1	570.6	
2021:Q3	5.3	7.5	5.7	5.3	445.8	753.0	
2021:Q4	4.0	5.0	5.4	4.9	565.8	482.4	
2022:Q1	3.7	4.0	5.1	4.7	441.4	372.3	
2022:Q2	N.A.	2.6	N.A.	4.5	N.A.	287.0	
Annual data (proje	ections are ba	ased on a	nnual-average le	vels):			
2021	4.5	6.3	5.9	5.5	223.4	331.6	
2022	3.7	4.3	4.8	4.4	329.8	405.1	
2023	3.1	2.6	4.2	3.9	N.A.	N.A.	
2024	2.5	2.3	4.0	3.8	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 charts show the forecasters have revised upward their estimates of the probability that real GDP will grow 4.0 percent or more over each of the next four years.

Mean Probabilities for Real GDP Growth in 2021

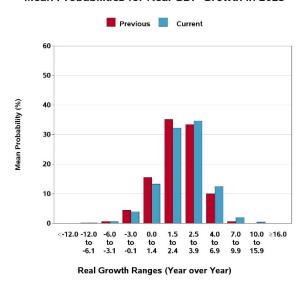


Mean Probabilities for Real GDP Growth in 2022

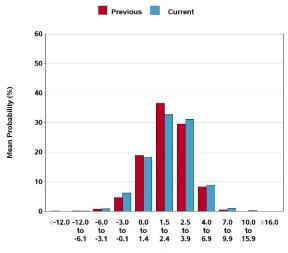


Real Growth Ranges (Year over Year)

Mean Probabilities for Real GDP Growth in 2023



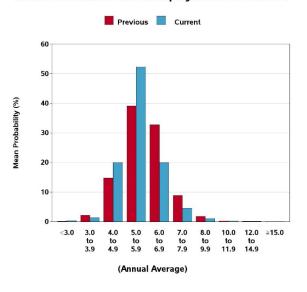
Mean Probabilities for Real GDP Growth in 2024



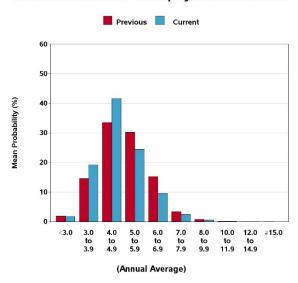
Real Growth Ranges (Year over Year)

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. The charts show the panelists are raising their probability estimates for an unemployment rate below 5.0 percent over each of the next four years, compared with their previous estimates.

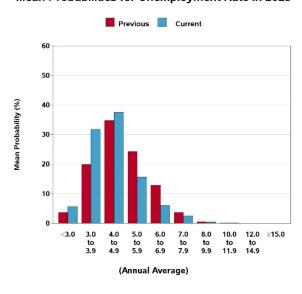
Mean Probabilities for Unemployment Rate in 2021



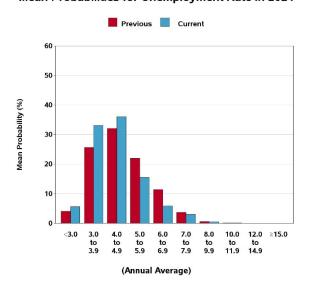
Mean Probabilities for Unemployment Rate in 2022



Mean Probabilities for Unemployment Rate in 2023



Mean Probabilities for Unemployment Rate in 2024



Forecasters Raise Their Projections for Inflation

The forecasters expect higher inflation, both in the short run and over the long run, for the survey's four measures of inflation, compared with their previous estimates. They predict current-quarter headline CPI inflation to average 3.2 percent, up from 2.1 percent in the last survey. Headline PCE inflation over the current quarter will be 3.0 percent, up 1.2 percentage points from the previous estimate.

Notably, projections for headline and core CPI and PCE inflation at all other forecast horizons have been revised upward, compared with those from the survey of three months ago.

