Online Appendix

Appendix 1: Surveys and Treatments

First wave of the survey: May-June 2018

This survey is about your household's finances and opinions about the economy. As with any of our surveys, the information you provide is confidential and is only shared in an aggregate (not individual) level.

Please tell us about yourself...

1. What is your date of birth?

2. What is your gender?

() Male () Female

3. Do you have any credit cards?

() Yes () No () Prefer to not answer

ASK IF: Q3=YES

\$

4. Suppose that you had to make an unexpected payment equal to one month of your income, would you have sufficient credit on your credit card(s) to charge the entire amount?

() Yes () No () Don't know/prefer to not answer

5. How much money did you have in your checking and savings accounts and in cash the day **before** your last *regular* paycheck arrived? Please do not include fixed term deposits, stocks, bonds, mutual funds, or retirement accounts, etc. (Please enter dollars and cents)

[] Don't know/prefer to not answer

6. Approximately how many times per month do you go to a gas station to buy gasoline or for other reasons? (Please enter a number) times [RANGE: 0-999]

7. Who typically does the grocery shopping in your household? (Select one)

() I do all of the grocery shopping in the household

() I share the grocery shopping with others in the household

() Someone else does the grocery shopping in the household

8. Over the last three months on average, how much did your household spend (per month) on goods and services in total and for each of the individual components listed below?

Please enter a number between 0 and 99,999 for each category. The sum of the expenditures for the individual categories should add up to the total amount. (Enter a "0" if you did not purchase anything in a given category)

Total monthly spending TOTAL [AUTOSUM] [RANGE: 0-99,999]

[HAVE THIS AUTOMATICALLY SUM]

Debt payments (mortgages, auto loans, student loans,...)

Housing (including rent, maintenance and home owner/renter insurance but *not* including mortgage payments) \$ Utilities (including water, sewer, electricity, gas, heating oil, phone, internet) \$ \$ Food (including groceries, dining out, and beverages) \$ Clothing, footwear, and personal care \$ Gasoline Other regular transportation costs (including public transportation fares and car maintenance) \$ Medical care (including health insurance, medical bills, prescription drugs) \$ \$ Travel, Recreation, and entertainment \$ Education and child care Furniture, jewelry, small appliances and other small durable goods \$ Other (including gifts, child support or alimony, charitable giving, and other miscellaneous) \$

Prefer not to answer

9. Saving is income that is neither spent nor used to make payments on debt. Methods of saving include putting money aside in, for example, a deposit account, a pension account, an investment fund, or as cash.

What percentage of your monthly income, on average, did you save during the last 12 months? (Please enter a number. The number you enter should be greater than or equal to 0. If you did not save any money, please enter a "0". If you went into debt, enter a negative value) (Please enter a percent) [RANGE: -100-100] Prefer not to answer

10. What percent of your financial wealth (excluding housing) do you invest in the following categories? (enter a "0" if you do not invest in a given category)

\$

\$

Checking and Savings Account	percent
Cash	percent
US Bonds	percent
US Stocks	percent
Foreign Stocks and Bonds	percent
Gold and precious metals	percent
Bitcoin and other cryptocurrencies	percent
Other	percent
% Total	100 PN: TOTAL FOR RESPONDENT
[] I have no financial investments $\geq E \lambda$	(CLUSIVE
11. Do you plan to buy a new home in the nex	t 6 months?
() Yes () No	
ASK IF: Q12=YES	
12. What price do you expect/plan to pay for a	new house?
\$[] Do	n't know/Won't answer
13. Do you plan to purchase a car in the next 6	months?
() Yes () No	
ASK IF: Q13=YES	
14. What price do you expect/plan to pay for the	his car?
\$[] Do	n't know/Won't answer
15. Do you plan to purchase any other big-tick months?	tet household items (TV, fridge, furniture, and similar items) over the next 6
() Yes () No	
ASK IF: Q15=YES	
16. How much do you expect to spend on thes	e big-ticket household items over the next 6 months?
\$	Don't know/Won't answer
17. How much higher or lower do you think ye	our household's total after-tax income will be over the next six months
compared to the last twelve months?	
Please provide an answer in percents.	If you think that your household's total after-tax income will decrease,
please fill in a negative percent (insert	a minus sign for the number). If you think that your household's total after-
tax income will increase, please fill in	a positive percent. If you think that your household's total net income will
not change, please fill in 0 (zero).	
%	
18. In THIS question, you will be asked about	the PERCENT CHANCE of something happening. The percent chance

must be a number between 0 and 100 and the sum of your answers must add up to 100. Nondurable goods and services include for instance food, tobacco, alcohol, gasoline, clothing, haircuts,

transportation, and other small services and nondurable goods that do not last in time. What do you think is the percent chance that, over the next six months, your spending on non-durable goods and services will... (assign probabilities to each outcome; probabilities should sum to 100)

Increase between 5% and 10%	
Increase between 2% and 5%	
Increase by 2% or less	
Stay the same	
Decrease 2% or less	
Decrease between 2% and 5%	
Decrease between 5% and 10%	
Decrease by 10% or more	
% Total PN: TOTAL FOR RESPONDEN	T

19. How many total hours per week do you and other members of your household work in a typical week? Please do not include volunteer hours or hours that are unpaid.

You:

hours per week

All others in household:

hours per week

20. Do you expect the hours for you or other people in your household will be the same over the next 6 months or not? Please do not include volunteer hours or hours that are unpaid.

() Yes, the same over the next 6 months

() No, not the same over the next 6 months

ASK IF: O20=NO

23. How many hours per week do you expect to be working in 6 months and how many hours do you expect all other members of your household to be working in 6 months? Please do not include volunteer hours or hours that are unpaid.

_____ hours per week You: All others in household:

hours per week

All others in household: ______ hours per week [Everyone who did not answer [] I have no financial investments in Q10 should get this question]

24. What do you think the rate of return will be on your financial investments over the next twelve months? Please provide a quantitative answer in percentage terms.

%

[] I have no financial investments

25. We would like to ask you about the rate of inflation/deflation (Note: inflation is the percentage rise in overall prices in the economy, most commonly measured by the Consumer Price Index and deflation corresponds to when prices are falling).

Please enter a number in the box below. If you do not think there was any inflation/deflation in the last 12 months, please enter a "0". If you think there was deflation, enter a negative value. If you think there was inflation, enter a positive value. Over the **last** 12 months, the rate of inflation/deflation was

percent

26. In THIS question, you will be asked about the PERCENT CHANCE of something happening. The percent chance must be a number between 0 and 100 and the sum of your answers must add up to 100.

What do you think is the percent chance that, over the next 12 months...

the rate of inflation will be 12% or more			
the rate of inflation will be between 8% and 12%			
the rate of inflation will be between 4% and 8			
the rate of inflation will be between 2% and 4			
the rate of inflation will be between 0% and 2%			
the rate of deflation (opposite of inflation) will be between 0% and 2%			
the rate of deflation (opposite of inflation) will be between 2% and 4%			
the rate of deflation (opposite of inflation) will be between 4% and 8%			
the rate of deflation (opposite of inflation) will be between 8% and 12%			
the rate of deflation (opposite of inflation) will be 12% or more			
% Total	 [PN:	TOTAL	ANSWERS
FROM ABOVE]	 -		

[Half of respondents get this question]

27. In THIS question, you will be asked about the probability (PERCENT CHANCE) of something being true. The percent chance must be a number between 0 and 100 and the sum of your answers must add up to 100.

What is the probability that the average American believes inflation or deflation over the next 12 months will be...

The average American expects the rate of inflation will be 12% or more	
The average American expects the rate of inflation will be between 8% and 12%	
The average American expects the rate of inflation will be between 4% and 8	
The average American expects the rate of inflation will be between 2% and 4	
The average American expects the rate of inflation will be between 0% and 2%	
The average American expects the rate of deflation (opposite of inflation) will be between 0% and 2%	, 0
The average American expects the rate of deflation (opposite of inflation) will be between 2% and 4%	, 0
The average American expects the rate of deflation (opposite of inflation) will be between 4% and 8%	, 0
The average American expects the rate of deflation (opposite of inflation) will be between 8% and 12	%
The average American expects the rate of deflation (opposite of inflation) will be 12% or more	

% Total

[PN: TOTAL ANSWERS FROM ABOVE]

[Other half of respondents get the next two question]

28. What do you think the current overall level of prices in the economy (as measured by the Consumer Price Index) relative to the level of prices 5 years ago?

Please provide an answer in percentage terms. If you think there was deflation (that is, prices fell), enter a negative value. If you think there was inflation (that is, prices rose), enter a positive value. If you do not think there was any inflation/deflation in the last 5 years, please enter a "0".

overall percent change for last 5 years [RANGE: -100-100 Whole numbers only] 29. In THIS question, you will be asked about the probability (PERCENT CHANCE) of something happening. The percent chance must be a number between 0 and 100 and the sum of your answers must add up to 100. What do you think is the probability that, **over the next 5 years**, the overall level of prices in the economy (as measured by the Consumer Price Index) relative to the current level of prices will...

[PN: TOTAL ANSWERS FROM ABOVE]

[75% of respondents get this question]

30. What is your best guess about the annual inflation rate that the Federal Reserve tries to achieve on average over long periods of time? Please use a percent between -100 and 100)

% per year

[25% of respondents get this question instead]

30. What is your best guess about the annual inflation rate that the Federal Reserve tries to achieve on average over long periods of time? Please use a percent between -100 and 100)

% per year [] Prefer to not answer

31. What is your best guess about the current unemployment rate in the U.S.? (Please use a percent between 0 and 100) $\frac{9}{6}$

32. What is your best guess at the current unleaded gas price in your area? (Please enter dollars and cents)

33. What is your best guess about the dollar change in gas prices over the next six months? (Please enter dollars and cents)

34. In THIS question, you will be asked about the PERCENT CHANCE of something happening. The percent chance must be a number between 0 and 100 and the sum of your answers must add up to 100. What do you think the average unemployment rate will be **over the next 12 months**:

The average unemployment rate will be 10% or more	
The average unemployment rate will be between 8.0% and 9.9%	
The average unemployment rate will be between 7.0% and 7.9%	
The average unemployment rate will be between 6.0% and 6.9%	
The average unemployment rate will be between 5.0% and 5.9%	
The average unemployment rate will be between 4.0% and 4.9%	
The average unemployment rate will be 4.0% or less	
% Total [PN: TOTAL ANSWERS FR	OM ABOVE]

[INFORMATION TREATMENTS]

[PN: RANDOMLY ASSIGN EACH RESPONDENT INTO EITHER THE "CONTROL GROUP" OR GROUPS 1 – 8 BASED ON LOWEST READS.] CONTROL GROUP 1 GROUP 2 GROUP 3 GROUP 4 GROUP 5 GROUP 6 GROUP 6 GROUP 7 GROUP 8 IF Control group: [SKIP TO Q35] SHOW IF: GROUPS 1-8

You are almost done with the survey. We have just a few more questions. But before you give us your responses, we would like you to know the following.

