## RESPONSES TO SURVEY OF MARKET PARTICIPANTS

Markets Group, Federal Reserve Bank of New York



## JULY 2020

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The **Survey of Market Participants** is formulated by the Trading Desk at the Federal Reserve Bank of New York to enhance policymakers' understanding of market expectations on a variety of topics related to the economy, monetary policy and financial markets. The questions involve only topics that are widely discussed in the public domain and never presume any particular policy action. FOMC participants are not involved in the survey's design.

For most questions, median responses across participants, along with the 25th and 75th percentiles, are reported. For questions that ask respondents to give a probability distribution, the average response across participants for each potential outcome is reported. Brief summaries of the comments received in free response form are also provided.

Responses were received from 29 market participants. Except where noted, all 29 participants responded to each question. In some cases, participants may not have provided complete responses (e.g. may not have provided forecasts extending to the same time horizon as requested in the survey). In these instances, the number of respondents who answered all parts of the question is indicated.

List of Market Participants: www.newyorkfed.org/markets/survey market participants.html

<sup>&</sup>lt;sup>1</sup> Answers may not sum to 100 percent due to rounding.

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1a) Provide below your expectations for **changes**, if any, to the language referencing each of the following topics in the July FOMC statement. **Please write N/A if you do not expect any changes.** 

Current economic conditions:

(28 responses)

Many respondents indicated that they expected no material changes to this section of the statement, while several indicated that they expected the Committee to note a recovery in economic activity and several indicated that they expected the Committee to note an improvement in labor market conditions. In addition, several respondents indicated that they expected the Committee to mention the coronavirus outbreak.

Economic outlook and communication on the expected path of the target federal funds rate: (28 responses)

Many respondents indicated that they expected no material changes to both elements of the statement. Some respondents indicated that they expected the Committee to note uncertainty around and/or risks to the economic outlook, and several indicated that they expected the Committee to mention the coronavirus outbreak.

Communication on tools other than the target federal funds rate: (28 responses)

Most respondents indicated that they expected no material changes to this section of the statement.

Other:

(15 responses)

Respondents did not provide significant commentary in this section.

**1b)** What are your expectations for the Chair's press conference? (28 responses)

Several respondents indicated that they expected the Chair to mention the economic impact of the coronavirus, and several indicated that they expected the Chair to reiterate that the Federal Reserve is committed to using its full range of tools to support the U.S. economy and/or that it will do more if needed. Several respondents indicated that they expected the Chair to comment on progress on the monetary policy framework review, and several indicated that they expected him to reiterate the importance of more fiscal support.

2) How would you grade the Federal Reserve System's communication with the markets and with the public since the last policy survey? Please provide a rating between 1 and 5, with 1 indicating ineffectiveness and 5 indicating effectiveness.

	Number of Respondents
1 - Ineffective	0
2	0
3	4
4	17
5 - Effective	8
# of Responses	29

Please explain.

(28 responses)

In explaining their rating, most respondents noted messaging from Committee members since the last policy survey has been clear and consistent, with several specifically citing communications on the path of policy, forward guidance and/or yield curve caps or targets, the outlook for the economy and/or the coronavirus, and the Federal Reserve's commitment to use its full range of tools to support the economy.

**3a)** Provide your estimate of the most likely outcome (i.e., the mode) for the target federal funds rate or range, as applicable, immediately following the FOMC meetings and at the end of each of the following quarters below. For the time periods at which you expect a target range, please indicate the midpoint of that range in providing your response.

	Jul. 28-29	Sep. 15-16	Nov. 4-5	Dec. 15-16	Jan. 26-27	Mar. 16-17	Apr. 27-28
25th Pctl	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
Median	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
75th Pctl	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
# of Responses	29	29	29	29	29	29	29
	2021 Q2	2021 Q3	2021 Q4	2022 Q1	2022 Q2	2022 Q3	2022 Q4
25th Pctl	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
Median	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
75th Pctl	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%
# of Responses	29	29	29	29	29	29	29

If your responses above do <u>not</u> reflect an increase from the current target range at any point, please provide the earliest half-year period in which your modal expectation for the level of the target range is higher than the current level.

	Earliest half-year period*
25th Pctl	H2 2023
Median	H2 2023
75th Pctl	H2 2024/H1 2025**
# of Responses	24

<sup>\*</sup> Dropdown selections: H1 2023, H2 2023, H1 2024, H2 2024, H1 2025, H2 2025, H1 2026 or later.

