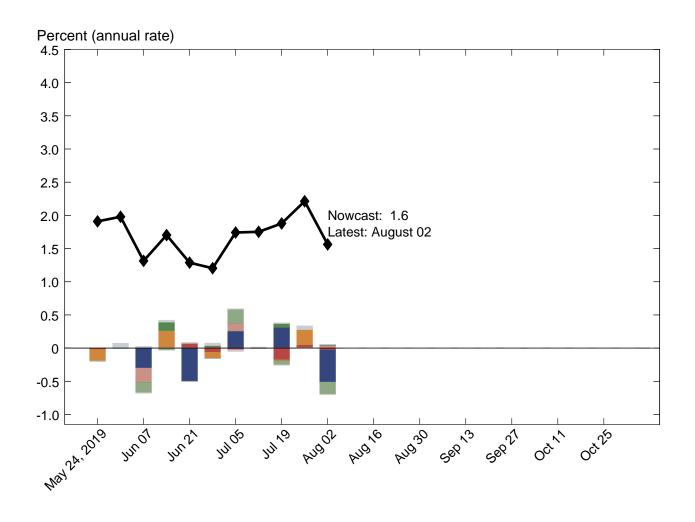
NOWCASTING REPORT

Updated: August 2, 2019

- The New York Fed Staff Nowcast stands at 1.6% for 2019:Q3.
- News from this week's data releases decreased the nowcast for 2019:Q3 by 0.6 percentage point.
- Negative surprises from ISM manufacturing data and lower than expected trade data drove most of the decrease.

The New York Fed Staff Nowcast is not an official forecast of the Federal Reserve Bank of New York, its president, the Federal Reserve System, or the Federal Open Market Committee (FOMC).

1| 2019:Q3 GDP Growth





Source: Authors' calculations, based on data accessed through Haver Analytics. Note: Colored bars reflect the impact of each data release on the nowcast.