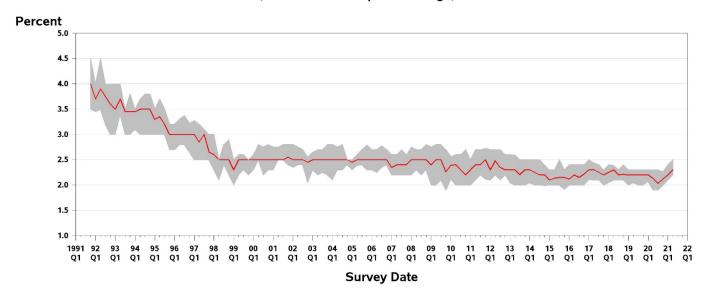
Over the next 10 years, 2021 to 2030, the forecasters expect headline CPI inflation to average 2.30 percent at an annual rate. The corresponding estimate for 10-year annual-average PCE inflation is 2.10 percent. These 10-year projections are slightly higher than those of the previous survey.

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

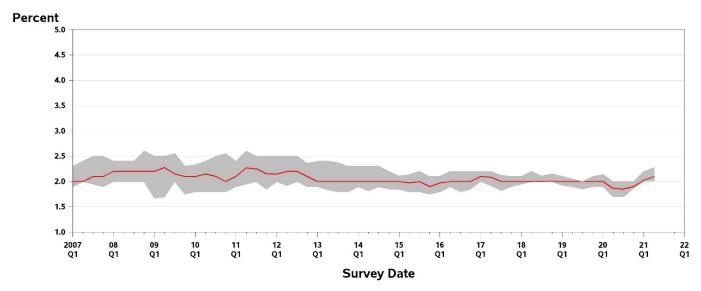
	Headli	ne CPI	Core	CPI	Headlin	ne PCE	Core PCE		
	Previous	Current	Previous	Current	Previous	Current	Previous	Current	
Quarterly									
2021:Q2	2.1	3.2	2.1	2.5	1.8	3.0	1.8	2.5	
2021:Q3	2.1	2.6	2.1	2.5	1.9	2.4	1.9	2.2	
2021:Q4	2.2	2.4	2.1	2.3	2.0	2.2	1.9	2.0	
2022:Q1	2.2	2.3	2.1	2.1	2.0	2.1	1.9	2.0	
2022:Q2	N.A.	2.2	N.A.	2.2	N.A.	2.1	N.A.	2.0	
Q4/Q4 Annual	Averages								
2021	2.2	3.0	2.0	2.1	2.0	2.8	1.8	2.3	
2022	2.2	2.3	2.1	2.2	1.9	2.2	1.9	2.0	
2023	2.2	2.3	2.2	2.3	2.0	2.2	2.0	2.1	
Long-Term An	nual Averag	ges							
2021-2025	2.20	2.40	N.A.	N.A.	2.00	2.20	N.A.	N.A.	
2021-2030	2.20	2.30	N.A.	N.A.	2.03	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 the projections for 10-year annual-average CPI and PCE inflation. The charts highlight higher projections for the long-term inflation rate, compared with those of the last survey.

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



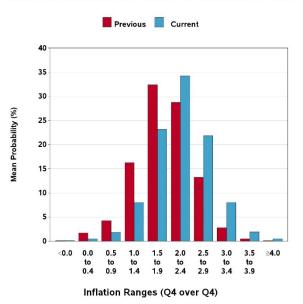
Projections for the 10-Year Annual-Average Rate of PCE Inflation (Median and Interquartile Range)

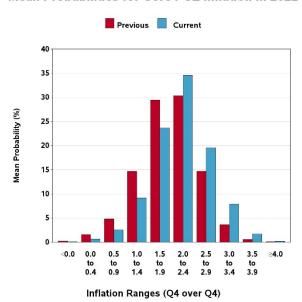


The figures below show the probabilities that the forecasters are assigning to each of 10 possible ranges for fourth-quarter over fourth-quarter core PCE inflation in 2021 and 2022. For both years, the forecasters have raised their estimates for the probability that core PCE inflation will be 2.0 percent or more, compared with their estimates from three months ago.



Mean Probabilities for Core PCE Inflation in 2022





Small (and Lower) Risk of a Negative Quarter

The forecasters expect only a small chance of a contraction in real GDP in any of the next five quarters, and these updated estimates are below those of the previous survey. They have cut their estimate of the risk of a downturn this quarter to 4.0 percent, compared with 12.7 percent in the survey of three months ago. The panelists have also made downward revisions to their probability estimates for the following three quarters.