3b) Provide your estimate for the most likely value for the following indicators at the time of the next increase in the target range for the federal funds rate.(26 responses)

	Most Likely Value of Economic Indicator at Time of First Increase in Target Range						
	Unemployment rate (%)	Labor force participation rate (%)	Total change in the level of real GDP since 2019 Q4 (%)	Headline 12-month PCE inflation (%)			
25th Pctl	4.0%	62.5%	4.5%	1.9%			
Median	4.5%	63.0%	7.0%	2.0%			
75th Pctl	5.0%	63.0%	10.0%	2.2%			

**3c)** In addition, provide your estimate of the longer run target federal funds rate and your expectation for the average federal funds rate over the next 10 years.

		10-yr Average
	Longer Run	FF Rate
25th Pctl	1.50%	0.75%
Median	2.00%	1.25%
75th Pctl	2.38%	1.50%

**3d)** Please indicate the percent chance that you attach to the target federal funds rate or range falling in each of the following ranges at the end of 2020, 2021, and 2022. If you expect a target range, please use the midpoint of that range in providing your response.

				Funds Rate						
	< 0.00%	0.00 - 0.25%	0.26 - 0.50%	0.51 - 0.75%	0.76 - 1.00%	1.01 - 1.25%	1.26 - 1.50%	1.51 - 1.75%	1.76 - 2.00%	≥ 2.01%
Average	3%	95%	2%	0%	0%	0%	0%	0%	0%	0%

Federal Funds Rate or Range at the End of 2021										
	< 0.00%		0.26 - 0.50%			1.01 - 1.25%		1.51 - 1.75%	1.76 - 2.00%	≥ 2.01%
Average	4%	68%	12%	10%	5%	1%	0%	0%	0%	0%

<sup>\*\* 75</sup>th percentile is between H2 2024 and H1 2025.

Federal Funds Rate or Range at the End of 2022										
	< 0.00%	0.00 - 0.25%	0.26 - 0.50%	0.51 - 0.75%	0.76 - 1.00%	1.01 - 1.25%	1.26 - 1.50%	1.51 - 1.75%	1.76 - 2.00%	≥ 2.01%
Average	6%	54%	13%	8%	6%	6%	3%	1%	2%	1%

**3e)** What is your estimate of the target federal funds rate or range at the effective lower bound? (28 responses)

	Level of Target Federal Funds Rate or Range at ELB
25th Pctl	-0.50%
Median	0.00%
75th Pctl	0.13%

**3f)** For parts a-e, please explain the factors behind any change to your expectations, where applicable, since the last policy survey.

(28 responses)

Many respondents indicated that they had pushed back their expectations for the timing of the next increase in the target range for the federal funds rate, including several who indicated that they expected a more accommodative stance in part due to the Committee's June Summary of Economic Projections. In addition, some respondents indicated that there were no material changes to their expectations.

The neutral real federal funds rate can be understood as the level of the real federal funds rate that would be neither expansionary nor contractionary if the economy were operating at or near its potential. Please provide your estimate for the level of the neutral <u>real</u> federal funds rate at each of the time periods below. (24 responses)

	Current Level	Year-end 2020	Year-end 2021	Year-end 2022
25th Pctl	-0.21%	-0.15%	0.00%	0.05%
Median	0.25%	0.25%	0.38%	0.50%
75th Pctl	0.50%	0.50%	0.68%	0.81%

Please explain the factors behind any changes to your estimates since the policy survey on January 21. (23 responses)

Several respondents noted that they had made no material changes to their estimates, while several indicated that they lowered their estimates due to the coronavirus pandemic, and several noted uncertainty in their estimates.

If you expect a change to forward guidance for the federal funds rate in the FOMC statement at any point in the future, please provide your estimate for the most likely timing of the next change. If you do not expect a change at any point in the future, select N/A.

	Most likely timing for change*
25th Pctl	Sep 2020 FOMC
Median	Sep 2020 FOMC
75th Pctl	Jan 2021 FOMC

<sup>\*</sup> Dropdown selections: Jul 2020 FOMC, Sep 2020 FOMC, Nov 2020 FOMC, Dec 2020 FOMC, Jan 2021 FOMC, Mar 2021 FOMC, Apr 2021 FOMC, Jul 2021 FOMC, Jul 2021 FOMC, Sep 2021 FOMC, Nov 2021 FOMC, Dec 2021 FOMC, Jan 2022 FOMC or later, and N/A. The statistics do not include the selection of N/A.