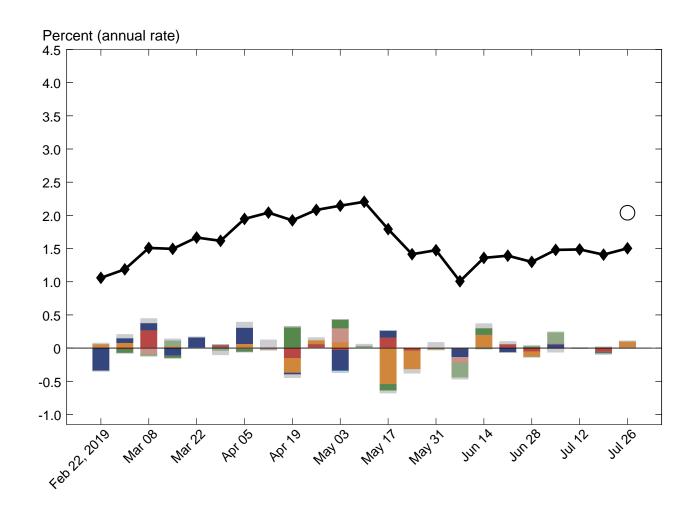
1.1 | Nowcast Detail

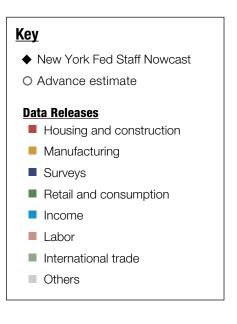
| Ipdate | Release Date | Data Series | Reference Period | Units | Forecast | Actual | Weight | Impact | Nowcast GDP Growth |
|--------|----------------------------------|---|---------------------|--|----------------|----------------|----------------|----------------|-----------------------|
| | | | . 0.100 | | [a] | [b] | [c] | [c(b-a)] | G.B.1 G.101111 |
| Jul 05 | | | | | | | | | 1.74 |
| Jui 05 | 10:00 AM Jul 09 | JOLTS: Job openings: Total | May | Level chg. (thousands) | 39.5 | -49.0 | *0.056 | -0.005 | 1.7- |
| | 8:40 AM Jul 11 | CPI-U: All items | Jun | MoM % chq. | 0.104 | 0.059 | 0.151 | -0.007 | |
| | 8:40 AM Jul 11 | CPI-U: All items less food and energy | Jun | MoM % chg. | 0.144 | 0.294 | 0.179 | 0.027 | |
| | 8:30 AM Jul 12 | PPI: Final demand | Jun | MoM % chg. | 0.122 | 0.085 | 0.097 | -0.004 | |
| | | Data revisions | | Ü | | | | -0.001 | |
| Jul 12 | | | | | | | | | 1.7 |
| | 8:30 AM Jul 15 | ■ Empire State Mfg. Survey: General business conditions | Jul | Index | -2.31 | 4.30 | 0.016 | 0.106 | |
| | 8:30 AM Jul 16 | ■ Retail sales and food services | Jun | MoM % chg. | 0.166 | 0.426 | 0.217 | 0.056 | |
| | 8:30 AM Jul 16 | ■ Import price index | Jun | MoM % chg. | -0.069 | -0.946 | 0.031 | -0.027 | |
| | 8:30 AM Jul 16 | ■ Export price index | Jun | MoM % chg. | -0.076 | -0.710 | 0.052 | -0.033 | |
| | 9:20 AM Jul 16 | Industrial production index | Jun | MoM % chg. | -0.075 | -0.035 | 0.349 | 0.014 | |
| | 9:20 AM Jul 16 | Capacity utilization | Jun | Ppt. chg. | -0.097 | -0.165 | 0.454 | -0.031 | |
| | 8:30 AM Jul 17 | Housing starts | Jun | MoM % chg. | 0.156 | -0.949 | 0.019 | -0.021 | |
| | 8:30 AM Jul 17 | ■ Building permits | Jun | Level chg. (thousands) | -8.62 | -79.0 | 0.002 | -0.157 | |
| | 8:30 AM Jul 18 | ■ Phila. Fed Mfg. business outlook: Current activity | Jul | Index | 4.24 | 21.8 | 0.012 | 0.209 | |
| | | Data revisions | | | | | | 0.009 | |
| Jul 19 | | | | | | | | | 1.8 |
| | 10:00 AM Jul 24 | New single family houses sold | Jun | MoM % chg. | 1.77 | 6.95 | 0.010 | 0.052 | |
| | 8:30 AM Jul 25 | Manufacturers' new orders: Durable goods | Jun | MoM % chg. | 0.840 | 2.05 | 0.020 | 0.024 | |
| | 8:30 AM Jul 25 | Merchant wholesalers: Inventories: Total | Jun | MoM % chg. | 0.322 | 0.239 | -0.113 | 0.009 | |