Risk of a Negative Quarter (%) Survey Means

Quarterly data:	Previous	New
2021:Q2	12.7	4.0
2021:Q3	12.3	7.3
2021:Q4	12.9	10.1
2022:Q1	14.1	12.1
2022:Q2	N.A.	13.3

Technical Notes

New Probability Ranges

Beginning with the 2020:Q2 survey, changes were made to the definition of the probability bins for real GDP growth and the unemployment rate over the next four years.

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:

Lewis Alexander, Nomura Securities; Scott Anderson, Bank of the West (BNP Paribas Group); 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; Gregory Daco, Oxford Economics USA, Inc.; Rajeev Dhawan, Georgia State University; Bill Diviney, ABN AMRO Bank NV; G. Ehrlich, D. Manaenkov, T. Ranosova, and A. Thapar, RSQE, University of Michigan; Michael R. Englund, Action Economics, LLC; Sacha Gelfer, Bentley University; James Glassman, JPMorgan Chase & Co.; Jan Hatzius, Goldman Sachs; Fred Joutz, Benchmark Forecasts; Sam Kahan, Kahan Consulting Ltd. (ACT Research LLC); N. Karp, BBVA Research USA; Walter Kemmsies and Ryan Severino, Jones Lang LaSalle; Jack Kleinhenz, Kleinhenz & Associates, Inc.; Rohan Kumar, Decision Economics, Inc.; Thomas Lam, Sim Kee Boon Institute, Singapore Management University; John Lonski, Moody's Capital Markets Group; Matthew Luzzetti, Deutsche Bank Securities; IHS Markit; Robert McNab, Old Dominion University; R. Anthony Metz, Pareto Optimal Economics; R. M. Monaco, TitanRM; Michael Moran, Daiwa Capital Markets America; Joel L. Naroff, Naroff Economic Advisors; Brendon Ogmundson, BC Real Estate Association; Perc Pineda, Ph.D., Plastics Industry Association; Philip Rothman, East Carolina University; Chris Rupkey, MUFG Union Bank; Sean M. Snaith, Ph.D., University of Central Florida; Constantine G. Soras, Ph.D., CGS Economic Consulting, Inc.; Stephen Stanley, Amherst Pierpont Securities; Charles Steindel, Ramapo College of New Jersey; Susan M. Sterne, Economic Analysis Associates, Inc.; James Sweeney, Credit Suisse; Thomas Kevin Swift, American Chemistry Council; Maira Trimble, Eaton Corporation; 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

		2021 Q2				2022 Q2	2021	2022 (YEAR-	2023 OVER-YEA	2024 R)
PERCE	NT GROWTH AT ANNUAL RATES									
	EAL GDP BILLIONS, CHAIN WEIGHTED)	7.9	7.5	5.0	4.0	2.6	6.3	4.3	2.6	2.3
	DP PRICE INDEX PERCENT CHANGE)	2.7	2.5	2.3	2.4	2.1	2.7	2.3	N.A.	N.A.
	OMINAL GDP \$ BILLIONS)	10.7	9.4	7.9	6.1	5.4	9.1	6.7	N.A.	N.A.
(1	ONFARM PAYROLL EMPLOYMENT PERCENT CHANGE) AVG MONTHLY CHANGE)						2.8 331.6			
VARIA	BLES IN LEVELS									
	NEMPLOYMENT RATE PERCENT)	5.8	5.3	4.9	4.7	4.5	5.5	4.4	3.9	3.8
	-MONTH TREASURY BILL PERCENT)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.8
	0-YEAR TREASURY BOND PERCENT)	1.7	1.8	1.9	2.0	2.0	1.7	2.1	2.3	2.5
		2021 Q2			2022 Q1	2022 Q2		2022 Q4-OVER		
INFLA	FION INDICATORS									
8. Cl	PI ANNUAL RATE)	3.2	2.6	2.4	2.3	2.2	3.0	2.3	2.3	
	ORE CPI ANNUAL RATE)	2.5	2.5	2.3	2.1	2.2	2.1	2.2	2.3	
10. PG	CE ANNUAL RATE)	3.0	2.4	2.2	2.1	2.1	2.8	2.2	2.2	
	ORE PCE ANNUAL RATE)	2.5	2.2	2.0	2.0	2.0	2.3	2.0	2.1	

Note: The figures on each line are medians of 36 forecasters.

SURVEY OF PROFESSIONAL FORECASTE	RS
Second Quarter 2021	

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 29, 2021; the tables do not reflect subsequent revisions to the data. All forecasts were received on or before May 12, 2021.

