RESPONSES TO SURVEY OF MARKET PARTICIPANTS

Markets Group, Federal Reserve Bank of New York

JUNE 2018

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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.[1] 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 27 market participants. Except where noted, all 27 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.

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[1] Answers may not sum to 100 percent due to rounding.

List of Market Participants:
www.newyorkfed.org/markets/survey_market_participants.html

1a) Provide below your expectations for changes, if any, to the language referencing each of the following topics in the June FOMC statement.

Current economic conditions:
(26 responses)

> **Some respondents indicated that they expected no change to the characterization of current economic conditions. However, several indicated that they expected the Committee to note a decline in the unemployment rate, and several indicated that they expected the Committee to acknowledge an acceleration in household spending.**

Economic outlook:
(25 responses)

> **Some respondents indicated that they expected no change to the Committee's characterization of the economic outlook.**

Communication on the expected path of the target fed funds rate:
(26 responses)

> **Several respondents indicated that they expected no material changes to this section of the statement, while several others indicated that they expected the Committee to remove the clause "the federal funds rate is likely to remain, for some time, below levels that are expected to prevail in the longer run".**

Other:
(13 responses)

> **Respondents did not provide substantial commentary in this section.**

1b) What are your expectations for the medians of FOMC participants' economic projections in the Summary of Economic Projections (SEP)?
(26 responses)

> **Many respondents indicated that they expected a downward revision to the medians of participants' unemployment rate forecasts, with several indicating that they expected a downward revision to the median 2018 unemployment forecast in particular. Some respondents indicated that they did not expect material changes to the medians of participants' economic projections. Finally, several respondents indicated that they expected an upward revision to the median 2018 real GDP growth forecast.**

1c) What are your expectations for the most likely levels of the medians of FOMC participants' target federal funds rate projections in the SEP?

	Year-end 2018	Year-end 2019	Year-end 2020	Longer Run
25th Pctl	**2.13%**	**2.88%**	**3.38%**	**2.88%**
Median	**2.13%**	**2.88%**	**3.38%**	**2.88%**
75th Pctl	**2.38%**	**2.88%**	**3.38%**	**3.00%**

Please comment on the balance of risks around your expectations.

> **Many respondents indicated that they viewed the balance of risks around median target federal funds rate projections as tilted to the upside, with several indicating that they saw upside risk to the year-end 2018 and year-end 2019 median projections in particular. On the other hand, several respondents indicated that they viewed the balance of risks as tilted to the downside, with several indicating that they saw downside risk to their expectation for the year-end 2018 median projection in particular.**

1d) Additionally, please describe any expected changes to the distributions of FOMC participants' target rate projections, if applicable.
(22 responses)

> **Several respondents indicated that they did not expect material changes to the distribution of participants' target rate projections, while several indicated that they expected the distribution of participants' projections to narrow. In addition, several respondents indicated that they expected the average of participants' projections to increase, with several indicating that they expected the average of year-end 2018 projections in particular to increase.**

1e) What are your expectations for the Chairman's press conference?
(25 responses)

> **Some respondents indicated that they expected Chairman Powell to discuss trade-related risks during his press conference, though several indicated that they expected him to downplay these risks. Some respondents indicated that they expected the Chairman to indicate that the gradual removal of monetary policy accommodation remains appropriate, and several indicated that they expected him to note the Committee's progress in achieving its 2 percent inflation objective. Finally, several respondents indicated that they expected the Chairman to discuss views on the Committee regarding the stance of monetary policy relative to neutral.**

2a) 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 and half years below. For the time periods at which you expect a target range, please indicate the midpoint of that range in providing your response.

	Jun. 12-13 2018	Jul. 31 - Aug. 1 2018	Sep. 25-26 2018	Nov. 7-8 2018	Dec. 18-19 2018	Jan. 29-30 2019	Mar. 19-20 2019
25th Pctl	**1.88%**	**1.88%**	**2.13%**	**2.13%**	**2.13%**	**2.13%**	**2.38%**
Median	**1.88%**	**1.88%**	**2.13%**	**2.13%**	**2.38%**	**2.38%**	**2.38%**
75th Pctl	**1.88%**	**1.88%**	**2.13%**	**2.13%**	**2.38%**	**2.38%**	**2.63%**
# of Responses	**27**	**27**	**27**	**27**	**27**	**27**	**27**
	2019 Q2	2019 Q3	2019 Q4	2020 Q1	2020 Q2	2020 Q3	2020 Q4
25th Pctl	**2.38%**	**2.63%**	**2.88%**	**2.88%**	**2.88%**	**2.88%**	**2.88%**
Median	**2.63%**	**2.88%**	**2.88%**	**3.13%**	**3.13%**	**3.13%**	**3.13%**
75th Pctl	**2.88%**	**3.13%**	**3.38%**	**3.38%**	**3.38%**	**3.50%**	**3.38%**
# of Responses	**27**	**27**	**27**	**27**	**27**	**27**	**27**

2b)   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.