SHOW IF Group 1: Over the last twelve months, the inflation rate in the U.S. (as measured by the Consumer Price Index) was 2.3%.

SHOW IF Group 2: The inflation target of the Federal Reserve is 2% per year.

SHOW IF Group 3: The price of gasoline (national average) rose by 6.4% over the last three months.

SHOW IF Group 4: The U.S. population grew 2% over the last three years.

SHOW IF Group 5: The current rate of unemployment in the U.S. is 4.1%.

SHOW IF Group 6: The U.S. Federal Open Market Committee (which sets short-term interest rates) forecasts 1.9% inflation rate in 2018.

SHOW IF Group 7 [May 2018 version]: Please read the most recent policy statement by the U.S. Federal Open Market Committee.

Information received since the Federal Open Market Committee met in January indicates that the labor market has continued to strengthen and that economic activity has been rising at a moderate rate. Job gains have been strong in recent months, and the unemployment rate has stayed low. Recent data suggest that growth rates of household spending and business fixed investment have moderated from their strong fourth-quarter readings. On a 12-month basis, both overall inflation and inflation for items other than food and energy have continued to run below 2 percent. Market-based measures of inflation compensation have increased in recent months but remain low; survey-based measures of longer-term inflation expectations are little changed, on balance.

Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. The economic outlook has strengthened in recent months. The Committee expects that, with further gradual adjustments in the stance of monetary policy, economic activity will expand at a moderate pace in the medium term and labor market conditions will remain strong. Inflation on a 12-month basis is expected to move up in coming months and to stabilize around the Committee's 2 percent objective over the medium term. Near-term risks to the economic outlook appear roughly balanced, but the Committee is monitoring inflation developments closely.

In view of realized and expected labor market conditions and inflation, the Committee decided to raise the target range for the federal funds rate to 1-1/2 to 1-3/4 percent. The stance of monetary policy remains accommodative, thereby supporting strong labor market conditions and a sustained return to 2 percent inflation.

In determining the timing and size of future adjustments to the target range for the federal funds rate, the Committee will assess realized and expected economic conditions relative to its objectives of maximum employment and 2 percent inflation. This assessment will take into account a wide range of information, including measures of labor market conditions, indicators of inflation pressures and inflation expectations, and readings on financial and international developments. The Committee will carefully monitor actual and expected inflation developments relative to its symmetric inflation goal. The Committee expects that economic conditions will evolve in a manner that will warrant further gradual increases in the federal funds rate; the federal funds rate is likely to remain, for some time, below levels that are expected to prevail in the longer run. However, the actual path of the federal funds rate will depend on the economic outlook as informed by incoming data.

SHOW IF Group 7 [June 2018 version]: Please read the most recent policy statement by the U.S. Federal Open Market Committee.

Information received since the Federal Open Market Committee met in March indicates that the labor market has continued to strengthen and that economic activity has been rising at a moderate rate. Job gains have been strong, on average, in recent months, and the unemployment rate has stayed low. Recent data suggest that growth of household spending moderated from its strong fourth-quarter pace, while business fixed investment continued to grow strongly. On a 12-month basis, both overall inflation and inflation for items other than food and energy have moved close to 2 percent. Market-based measures of inflation compensation remain low; survey-based measures of longer-term inflation expectations are little changed, on balance.

Consistent with its statutory mandate, the Committee seeks to foster maximum employment and price stability. The Committee expects that, with further gradual adjustments in the stance of monetary policy, economic activity will expand at a moderate pace in the medium term and labor market conditions will remain strong. Inflation on a 12-month basis is expected to run near the Committee's symmetric 2 percent objective over the medium term. Risks to the economic outlook appear roughly balanced.

In view of realized and expected labor market conditions and inflation, the Committee decided to maintain the target range for the federal funds rate at 1-1/2 to 1-3/4 percent. The stance of monetary policy remains accommodative, thereby supporting strong labor market conditions and a sustained return to 2 percent inflation.

In determining the timing and size of future adjustments to the target range for the federal funds rate, the Committee will assess realized and expected economic conditions relative to its objectives of maximum employment and 2 percent inflation. This assessment will take into account a wide range of information, including measures of labor market conditions, indicators of inflation pressures and inflation expectations, and readings on financial and international developments. The Committee will carefully monitor actual and expected inflation developments relative to its symmetric inflation goal. The Committee expects that economic conditions will evolve in a manner that will warrant further gradual increases in the federal funds rate; the federal funds rate is likely to remain, for some time, below levels that are expected to prevail in the longer run. However, the actual path of the federal funds rate will depend on the economic outlook as informed by incoming data.

SHOW IF Group 8 [May 2018 version]: On March 21, 2018, USA Today summarized the most recent decision of the U.S. Federal Open Market Committee (which sets short-term interest rates) as follows:

"Citing a brighter economic outlook, the Federal Reserve raised its key short-term interest rate Wednesday but maintained its forecast for a total of three hikes this year amid still-modest inflation.

The move is expected to ripple through the economy, nudging consumer and business borrowing costs higher, especially for variable-rate loans such as adjustable-rate mortgages and credit cards.

Investors cheered the unchanged rate forecast for 2018, pushing up the Dow Jones industrial average about 250 points initially before stocks pared their gains.

The Fed's policymaking committee, as widely anticipated, lifted the federal funds rate — what banks charge each other for overnight loans — by a quarter percentage point to a range of $1\frac{1}{2}\%$ to $1\frac{3}{4}\%$.

That's still low by historical standards but it marks the central bank's fourth rate increase in the past 12 months and another vote of confidence in an economy that's picking up steam nearly nine years after the Great Recession ended.

"We're trying to take that middle ground" on rate hikes, boosting rates enough to head off an eventual spike in inflation without derailing the economic expansion, Fed Chairman Jerome Powell said at a news conference. The meeting was the first led by Powell, a Republican and Trump appointee, who took the reins from Democrat Janet Yellen last month." SHOW IF Group 8 [June 2018 version]: On May 2, 2018, USA Today summarized the most recent decision of the U.S. Federal Open Market Committee (which sets short-term interest rates) as follows:

WASHINGTON — Inflation is creeping higher, and that's making the Federal Reserve more confident about raising interest rates.

The Fed held its key interest rate steady Wednesday but noted that inflation has climbed close to its 2% goal, paving the way for another rate hike in June.

As expected, the Fed kept its benchmark short-term interest rate at a range of $1\frac{1}{2}\%$ to $1\frac{3}{4}\%$. The central bank's policymaking committee lifted the rate by a quarter percentage point in March for the sixth time since late 2015 after holding it near zero for years following the 2008 financial crisis and recession.

In a statement after a two-day meeting, the Fed reiterated that it plans to continue to raise rates gradually, a pace that economists have interpreted as roughly every other meeting.

Fed policymakers have forecast two more rate increases this year, according to their median estimate, but faster inflation could trigger three additional moves. Before the statement release, Fed fund futures indicated a 90% chance of a hike in June, according to CME Group.

35. By how much do you expect prices in the economy (as measured by the Consumer Price Index) to change over the next 12 months? Please provide an answer as a percentage change from current prices. Please use a percent between -100 and 100, if no change please enter a "0". You may enter a percent)

%

[PN: ONLY THOSE THAT ANSWERED Q28 AND Q29 SHOULD ANSWER Q36]

36. By how much do you expect prices in the economy (as measured by the Consumer Price Index) to change over the next five years? Please provide an answer as a cumulative percentage change from the current level of prices. Please use a percent between -100 and 100, if no change please enter a "0".)

%

%

%

[PN: ONLY THOSE THAT ANSWERED Q27 SHOULD ANSWER Q37]

37. What inflation rate do you think the average American would predict for the next twelve months? (Please enter a number in one of the boxes below. If you think that the average American predicts no inflation or deflation, please enter a "0". If you think the average American expects deflation, enter a negative value. If you expect, inflation, enter a positive value)

38. What do you think the unemployment rate in the U.S. economy will be in twelve months? Please provide a quantitative answer in percentage terms. (Please use a percent between 0 and 100)

39. What do you think the rate of return will be on your financial investments over the next twelve months? Please provide a quantitative answer in percentage terms.

[] I have no financial investments

40. How much higher or lower do you think your household's total after-tax income will be over the next six months compared to the last twelve months?

Please provide an answer in percents. If you think that your household's total after-tax income will decrease, please fill in a negative percent (insert a minus sign for the number). If you think that your household's total after-tax income will increase, please fill in a positive percent. If you think that your household's total net income will not change, please fill in 0 (zero).

____%

41. How much higher or lower do you think your household's spending on non-durable goods and services will be over the next six months compared to the last six months?

Please provide an answer in percentage terms. If you think that your household's spending on non-durable goods and services will decrease, please fill in a negative percentage (insert a minus sign for the number). If you think that your household's spending on non-durable goods and services will increase, please fill in a positive percentage. If you think that your household's spending on non-durable goods and services will increase, please fill in a positive percentage. If you think that your household's spending on non-durable goods and services will not change, please fill in 0 (zero). (You are able to enter a percent up to two decimal places)

%

Second wave of the survey: September 2018

This survey is about your household's finances and opinions about the economy. As with any of our surveys, the information you provide is confidential and is only shared in an aggregate (not individual) level. Please tell us about yourself...

 What is your date of birth? (Please select the month, day and year) Month: January, February... December Day: 1, 2, 3... 31 Year: 1916, 1917... 2000

2. Over the last three months on average, how much did your household spend (per month) on goods and services in total and for each of the individual components listed below?