TABLE ONE MAJOR MACROECONOMIC INDICATORS MEDIANS OF FORECASTER PREDICTIONS

		NUMBER	ACTUA:		FORECAST					FORECAST			
		OF FORECASTERS	2021 Q1	2021 Q2	2021 Q3	2021 Q4	2022 Q1	2022 Q2	2020 ANNUAL	2021 ANNUAL	2022 ANNUAL	2023 ANNUAL	2024 ANNUAL
1.	GROSS DOMESTIC PRODUCT (GDP) (\$ BILLIONS)	36	22049	22616	23129	23574	23924	24243	20937	22836	24361	N.A.	N.A.
2.	GDP PRICE INDEX (2012=100)	35	115.56	116.33	117.04	117.72	118.41	119.02	113.62	116.67	119.33	N.A.	N.A.
3.	CORPORATE PROFITS AFTER TAXES (\$ BILLIONS)	S 21	N.A.	2105.4	2127.0	2153.6	2190.5	2196.2	1834.7	2097.4	2215.2	N.A.	N.A.
4.	UNEMPLOYMENT RATE (PERCENT)	36	6.2	5.8	5.3	4.9	4.7	4.5	8.1	5.5	4.4	3.9	3.8
5.	NONFARM PAYROLL EMPLOYMENT (THOUSANDS)	30	143353	145065	147324	148771	149888	150748	142252	146231	151091	N.A.	N.A.
6.	INDUSTRIAL PRODUCTION (2012=100)	30	105.5	107.1	108.7	109.9	110.8	112.0	102.2	107.9	112.3	N.A.	N.A.
7.	NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	32	1.61	1.63	1.62	1.59	1.56	1.61	1.40	1.62	1.57	N.A.	N.A.
8.	3-MONTH TREASURY BILL RATE (PERCENT)	34	0.05	0.05	0.06	0.07	0.08	0.10	0.37	0.06	0.12	0.45	0.75
9.	MOODY'S AAA CORP BOND YIELD (PERCENT)	* 21	N.A.	3.00	3.10	3.25	3.30	3.42	N.A.	3.03	3.42	N.A.	N.A.
10.	MOODY'S BAA CORP BOND YIELD (PERCENT)	* 21	N.A.	3.70	3.86	4.06	4.20	4.38	N.A.	3.76	4.35	N.A.	N.A.
11.	10-YEAR TREASURY BOND YIELD (PERCENT)	35	1.32	1.67	1.80	1.90	2.00	2.00	0.89	1.66	2.06	2.25	2.48
12.	REAL GDP (BILLIONS, CHAIN WEIGHTED)	36	19088	19454	19809	20050	20248	20379	18426	19590	20432	20967	21444
13.	TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	E 32 1	3333.8	13629.5	13830.3	14007.5	14118.8	14216.2	12725.6	13697.4	14266.4	N.A.	N.A.
14.	NONRESIDENTIAL FIXED INVESTM (BILLIONS, CHAIN WEIGHTED)	ENT 31	2807.5	2863.1	2916.4	2982.6	3013.4	3054.5	2665.1	2888.6	3070.0	N.A.	N.A.
15.	RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	32	716.0	727.8	741.5	754.9	769.5	773.4	638.1	734.6	777.8	N.A.	N.A.
16.	FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	32	1376.1	1386.0	1397.2	1405.4	1411.0	1417.6	1332.6	1390.2	1420.0	N.A.	N.A.
17.	STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	32	1997.6	2007.6	2022.6	2042.2	2052.5	2061.7	2009.1	2018.8	2065.3	N.A.	N.A.
18.	CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	S 28	-85.5	18.5	55.6	65.8	76.5	75.2	-77.4	15.5	75.3	N.A.	N.A.
19.	NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	32 -	1175.5	-1229.6	-1255.6	-1262.2	-1266.4	-1271.4	-926.0	-1231.9	-1264.3	N.A.	N.A.