	Longer Run	10-yr Average FF Rate
25th Pctl	**2.75%**	**2.00%**
Median	**2.88%**	**2.50%**
75th Pctl	**3.13%**	**2.80%**

2c)   Please indicate the percent chance that you attach to the following possible outcomes for the Committee's next policy action <u>between now and the end of 2018</u>.

	Next Change is Increase in Target Rate or Range	Next Change is Decrease in Target Rate or Range	No Change in Target Rate or Range Through the End of 2018
Average	**94%**	**2%**	**4%**

2d)   Conditional on the Committee's next policy action <u>between now and the end of 2018</u> being an <u>increase</u> in the target federal funds rate or range, please indicate the percent chance that you attach to the following possible outcomes for the timing of such a change. Only fill out this conditional probability distribution if you assigned a non-zero probability to the Committee's next policy action between now and the end of 2018 being an increase.

	Increase Occurs at June FOMC meeting	Increase Occurs at Jul./Aug. FOMC meeting	Increase Occurs at September FOMC Meeting or later
Average	**92%**	**3%**	**5%**

2e)   Please indicate the percent chance that you attach to the target federal funds rate or range falling in each of the following ranges <u>at the end of 2018,</u> conditional on the following possible scenarios for the direction and timing of the Committee's next policy action <u>between now and the end of 2018</u>. Only fill out the conditional probability distributions for which you assigned a non-zero probability to the conditioning

event occurring. If you expect a target range, please use the midpoint of that range in providing your response.
(26 responses)

Next change is an increase, occurs at Jul./Aug. FOMC meeting or earlier							
≤ 1.00%	1.01 - 1.25%	1.26 - 1.50%	1.51 - 1.75%	1.76 - 2.00%	2.01 - 2.25%	2.26 - 2.50%	≥ 2.51%
Average 2%	**1%**	**2%**	**4%**	**12%**	**35%**	**38%**	**7%**

Next change is an increase, occurs at Sep. FOMC meeting or later							
≤ 1.00%	1.01 - 1.25%	1.26 - 1.50%	1.51 - 1.75%	1.76 - 2.00%	2.01 - 2.25%	2.26 - 2.50%	≥ 2.51%
Average 2%	**2%**	**5%**	**10%**	**30%**	**42%**	**8%**	**2%**

Next change is a decrease							
< 0.0%	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%
Average 6%	**27%**	**17%**	**11%**	**13%**	**15%**	**10%**	**2%**

2f-i) Please indicate the percent chance that you attach to the target federal funds rate or range falling in each of the following ranges <u>at the end of 2019 and 2020</u>, <u>conditional on **not** moving to the zero lower bound (ZLB) at any point between now and the end of 2020</u>. If you expect a target range, please use the midpoint of that range in providing your response.
(26 responses)

Year-end 2019						
≤ 1.00%	1.01- 1.50%	1.51- 2.00%	2.01- 2.50%	2.51- 3.00%	3.01- 3.50%	≥ 3.51%
Average 3%	**4%**	**8%**	**19%**	**33%**	**24%**	**10%**

Year-end 2020						
≤ 1.00%	1.01- 1.50%	1.51- 2.00%	2.01- 2.50%	2.51- 3.00%	3.01- 3.50%	≥ 3.51%
Average 6%	**5%**	**7%**	**15%**	**25%**	**26%**	**15%**

2f-ii) Please indicate the percent chance that you attach to moving to the ZLB at some point between <u>now and the end of 2020</u>.

	Probability of Moving to ZLB at Some Point between Now and the End of 2020
25th Pctl	**5%**
Median	**20%**
75th Pctl	**30%**

2f-iii) Please indicate the percent chance that you attach to the target federal funds rate or range falling in each of the following ranges <u>at the end of 2019 and 2020</u>, <u>conditional on moving to the ZLB at some point between now and the end of 2020</u>. Only fill out these conditional probability distributions if you assigned a non-zero probability to moving to the ZLB at some point between now and the end of 2020. If you expect a target range, please use the midpoint of that range in providing your response.
(26 responses)

Year-end 2019							
< 0.00%	0.00-0.25%	0.26-0.50%	0.51-1.00%	1.01-1.50%	1.51-2.00%	2.01-2.50%	≥ 2.51%
9%	**47%**	**15%**	**8%**	**5%**	**4%**	**4%**	**7%**