Please enter a number between 0 and 99,999 for each category. The sum of the expenditures for the individual categories should add up to the total amount. (Enter a "0" if you did not purchase anything in a given category)

Total monthly spending TOTAL [AUTOSUM] [RANGE: 0-99,999]		
[PN: HAVE THIS AUTOMATICALLY SUM]		\$
Debt payments (mortgages, auto loans, student loans,)	\$	
Housing (including rent, maintenance and home owner/renter insurance but not including	g mortgage payme	ents)
\$		
Utilities (including water, sewer, electricity, gas, heating oil, phone, internet)	\$	
Food (including groceries, dining out, and beverages)	\$	
Clothing, footwear, and personal care	\$	
Gasoline	\$	
Other regular transportation costs (including public transportation fares and car maintena	nce)	
\$,	
Medical care (including health insurance, medical bills, prescription drugs)	\$	
Travel, Recreation, and entertainment	\$	
Education and child care	\$	
Furniture, jewelry, small appliances and other small durable goods	\$	
Other (including gifts, child support or alimony, charitable giving, and other miscellaneo	us)	
	\$	

Prefer not to answer

3. What percent of your financial wealth (excluding housing) do you invest in the following categories? (Please enter a whole number if you invest in a given category. Percents should total 100%.)

Checking and Savings Account	percent
Cash	percent
US Bonds	percent
US Stocks	percent
Foreign Stocks and Bonds	percent
Gold and precious metals	percent
Bitcoin and other cryptocurrencies	percent
Other	percent
% Total	<u> 100 </u>
[] I have no financial investments	

4. Did you buy a new home in the last 3 months?

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ASK IF: Q4=YES
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4a. What price did you pay for the new house?

⁽⁾ Yes

⁽⁾ No

^{\$}_

Supplemental Material (not copyedited or formatted) for: Olivier Coibion, Yuriy Gorodnichenko, Michael Weber. 2022. "Monetary Policy Communications and Their Effects on Household Inflation Expectations" Journal of Political Economy 130(6). DOI: https://doi.org/10.1086/718982. [] Don't know/Won't answer ASK IF: O4=NO 4b. Do you plan to buy a new home in the next 3 months? () Yes () No ASK IF: Q4b=YES 4c. What price do you expect/plan to pay for a new house? [] Don't know/Won't answer \$ 5. Did you buy a new car in the last 3 months? () Yes () No ASK IF: Q5=YES 5a. What price did you pay for this car? \$ [] Don't know/Won't answer ASK IF: Q5=NO 5b. Do you plan to purchase a car in the next 3 months? () Yes () No ASK IF: O5b=YES 5c. What price do you expect/plan to pay for this car? [] Don't know/Won't answer \$_____ 6. Did you purchase any other big-ticket household items (TV, fridge, furniture, and similar items) in the last 3 months? () Yes () No ASK IF: O6=YES 6a. How much did you spend on these big-ticket household items over the last 3 months? \$ [] Don't know/Won't answer 6b. Do you plan to purchase any other big-ticket household items (TV, fridge, furniture, and similar items) over the next 3 months? () Yes () No ASK IF: Q6b=YES 6c. How much do you expect to spend on these big-ticket household items over the next 3 months? [] Don't know/Won't answer \$ 7. How much higher or lower do you think your household's total after-tax income will be over the next three months compared to the last three months? Please provide an answer in percent. If you think that your household's total after-tax income will decrease. please fill in a negative percent (insert a minus sign for the number). If you think that your household's total aftertax income will increase, please fill in a positive percent. If you think that your household's total net income will not change, please fill in 0 (zero). % 8. How many total hours per week do you and other members of your household work in a typical week? Please do not include volunteer hours or hours that are unpaid. hours per week You: All others in household: 9. Do you expect the hours for you or other people in your household will be the same over the next 3 months or not? Please do not include volunteer hours or hours that are unpaid. () Yes, the same over the next 3 months () No, not the same over the next 3 months ASK IF: O9=NO 10. How many hours per week do you expect to be working in 3 months and how many hours do you expect all other members of your household to be working in 3 months? Please do not include volunteer hours or hours that are unpaid. _____ hours per week You: hours per week All others in household:

11. We would like to ask you about the rate of inflation/deflation (Note: inflation is the percentage rise in overall prices in the economy, most commonly measured by the Consumer Price Index and deflation corresponds to when prices are falling).

Please enter a number in the box below. If you do not think there was any inflation/deflation in the last 12 months, please enter a "0". If you think there was deflation, enter a negative value. If you think there was inflation, enter a positive value.

Over the **last** 12 months, the rate of inflation/deflation was percent

12. In THIS question, you will be asked about the PERCENT CHANCE of something happening. The percent chance must be a number between 0 and 100 and the sum of your answers must add up to 100. What do you think is the percent chance that over the next 12 months.

to you think is the percent chance that, over the next 12 months	
the rate of inflation will be 12% or more	
the rate of inflation will be between 8% and 12%	
the rate of inflation will be between 4% and 8	
the rate of inflation will be between 2% and 4	
the rate of inflation will be between 0% and 2%	
the rate of deflation (opposite of inflation) will be between 0% and 2%	
the rate of deflation (opposite of inflation) will be between 2% and 4%	
the rate of deflation (opposite of inflation) will be between 4% and 8%	
the rate of deflation (opposite of inflation) will be between 8% and 12%	
the rate of deflation (opposite of inflation) will be 12% or more	
% Total	

13. What is your best guess about the annual inflation rate that the Federal Reserve tries to achieve on average over long periods of time? Please use a percent between -100 and 100)

% per year

- 15. What is your best guess at the current unleaded gas price in your area? (Please enter dollars and cents)
- 16. Are you? (Select one) ()Male ()Female

17. What is your first name?

18. Are there any members of your household aged 18 or older who have not yet taken this survey? () Yes () No

^{14.} What is your best guess about the current unemployment rate in the U.S.? (Please use a percent between 0 and 100) %

Third wave of the survey: December 2018

This survey is about your household's finances and opinions about the economy. As with any of our surveys, the information you provide is confidential and is only shared in an aggregate (not individual) level.

Please tell us about yourself...

1. What is your date of birth? (Please select the month, day and year)

2. Which political party do you lean towards?

() Democrats () Republication party () Green party () Libertarian party () Other () Prefer not to answer

3. Over the last three months on average, how much did your household spend (per month) on goods and services in total and for each of the individual components listed below?

Please enter a number between 0 and 99,999 for each category. The sum of the expenditures for the individual categories should add up to the total amount. (Enter a "0" if you did not purchase anything in a given category)

Total monthly spending TOTAL [AUTOSUM] [RANGE: 0-99,999] [PN: HAVE THIS AUTOMATICALLY SUM]		\$
Debt payments (mortgages, auto loans, student loans,)	\$	
Housing (including rent, maintenance and home owner/renter insurance but <i>not</i> includin \$	g mortgage payn	nents)
Utilities (including water, sewer, electricity, gas, heating oil, phone, internet)	\$	
Food (including groceries, dining out, and beverages)	\$	
Clothing, footwear, and personal care	\$	
Gasoline	\$	
Other regular transportation costs (including public transportation fares and car maintena	ance)	
\$,	
Medical care (including health insurance, medical bills, prescription drugs)	\$	
Travel, Recreation, and entertainment	\$	
Education and child care	\$	
Furniture, jewelry, small appliances and other small durable goods	\$	
Other (including gifts, child support or alimony, charitable giving, and other miscellaned	ous)	
	\$	

Prefer not to answer

4. What percent of your financial wealth (excluding housing) do you invest in the following categories? (Please enter a whole number if you invest in a given category. Percents should total 100%.)

Checking and Savings Account	percent
Cash	percent
US Bonds	percent
US Stocks	percent
Foreign Stocks and Bonds	percent
Gold and precious metals	percent

Bitcoin and other cryptocurrencies percent Other

% Total

..... percent 100

[] I have no financial investments

Consumption Plans:

5. Did you buy a new home in the last 6 months?

() Yes

() No

ASK IF: Q5=YES

5a. What price did you pay for the new house? \$

[PN: MAX=10,000,000]

[] Don't know/Prefer not to answer

6. Did you buy a new car in the last 6 months?

() Yes

() No

ASK IF: O6=YES

6a. What price did you pay for this car? \$ [PN: MAX=100,000] [] Don't know/Prefer not to answer

7. Did you purchase any other big-ticket household items (TV, fridge, furniture, and similar items) in the last 6 months?

() Yes

() No

ASK IF: 07=YES

7a. How much did you spend on these big-ticket household items over the last 6 months?

\$

8. How much higher or lower do you think your household's total after-tax income will be over the next six months compared to the last six months?

> Please provide an answer with a percent. If you think that your household's total after-tax income will decrease, please fill in a negative percent (insert a minus sign before the number). If you think that your household's total after-tax income will increase, please fill in a positive percent. If you think that your household's total net income will not change, please fill in 0 (zero).

% [RANGE: (-100) to 100]

9. How many total hours per week do you and other members of your household work in a typical week? Please do not include volunteer hours or hours that are unpaid. (Please enter a zero if you or others do not work)

You:

hours per week All others in household: hours per week

;Inflation and Aggregate Expectations - DON'T SHOW

10. We would like to ask you about the rate of inflation/deflation (Note: Deflation is the opposite of inflation).

Over the last 12 months...

(Please enter a number in one of the boxes below. The number you enter should be greater than 0 or equal to 0. If you do not think there was any inflation/deflation in the last 12 months, please enter a "0" in one of the boxes.)

The rate of inflation was	percent	[RANGE: 0-100]
The rate of deflation (the opposite of inflation) was	percent	[RANGE: 0-100]

11. In THIS question, you will be asked about the PERCENT CHANCE of something happening. The percent chance must be a number between 0 and 100. Numbers like 2% or 5% indicate "almost no chance," 19% or so may mean "not much chance," a 47% or 55% chance may be a "pretty even chance," 82% indicates a "very good chance," and 95% or 98% mean "almost certain."

What do you think is the percent chance that, **over the next 12 months**... [RANGE OF EACH OPTION BELOW: 0-100]

1	ACH OPTION BELOW: 0-100]	
	the rate of inflation will be 12% or more	
	the rate of inflation will be between 8% and 12%	
	the rate of inflation will be between 4% and 8	
	the rate of inflation will be between 2% and 4	
	the rate of inflation will be between 0% and 2%	
	the rate of deflation (opposite of inflation) will be between 0% and 2%	
	the rate of deflation(opposite of inflation) will be between 2% and 4%	
	the rate of deflation(opposite of inflation) will be between 4% and 8%	
	<i>the rate of deflation(opposite of inflation)</i> will be between 8% and 12%	
	the rate of deflation(opposite of inflation) will be 12% or more	

% Total

12. What do you think is the probability that, in **10 years from now**, the overall level of prices in the economy (as measured by the Consumer Price Index) will...