| | 8:30 AM Jul 25 | Manufacturers' shipments: Durable goods | Jun | MoM % chg. | -0.288 | 1.39 | 0.122 | 0.205 | |
| | 8:30 AM Jul 25 | Mfrs.' unfilled orders: All manufacturing industries | Jun | MoM % chg. | -0.085 | -0.670 | -0.012 | 0.007 | |
| | 8:30 AM Jul 25 | Manufacturers' inventories: Durable goods | Jun | MoM % chg. | 0.209 | 0.309 | -0.171 | -0.017 | |
| | 8:30 AM Jul 26 | Real gross domestic product | Q2 | QoQ % chg. AR | 1.43 | 2.04 | -0.013 | -0.008 | |
| 11.00 | | ■ Data revisions | | | | | | 0.062 | 0.0 |
| ul 26 | 0.20 ANA 11.20 | ■ Deal personal consumption averageditures | lum | MaM 0/ aba | 0 1 40 | 0.160 | 0.000 | 0.005 | 2.2 |
| | 8:30 AM Jul 30 | Real personal consumption expenditures Real disposable personal income | Jun | MoM % chg. MoM % chg. | 0.143 0.184 | 0.162 0.304 | 0.280 0.020 | 0.005 0.002 | |
| | 8:30 AM Jul 30 | | Jun | | | | 0.020 | 0.002 | |
| | 8:30 AM Jul 30 8:30 AM Jul 30 | PCE less food and energy: Chain price index PCE: Chain price index | Jun Jun | MoM % chg. MoM % chg. | 0.138 0.120 | 0.248 0.121 | 0.263 | 0.000 | |
| | 8:05 AM Jul 31 | ADP nonfarm private payroll employment | Jul | Level chg. (thousands) | 132.1 | 156.0 | *1.468 | 0.000 | |
| | 10:00 AM Aug 01 | ■ ISM mfg.: PMI composite index | Jul | Index | 54.4 | 51.2 | 0.086 | -0.278 | |
| | 10:00 AM Aug 01 | ■ ISM mfg.: Employment index | Jul | Index | 54.7 | 51.7 | 0.037 | -0.270 | |
| | 10:00 AM Aug 01 | Value of construction put in place | Jun | MoM % chg. | -0.132 | -1.26 | 0.037 | -0.111 | |
| | 10:10 AM Aug 01 | ISM mfg.: Prices index | Jul | Index | 52.2 | 45.1 | 0.027 | -0.031 | |
| | 8:30 AM Aug 02 | Civilian unemployment rate | Jul | Ppt. chg. | 0.003 | 0.000 | -0.303 | 0.001 | |
| | 8:30 AM Aug 02 | Exports: Goods and services | Jun | MoM % chg. | 0.084 | -2.08 | 0.064 | -0.138 | |
| | 8:30 AM Aug 02 | Imports: Goods and services | Jun | MoM % chg. | -0.816 | -1.72 | 0.051 | -0.046 | |
| | 8:30 AM Aug 02 | All employees: Total nonfarm | Jul | Level chg. (thousands) | 157.8 | 164.0 | *0.551 | 0.003 | |
| | 10:00 AM Aug 02 | Inventories: Total business | Jun | MoM % chq. | 0.169 | 0.099 | -0.071 | 0.005 | |
| | 2.22 32 | Data revisions | = =:: : | ···· / · · · · · · · · · · · · · · · · | 200 | 2.500 | | -0.035 | |
| ıg 02 | | | | | | | | 2.230 | 1.5 |