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

TABLE TWO
MAJOR MACROECONOMIC INDICATORS
PERCENTAGE CHANGES AT ANNUAL RATES

	FOI	NUMBER OF RECASTERS	TO	TO	TO	Q4 2021 TO Q1 2022	TO	2020 TO 2021	2021 TO 2022	2022 TO 2023	2023 TO 2024
1.	GROSS DOMESTIC PRODUCT (GDP) (\$ BILLIONS)	36	10.7	9.4	7.9	6.1	5.4	9.1	6.7	N.A.	N.A.
2.	GDP PRICE INDEX (2012=100)	35	2.7	2.5	2.3	2.4	2.1	2.7	2.3	N.A.	N.A.
3.	CORPORATE PROFITS AFTER TAXES (\$ BILLIONS)	21	20.0	4.2	5.1	7.0	1.0	14.3	5.6	N.A.	N.A.
4.	UNEMPLOYMENT RATE (PERCENT)	36	-0.4	-0.6	-0.4	-0.2	-0.2	-2.6	-1.1	-0.5	-0.1
5.	NONFARM PAYROLL EMPLOYMENT (PERCENT CHANGE) (AVG MONTHLY CHANGE)	30 30	4.9 570.6	6.4 753.0	4.0 482.4	3.0 372.3	2.3 287.0	2.8 331.6	3.3 405.1	N.A. N.A.	N.A. N.A.
6.	INDUSTRIAL PRODUCTION (2012=100)	30	6.3	6.1	4.5	3.1	4.4	5.6	4.1	N.A.	N.A.
7.	NEW PRIVATE HOUSING STARTS (ANNUAL RATE, MILLIONS)	32	4.4	-1.5	-9.0	-5.8	13.1	16.0	-3.1	N.A.	N.A.
8.	3-MONTH TREASURY BILL RATE (PERCENT)	34	0.00	0.01	0.01	0.01	0.02	-0.31	0.06	0.33	0.30
9.	MOODY'S AAA CORP BOND YIELD * (PERCENT)	21	N.A.	0.10	0.15	0.05	0.12	N.A.	0.40	N.A.	N.A.
10.	MOODY'S BAA CORP BOND YIELD * (PERCENT)	21	N.A.	0.16	0.20	0.14	0.18	N.A.	0.59	N.A.	N.A.
11.	10-YEAR TREASURY BOND YIELD (PERCENT)	35	0.35	0.14	0.10	0.10	0.00	0.77	0.40	0.19	0.23
12.	REAL GDP (BILLIONS, CHAIN WEIGHTED)	36	7.9	7.5	5.0	4.0	2.6	6.3	4.3	2.6	2.3
13.	TOTAL CONSUMPTION EXPENDITURE (BILLIONS, CHAIN WEIGHTED)	32	9.2	6.0	5.2	3.2	2.8	7.6	4.2	N.A.	N.A.
14.	NONRESIDENTIAL FIXED INVESTMEN (BILLIONS, CHAIN WEIGHTED)	NT 31	8.2	7.7	9.4	4.2	5.6	8.4	6.3	N.A.	N.A.
15.	RESIDENTIAL FIXED INVESTMENT (BILLIONS, CHAIN WEIGHTED)	32	6.8	7.8	7.4	8.0	2.0	15.1	5.9	N.A.	N.A.
16.	FEDERAL GOVERNMENT C & I (BILLIONS, CHAIN WEIGHTED)	32	2.9	3.3	2.4	1.6	1.9	4.3	2.1	N.A.	N.A.
17.	STATE AND LOCAL GOVT C & I (BILLIONS, CHAIN WEIGHTED)	32	2.0	3.0	3.9	2.0	1.8	0.5	2.3	N.A.	N.A.
18.	CHANGE IN PRIVATE INVENTORIES (BILLIONS, CHAIN WEIGHTED)	28	104.0	37.1	10.2	10.7	-1.3	92.9	59.7	N.A.	N.A.
19.	NET EXPORTS (BILLIONS, CHAIN WEIGHTED)	32	-54.1	-26.0	-6.6	-4.3	-5.0	-305.9	-32.3	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	1)
	OF FORECASTERS	2021 Q1	2021 Q2	2021 Q3	2021 Q4	2022 Q1	2022 Q2	2020 ANNUAL	2021 ANNUAL	2022 ANNUAL	2023 ANNUAL
1. CONSUMER PRICE INDEX (ANNUAL RATE)	36	3.7	3.2	2.6	2.4	2.3	2.2	1.2	3.0	2.3	2.3
2. CORE CONSUMER PRICE INDE: (ANNUAL RATE)	X 35	1.2	2.5	2.5	2.3	2.1	2.2	1.6	2.1	2.2	2.3
3. PCE PRICE INDEX (ANNUAL RATE)	35	3.5	3.0	2.4	2.2	2.1	2.1	1.2	2.8	2.2	2.2
4. CORE PCE PRICE INDEX (ANNUAL RATE)	35	2.3	2.5	2.2	2.0	2.0	2.0	1.4	2.3	2.0	2.1