[RANGE OF EACH OPTION BELOW: 0-100 ALLOW FOR UP TO 2 DECIMAL POINTS]

juli by 50% or more	
fall by 25% to 50%	
fall by 15% to 25%	
fall by 5% to 15%	
fall but by less than 5%	
stay about the same	
grow but at less than 5%	
grow by 5% to 15%	
grow by 15% to 25%	
grow by 25% to 50%	
grow by 50% to 100%	
grow by 100% or more	
% Total	[PN: TOTAL ANSWERS FROM ABOVE]

13. What is your best guess about the annual inflation rate that the Federal Reserve tries to achieve on average over long periods of time? Please use a percent between -100 to 100)

% per year [RANGE: -100 to 100 Whole numbers]

14. What is your best guess about the current unemployment rate in the U.S.? (Please use a percent between 0 and 100, may enter up to 2 decimal points)

% [RANGE: 0-100]

15. What is your best guess at the current unleaded gas price in your area? (Please enter dollars and cents)
\$_____[PN: ADD two DECIMAL FOR DOLLARS AND CENTS]

Appendix 2: Additional Results

Appendix Table 1: Heterogeneous Contemporaneous Effects of Treatments on Inflation Expectation

	Enough credit	Not enough credit	Less than 1 month in savings	1-6 months in savings	6+ months in savings	Plan to buy durable	No plan to buy durable	No financial wealth	Positive financial wealth	Saving rate: 0	Saving rate: 0-10	Saving rate: 10+
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
T5 (pop growth)	-0.179	-0.226	-0.260	-0.162	-0.082	-0.380	-0.174	-0.094	-0.277**	-0.045	-0.343*	-0.269
	(0.124)	(0.279)	(0.195)	(0.254)	(0.274)	(0.231)	(0.118)	(0.194)	(0.125)	(0.243)	(0.178)	(0.203)
T6 (UE)	-0.308**	-0.361	-0.586***	-0.603**	0.084	-0.260	-0.357***	-0.018	-0.475***	-0.511**	-0.298	-0.421**
	(0.124)	(0.286)	(0.192)	(0.248)	(0.266)	(0.228)	(0.117)	(0.195)	(0.123)	(0.241)	(0.181)	(0.194)
T4 (gas prices)	1.483***	1.674***	1.335***	1.380***	1.469***	1.327***	1.521***	1.578***	1.430***	1.659***	1.402***	1.548***
	(0.135)	(0.315)	(0.209)	(0.268)	(0.287)	(0.252)	(0.128)	(0.211)	(0.135)	(0.254)	(0.201)	(0.217)
T2 (past inflation)	-0.978***	-1.137***	-1.141***	-1.176***	-0.616**	-0.970***	-1.048***	-0.913***	-1.087***	-1.247***	-1.097***	-0.922***
- · ·	(0.124)	(0.268)	(0.189)	(0.254)	(0.253)	(0.230)	(0.116)	(0.189)	(0.124)	(0.228)	(0.182)	(0.198)
T3 (inflation target)	-0.926***	-1.390***	-1.295***	-1.075***	-0.888***	-0.913***	-1.013***	-0.729***	-1.118***	-1.087***	-1.129***	-1.051***
	(0.121)	(0.278)	(0.187)	(0.249)	(0.262)	(0.228)	(0.115)	(0.191)	(0.121)	(0.224)	(0.181)	(0.193)
T7 (Fed inflation forecast)	-0.941***	-1.374***	-1.329***	-1.073***	-0.601**	-0.881***	-1.120***	-1.080***	-1.078***	-1.585***	-1.187***	-0.592***
	(0.121)	(0.270)	(0.186)	(0.243)	(0.253)	(0.230)	(0.114)	(0.197)	(0.119)	(0.224)	(0.176)	(0.193)
T8 (FOMC statement)	-1.244***	-1.119***	-1.365***	-1.414***	-0.806***	-1.248***	-1.178***	-0.821***	-1.373***	-1.248***	-1.525***	-1.090***
	(0.123)	(0.273)	(0.189)	(0.242)	(0.260)	(0.233)	(0.114)	(0.187)	(0.123)	(0.219)	(0.179)	(0.202)
T9 (USA Today coverage)	-0.482***	-0.586**	-0.508***	-0.481*	-0.371	-0.624***	-0.393***	-0.265	-0.528***	-0.446*	-0.603***	-0.375*
, <u> </u>	(0.123)	(0.285)	(0.188)	(0.261)	(0.265)	(0.224)	(0.119)	(0.195)	(0.124)	(0.243)	(0.177)	(0.202)
Observations	13,122	2,841	6,022	3,080	2,366	3,848	15,374	6,010	13,212	4,213	6,463	4,404
R-squared	0.051	0.053	0.050	0.062	0.049	0.042	0.049	0.038	0.054	0.058	0.056	0.051

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group, broken down along observable characteristics of individuals. Columns (1) and (2) differentiate respondents by whether they report having enough credit on their credit cards to make an emergency payment equal to one month of their salary. Columns (3)-(5) differentiate respondents by the amount of their total liquid savings (checking plus savings accounts) relative to their monthly income. Columns (6) and (7) differentiate respondents by whether they plan to buy a car, house or other big ticket item over the next six months. Columns (8) and (9) differentiate between households depending on whether they report having any positive financial wealth. Columns (10) to (12) differentiate between respondents depending on what fraction of their monthly income they report having saved each of the last 12 months on average. In each case, revisions in beliefs are measured using the inflation forecasts at the end of the first wave of the survey relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. Results are from Huber robust regressions to control for outliers. Robust standard errors are reported in parentheses.

	R	ace	Who does	groceries:	Number o expectatio	of bins used in ns distribution	n inflation n question	Time sp expectati	bent answering	inflation 1 question
	White	Non-White	Just me	Shared	1 bin	2 bins	3+ bins	<20 sec.	20-120 sec.	120+ sec.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
T5 (pop growth)	-0.191*	-0.327	-0.348*	-0.193	-0.218	-0.218	-0.188	-0.014	-0.099	0.376
	(0.116)	(0.246)	(0.209)	(0.123)	(0.134)	(0.257)	(0.225)	(0.285)	(0.171)	(0.615)
T6 (UE)	-0.287**	-0.490**	-0.160	-0.439***	-0.265**	-0.269	-0.544**	-0.100	-0.256	0.008
	(0.115)	(0.244)	(0.201)	(0.124)	(0.134)	(0.247)	(0.223)	(0.275)	(0.175)	(0.658)
T4 (gas prices)	1.508***	1.349***	1.531***	1.439***	1.414***	1.686***	1.568***	1.658***	1.928***	2.570***
	(0.125)	(0.274)	(0.228)	(0.134)	(0.146)	(0.264)	(0.252)	(0.327)	(0.193)	(0.658)
T2 (past inflation)	-0.977***	-1.236***	-0.852***	-1.105***	-0.937***	-1.094***	-1.239***	-0.929***	-1.095***	-0.726
<u> </u>	(0.115)	(0.242)	(0.201)	(0.123)	(0.135)	(0.236)	(0.222)	(0.282)	(0.169)	(0.610)
T3 (inflation target)	-1.034***	-0.851***	-1.181***	-0.953***	-0.902***	-1.046***	-1.209***	-0.985***	-1.002***	-0.792
	(0.112)	(0.241)	(0.200)	(0.120)	(0.134)	(0.234)	(0.212)	(0.280)	(0.169)	(0.556)
T7 (Fed inflation forecast)	-1.102***	-0.956***	-1.208***	-1.050***	-1.013***	-0.857***	-1.385***	-0.772***	-1.085***	-0.811
	(0.112)	(0.246)	(0.200)	(0.120)	(0.133)	(0.228)	(0.223)	(0.286)	(0.167)	(0.551)
T8 (FOMC statement)	-1.186***	-1.213***	-1.268***	-1.197***	-1.109***	-1.121***	-1.475***	-1.093***	-1.381***	-1.194**
× , , , , , , , , , , , , , , , , , , ,	(0.114)	(0.232)	(0.200)	(0.121)	(0.133)	(0.230)	(0.226)	(0.278)	(0.171)	(0.557)
T9 (USA Today coverage)	-0.437***	-0.477*	-0.410**	-0.477***	-0.354***	-0.683***	-0.535**	-0.525*	-0.298*	0.311
	(0.115)	(0.249)	(0.202)	(0.124)	(0.134)	(0.252)	(0.226)	(0.280)	(0.176)	(0.643)
Observations	16,285	2,937	5,614	13,285	12,163	2,977	4,081	2,525	6,937	792
R-squared	0.049	0.044	0.049	0.047	0.041	0.066	0.060	0.047	0.064	0.068

Appendix Table 1 (continued): Heterogeneous Contemporaneous Effects of Treatments on Inflation Expectation

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group, broken down along observable characteristics of individuals. Columns (1) and (2) differentiate respondents by their race. Columns (3) and (4) differentiate respondents by whether they report being the sole shopper for their household or share the shopping with others. Columns (5) to (7) differentiate respondents by the number of bins on which they assign positive probabilities when completing the distributional inflation expectations question. Columns (8) to (10) differentiate respondents based on the amount of seconds it took them to complete the distributional inflation expectations question. In each case, revisions in beliefs are measured using the inflation forecasts at the end of the first wave of the survey relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. Results are from Huber robust regressions to control endogenously for outliers. Robust standard errors are reported in parentheses.

