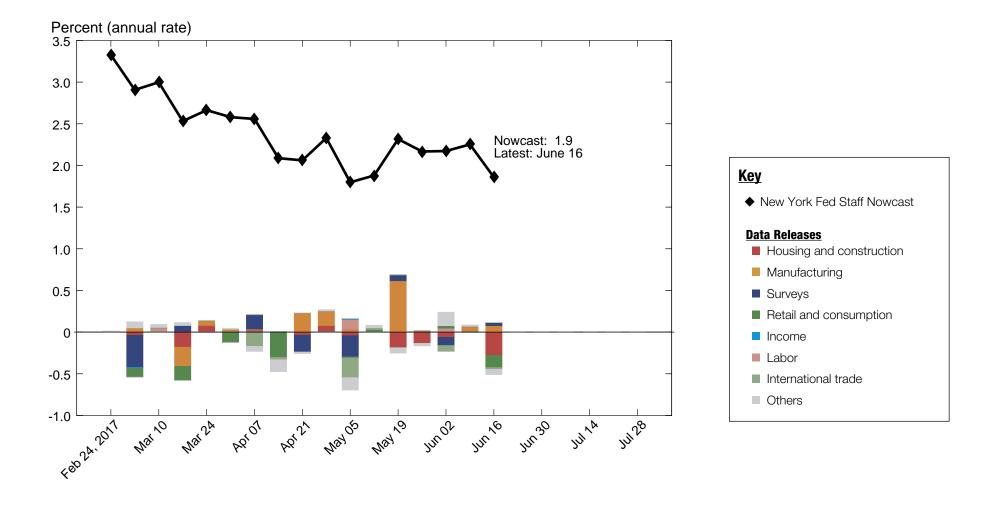
- The New York Fed Staff Nowcast stands at 1.9% for 2017:Q2 and 1.5% for 2017:Q3.
- News from this week's data releases reduced the nowcast for Q2 by 0.4 percentage point and for Q3 by 0.3 percentage point.
- The decrease in the nowcast was driven mainly by negative surprises from housing and retail sales data that were only partly offset by positive surprises from surveys and manufacturing data.

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).

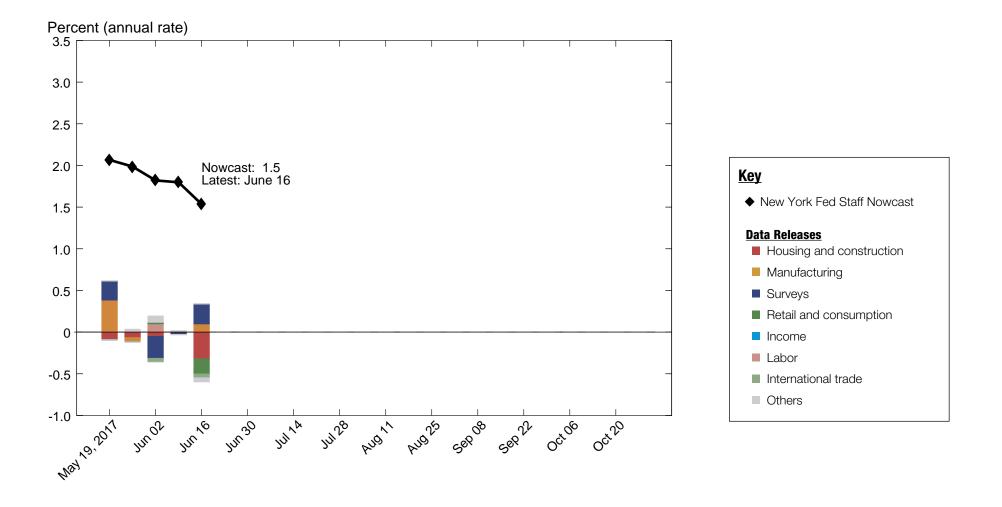


Source: Authors' calculations, based on data accessed through Haver Analytics. Note: Colored bars reflect the impact of each data release on the nowcast.