TABLE FOUR YIELD SPREADS MEDIANS OF FORECASTER PREDICTIONS

	ACTUAL NUMBER			FORECAST					ACTUAL FORECAST			
	OF FORECASTERS	2021 Q1	2021 Q2	2021 Q3	2021 Q4	2022 Q1	2022 Q2	2020 ANNUAL	2021 ANNUAL	2022 ANNUAL	2023 ANNUAL	2024 ANNUAL
1. TBOND MINUS TBILL (PERCENTAGE POINTS)	33	1.27	1.61	1.69	1.76	1.83	1.87	0.53	1.58	1.87	1.92	1.89
2. AAA MINUS TBOND (PERCENTAGE POINTS)	21	N.A.	1.33	1.34	1.35	1.35	1.37	N.A.	1.36	1.37	N.A.	N.A.
3. BAA MINUS TBOND (PERCENTAGE POINTS)	21	N.A.	2.05	2.10	2.14	2.16	2.20	N.A.	2.12	2.21	N.A.	N.A.
4. BAA MINUS AAA (PERCENTAGE POINTS)	21	N.A.	0.72	0.72	0.75	0.77	0.79	N.A.	0.74	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.

TABLE FIVE ESTIMATED PROBABILITY OF DECLINE IN REAL GDP

ESTIMATED PROBABILITY (CHANCES IN 100)	Q1 2021 TO Q2 2021	Q2 2021 TO Q3 2021	TO	TO	TO
		NUMBER	OF FORECAS	STERS	
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	26 2 0 0 0 0 0 0 0	23 6 0 0 0 0 0 0 0 0	19 9 1 0 0 0 0 0 0 0	14 14 1 0 0 0 0 0 0 0	12 14 3 0 0 0 0 0 0 0
MEAN AND MEDIAN					
MEDIAN PROBABILITY MEAN PROBABILITY	2.00 3.95	5.00 7.31	10.00 10.09	12.00 12.11	13.00 13.32

Note: Total number of forecasters reporting is 28.

TABLE SIX MEAN PROBABILITIES

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

	2021	2022	2023	2024
15.0 PERCENT OR	MORE 0.03	0.00	0.00	0.00
12.0 TO 14.9 PER	CENT 0.10	0.03	0.05	0.05
10.0 TO 11.9 PER	CENT 0.20	0.11	0.14	0.16
8.0 TO 9.9 PER	CENT 1.05	0.53	0.43	0.52
7.0 TO 7.9 PER	CENT 4.63	2.50	2.55	3.08
6.0 TO 6.9 PER	CENT 19.91	9.58	6.03	5.89
5.0 TO 5.9 PER	CENT 52.35	24.49	15.70	15.52
4.0 TO 4.9 PER	CENT 20.02	41.63	37.49	36.05
3.0 TO 3.9 PER	CENT 1.40	19.29	31.88	33.14
LESS THAN 3.0 PER	CENT 0.30	1.84	5.73	5.59

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

		2020-2021	2021-2022	2022-2023	2023-2024
16.0 PERCENT	OR MORE	0.17	0.10	0.00	0.00
10.0 TO 15.9	PERCENT	2.30	0.78	0.48	0.30
7.0 TO 9.9	PERCENT	24.28	8.61	2.02	1.06
4.0 TO 6.9	PERCENT	51.43	37.88	12.43	8.93
2.5 TO 3.9	PERCENT	15.56	31.35	34.68	31.18
1.5 TO 2.4	PERCENT	4.47	15.51	32.27	32.78
0.0 TO 1.4	PERCENT	1.42	4.33	13.34	18.40
-3.0 TO -0.1	PERCENT	0.30	1.08	3.95	6.21
-6.0 TO -3.1	PERCENT	0.03	0.30	0.61	0.86
-12.0 TO -6.1	PERCENT	0.03	0.07	0.17	0.25
LESS THAN -12.0	PERCENT	0.00	0.00	0.04	0.05