Source: Authors' calculations, based on data accessed through Haver Analytics.

Notes: MoM % chg. indicates month over month percentage change. QoQ % chg. indicates quarter over quarter percentage change. The weights with the asterisk are multiplied by 1,000 for legibility.

2 | 2019:Q2 GDP Growth





Source: Authors' calculations, based on data accessed through Haver Analytics. Note: Colored bars reflect the impact of each data release on the nowcast.

2.1 | Nowcast Detail

| 00 AM Jul 01 00 AM Jul 01 00 AM Jul 01 00 AM Jul 01 00 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 03 30 AM Jul 03 30 AM Jul 05 30 AM Jul 05 | Data Series ISM mfg.: PMI composite index ISM mfg.: Prices index Value of construction put in place ISM mfg.: Employment index ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun Jun May Jun May May May Jun | Index Index Index MoM % chg. Index Level chg. (thousands) MoM % chg. MoM % chg. | 50.8 50.9 0.191 50.1 44.4 0.476 | 51.7 47.9 -0.777 54.5 102.0 | (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d | Impact $[c(b-a)]$ 0.018 -0.008 -0.013 | Nowcast GDP Growth 1.30 |
|--|--|---|---|--|---|---|--|--|
| 00 AM Jul 01 00 AM Jul 01 00 AM Jul 01 05 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 03 | ISM mtg.: Prices index Value of construction put in place ISM mtg.: Employment index ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun May Jun Jun May May Jun | Index MoM % chg. Index Level chg. (thousands) MoM % chg. MoM % chg. | 50.8 50.9 0.191 50.1 44.4 | 51.7 47.9 -0.777 54.5 | 0.020 0.003 0.014 | 0.018 -0.008 -0.013 | 1.30 |
| 00 AM Jul 01 00 AM Jul 01 00 AM Jul 01 05 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 03 | ISM mtg.: Prices index Value of construction put in place ISM mtg.: Employment index ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun May Jun Jun May May Jun | Index MoM % chg. Index Level chg. (thousands) MoM % chg. MoM % chg. | 50.9 0.191 50.1 44.4 | 47.9 -0.777 54.5 | 0.003 0.014 | -0.008 -0.013 | 1.30 |
| 00 AM Jul 01 00 AM Jul 01 00 AM Jul 01 05 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 03 | ISM mtg.: Prices index Value of construction put in place ISM mtg.: Employment index ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun May Jun Jun May May Jun | Index MoM % chg. Index Level chg. (thousands) MoM % chg. MoM % chg. | 50.9 0.191 50.1 44.4 | 47.9 -0.777 54.5 | 0.003 0.014 | -0.008 -0.013 | 1.00 |
| 00 AM Jul 01 00 AM Jul 01 00 AM Jul 01 05 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 03 | ISM mtg.: Prices index Value of construction put in place ISM mtg.: Employment index ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun May Jun Jun May May Jun | Index MoM % chg. Index Level chg. (thousands) MoM % chg. MoM % chg. | 50.9 0.191 50.1 44.4 | 47.9 -0.777 54.5 | 0.003 0.014 | -0.008 -0.013 | |
| 00 AM Jul 01 00 AM Jul 01 05 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 03 | Value of construction put in place ISM mfg.: Employment index ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | May Jun Jun May May Jun | MoM % chg. Index Level chg. (thousands) MoM % chg. MoM % chg. | 0.191 50.1 44.4 | -0.777 54.5 | 0.014 | -0.013 | |
| 00 AM Jul 01 05 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 05 | ISM mfg.: Employment index ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun Jun May May Jun | Index Level chg. (thousands) MoM % chg. MoM % chg. | 50.1 44.4 | 54.5 | | | |
| 05 AM Jul 03 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 05 | ADP nonfarm private payroll employment Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun May May Jun | Level chg. (thousands) MoM % chg. MoM % chg. | 44.4 | | | 0.052 | |
| 30 AM Jul 03 30 AM Jul 03 00 AM Jul 03 00 AM Jul 03 30 AM Jul 05 | Exports: Goods and services Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | May May Jun | MoM % chg. MoM % chg. | | | *0.185 | 0.011 | |
| 00 AM Jul 03 00 AM Jul 03 30 AM Jul 05 | Imports: Goods and services ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | May Jun | MoM % chg. | | 2.05 | 0.041 | 0.065 | |
| 00 AM Jul 03 30 AM Jul 05 | ISM nonmanufacturing: NMI composite index Inventories: Total business All employees: Total nonfarm | Jun | <u>o</u> | 0.628 | 3.31 | 0.036 | 0.097 | |
| 30 AM Jul 05 | ■ Inventories: Total business ■ All employees: Total nonfarm | N 4 - | Index | 55.3 | 55.1 | 0.002 | -0.000 | |
| | | May | MoM % chg. | 0.257 | 0.362 | -0.013 | -0.001 | |
| 30 AM Jul 05 | | Jun | Level chg. (thousands) | 90.3 | 224.0 | *0.150 | 0.020 | |
| | Civilian unemployment rate | Jun | Ppt. chg. | 0.007 | 0.100 | -0.136 | -0.013 | |
| | Data revisions | | | | | | 0.002 | |