Appendix Table 1 (continued): Heterogeneous Contemporaneous Effects of Treatments on Inflation Expectation

		Age	
	40 or less	[41,60]	61 or more
	(1)	(2)	(3)
T5 (pop growth)	-0.100	-0.360**	-0.139
	(0.213)	(0.168)	(0.173)
T6 (UE)	-0.514**	-0.277	-0.256
	(0.206)	(0.169)	(0.174)
T4 (gas prices)	1.465***	1.437***	1.542***
·- · ·	(0.241)	(0.186)	(0.180)
T2 (past inflation)	-0.852***	-1.145***	-1.028***
ч ́	(0.209)	(0.166)	(0.174)
T3 (inflation target)	-1.052***	-1.012***	-0.927***
/	(0.202)	(0.169)	(0.166)
T7 (Fed inflation forecast)	-0.950***	-1.161***	-1.059***
	(0.203)	(0.168)	(0.167)
T8 (FOMC statement)	-1.307***	-1.103***	-1.211***
	(0.203)	(0.166)	(0.170)
T9 (USA Today coverage)	-0.526***	-0.540***	-0.263
	(0.201)	(0.173)	(0.174)
Observations	3,634	7,024	8,564
R-squared	0.053	0.048	0.045

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group, broken down by age of the respondent. Column (1) uses individuals aged 40 or less, column (2) uses individuals with ages from 41 to 60, and column (3) uses individuals aged 61 or more. In each case, revisions in beliefs are measured using the inflation forecasts at the end of the first wave of the survey relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. Results are from Huber robust regressions to control endogenously for outliers. Robust standard errors are reported in parentheses.

	Enough credit	Not enough credit	Less than 1 month in savings	1-6 months in savings	6+ months in savings	Plan to buy durable	No plan to buy durable	No financial wealth	Positive financial wealth	Saving rate: 0	Saving rate: 0-10	Saving rate: 10+
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
T5 (pop growth)	-0.014	-0.072	-0.078	-0.020	0.044	-0.271	-0.060	-0.304*	-0.012	0.026	0.086	-0.353**
	(0.109)	(0.244)	(0.175)	(0.210)	(0.231)	(0.210)	(0.101)	(0.174)	(0.106)	(0.203)	(0.160)	(0.170)
T6 (UE)	-0.228**	-0.490*	-0.442**	-0.274	-0.142	-0.110	-0.343***	-0.501***	-0.209*	-0.797***	0.006	-0.348**
	(0.110)	(0.272)	(0.181)	(0.227)	(0.233)	(0.211)	(0.104)	(0.181)	(0.109)	(0.203)	(0.173)	(0.174)
T4 (gas prices)	-0.192*	-0.093	-0.239	-0.062	-0.150	-0.045	-0.214**	-0.323*	-0.123	-0.381*	0.085	-0.310*
	(0.110)	(0.257)	(0.178)	(0.221)	(0.216)	(0.212)	(0.104)	(0.182)	(0.107)	(0.200)	(0.167)	(0.173)
T2 (past inflation)	0.032	-0.109	-0.118	-0.010	-0.093	-0.198	0.006	-0.112	-0.005	-0.135	0.177	-0.225
· · ·	(0.107)	(0.267)	(0.176)	(0.220)	(0.226)	(0.205)	(0.103)	(0.177)	(0.107)	(0.203)	(0.161)	(0.177)
T3 (inflation target)	-0.282**	-0.177	-0.303*	-0.207	-0.458*	-0.406*	-0.312***	-0.688***	-0.178*	-0.388*	0.001	-0.470***
	(0.111)	(0.253)	(0.173)	(0.232)	(0.241)	(0.210)	(0.103)	(0.175)	(0.108)	(0.200)	(0.166)	(0.175)
T7 (Fed inflation forecast)	-0.169	-0.201	-0.144	-0.178	-0.050	-0.054	-0.278***	-0.567***	-0.100	-0.493**	-0.033	-0.238
× · · · · · · · · · · · · · · · · · · ·	(0.112)	(0.252)	(0.177)	(0.229)	(0.231)	(0.221)	(0.103)	(0.180)	(0.109)	(0.215)	(0.162)	(0.173)
T8 (FOMC statement)	-0.131	-0.020	-0.106	-0.237	0.120	-0.190	-0.087	-0.265	-0.043	0.064	-0.280*	-0.032
	(0.108)	(0.272)	(0.174)	(0.216)	(0.228)	(0.210)	(0.101)	(0.173)	(0.107)	(0.205)	(0.162)	(0.172)
T9 (USA Today coverage)	-0.148	0.006	-0.117	-0.117	0.139	0.053	-0.161	-0.299*	-0.047	0.001	-0.118	-0.219
	(0.109)	(0.269)	(0.177)	(0.227)	(0.227)	(0.208)	(0.103)	(0.176)	(0.108)	(0.214)	(0.165)	(0.170)
Observations	8,782	1,853	3,963	2,100	1,696	2,434	10,448	4,070	8,812	2,885	4,179	3,013
R-squared	0.002	0.003	0.002	0.002	0.006	0.003	0.002	0.005	0.001	0.011	0.003	0.004

Appendix Table 2: Heterogeneous Three-Month Effects of Treatments on Inflation Expectation

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group, broken down along observable characteristics of individuals. Columns (1) and (2) differentiate respondents by whether they report having enough credit on their credit cards to make an emergency payment equal to one month of their salary. Columns (3) to (5) differentiate respondents by the amount of their total liquid savings (checking plus savings accounts) relative to their monthly income. Columns (6) and (7) differentiate respondents by whether they plan to buy a car, house or other big ticket item over the next six months. Columns (8) and (9) differentiate between households depending on whether they report having any positive financial wealth. Columns (10) to (12) differentiate between respondents depending on what fraction of their monthly income they report having saved each of the last 12 months on average. In each case, revisions in beliefs are measured using the inflation forecasts from the second wave of the survey relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. Results are from Huber robust regressions to control endogenously for outliers. Robust standard errors are reported in parentheses.

	R	lace	Who does	groceries:	Number of expectation	f bins used in 1s distributio	n inflation n question	Time s expectat	pent answering ions distributior	inflation 1 question
	White	Non-White	Just me	Shared	1 bin	2 bins	3+ bins	<20 sec.	20-120 sec.	120+ sec.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
T5 (pop growth)	-0.154	0.137	0.063	-0.137	-0.080	-0.129	-0.113	-0.023	-0.030	-0.425
	(0.100)	(0.214)	(0.185)	(0.106)	(0.117)	(0.213)	(0.194)	(0.272)	(0.156)	(0.472)
T6 (UE)	-0.370***	0.014	-0.107	-0.356***	-0.430***	-0.171	0.025	-0.465*	-0.419***	-0.393
	(0.104)	(0.217)	(0.182)	(0.110)	(0.121)	(0.220)	(0.200)	(0.273)	(0.153)	(0.496)
T4 (gas prices)	-0.170*	-0.292	0.130	-0.256**	-0.174	-0.308	-0.111	-0.118	-0.177	-0.750
	(0.103)	(0.226)	(0.182)	(0.109)	(0.122)	(0.218)	(0.192)	(0.287)	(0.154)	(0.480)
T2 (past inflation)	-0.088	0.183	0.285	-0.129	-0.072	-0.066	0.104	-0.167	-0.064	-0.667
u ,	(0.102)	(0.210)	(0.181)	(0.107)	(0.119)	(0.220)	(0.192)	(0.264)	(0.154)	(0.510)
T3 (inflation target)	-0.300***	-0.451**	-0.165	-0.360***	-0.414***	-0.268	-0.137	-0.549*	-0.306**	0.272
· - /	(0.103)	(0.207)	(0.182)	(0.108)	(0.120)	(0.200)	(0.202)	(0.280)	(0.151)	(0.514)
T7 (Fed inflation forecast)	-0.315***	0.094	-0.292	-0.204*	-0.309**	-0.284	0.008	-0.293	-0.242	-0.427
×	(0.105)	(0.204)	(0.188)	(0.109)	(0.123)	(0.213)	(0.193)	(0.295)	(0.157)	(0.473)
T8 (FOMC statement)	-0.171*	0.148	0.151	-0.192*	-0.049	-0.125	-0.260	-0.325	-0.184	-0.541
	(0.102)	(0.203)	(0.182)	(0.107)	(0.118)	(0.222)	(0.189)	(0.265)	(0.156)	(0.481)
T9 (USA Today coverage)	-0.175*	0.100	-0.188	-0.066	-0.136	-0.334	0.075	-0.164	-0.149	0.062
· · · · · · · · · · · · · · · · · · ·	(0.103)	(0.209)	(0.181)	(0.109)	(0.122)	(0.216)	(0.185)	(0.268)	(0.150)	(0.496)
Observations	10,920	1,962	3,612	9,048	8,158	1,984	2,739	1,558	4,356	509
R-squared	0.002	0.007	0.005	0.002	0.003	0.002	0.002	0.005	0.002	0.015

Appendix Table 2 (continued): Heterogeneous Three-Month Effects of Treatments on Inflation Expectation

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group, broken down along observable characteristics of individuals. Columns (1) and (2) differentiate respondents by their race. Columns (3) and (4) differentiate respondents by whether they report being the sole shopper for their household or share the shopping with others. Columns (5) to (7) differentiate respondents by the number of bins on which they assign positive probabilities when completing the distributional inflation expectations question. Columns (8) to (10) differentiate respondents based on the amount of seconds it took them to complete the distributional inflation expectations question. In each case, revisions in beliefs are measured using the inflation forecasts from the second wave of the survey relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. Results are from Huber robust regressions to control endogenously for outliers. Robust standard errors are reported in parentheses.

