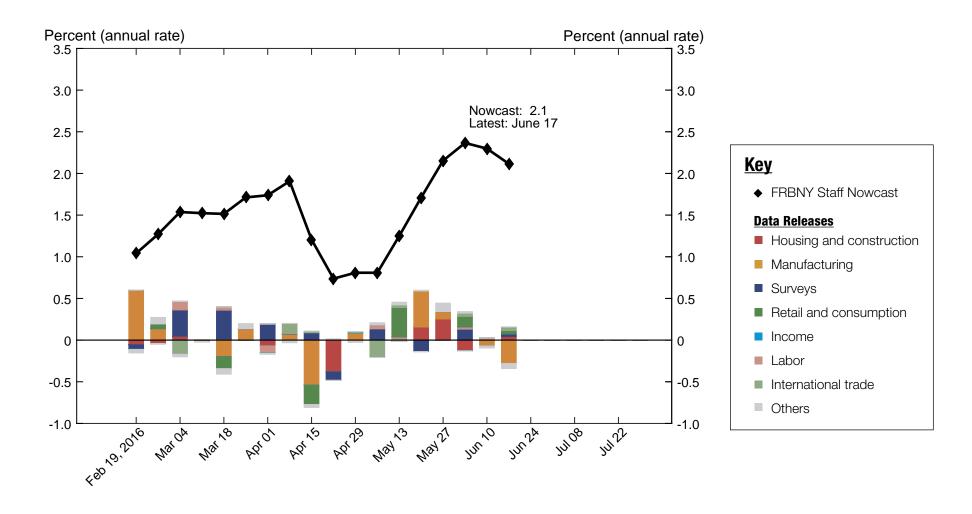
- The FRBNY Staff Nowcast is slightly above 2% for both 2016:Q2 and 2016:Q3, having declined slightly over the past week.
- This week's news had an overall negative effect on the nowcast.
- The largest negative contributions came from manufacturing data, only partly offset by positive news from retail sales and housing data.

The FRBNY 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). While we are precluded from publishing our estimates during blackouts surrounding FOMC meetings, we continue to update our model internally and share the analysis in the next Nowcasting Report.



Source: Authors' calculations. Notes: Colored bars reflect the relative impact of each data release on the nowcast.

1.1 | Nowcast Detail

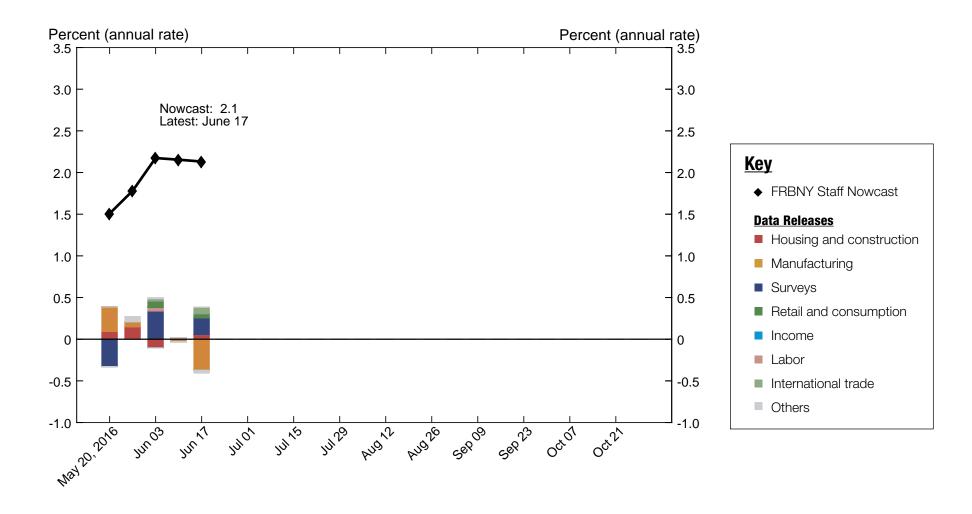
Housing and construction	Manufacturing	Surveys	Retail and consumption	Income	Labor	International trade	Others