| | Parameter revisions | | | | | | -0.048 | |
| | | | | | | | | 1.48 |
| 00 AM Jul 09 | JOLTS: Job openings: Total | May | Level chg. (thousands) | 39.5 | -49.0 | *0.026 | -0.002 | |
| 40 AM Jul 11 | CPI-U: All items | Jun | MoM % chg. | 0.104 | 0.059 | 0.045 | -0.002 | |
| 40 AM Jul 11 | CPI-U: All items less food and energy | Jun | MoM % chg. | 0.144 | 0.294 | 0.056 | 0.008 | |
| 30 AM Jul 12 | PPI: Final demand | Jun | MoM % chg. | 0.122 | 0.085 | 0.034 | -0.001 | |
| | ■ Data revisions | | | | | | 0.004 | |
| | | | | | | | | 1.49 |
| 30 AM Jul 15 | ■ Empire State Mfg. Survey: General business conditions | Jul | Index | -2.31 | 4.30 | 0.000 | 0.001 | |
| 30 AM Jul 16 | Retail sales and food services | Jun | MoM % chg. | 0.166 | 0.426 | 0.069 | 0.018 | |
| 30 AM Jul 16 | Import price index | Jun | MoM % chg. | -0.069 | -0.946 | 0.006 | -0.005 | |
| 30 AM Jul 16 | Export price index | Jun | MoM % chg. | -0.076 | -0.710 | 0.016 | -0.010 | |
| 20 AM Jul 16 20 AM Jul 16 | Industrial production indexCapacity utilization | Jun Jun | MoM % chg. Ppt. chg. | -0.075 -0.097 | -0.035 -0.165 | 0.115 0.147 | 0.005 -0.010 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 30 AIVI JUI 10 | | Jui | IIIUEX | 4.24 | 21.0 | -0.001 | | |
| | = Data (OVIOIOI IS | | | | | | 0.000 | 1.41 |
| 00 AM Jul 24 | New single family houses sold | Jun | MoM % cha. | 1.77 | 6.95 | 0.003 | 0.016 | 1.71 |
| 30 AM Jul 25 | | | | | | | | |
| 30 AM Jul 25 | | | | | | | | |
| 30 AM Jul 25 | | Jun | O . | -0.288 | 1.39 | 0.048 | 0.080 | |
| 30 AM Jul 25 | | Jun | | | -0.670 | 0.004 | -0.002 | |
| 30 AM Jul 25 | | Jun | | 0.209 | 0.309 | -0.014 | -0.001 | |
| | ■ Data revisions | | Ü | | | | -0.008 | |
| | | | | | | | | 1.50 |
| | Deal group demostic product (actions a) | 00 | 000 % obs: AD | 1 50 | 0.00 | | | |
| | Hear gross domestic product (advance) | Q2 | QUQ % CNg. AK | | | | a of the OO :- | ou voort |
| 3(3(3(3(3(3(| O AM Jul 25 O AM Jul 25 O AM Jul 25 O AM Jul 25 | Building permits Phila. Fed Mfg. business outlook: Current activity Data revisions New single family houses sold Manufacturers' new orders: Durable goods Merchant wholesalers: Inventories: Total Manufacturers' shipments: Durable goods Mfrs.' unfilled orders: All manufacturing industries Manufacturers' inventories: Durable goods Manufacturers' inventories: Durable goods Data revisions | Building permits DAM Jul 18 Phila. Fed Mfg. business outlook: Current activity Data revisions DAM Jul 24 DAM Jul 25 DAM | Building permits Phila. Fed Mfg. business outlook: Current activity Data revisions Phila. Fed Mfg. business outlook: Current activity Data revisions Phila. Fed Mfg. business outlook: Current activity Data revisions New single family houses sold Manufacturers' new orders: Durable goods Manufacturers' new orders: Total MoM % chg. Manufacturers' shipments: Durable goods Mfrs.' unfilled orders: All manufacturing industries Manufacturers' inventories: Durable goods Manufacturers' inventories: Durable goods Data revisions Data revisions | Building permits AM Jul 18 Phila. Fed Mfg. business outlook: Current activity Data revisions DAM Jul 24 DAM Jul 25 DAM Jul 26 DAM | DAM Jul 17 Building permits DAM Jul 18 Phila. Fed Mfg. business outlook: Current activity Data revisions DAM Jul 24 New single family houses sold DAM Jul 25 Manufacturers' new orders: Durable goods DAM Jul 25 Merchant wholesalers: Inventories: Total DAM Jul 25 Manufacturers' shipments: Durable goods DAM Jul 25 Manufacturers' shipments: Durable goods DAM Jul 25 Miffs.' unfilled orders: All manufacturing industries DAM Jul 25 Manufacturers' inventories: Durable goods DAM Jul 26 Real gross domestic product (advance) DAM Jul 26 Real gross domestic product (advance) Q2 QoQ % chg. AR 1.50 2.06 | DAM Jul 17 Building permits DAM Jul 18 Phila. Fed Mfg. business outlook: Current activity Data revisions DAM Jul 24 New single family houses sold DAM Jul 25 Manufacturers' new orders: Durable goods DAM Jul 25 Merchant wholesalers: Inventories: Total DAM Jul 25 Manufacturers' shipments: Durable goods DAM Jul 25 Manufacturers' inventories: Durable goods DAM Jul 25 Manufacturers' inventories: Durable goods DAM Jul 25 Manufacturers' inventories: Durable goods DAM Jul 26 Real gross domestic product (advance) DAM Jul 26 Real gross domestic product (advance) Q2 QoQ % chg. AR 1.50 2.061 | DAM Jul 17 Building permits DAM Jul 18 Phila. Fed Mfg. business outlook: Current activity Data revisions DAM Jul 24 New single family houses sold DAM Jul 25 Manufacturers' new orders: Durable goods DAM Jul 25 Manufacturers' shipments: Total DAM Jul 25 Manufacturers' shipments: Durable goods DAM Jul 25 Manufacturers' inventories: Durable goods DAM Jul 25 Data revisions |