1.1 | Nowcast Detail

	Housing and co	nstruction 📕 Manufacturing 📕 Surveys 📕 Reta	il and consur	nption 📃 Income	Labor	International trade		Others	
Jpdate	Release Date	Data Series	Reference Period	Units	Forecast	Actual	Weight	Impact	Nowcast GDP Grow
					[a]	[b]	[c]	[c(b-a)]	
May 18									2.3
viay 10	10:00 AM May 23	New single family houses sold	Apr	MoM % chq.	-0.907	-11.4	0.013	-0.136	2.0
	8:30 AM May 25	 Merchant wholesalers: Inventories: Total 	Apr	MoM % chg.	0.352	-0.348	-0.258	0.181	
	8:30 AM May 26	Manufacturers' new orders: Durable goods	Apr	MoM % chg.	0.030	-0.673	0.021	-0.014	
	8:30 AM May 26	Manufacturers' shipments: Durable goods	Apr	MoM % chg.	0.616	-0.298	0.110	-0.101	
	8:30 AM May 26	 Manufacturing industries Mfrs.' unfilled orders: All manufacturing industries 	Apr	MoM % chg.	0.179	0.215	-0.031	-0.001	
	8:30 AM May 26	Manufacturers' inventories: Durable goods	Apr	MoM % chg.	0.003	0.140	-0.346	-0.048	
	8:30 AM May 26	Real gross domestic income	Q1	QoQ % chg. AR	2.42	0.848	0.040	-0.025	
	0.007 Wi May 20	Data revisions	Q	ada // ong. / in	2.72	0.040	0.010	-0.005	
lay 26		Data revisione						0.000	2.
, 20	8:30 AM May 30	Real disposable personal income	Apr	MoM % chg.	0.172	0.204	0.039	0.001	
	8:30 AM May 30	 PCE less food and energy: Chain price index 	Apr	MoM % chg.	0.081	0.204	0.236	0.016	
	8:30 AM May 30	PCE: Chain price index	Apr	MoM % chg.	-0.006	0.189	0.200	0.024	
	8:40 AM May 30	 Real personal consumption expenditures 	Apr	MoM % chg.	0.130	0.216	0.319	0.027	
	8:05 AM Jun 01	ADP nonfarm private payroll employment	May	Level chg. (thousands)	169.9	253.0	0.490*	0.041	
	10:00 AM Jun 01	Value of construction put in place	Apr	MoM % chg.	0.528	-1.38	0.032	-0.062	
	10:00 AM Jun 01	ISM mfg.: Pmi composite index	May	Index	56.0	54.9	0.048	-0.054	
	10:00 AM Jun 01	ISM mfg.: Prices index	May	Index	67.0	60.5	0.007	-0.047	
	10:00 AM Jun 01	ISM mfg.: Employment index	May	Index	53.5	53.5	0.019	0.000	
	8:30 AM Jun 02	All employees: Total nonfarm	May	Level chg. (thousands)	171.9	138.0	0.252*	-0.009	
	8:30 AM Jun 02	Exports: Goods and services	Apr	MoM % chq.	0.759	-0.252	0.069	-0.070	
	8:30 AM Jun 02	Imports: Goods and services	Apr	MoM % chg.	0.801	0.782	0.049	-0.001	
	8:30 AM Jun 02	Civilian unemployment rate	May	Ppt. chg.	-0.008	-0.100	-0.174	0.016	
	0.00 AW 0011 02	Data revisions	Ividy	i pr. ong.	0.000	0.100	0.174	0.122	
un 02		Data revisions						0.122	2
2011	10:00 AM Jun 05	Inventories: Total business	Apr	MoM % chg.	0.185	-0.173	-0.180	0.064	2
	10:00 AM Jun 05	 ISM nonmanufacturing: NMI composite index 	May	Index	58.2	56.9	0.004	-0.005	
	10:00 AM Jun 06	JOLTS: Job openings: Total	Apr	Level chq. (thousands)	-23.8	259.0	0.023*	0.006	
	10.00 AW 001100	Data revisions	Дрі		20.0	200.0	0.020	0.015	
ın 09		Data Tevisionis						0.010	2
	8:30 AM Jun 13	PPI: Final demand	May	MoM % chg.	0.221	0.000	0.032	-0.007	2
	8:30 AM Jun 14	Retail sales and food services	May	MoM % chg.	0.221	-0.253	0.032	-0.146	
	8:50 AM Jun 14	CPI-U: All items	May	MoM % chg.	0.163	-0.128	0.250	-0.017	
	8:50 AM Jun 14	CPI-U: All items less food and energy	May	MoM % chg.	0.132	0.063	0.033	-0.005	
	8:30 AM Jun 15	Import price index	May	MoM % chg.	0.152	-0.326	0.010	-0.005	
	8:30 AM Jun 15	Export price index	May	MoM % chg.	0.127	-0.653	0.010	-0.017	
	8:30 AM Jun 15	 Export price index Empire State Mfg. Survey: General business conditions 	Jun	Index	7.19	19.8	0.022	0.031	
	8:30 AM Jun 15	 Philadelphia Fed Mfg. business outlook: Current activity 	Jun	Index	24.4	27.6	0.002	0.007	
	9:20 AM Jun 15	 Industrial production index 	May	MoM % chq.	-0.192	-0.004	0.002	0.007	
	9:20 AM Jun 15	Capacity utilization	May	Ppt. chg.	-0.192	-0.076	0.238	0.048	
	8:30 AM Jun 16	Housing starts	May	MoM % chg.	3.00	-5.54	0.018	-0.150	
	8:30 AM Jun 16	 Building permits 	May	Level chg. (thousands)	14.6	-60.0	0.018	-0.130	
		Data revisions	iviay	Lover ong. (mousarius)	14.0	-00.0	0.002	-0.130	
								0.000	1

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.



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

Jpdate	Release Date	Data Series	Reference	Units	Forecast	Actual	Weight	Impact	Nowcas
puale	Tielease Date		Period	OTINS					GDP Grow
					[a]	[b]	[c]	[c(b-a)]	
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		Data revisions						-0.007	
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	9:20 AM Jun 15	Capacity utilization	May	Ppt. chg.	-0.164	-0.076	0.420	0.037	
	8:30 AM Jun 16	Housing starts	May	MoM % chg.	3.00	-5.54	0.020	-0.169	
	8:30 AM Jun 16	Building permits	May	Level chg. (thousands)	14.6	-60.0	0.002	-0.152	
		Data revisions						0.002	

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

- 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 do 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 the nowcast for 2016:Q1 on November 20, 2015, just after the government released the second GDP estimate for 2015: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 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?

We are not making the underlying data available at this time. The tables list the data series employed in calculating our estimates. Sources include the U.S. Bureau of Labor Statistics, Institute for Supply Management, U.S. Census Bureau, U.S. Bureau of Economic Analysis, the New York and Philadelphia Feds, the Fed Board of Governors, and the ADP (Automatic Data Processing, Inc.).

Authors

New York Fed Time-Series Analysis Team