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

	2020-2021	2021-2022
4.0 PERCENT OR MORE	1.64	1.07
3.5 TO 3.9 PERCENT	7.41	4.22
3.0 TO 3.4 PERCENT	17.90	10.18
2.5 TO 2.9 PERCENT	30.20	21.96
2.0 TO 2.4 PERCENT	29.10	32.68
1.5 TO 1.9 PERCENT	9.45	19.42
1.0 TO 1.4 PERCENT	3.50	6.98
0.5 TO 0.9 PERCENT	0.77	2.49
0.0 TO 0.4 PERCENT	0.03	0.68
LESS THAN 0.0 PERCENT	0.00	0.32

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

MEAN PROBABILITY ATTACHED TO CORE CPI INFLATION:

	20Q4 TO 21Q4	21Q4 TO 22Q4
4.0 PERCENT OR MO	RE 0.69	0.44
3.5 TO 3.9 PERCEN	T 2.66	2.07
3.0 TO 3.4 PERCEN	T 11.23	10.11
2.5 TO 2.9 PERCEN	T 24.03	25.25
2.0 TO 2.4 PERCEN	T 28.73	32.16
1.5 TO 1.9 PERCEN	T 19.88	18.92
1.0 TO 1.4 PERCEN	T 9.94	7.19
0.5 TO 0.9 PERCEN	T 2.31	2.46
0.0 TO 0.4 PERCEN	T 0.50	0.79
LESS THAN 0.0 PERCEN	T 0.04	0.62

MEAN PROBABILITY ATTACHED TO CORE PCE INFLATION:

		20Q4 TO 21Q4	21Q4 TO 22Q4
4.0 PERCE	ENT OR MORE	0.48	0.18
3.5 TO 3.	.9 PERCENT	1.90	1.71
3.0 TO 3.	.4 PERCENT	8.02	7.83
2.5 TO 2.	.9 PERCENT	21.82	19.53
2.0 TO 2.	.4 PERCENT	34.22	34.59
1.5 TO 1.	.9 PERCENT	23.16	23.70
1.0 TO 1.	.4 PERCENT	8.03	9.18
0.5 TO 0.	.9 PERCENT	1.82	2.52
0.0 TO 0.	.4 PERCENT	0.48	0.63
LESS THAN 0.	.0 PERCENT	0.07	0.14

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

ANNUAL AVERAGE OVER THE NEXT 5 YEARS: 2021-2025

CPI INFLATION RATE		PCE INFLATION RATE	
MINIMUM	2.10	MINIMUM	1.90
LOWER QUARTILE	2.29	LOWER QUARTILE	2.10
MEDIAN	2.40	MEDIAN	2.20
UPPER QUARTILE	2.50	UPPER QUARTILE	2.50
MAXIMUM	3.40	MAXIMUM	3.20
MEAN	2.44	MEAN	2.29
STD. DEVIATION	0.28	STD. DEVIATION	0.30
N	29	N	29
MISSING	7	MISSING	7

ANNUAL AVERAGE OVER THE FOLLOWING 5 YEARS: 2026-2030

CPI INFLATION RATE		PCE INFLATION RATE	1
MINIMUM	1.90	MINIMUM	1.60
LOWER QUARTILE	2.00	LOWER QUARTILE	1.90
MEDIAN	2.20	MEDIAN	2.05
UPPER QUARTILE	2.45	UPPER QUARTILE	2.30
MAXIMUM	3.80	MAXIMUM	3.60
MEAN	2.27	MEAN	2.14
STD. DEVIATION	0.38	STD. DEVIATION	0.36
N	28	N	28
MISSING	8	MISSING	8

ANNUAL AVERAGE OVER THE NEXT 10 YEARS: 2021-2030

CPI INFLATION RATE		PCE INFLATION RATE	
MINIMUM	2.00	MINIMUM	1.80
LOWER QUARTILE	2.20	LOWER QUARTILE	2.02
MEDIAN	2.30	MEDIAN	2.10
UPPER QUARTILE	2.50	UPPER QUARTILE	2.28
MAXIMUM	3.60	MAXIMUM	3.40
MEAN	2.35	MEAN	2.21
STD. DEVIATION	0.31	STD. DEVIATION	0.31
N	28	N	28
MISSING	8	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.