Source: Authors' calculations, based on data accessed through Haver Analytics.

Notes: MoM % chg. indicates month over month percentage change. QoQ % chg. indicates quarter over quarter percentage change. The weights with the asterisk are multiplied by 1,000 for legibility.

Nowcasting Report Q&A

1. What is the ultimate goal of the exercise?

Our model produces a "nowcast" of GDP growth, incorporating a wide range of macroeconomic data as it becomes available. With this approach, we aim to read the real-time flow of information and evaluate its effects on current economic conditions. The platform provides a model-based counterpart to the more routine analysis at the bank, which has traditionally been based on expert knowledge.

2. What is the modeling strategy?

The platform employs Kalman-filtering techniques and a dynamic factor model. The approach has a number of desirable features. It is based on:

- a reliable big data framework that captures in a parsimonious way the salient features of macroeconomic data dynamics;
- a design that digests the data as "news," mimicking the way markets work.

3. What are the input data? What has been driving the data selection?

We include all the market-moving indicators—the same data that are also constantly monitored by market participants and commentators.

4. Why should we trust the model?

Extensive back-testing of the model, research, and practical experience have shown that the platform is able to approximate best practices in macroeconomic forecasts. The model produces forecasts that are as accurate as, and strongly correlated with, predictions based on best judgment.

The methodology has been tested for accuracy in many countries, including large developed economies (the Euro area, Italy, France, Germany, Spain, the United Kingdom, Japan, and Canada), small open economies (Australia, Ireland, Belgium, New Zealand, the Czech

Republic, and Scotland), fast-growing economies (Brazil, Russia, India, China, and South Africa), and developing economies (Mexico, Indonesia, and Argentina).

5. How should we read the output of the model?

- The model produces forecasts for all variables taking into account their dynamic interactions.
- Since it is a fully specified dynamic model, the platform provides an intuitive reading of the incoming data as "news."
- The difference between two consecutive forecasts (that is, the forecast revision) is the weighted average of the news during the week.
- News is defined as the difference between released data and model predictions. The weights account for the information content as well as the timeliness of the data releases.
- The contribution of new data to the forecast revision is reported in the two charts with colored bars. To make the charts easier to read, we grouped variables in a few broad categories. Detailed information about the composition of the groupings is provided in the accompanying tables.

References

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- Bok, B., D. Caratelli, D. Giannone, A. Sbordone, and A. Tambalotti. 2017. "Macroeconomic Nowcasting and Forecasting with Big Data." Federal Reserve Bank of New York Staff Reports, no. 830, November.
- Giannone, D., L. Reichlin, and D. Small. 2008. "Nowcasting: The Real-Time Informational Content of Macroeconomic Data." Journal of Monetary Economics 55, no.4 (May): 665-76.

New York Fed / Research & Statistics Group 8 Nowcasting Report / August 2, 2019 6

Nowcasting Report FAQs

1. What is the schedule for reporting and updating the nowcast for each quarter?

We start reporting the nowcast of GDP growth for a reference quarter one week after the publication of the second official GDP estimate for two quarters prior. For example, we began reporting the nowcast for 2017:Q2 on Friday, March 10, 2017, following the government's second estimate of 2016:Q4 GDP on Tuesday, February 28, 2017. We continue to update the nowcast for a reference quarter until the release of the advance GDP estimate, roughly one month after the end of the quarter. For 2017:Q2, this occurred on July 28, 2017, at which point we stopped updating the nowcast for this quarter. We retain the reference quarter's progression plot and detail table in the Nowcasting Report until the publication of the second GDP estimate, roughly two months after the end of the quarter. Following the second estimate of 2017:Q2 GDP on August 30, 2017, we removed 2017:Q2 from the Nowcasting Report and began reporting the nowcast for 2017:Q4.

2. What are the major conceptual differences between the New York Fed Staff Nowcast and the Atlanta Fed's Nowcast?

The New York Fed Staff Nowcast and the Atlanta Fed's GDPNow are both based on statistical filtering techniques applied to a dynamic factor model. These techniques are very common in big data analytics since they effectively summarize the information contained in large data sets through a small number of common factors. The general framework for macroeconomic nowcasting has been developed in the academic literature over the past ten years, as discussed in the Q&A included in this report. The New York Fed Staff Nowcast is a straightforward application of the most advanced techniques developed in this academic literature. GDPNow adapts these techniques to mimic the methods used by the

BEA to estimate real GDP growth, as well explained by GDPNow's own FAQs.

Because GDPNow and the New York Fed Staff Nowcast are different models, they can generate different forecasts of real GDP growth. Our policy is not to comment on or interpret any differences between the forecasts of these two models.

3. Is the "annual rate" the y/y growth rate?

No. We track the annualized quarterly ("q/q") growth rate of real GDP, not the four-quarter ("y/y") growth rate.

4. Can we obtain the data underlying this analysis?

To make it easier for nowcast followers to better understand and replicate our results, we share the MATLAB code for our model and a snapshot of data sets from the past year on Github at https://github.com/FRBNY-TimeSeriesAnalysis/Nowcasting. The newest releases for all data series are publicly available from source websites; real-time historical data for most series can be retrieved from the St. Louis Fed's ALFRED database. Unfortunately, we cannot provide the complete data set used in our model because the historical data for a handful of series (including the ISM manufacturing and nonmanufacturing indexes) are proprietary. As a consequence, the replication files do not exactly reproduce the published version of the New York Fed Staff Nowcast.

Authors

New York Fed Time-Series Analysis Team