Breakdown of Sample:	By Ger	nder		By Income			By Education	
			Bottom	Middle	Highest	High school	Assoc.	College or
	Female	Male	Tercile	Tercile	Tercile	of less	some	more
							college	
Treatment Group:	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
T5 (pop growth)	-0.091	-0.104	-0.164	-0.081	-0.060	-0.173	-0.088	-0.063
	(0.116)	(0.147)	(0.170)	(0.191)	(0.129)	(0.196)	(0.170)	(0.127)
T6 (UE)	-0.311***	-0.256*	-0.442***	-0.108	-0.283**	-0.562***	-0.324*	-0.126
	(0.118)	(0.154)	(0.171)	(0.203)	(0.134)	(0.205)	(0.169)	(0.133)
T4 (gas prices)	-0.122	-0.272*	-0.294*	-0.018	-0.189	-0.252	0.109	-0.304**
	(0.122)	(0.143)	(0.169)	(0.193)	(0.137)	(0.208)	(0.176)	(0.127)
T2 (past inflation)	-0.040	-0.021	-0.156	0.082	-0.008	-0.310	0.005	0.077
	(0.119)	(0.145)	(0.176)	(0.195)	(0.128)	(0.214)	(0.172)	(0.124)
T3 (inflation target)	-0.339***	-0.308**	-0.476***	-0.347*	-0.224*	-0.307	-0.349**	-0.329***
	(0.118)	(0.148)	(0.166)	(0.198)	(0.134)	(0.201)	(0.173)	(0.128)
T7 (Fed inflation forecast)	-0.275**	-0.168	-0.479***	-0.153	-0.106	-0.724***	-0.247	-0.004
	(0.120)	(0.149)	(0.176)	(0.197)	(0.132)	(0.218)	(0.177)	(0.126)
T8 (FOMC statement)	-0.106	-0.108	-0.209	-0.050	-0.066	-0.340*	-0.114	0.018
	(0.118)	(0.143)	(0.171)	(0.192)	(0.131)	(0.198)	(0.173)	(0.127)
T9 (USA Today coverage)	-0.135	-0.090	-0.280	-0.132	-0.010	-0.128	-0.152	-0.098
	(0.117)	(0.152)	(0.172)	(0.194)	(0.133)	(0.198)	(0.174)	(0.130)
Observations	9,608	3,274	4,160	3,859	4,863	1,953	3,496	7,433
R-squared	0.002	0.003	0.003	0.002	0.002	0.007	0.003	0.003

Appendix Table 2 (continued): Heterogeneous Three-Month Effects of Treatments on Inflation Expectation

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group, broken down along observable characteristics of individuals. Columns (1) and (2) separate households by gender, columns (3) to (5) consider where individuals rank in the income distribution of all respondents by tercile, columns (6) to (8) classify respondents using the highest level of education in the household. In each case, revisions in beliefs are measured using the inflation forecasts from the second wave of the survey relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. Results are from Huber robust regressions to control endogenously for outliers. Robust standard errors are reported in parentheses.

	Outcome: forecast revision immediately after treatment								
	Pre-treatmen	t expected	Pre-treatment	t expected					
	inflation	<2%	inflation	≥ 2%					
	(1)	(2)	(3)	(4)					
T5 (pop growth)	0.195	0.099	-0.584***	-0.584***					
	(0.143)	(0.143)	(0.139)	(0.139)					
T6 (UE)	0.022	0.030	-0.615***	-0.640***					
	(0.144)	(0.144)	(0.139)	(0.141)					
T4 (gas prices)	1.959***	1.864***	1.263***	1.278***					
	(0.167)	(0.165)	(0.147)	(0.148)					
T2 (past inflation)	0.238*	0.175	-2.039***	-2.078***					
	(0.141)	(0.140)	(0.135)	(0.136)					
T3 (inflation target)	0.141	0.064	-1.774***	-1.743***					
	(0.139)	(0.139)	(0.133)	(0.134)					
T7 (Fed inflation forecast)	-0.110	-0.135	-1.863***	-1.872***					
	(0.135)	(0.134)	(0.135)	(0.136)					
T8 (FOMC statement)	-0.098	-0.164	-1.978***	-1.965***					
	(0.137)	(0.138)	(0.134)	(0.135)					
T9 (USA Today coverage)	0.052	-0.029	-0.872***	-0.904***					
	(0.143)	(0.143)	(0.139)	(0.140)					
Remove outliers	Yes	Yes	Yes	Yes					
Using sampling weights	Yes	Yes	Yes	Yes					
Controls for demographics	No	Yes	No	Yes					
Observations	7,136	7,133	11,993	11,998					
<u>R²</u>	0.040	0.072	0.081	0.102					

Appendix Table 3: Treatment effects by initial inflation expectations.

Notes: the table reports estimated treatment effects for respondents who report pre-treatment expected inflation above 2% (columns 3 and 4) and 2% or below (columns 1 and 2). See notes to Table 2 for more details.

	Pre-tr	reatment ex	pected	Pre-tr	eatment per inflation	rceived	Pre-tro	eatment per	ceived
	Mean	Median	St.Dev.	Mean	Median	St.Dev.	Mean	Median	St.Dev.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
All	3.62	3.00	5.12	7.77	3.00	15.56	16.95	5.00	29.48
Male	3.20	3.00	4.34	5.36	3.00	11.24	10.31	3.00	23.94
Female	3.79	3.00	5.41	8.77	3.00	16.93	19.55	5.00	31.00
White	3.55	3.00	4.94	7.16	3.00	14.07	15.10	4.00	27.69
Non-white	3.83	3.00	5.64	9.60	3.00	19.22	22.77	8.00	33.85
Income: tercile 1 (low)	3.87	3.00	5.92	10.06	3.00	18.95	23.29	8.00	35.31
Income: tercile 2	3.73	3.00	4.98	8.05	3.00	16.04	18.40	5.00	30.04
Income: tercile 3	3.37	3.00	4.48	5.88	3.00	11.71	11.70	3.00	22.90
Enough credit	3.44	3.00	4.49	6.26	3.00	12.46	12.66	3.00	25.02
Not enough credit	4.19	3.00	5.59	9.55	4.00	17.76	20.11	6.00	31.00
HTM: less than 1 month in savings	4.03	3.00	5.29	8.57	3.00	16.10	17.97	5.00	29.48
HTM: 1-6 months in savings	3.53	3.00	4.13	5.30	3.00	10.09	9.30	3.00	20.91
HTM: 6+ months in savings	3.11	3.00	3.52	4.17	3.00	6.90	7.78	3.00	17.27
Plan to buy durable	3.63	3.00	4.82	8.29	3.00	16.37	15.66	5.00	27.29
No plan to buy durable	3.61	3.00	5.21	7.63	3.00	15.32	17.37	5.00	30.14
No financial wealth	3.60	3.00	5.97	10.22	3.00	19.43	23.95	10.00	34.90
Positive financial wealth	3.63	3.00	4.55	6.33	3.00	12.52	12.39	3.00	24.27
Saving rate: 0	4.30	3.00	5.72	9.67	3.00	18.00	20.35	6.00	31.28
Saving rate: 0-10	3.69	3.00	4.39	6.19	3.00	11.56	11.63	3.75	23.33
Saving rate: 10+	3.40	3.00	4.30	6.43	3.00	12.46	12.47	3.00	23.91
Do grocery: me/self	3.57	3.00	4.95	7.03	3.00	14.16	15.46	5.00	27.35
Do grocery: share	3.65	3.00	5.17	8.01	3.00	15.94	17.43	5.00	30.04
Education: high school or less	3.67	3.00	5.83	10.00	3.00	19.13	26.22	10.00	36.83
Education: some college	3.76	3.00	5.31	8.16	3.00	15.93	17.22	5.00	28.95
Education: college or more	3.48	3.00	4.46	6.08	3.00	12.22	11.44	3.00	23.09

Appendix Table 4: Descriptive Statistics of the Survey, Unfiltered Data

Notes: The table reports average values and cross-sectional deviations of expected inflation over the next twelve months (columns 1-3), perceived inflation over the previous twelve months (columns 4-6) and beliefs about the Federal Reserve's inflation target (columns 7-9). Data are not restricted/filtered in any way. Rows indicate which subset of the sample is used. Each row captures an observable characteristic of the respondent on which we condition.

			Outcome: fored	cast revision		
Treatments	Immediat	e revision	Revision after	er 3 months	Revision af	ter 6 months
	(1)	(2)	(3)	(4)	(5)	(6)
T5 (pop growth)	-0.415***	-0.464***	-0.138	-0.134	0.126	0.153
	(0.150)	(0.149)	(0.104)	(0.104)	(0.111)	(0.113)
T6 (UE)	-0.629***	-0.649***	-0.375***	-0.374***	-0.019	-0.014
	(0.148)	(0.148)	(0.108)	(0.108)	(0.109)	(0.110)
T4 (gas prices)	1.066***	1.037***	-0.187*	-0.191*	0.057	0.061
	(0.159)	(0.157)	(0.107)	(0.108)	(0.110)	(0.112)
T2 (past inflation)	-1.199***	-1.299***	-0.030	-0.032	0.193*	0.219*
	(0.148)	(0.148)	(0.106)	(0.106)	(0.111)	(0.112)
T3 (inflation target)	-0.967***	-0.990***	-0.300***	-0.329***	0.109	0.155
	(0.143)	(0.144)	(0.107)	(0.106)	(0.109)	(0.110)
T7 (Fed inflation forecast)	-1.156***	-1.258***	-0.254**	-0.220**	0.165	0.244**
	(0.146)	(0.147)	(0.108)	(0.108)	(0.110)	(0.112)
T8 (FOMC statement)	-1.240***	-1.341***	-0.135	-0.139	0.087	0.113
	(0.144)	(0.144)	(0.104)	(0.104)	(0.111)	(0.113)
T9 (USA Today coverage)	-0.644***	-0.648***	-0.182*	-0.169	0.120	0.123
	(0.146)	(0.147)	(0.106)	(0.106)	(0.110)	(0.111)
Remove outliers	Yes	Yes	Yes	Yes	Yes	Yes
Using sampling weights	Yes	Yes	Yes	Yes	Yes	Yes
Controls for demographics	No	Yes	No	Yes	No	Yes
Observations	8,921	8,927	9,681	9,669	9,763	9,592
\mathbb{R}^2	0.043	0.072	0.002	0.020	0.001	0.018

Appendix Table 5: Treatment Effects over Time using only Repeat Participants

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group. Columns (1) and (2) consider the immediate change in expectations after the treatment, columns (3) and (4) consider the changes in beliefs after three months, columns (5) and (6) report changes in beliefs over a six month horizon. In each case, differences in beliefs are measured relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. For each time horizon, the second column uses the same specification as in the first column but augmented with respondent-specific controls. Results are from Huber robust regressions to control for outliers and influential observations. Robust standard errors are reported in parentheses. Only respondents who participate in all waves are included.