If applicable, please describe your expectations for the most likely change to forward guidance for the federal funds rate at the time you indicated above.

(26 responses)

Many respondents indicated that they expected the result of any change to forward guidance for the federal funds rate to most likely be a form of outcome-based guidance. Some respondents indicated that they expected inflation-based guidance: some indicated that they expected forward guidance to be tied to inflation at or above 2 percent; and several indicated that they expected guidance that the target inflation level would be sustainably achieved. In addition, several respondents indicated that they expected unemployment rate-based as well as inflation-based measures to be included in outcome-based forward guidance.

Please provide your modal expectation for the amount of purchases, <u>net of reinvestments</u>, of U.S. Treasury securities, agency mortgage-backed securities (MBS), and agency commercial mortgage-backed securities (CMBS) the Desk will conduct for each month listed below through the end of the year and the total over each calendar year for 2021 and 2022. If you expect any of these amounts to be zero in a given period, please enter 0.

(22 responses)

	Net purchases of U.S. Treasury securities (\$ billions)							
	Jul. 2020	Aug. 2020	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020	Total in 2021	Total in 2022
25th Pctl	80	80	80	80	80	80	480	0
Median	80	80	80	80	80	80	800	400
75th Pctl	80	80	80	80	80	80	960	750

	Net purchases of agency MBS (\$ billions)							
	Jul. 2020	Aug. 2020	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020	Total in 2021	Total in 2022
25th Pctl	40	40	40	40	38	33	200	0
Median	40	40	40	40	40	40	360	110
75th Pctl	55	45	50	50	50	50	520	455

	Net purchases of agency CMBS (\$ millions)							
	Jul. 2020	Aug. 2020	Sep. 2020	Oct. 2020	Nov. 2020	Dec. 2020	Total in 2021	Total in 2022
25th Pctl	100	75	50	0	0	0	0	0
Median	350	350	250	78	78	78	280	0
75th Pctl	1000	1000	1000	1000	1000	1000	3000	0

<sup>\*</sup> For MBS, in June reinvestments were approximately \$56 billion.

**6b)** If you have formed expectations for the most likely level (\$ billions) of Federal Reserve assets associated with any of the following, please provide your expectations for their levels on September 30, 2020 below. If you expect any of these amounts to be zero on this date, please enter 0.

	Level on September 30, 2020 (\$ billions)							
	Discount Window	PDCF	MMLF	CPFF	MSNLF	MSELF	MSPLF	MLF
25th Pctl	0	0	10	0	30	25	15	8
Median	3	1	11	9	55	32	32	43
75th Pctl	10	5	25	20	180	180	190	200
# of Responses	14	13	14	14	14	14	12	16

	TALF	PMCCF	SMCCF	PPPLF	Central bank liquidity swaps	FIMA repo	Repo agreements with primary dealers	Any additional programs
25th Pctl	10	0	30	60	50	0	0	0
Median	30	13	55	125	113	0	0	0
75th Pctl	75	25	100	350	200	10	75	0
# of Responses	14	14	14	15	14	14	14	8

**7)** Beyond your responses provided in the questions above, please describe your expectations for any additional actions or monetary policy measures, or modifications to those previously announced, by the Federal Reserve through year-end 2020.

(26 responses)

In describing their expectations through year-end 2020, some respondents indicated that they did not expect substantial further actions, measures, or modifications to be implemented this year. Several respondents indicated that they expected various credit and liquidity programs to be adjusted, and several indicated that they expected adjustments to the Federal Reserve's current asset purchase program.

Please describe your expectations for any additional U.S. federal fiscal policy measures through year-end 2020 to support the economy, if applicable. (27 responses)

Most respondents indicated that they expected at least some additional U.S. federal fiscal policy measures through year-end 2020 to support the economy, with several expecting these measures before the Congressional recess in August. Many suggested that the size of the additional fiscal policy measures would be between \$1 trillion and \$2 trillion. Most respondents indicated that they expected a new spending package to include an extension of unemployment benefits, many indicated that they expected additional funding to support state and local governments, and several indicated that they expected additional funding for small business lending.