Jpdate	Release Date	Data Series	Reference Period	Units	Forecast	Actual	Weight	Impact	Nowcast GDP Growt
					[a]	[b]	[c]	[c(b-a)]	
May 19									1.7
	10:00 AM May 24	New single family houses sold	Apr	MoM % chq.	0.728	16.6	0.016	0.254	
	8:30 AM May 26	Manufacturers' new orders: Durable goods	Apr	MoM % chg.	-0.103	3.36	0.029	0.099	
	8:30 AM May 26	Manufacturers' shipments: Durable goods	Apr	MoM % chq.	0.671	0.639	0.126	-0.004	
	8:30 AM May 26	Mfrs.' unfilled orders: All manufacturing industries	Apr	MoM % chq.	0.132	0.559	-0.026	-0.011	
	8:30 AM May 26	Manufacturers' inventories: Durable goods	Apr	MoM % chq.	-0.166	-0.179	-0.454	0.006	
	8:30 AM May 27	Real gross domestic income	Q1	QoQ % chg. AR	0.917	2.21	0.020	0.026	
		Data revisions	G.	dod /o ong. / in	0.011	2.21	0.020	0.074	
ay 27									2.
	8:30 AM May 31	Real disposable personal income	Apr	MoM % chg.	0.227	0.153	0.034	-0.003	
	8:30 AM May 31	PCE less food and energy: Chain price index	Apr	MoM % chg.	0.148	0.171	0.107	0.002	
	8:30 AM May 31	PCE: Chain price index	Apr	MoM % chg.	0.117	0.307	0.099	0.019	
	8:40 AM May 31	Real personal consumption expenditures	Apr	MoM % chg.	0.321	0.643	0.386	0.124	
	10:00 AM Jun 01	ISM mfg.: Pmi composite index	May	Index	49.8	51.3	0.049	0.076	
	10:00 AM Jun 01	■ ISM mfg.: Prices index	May	Index	57.8	63.5	0.008	0.046	
	10:00 AM Jun 01	Value of construction put in place	Apr	MoM % chg.	0.889	-1.83	0.047	-0.128	
	10:00 AM Jun 01	ISM mfg.: Employment index	May	Index	47.9	49.2	0.018	0.024	
	8:05 AM Jun 02	ADP nonfarm private payroll employment	May	Level chg. (thousands)	162.9	173.0	-0.782*	-0.008	
	8:30 AM Jun 03	All employees: Total nonfarm	May	Level chg. (thousands)	103.4	38.0	0.156*	-0.010	
	8:30 AM Jun 03	Civilian unemployment rate	May	Ppt. chq.	0.010	-0.300	-0.150	0.047	
	8:30 AM Jun 03	Exports: Goods and services	Apr	MoM % chq.	0.944	1.46	0.081	0.042	
	8:30 AM Jun 03	Imports: Goods and services	Apr	MoM % chq.	2.12	2.10	0.059	-0.002	
	10:00 AM Jun 03	■ ISM nonmanufacturing: NMI composite index	May	Index	54.8	52.9	0.007	-0.014	
		Data revisions	Widy	index	01.0	02.0	0.001	-0.004	
n 03									2
	10:00 AM Jun 08	JOLTS: Job openings: Total	Apr	Level chg. (thousands)	-12.2	118.0	0.206*	0.027	
	10:00 AM Jun 09	Merchant wholesalers: Inventories: Total	Apr	MoM % chg.	0.165	0.624	-0.153	-0.070	
		Data revisions						-0.024	
n 09									2
	8:30 AM Jun 14	Import price index	May	MoM % chg.	0.455	1.43	0.016	0.016	
	8:30 AM Jun 14	Export price index	May	MoM % chg.	0.261	1.10	0.033	0.028	
	8:40 AM Jun 14	Retail sales and food services	May	MoM % chg.	0.266	0.450	0.212	0.039	
	10:00 AM Jun 14	Inventories: Total business	Apr	MoM % chg.	0.140	0.145	-0.173	-0.001	
	8:30 AM Jun 15	PPI: Final demand	May	MoM % chg.	0.142	0.365	0.021	0.005	
	8:30 AM Jun 15	Empire State Mfg. Survey: General business conditions	Jun	Index	-2.30	6.01	0.003	0.026	
	9:10 AM Jun 15	Industrial production index	May	MoM % chq.	0.113	-0.416	0.290	-0.154	
	9:10 AM Jun 15	Capacity utilization	May	Ppt. chg.	0.025	-0.327	0.359	-0.126	
	8:30 AM Jun 16	 Philly Fed Mfg. business outlook: Current activity 	Jun	Index	1.84	4.70	0.002	0.005	
	8:40 AM Jun 16	CPI-U: All items	May	MoM % chg.	0.271	0.218	0.039	-0.002	
	8:40 AM Jun 16	CPI-U: All items less food and energy	May	MoM % chg.	0.171	0.203	0.013	0.000	
	8:30 AM Jun 17	 Housing starts 	May	MoM % chg.	-0.534	-0.257	0.019	0.005	
	8:30 AM Jun 17	 Building permits 	May	Level chg. (thousands)	-13.7	8.00	0.002	0.039	
		Data revisions			10.1	0.00	0.002	-0.063	
n 17								0.000	2

Source: Authors' calculations.

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 | 2016:Q3 GDP Growth



Source: Authors' calculations. Note: Colored bars reflect the impact of each data release on the nowcast.

2.1 | Nowcast Detail

Ipdate	Release Date	Data Series	Reference Period	Units	Forecast	Actual	Weight	Impact	Nowcast GDP Growth
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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

- Banbura, M., D. Giannone, M. Modugno, and L. Reichlin. 2013. "Nowcasting and the Real-Time Data Flow." In G. Elliott and A. Timmermann, eds., *Handbook of Economic Forecasting*, Vol. 2. Amsterdam: Elsevier-North Holland.
- 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.

Nowcasting Report FAQs

1. For how long you report a quarter?

We start reporting the nowcast of GDP growth for a reference quarter about one month before the quarter begins; we stop updating it about one month after the quarter closes.

Precise dates are related to the Commerce Department's schedule for the release of official GDP estimates. For example, we began reporting 2016:Q1 on November 20, 2015, just after the government released the second GDP estimate for 2016:Q3. We stopped updating the nowcast for 2016:Q1 on April 28, 2016, with the release of the advance GDP estimate for the reference quarter. We continued reporting 2016:Q1 until the second GDP estimate for the quarter became available. At that point, we started computing the nowcasts for 2016:Q3.

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

The FRBNY 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 FRBNY 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 FRBNY 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 GDP, not the four quarters ("y/y") growth rate.

Authors

FRBNY Time-Series Analysis Team