					Treatment				
	T1	T2	Т3	T4	T5	T6	Τ7	T8	Т9
	(control)	(past inflation)	(inflation target)	(gas prices)	(pop growth)	(UE)	(Fed inflation forecast)	(FOMC statement)	(USA Today coverage)
Age	51.08	51.57	51.95	52.54	51.42	51.08	51.26	51.86	50.96
0	(15.02)	(14.87)	(14.97)	(15.29)	(15.07)	(14.82)	(14.89)	(14.55)	(14.99)
Male share	0.30	0.28	0.29	0.31	0.30	0.28	0.29	0.29	0.29
	(0.46)	(0.45)	(0.45)	(0.46)	(0.46)	(0.45)	(0.45)	(0.45)	(0.45)
White share	0.74	0.74	0.75	0.76	0.76	0.74	0.77	0.73	0.75
	(0.44)	(0.44)	(0.43)	(0.43)	(0.42)	(0.44)	(0.42)	(0.45)	(0.43)
Household size	2.55	2.51	2.49	2.50	2.44	2.55	2.47	2.48	2.52
	(1.35)	(1.29)	(1.34)	(1.31)	(1.29)	(1.31)	(1.31)	(1.30)	(1.34)
Employed share	0.57	0.56	0.54	0.52	0.57	0.56	0.54	0.53	0.57
	(0.50)	(0.50)	(0.50)	(0.50)	(0.49)	(0.50)	(0.50)	(0.50)	(0.50)
Income ('000)	64.10	67.48	63.91	63.53	64.38	65.84	64.24	64.52	65.21
	(37.41)	(36.92)	(37.63)	(37.54)	(37.43)	(37.65)	(36.99)	(37.29)	(36.98)
Saving rate	10.39	10.39	10.13	10.46	10.04	10.84	10.09	9.36	10.94
	(14.88)	(14.08)	(14.32)	(15.19)	(14.77)	(15.20)	(13.91)	(13.19)	(15.19)
Pre-treatment inflation	3.53	3.63	3.59	3.55	3.77	3.70	3.47	3.86	3.47
expectations	(5.17)	(5.27)	(5.19)	(5.12)	(4.99)	(5.06)	(5.23)	(4.97)	(5.11)

Appendix Table 6: Balancedness across Treatment Arms

Notes: The table reports means and standard deviations (in parentheses) for different observable characteristics of respondents in each treatment arm, using sampling weights. The first row of the table indicates treatment arms for which moments are reported.

	Outcome: forecast revision					
Treatments	Immediat	e revision Revision after 3 months Revision aft		Revision after 3 months		er 6 months
	(1)	(2)	(3)	(4)	(5)	(6)
T5 (pop growth)	-0.350	-0.431	-0.150	-0.076	0.050	0.138
	(0.316)	(0.305)	(0.131)	(0.084)	(0.124)	(0.108)
T6 (UE)	-0.350	-0.575**	-0.150	-0.132	0.000	-0.013
	(0.331)	(0.262)	(0.119)	(0.086)	(0.068)	(0.081)
T4 (gas prices)	1.650***	1.615***	-0.050	0.037	0.000	0.076
	(0.333)	(0.320)	(0.152)	(0.107)	(0.107)	(0.089)
T2 (past inflation)	-1.350***	-1.445***	-0.100	-0.045	0.190*	0.112
	(0.277)	(0.218)	(0.136)	(0.087)	(0.109)	(0.094)
T3 (inflation target)	-1.350***	-1.498***	-0.150	-0.061	0.100	0.193*
	(0.270)	(0.218)	(0.136)	(0.093)	(0.176)	(0.109)
T7 (Fed inflation forecast)	-1.350***	-1.318***	-0.150	-0.043	0.150	0.250**
	(0.273)	(0.235)	(0.136)	(0.110)	(0.171)	(0.126)
T8 (FOMC statement)	-1.350	-1.506***	-0.150	-0.067	0.000	0.130
	(0.000)	(0.224)	(0.119)	(0.095)	(0.098)	(0.100)
T9 (USA Today coverage)	-0.350	-0.577**	0.050	0.029	0.240	0.233
	(0.397)	(0.294)	(0.167)	(0.102)	(0.153)	(0.153)
Remove outliers	Yes	Yes	Yes	Yes	Yes	Yes
Using sampling weights	Yes	Yes	Yes	Yes	Yes	Yes
Controls for demographics	No	Yes	No	Yes	No	Yes
Observations	22,582	22,582	14,003	14,001	13,580	13,369

Appendix Table 7: Average Household Responses to Treatments, median regression.

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group. Columns (1) and (2) consider the immediate change in expectations after the treatment, columns (3) and (4) consider the changes in beliefs after three months, columns (5) and (6) report changes in beliefs over a six month horizon. In each case, differences in beliefs are measured relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. For each time horizon, the second column uses the same specification as in the first column but augmented with respondent-specific controls. Results are from median regressions. Robust standard errors are reported in parentheses.

	Outcome: forecast revision						
Treatments	Immediat	te revision Revision after 3 months		nonths Revision after 6 mo			
	(1)	(2)	(3)	(4)	(5)	(6)	
T5 (pop growth)	-1.304	-1.220	-0.436	-0.466	0.029	0.041	
	(0.886)	(0.857)	(0.308)	(0.307)	(0.320)	(0.322)	
T6 (UE)	-2.742***	-2.748***	-0.458	-0.503	-0.201	-0.210	
	(0.891)	(0.866)	(0.317)	(0.313)	(0.317)	(0.317)	
T4 (gas prices)	0.084	0.214	-0.302	-0.314	-0.062	-0.028	
	(0.919)	(0.892)	(0.315)	(0.315)	(0.329)	(0.332)	
T2 (past inflation)	-3.632***	-3.376***	-0.124	-0.154	-0.046	-0.027	
	(0.880)	(0.851)	(0.312)	(0.310)	(0.326)	(0.327)	
T3 (inflation target)	-3.813***	-3.805***	0.005	0.007	0.400	0.472	
	(0.898)	(0.870)	(0.308)	(0.306)	(0.318)	(0.320)	
T7 (Fed inflation forecast)	-3.542***	-3.452***	-0.088	-0.109	0.374	0.459	
	(0.861)	(0.835)	(0.306)	(0.304)	(0.313)	(0.317)	
T8 (FOMC statement)	-2.645***	-2.622***	-0.083	-0.106	0.118	0.235	
	(0.906)	(0.878)	(0.308)	(0.307)	(0.311)	(0.314)	
T9 (USA Today coverage)	-0.148	0.005	0.212	0.229	0.301	0.354	
	(0.933)	(0.896)	(0.312)	(0.310)	(0.327)	(0.327)	
Remove outliers	Yes	Yes	Yes	Yes	Yes	Yes	
Using sampling weights	Yes	Yes	Yes	Yes	Yes	Yes	
Controls for demographics	No	Yes	No	Yes	No	Yes	
Observations	22,582	22,582	14,003	14,001	13,580	13,369	
R ²	0.005	0.052	0.001	0.013	0.001	0.013	

Appendix Table 8: Average Household Responses to Treatments, OLS regression.

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group. Columns (1) and (2) consider the immediate change in expectations after the treatment, columns (3) and (4) consider the changes in beliefs after three months, columns (5) and (6) report changes in beliefs over a six month horizon. In each case, differences in beliefs are measured relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. For each time horizon, the second column uses the same specification as in the first column but augmented with respondent-specific controls. Results are from median regressions. Robust standard errors are reported in parentheses.

	Outcome: forecast revision					
Treatments	Immediat	e revision	Revision af	Revision after 3 months		ter 6 months
	(1)	(2)	(3)	(4)	(5)	(6)
T5 (pop growth)	-0.170	-0.208	-0.175	-0.177	0.052	0.088
	(0.263)	(0.257)	(0.144)	(0.144)	(0.162)	(0.163)
T6 (UE)	-0.299	-0.346	-0.122	-0.123	-0.080	-0.061
	(0.263)	(0.259)	(0.148)	(0.146)	(0.151)	(0.151)
T4 (gas prices)	1.124***	1.071***	-0.125	-0.124	0.007	0.003
	(0.267)	(0.260)	(0.150)	(0.148)	(0.159)	(0.159)
T2 (past inflation)	-1.087***	-1.052***	-0.052	-0.043	0.261*	0.300*
	(0.265)	(0.260)	(0.147)	(0.146)	(0.156)	(0.157)
T3 (inflation target)	-1.439***	-1.460***	-0.172	-0.163	0.215	0.239
	(0.252)	(0.247)	(0.147)	(0.147)	(0.158)	(0.158)
T7 (Fed inflation forecast)	-0.838***	-0.878***	-0.037	-0.022	0.256*	0.303**
	(0.276)	(0.270)	(0.150)	(0.149)	(0.154)	(0.154)
T8 (FOMC statement)	-1.153***	-1.197***	-0.078	-0.063	0.177	0.236
	(0.264)	(0.258)	(0.157)	(0.155)	(0.162)	(0.162)
T9 (USA Today coverage)	-0.221	-0.207	-0.124	-0.117	0.143	0.180
	(0.275)	(0.270)	(0.149)	(0.148)	(0.158)	(0.158)
Remove outliers	Yes	Yes	Yes	Yes	Yes	Yes
Using sampling weights	Yes	Yes	Yes	Yes	Yes	Yes
Controls for demographics	No	Yes	No	Yes	No	Yes
Observations	18,415	18,415	9,717	9,716	9,511	9,376
R ²	0.014	0.052	0.000	0.012	0.002	0.016

Appendix Table 9: Average Household Responses to	Treatments,	OLS regression,	revisions tri	mmed at
bottom and	l top10%.			

Notes: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group. Columns (1) and (2) consider the immediate change in expectations after the treatment, columns (3) and (4) consider the changes in beliefs after three months, columns (5) and (6) report changes in beliefs over a six month horizon. In each case, differences in beliefs are measured relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. For each time horizon, the second column uses the same specification as in the first column but augmented with respondent-specific controls. Results are from OLS regressions. The dependent variable is trimmed at bottom and top 10 percent. Robust standard errors are reported in parentheses.