Average

Year-end 2020							
< 0.00%	0.00-0.25%	0.26-0.50%	0.51-1.00%	1.01-1.50%	1.51-2.00%	2.01-2.50%	≥ 2.51%
13%	**62%**	**13%**	**7%**	**3%**	**1%**	**0%**	**0%**

Average

2f-iv) What is your estimate of the target federal funds rate or range at the effective lower bound?
(26 responses)

	Level of Target Fed Funds Rate or Range at ELB
25th Pctl	**-0.38%**
Median	**0.00%**
75th Pctl	**0.13%**

2g) For parts a-f, please explain the factors behind any change to your expectations, where applicable, since the last policy survey.
(21 responses)

> **Several respondents stated that their expectations had changed due recent strong economic data, while several indicated that there had been no material change to their expectations.**

3a) Provide your estimate of the most likely outcome for the 10-year Treasury yield at the end of each period below. In addition, provide your estimate of the longer-run level of the 10-year Treasury yield.

	2018 Q2	2018 Q3	2018 Q4	2019 Q1
25th Pctl	2.90%	3.00%	3.10%	3.15%
Median	3.00%	3.05%	3.20%	3.25%
75th Pctl	3.00%	3.15%	3.25%	3.50%
# of Responses	27	27	27	27
	2019 Q2	2019 H2	2020 H1	2020 H2
25th Pctl	3.25%	3.20%	3.25%	3.00%
Median	3.30%	3.40%	3.40%	3.40%
75th Pctl	3.50%	3.50%	3.50%	3.50%
# of Responses	27	27	27	27

	Longer Run
25th Pctl	3.00%
Median	3.25%
75th Pctl	3.50%
# of Responses	26

3b)   Provide your estimate of the most likely outcome for the 30-year fixed primary mortgage rate at the end of each period below. In addition, provide your estimate of the longer-run level of the 30-year fixed primary mortgage rate.

	2018 Q2	2018 Q3	2018 Q4	2019 Q1
25th Pctl	4.45%	4.50%	4.65%	4.75%
Median	4.50%	4.64%	4.80%	4.90%
75th Pctl	4.60%	4.75%	4.95%	5.00%
# of Responses	26	26	26	26
	2019 Q2	2019 H2	2020 H1	2020 H2
25th Pctl	4.85%	4.75%	4.75%	4.50%
Median	4.95%	5.00%	5.10%	5.00%
75th Pctl	5.13%	5.25%	5.25%	5.25%
# of Responses	26	26	26	26

	Longer Run
25th Pctl	4.50%
Median	4.95%
75th Pctl	5.25%
# of Responses	25

4a) Please indicate the percent chance that you attach to the following possible outcomes for the par value of the SOMA portfolio <u>at the end of 2020</u>, <u>conditional on **not** moving to the ZLB at any point between now and the end of 2020</u>. For reference, the level of the SOMA portfolio on May 23rd, 2018 was $4143 billion, including inflation compensation and settled and unsettled agency MBS, according to the most recent H.4.1 release. Levels referenced below are in $ billions.
(24 responses)

	≤ 3000	3001 - 3500	3501 - 4000	4001 - 4500	≥ 4501
Average	**15%**	**45%**	**29%**	**9%**	**2%**

4b) Please indicate the percent chance that you attach to the following possible outcomes for the par value of the SOMA portfolio <u>at the end of 2020</u>, <u>conditional on moving to the ZLB at any point between now and the end of 2020</u>. Only fill out this conditional probability distribution if you assigned a non-zero probability to moving to the ZLB at some point between now and the end of 2020 in question 2. Levels referenced below are in $ billions.
(24 responses)

	≤ 4000	4001 - 4500	4501 - 5000	5001 - 5500	≥ 5501
Average	**16%**	**25%**	**24%**	**18%**	**16%**

5a) During 2018 to date, the average size of the Federal Reserve System's balance sheet was $4398 billion, and was composed roughly as follows:

Assets*	Level ($ Bn)	Share	Liabilities and Capital*	Level ($ Bn)	Share
US Treasuries	**2422**	**55%**	Federal Reserve Notes	**1583**	**36%**
Agency MBS	**1759**	**40%**	Reserves	**2145**	**49%**
All Other Assets**	**217**	**5%**	Deposits in Treasury General Account (TGA)	**271**	**6%**
Total Assets	**4398**	**100%**	Reverse Repos with Private Counterparties	**28**	**1%**
			Reverse Repos with Foreign Official Accounts	**239**	**5%**
			Other Deposits***	**85**	**2%**
			All Other Liabilities and Capital	**46**	**1%**
			Total Liabilities and Capital	**4398**	**100%**

Individual categories rounded to the nearest $ billion.
**Includes net unamortized premiums and discounts on securities held outright, repos, and other assets.
***Includes balances held by designated financial market utilities (DFMUs), government sponsored entities (GSEs) and international and multilateral organizations.
The figures above refer to averages of Wednesday levels from 2018 H.4.1 releases through 5/24.