9) Please provide your expectations for the outcome of the Federal Reserve's ongoing review of its monetary policy framework related to: i) monetary policy strategy; ii) tools; and iii) communication practices. (27 responses)

With respect to strategy, many respondents indicated that they expected or saw the possibility of the Federal Reserve adopting some form of an average inflation target as a result of the review.

With respect to tools, some respondents indicated that they expected the addition of yield caps or targets to the Federal Reserve's toolkit as a result of the review. Several respondents also noted that they expected the Federal Reserve to reaffirm the roles of existing tools, such as forward guidance and asset purchases.

Respondents did not provide significant commentary with respect to communications.

**10a)** Please indicate your modal projections for U.S. real GDP growth for each quarter (seasonally adjusted annual rate).

(28 responses)

	Modal Projection for U.S. Real GDP Growth (percent)					
	Q2 2020 (saar)	Q3 2020 (saar)	Q4 2020 (saar)			
25th Pctl	-35.0%	10.5%	5.0%			
Median	-33.6%	15.0%	7.0%			
75th Pctl	-30.0%	20.0%	10.0%			

**10b)** Please provide the percent chance you attach to the following outcomes for U.S. real GDP growth in 2020 and 2021 (Q4/Q4).

(28 responses)

Pro	bability Dist	ribution of	U.S. Real G	DP Growth	in 2020 (Q	I/Q4)
	≤ -8.01%	-8.00 - -6.01%	-6.00 - -4.01%	-4.00 - -2.01%	-2.00 - -0.01%	≥ 0 %
Average	17%	28%	35%	15%	4%	1%

Prob	ability Dist	ribution of	U.S. Real G	DP Growth	in 2021 (Q	4/Q4)
	< 0%	0.00 - 2.00%	2.01 - 4.00%	4.01 - 6.00%	6.01 - 8.00%	≥ 8.01%
Average	8%	16%	35%	27%	10%	3%

**11a)** For the outcomes below, provide the percent chance you attach to the annual average <u>CPI inflation</u> rate from July 1, 2020 - June 30, 2025 falling in each of the following ranges. Please also provide your point estimate for the most likely outcome.

	≤ 1.00%		1.51 - 2.00%			≥ 3.01%
Average	10%	21%	32%	24%	9%	4%

	Most Likely Outcome
25th Pctl	1.54%
Median	1.80%
75th Pctl	2.00%

**11b)** For the outcomes below, provide the percent chance you attach to the annual average <u>CPI inflation</u> rate from July 1, 2025 – June 30, 2030 falling in each of the following ranges. Please also provide your point estimate for the most likely outcome.

	≤ 1.00%	1.01 - 1.50%		2.01 - 2.50%	2.51 - 3.00%	≥ 3.01%
Average	7%	14%	28%	30%	14%	7%

	Most Likely Outcome
25th Pctl	2.00%
Median	2.10%
75th Pctl	2.25%

**12a)** What percent chance do you attach to:

the U.S. economy currently being in a recession\*? the U.S. economy being in a recession\* **in 6 months**? the global economy being in a recession\*\* **in 6 months**?

	Currently in U.S. Recession		U.S. Recession in 6 Months		Global Recession in 6 Months
25th Pctl	40%	25th Pctl	15%	25th Pctl	25%
Median	100%	Median	35%	Median	40%
75th Pctl	100%	75th Pctl	50%	75th Pctl	50%

<sup>\*</sup>NBER-defined recession

12b) Please explain the factors behind any change to your expectations in part a since the last policy survey. (26 responses)

Many respondents pointed to an improvement in economic data, several suggested that economic growth reached a trough in April or May, and several noted progress toward and/or an increased likelihood of the development of a coronavirus vaccine. Several respondents noted an improvement in developments surrounding the coronavirus in regions outside the U.S. as lowering the likelihood of a global recession in 6 months. Finally, several respondents highlighted the risk of another recession stemming from rising coronavirus cases and stalled reopenings in the U.S.

<sup>\*\*</sup>Previous IMF staff work has suggested that a "global recession" can be characterized as a period during which there is a decline in annual per-capita real global GDP, backed up by a decline or worsening in one or more of the following global macroeconomic indicators: industrial production, trade, capital flows, oil consumption and unemployment.