	Immediat	e revision	Revision after 3 months		Revision after 6 months	
Treatments	Intercept	Slope	Intercept	Slope	Intercept	Slope
	(b)	(γ)	(b) Î	(γ)	(b) Î	(γ)
	(1)	(2)	(3)	(4)	(5)	(6)
T1 (control)		0.627***		0.265***		0.305***
		(0.021)		(0.016)		(0.017)
Relative to control group						
T5 (pop growth)	0.203*	-0.200***	-0.687***	0.198***	-0.263**	0.135***
	(0.119)	(0.028)	(0.104)	(0.024)	(0.110)	(0.025)
T6 (UE)	0.380***	-0.262***	-0.210**	0.007	-0.351***	0.099***
	(0.118)	(0.027)	(0.105)	(0.023)	(0.110)	(0.026)
T4 (gas prices)	2.007***	-0.177***	-0.250**	0.072***	0.005	-0.046*
	(0.131)	(0.028)	(0.106)	(0.024)	(0.109)	(0.025)
T2 (past inflation)	0.330***	-0.480***	-0.064	-0.032	0.182*	-0.063***
-	(0.109)	(0.024)	(0.101)	(0.022)	(0.107)	(0.024)
T3 (inflation target)	0.164	-0.420***	-0.500***	0.046**	-0.188*	0.088***
、 、	(0.107)	(0.025)	(0.103)	(0.023)	(0.107)	(0.024)
T7 (Fed inflation forecast)	0.048	-0.443***	-0.191*	0.075***	0.167	0.055**
· · · · · · · · · · · · · · · · · · ·	(0.106)	(0.025)	(0.104)	(0.023)	(0.112)	(0.025)
T8 (FOMC statement)	-0.053	-0.457***	-0.297***	0.008	0.140	-0.040*
	(0.109)	(0.026)	(0.101)	(0.023)	(0.110)	(0.024)
T9 (USA Today coverage)	0.216*	-0.359***	-0.303***	0.091***	0.025	0.017
	(0.113)	(0.027)	(0.103)	(0.023)	(0.112)	(0.025)
Remove outliers	Y	es	Ye	es	Ye	s
Using sampling weights	Y	es	Yes		Ye	es
Controls for demographics	Y	es	Yes		Ye	es
Observations	18.	869	13.1	48	12.5	87
\mathbf{R}^2	0.2	283	0.2	85	0.2	92

Appendix Table 10: Posterior Beliefs by Treatments, control for demographics

Notes: The table reports the slope and intercept in the following regression: $E_i^{post}\pi = a + b * Treat_i + \gamma * Treat_i * E_i^{pre}\pi + \psi * E_i^{pre}\pi + Controls + error$. Columns (1) and (2) consider the immediate change in expectations after the treatment, columns (3) and (4) are for beliefs after three months, columns (5) and (6) are for beliefs after six months. Results are from Huber robust regressions to control for outliers and influential observations. Robust standard errors are reported in parentheses.

Dep. var. is indicated in the title	Actual spending, horizon, month			
of the panel	1 st follow-up wave	2 nd follow-up wave		
	(1)	(2)		
Panel A. Spending on housing, >	×100			
Posterior inflation expectations	-0.040	-0.030		
	(0.033)	(0.046)		
Observations	10,471	10,428		
R-squared	0.089	0.097		
1 st stage F-stat	105.6	107.5		
Panel B. Spending on cars,				
×100				
Posterior inflation expectations	-0.261**	-0.399***		
*	(0.101)	(0.154)		
Observations	10,405	10,381		
R-squared	0.071	0.083		
1 st stage F-stat	104.1	102.7		
Panel C. Spending on appliance	s, electronics and sim	ilar items, ×100		
Posterior inflation expectations	-1.056***	-1.716***		
-	(0.209)	(0.304)		
Observations	10,418	10,373		
R-squared	0.039	0.046		

Appendix Table 11: Extensive margin for purchases of durable goods by type of good.

Notes: the table reports estimates of the causal effect of inflation expectation on the extensive margin for purchases of durable goods. See notes to Table 9 for more details.

101.8

95.73

1st stage F-stat

Treatments	Outcome: immediate forecast revision of unemployment forecast			
	(1)	(2)		
	````			
T5 (pop growth)	-0.026	-0.027		
	(0.046)	(0.046)		
T6 (UE)	-1.041***	-1.052***		
	(0.050)	(0.049)		
T4 (gas prices)	0.173***	0.166***		
	(0.046)	(0.047)		
T2 (past inflation)	-0.185***	-0.195***		
	(0.046)	(0.047)		
T3 (inflation target)	-0.128***	-0.129***		
,	(0.046)	(0.046)		
T7 (Fed inflation forecast)	-0.125***	-0.127***		
	(0.045)	(0.046)		
T8 (FOMC statement)	-0.375***	-0.384***		
	(0.046)	(0.046)		
T9 (USA Today coverage)	-0.109**	-0.109**		
	(0.046)	(0.046)		
Remove outliers	Yes	Yes		
Using sampling weights	Yes	Yes		
Controls for demographics	No	Yes		
Observations	18,244	18,262		
<u>R²</u>	0.046	0.057		

Appendix Table 12: Average Household Responses of Unemployment Expectations to Treatments.

*Notes*: The table reports the average change in unemployment expectations of individuals in each treatment group relative to those in the control group. Columns (1) and (2) consider the immediate change in expectations after the treatment. In each case, differences in beliefs are measured relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. Results are from Huber robust regressions to control for outliers and influential observations. Robust standard errors are reported in parentheses.

	Revision of inflation		Normalized 1	revision of
	expectations (baseline)		inflation exp	pectations
Breakdown of Sample:	Female	Male	Female	Male
Treatment Group:	(1)	(2)	(3)	(4)
T5 (pop growth)	-0.157	-0.179	-0.055	-0.050
	(0.223)	(0.255)	(0.121)	(0.121)
T6 (UE)	-0.576***	-0.166	-0.134	-0.052
	(0.217)	(0.252)	(0.118)	(0.126)
T4 (gas prices)	1.702***	1.481***	0.904***	0.876***
	(0.238)	(0.280)	(0.127)	(0.139)
T2 (past inflation)	-1.500***	-0.623**	-0.372***	-0.126
-	(0.208)	(0.255)	(0.114)	(0.131)
T3 (inflation target)	-1.487***	-0.551**	-0.371***	-0.060
,	(0.205)	(0.241)	(0.112)	(0.119)
T7 (Fed inflation forecast)	-1.429***	-0.695***	-0.413***	-0.209*
	(0.213)	(0.239)	(0.118)	(0.122)
T8 (FOMC statement)	-1.602***	-0.851***	-0.366***	-0.286**
	(0.212)	(0.250)	(0.118)	(0.127)
T9 (USA Today coverage)	-0.790***	-0.236	-0.260**	-0.045
	(0.214)	(0.274)	(0.116)	(0.131)
Observations	4,978	2,080	3,872	1,769
R-squared	0.069	0.053	0.058	0.059

#### Appendix Table 13: Treatment effects by gender.

Notes: The table reports treatment effects on inflation expectations by gender. Columns (1) and (2) reproduce results reported in Table 8 but the sample is restricted to respondents who report positive probabilities for at least two bins of inflation outcomes in the pre-treatment inflation expectation question. Columns (3) and (4) report treatment effects for revisions normalized by pre-treatment uncertainty about future inflation, that is,  $(E_i^{Post}\pi - E_i^{Prior}\pi)/Estd_i^{Prior}\pi$ , where  $Estd_i^{Prior}\pi$  is the standard deviation of the distribution for inflation expectations reported by a respondent. All estimates are based on Huber robust regressions. Heteroscedasticity robust standard errors are reported in parentheses. ***, **, * denote statistical significance at 1, 5, and 10 percent levels.

	Outcome: forecast revision					
Treatments	Immediat	e revision	Revision afte	Revision after 3 months		er 6 months
	(1)	(2)	(3)	(4)	(5)	(6)
T5 (pop growth)	-0.218**	-0.229**	-0.095	-0.106	0.067	0.076
	(0.105)	(0.104)	(0.093)	(0.094)	(0.100)	(0.101)
T6 (UE)	-0.339***	-0.332***	-0.393***	-0.412***	-0.134	-0.130
	(0.104)	(0.104)	(0.095)	(0.096)	(0.099)	(0.099)
T4 (gas prices)	1.447***	1.447***	-0.167*	-0.163*	-0.123	-0.155
	(0.114)	(0.113)	(0.095)	(0.097)	(0.100)	(0.100)
T2 (past inflation)	-1.031***	-1.062***	-0.066	-0.085	0.301***	0.304***
	(0.104)	(0.103)	(0.093)	(0.094)	(0.100)	(0.100)
T3 (inflation target)	-0.991***	-0.985***	-0.389***	-0.444***	0.003	0.008
/	(0.102)	(0.102)	(0.095)	(0.095)	(0.098)	(0.099)
T7 (Fed inflation forecast)	-1.040***	-1.061***	-0.329***	-0.318***	0.148	0.183*
	(0.102)	(0.102)	(0.095)	(0.096)	(0.099)	(0.099)
T8 (FOMC statement)	-1.193***	-1.212***	-0.155	-0.167*	0.102	0.139
	(0.102)	(0.102)	(0.095)	(0.096)	(0.102)	(0.103)
T9 (USA Today coverage)	-0.451***	-0.477***	-0.174*	-0.222**	0.126	0.104
	(0.105)	(0.104)	(0.094)	(0.095)	(0.099)	(0.099)
Remove outliers	Yes	Yes	Yes	Yes	Yes	Yes
Using sampling weights	Yes	Yes	Yes	Yes	Yes	Yes
Controls for demographics	No	Yes	No	Yes	No	Yes
Observations	18,982	18,972	11,645	11,651	11,534	11,416
$\mathbb{R}^2$	0.047	0.061	0.003	0.020	0.002	0.017

Appendix Table 14: Average Household Responses to Treatments using Generalized Beta Distribution.

*Notes*: The table reports the average change in inflation expectations of individuals in each treatment group relative to those in the control group. Inflation expectations are measured as means of the generalized beta distribution estimated for each respondent separately, as in the Survey of Consumer Expectations. Columns (1) and (2) consider the immediate change in expectations after the treatment, columns (3) and (4) consider the changes in beliefs after three months, columns (5) and (6) report changes in beliefs over a six month horizon. In each case, differences in beliefs are measured relative to initial beliefs from the first wave measured before all treatments. Treatments are described in detail in the text. For each time horizon, the second column uses the same specification as in the first column but augmented with respondent-specific controls. Results are from Huber robust regressions to control for outliers and influential observations. Robust standard errors are reported in parentheses.





Notes: the figure reports a binscatter plot of 12-month-ahead inflation expectations before treatment and immediately after treatment. Each circle represents 2.5 percent of the sample. The black line shows fitted regression. The blue line shows fitted regression for the control group.

Appendix Figure 2. Distribution of revisions of inflation forecasts (immediately after treatment) by treatment arm.