Please indicate your expectations for the composition of the Federal Reserve System's balance sheet, on average, in 2025, <u>conditional on **not** moving to the ZLB at any point between now and the end of 2025</u>. Please provide your responses in levels ($ billions); the total levels and shares will automatically populate so as to aid responding. Please ensure total assets are equal to total liabilities plus capital.

(19 responses)

Assets		Level	Share	Liabilities and Capital		Level	Share
US Treasuries	25th Pctl	2432	59%	Federal Reserve Notes	25th Pctl	1800	49%
	Median	2913	75%		Median	2100	53%
	75th Pctl	3450	78%		75th Pctl	2400	60%
Agency MBS	25th Pctl	670	16%	Reserves	25th Pctl	750	20%
	Median	750	19%		Median	1000	28%
	75th Pctl	900	25%		75th Pctl	1370	32%
All Other Assets*	25th Pctl	200	5%	Deposits in Treasury General Account (TGA)	25th Pctl	250	6%
	Median	250	6%		Median	300	8%
	75th Pctl	255	7%		75th Pctl	400	9%
				Reverse Repos with Private Counterparties	25th Pctl	28	1%
					Median	64	2%
					75th Pctl	100	3%
				Reverse Repos with Foreign Official Accounts	25th Pctl	150	4%
					Median	220	6%
					75th Pctl	250	6%
				Other Deposits**	25th Pctl	50	2%
					Median	85	2%
					75th Pctl	100	2%
				All Other Liabilities and Capital	25th Pctl	46	1%
					Median	50	1%
					75th Pctl	60	1%

*Includes net unamortized premiums and discounts on securities held outright, repos, and other assets.
**Includes balances held by designated financial market utilities (DFMUs), government sponsored entities (GSEs) and international and multilateral organizations.

	Total Assets	Total Liabilities and Capital
25th Pctl	3470	3470
Median	3870	3870
75th Pctl	4400	4400

5b) Please describe the assumptions that underlie your expectations in part a, including any regarding the Committee's long-run operating framework.
(19 responses)

> **Under the conditions described in question 5a, several respondents noted that they expected the Fed would operate using a "floor system."**

5c) Please explain changes to your expectations in part a since the policy survey on December 4, 2017, where applicable.
(15 responses)

> **Several respondents indicated that there had been no material changes to their expectations.**

6a) Provide your estimate of the most likely outcome for the U.S. federal fiscal deficit (as a percent of GDP) for fiscal years 2018, 2019 and 2020.
(25 responses)

	FY 2018	FY 2019	FY 2020
25th Pctl	3.75%	4.70%	4.90%
Median	4.00%	4.80%	5.00%
75th Pctl	4.00%	5.00%	5.20%

6b) Please explain changes to your estimates in part a since the last policy survey, where applicable.
(16 responses)

> **Several respondents indicated that there had been no change to their expectations.**

7a) For the outcomes below, provide the percent chance you attach to the annual average CPI inflation rate from June 1, 2018 – May 31, 2023 falling in each of the following ranges. Please also provide your point estimate for the most likely outcome.

	≤ 1.00%	1.01-1.50%	1.51-2.00%	2.01-2.50%	2.51-3.00%	≥ 3.01%
Average	4%	11%	31%	35%	14%	5%

	Most Likely Outcome
25th Pctl	2.00%
Median	2.05%
75th Pctl	2.25%

7b) For the outcomes below, provide the percent chance you attach to the annual average <u>CPI inflation</u> rate from June 1, 2023 – May 31, 2028 falling in each of the following ranges. Please also provide your point estimate for the most likely outcome.

	≤ 1.00%	1.01-1.50%	1.51-2.00%	2.01-2.50%	2.51-3.00%	≥ 3.01%
Average	5%	13%	28%	33%	16%	5%

	Most Likely Outcome
25th Pctl	2.00%
Median	2.20%
75th Pctl	2.25%

7c) For the outcomes below, provide the percent chance you attach to the <u>PCE inflation</u> rate from June 1, 2020 – May 31, 2021 falling in each of the following ranges. Please also provide your point estimate for the most likely outcome.
(25 responses)

	≤ 0.75%	0.76-1.25%	1.26-1.75%	1.76-2.25%	2.26-2.75%	2.76-3.25%	≥ 3.26%
Average	5%	9%	22%	34%	21%	6%	3%

	Most Likely Outcome
25th Pctl	1.80%
Median	2.00%
75th Pctl	2.05%