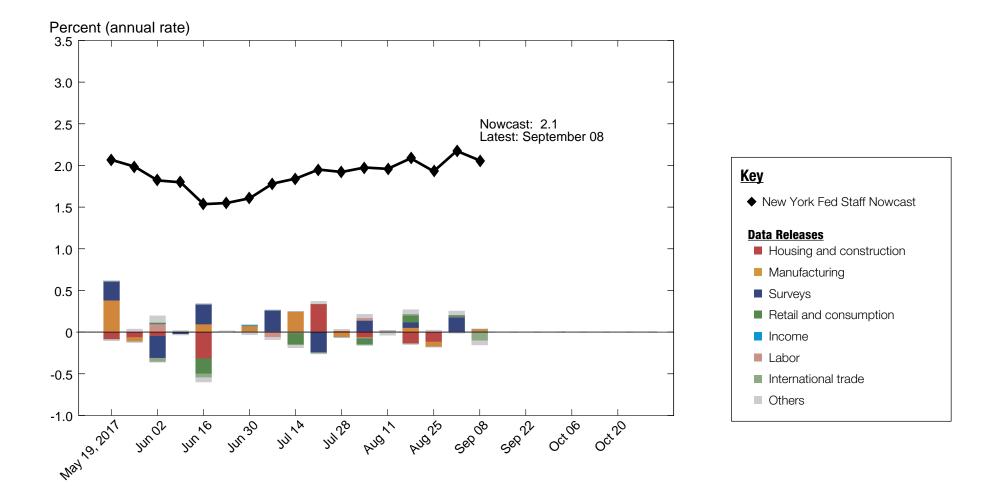
- The New York Fed Staff Nowcast stands at 2.1% for 2017:Q3 and 2.6% for 2017:Q4.
- News from this week's data releases decreased the nowcasts for both quarters by 0.1 percentage point.
- Negative impacts from lower than expected imports and exports data accounted for most of the decrease.

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).

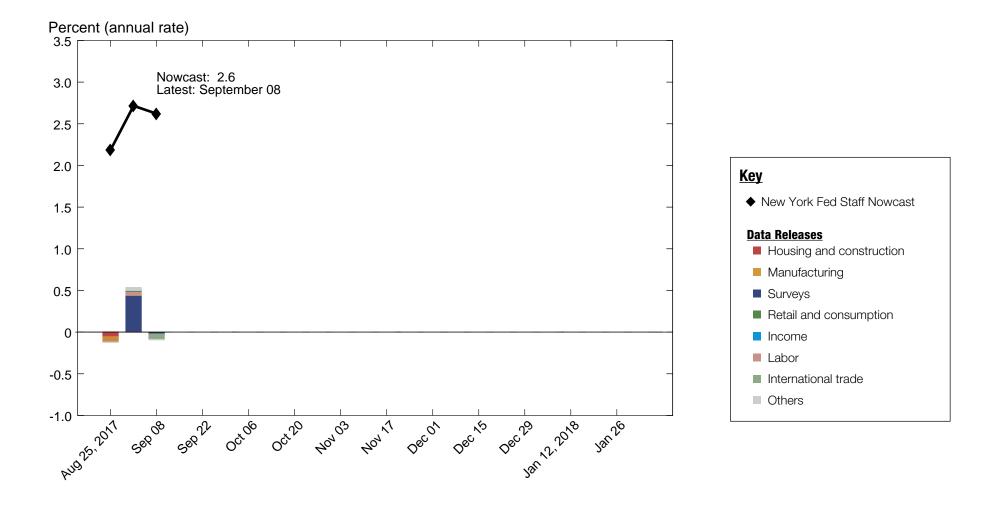


Source: Authors' calculations, based on data accessed through Haver Analytics. Note: Colored bars reflect the impact of each data release on the nowcast.

1.1 | Nowcast Detail

	Housing and co	onstruction 📕 Manufacturing 📕 Surveys 📕 Reta	il and consu	mption 📃 Income	Labor	Interna	ational trac	le Oth	ers
Update	Release Date	Data Series	Reference Period	Units	Forecast	Actual	Weight	Impact	Nowcast GDP Growth
					[a]	[b]	[c]	[c(b-a)]	
Aug 11									1.96
	8:30 AM Aug 15	Retail sales and food services	Jul	MoM % chg.	0.375	0.602	0.359	0.082	
	8:30 AM Aug 15	Import price index	Jul	MoM % chg.	-0.029	0.082	0.024	0.003	
	8:30 AM Aug 15	Export price index	Jul	MoM % chg.	0.038	0.411	0.045	0.017	
	8:30 AM Aug 15	Empire State Mfg. Survey: General business conditions	Aug	Index	12.7	25.2	0.008	0.100	
	8:30 AM Aug 16	Housing starts	Jul	MoM % chg.	-1.92	-4.78	0.031	-0.090	
	8:30 AM Aug 16	Building permits	Jul	Level chg. (thousands)	-34.7	-52.0	0.003	-0.052	
	8:30 AM Aug 17	Philly Fed Mfg. business outlook: Current activity	Aug	Index	24.7	18.9	0.006	-0.035	
	9:10 AM Aug 17	Industrial production index	Jul	MoM % chg.	0.081	0.192	0.322	0.035	
	9:10 AM Aug 17	Capacity utilization	Jul	Ppt. chg.	0.025	0.072	0.421	0.020	
		Data revisions						0.047	
Aug 17									2.09
	10:00 AM Aug 23	New single family houses sold	Jul	MoM % chg.	-0.459	-9.37	0.013	-0.119	
	8:30 AM Aug 25	Manufacturers' new orders: Durable goods	Jul	MoM % chg.	-2.02	-6.79	0.023	-0.109	
	8:30 AM Aug 25	Manufacturers' shipments: Durable goods	Jul	MoM % chg.	0.407	0.412	0.120	0.001	
	8:30 AM Aug 25	Mfrs.' unfilled orders: All manufacturing industries	Jul	MoM % chg.	0.834	-0.337	-0.031	0.037	
	8:30 AM Aug 25	Manufacturers' inventories: Durable goods	Jul	MoM % chg.	0.368	0.337	-0.388	0.012	
		Data revisions						0.023	
Aug 25									1.93
	8:30 AM Aug 28	Merchant wholesalers: Inventories: Total	Jul	MoM % chg.	0.472	0.426	-0.161	0.007	
	8:05 AM Aug 30	ADP nonfarm private payroll employment	Aug	Level chg. (thousands)	188.8	237.0	0.923*	0.044	
	8:30 AM Aug 30	Real gross domestic income	Q2	QoQ % chg. AR	1.98	2.85	0.013	0.012	
	8:30 AM Aug 31	Real disposable personal income	Jul	MoM % chg.	0.217	0.187	0.040	-0.001	
	8:30 AM Aug 31	PCE less food and energy: Chain price index	Jul	MoM % chg.	0.141	0.089	0.206	-0.011	
	8:30 AM Aug 31	PCE: Chain price index	Jul	MoM % chg.	0.116	0.088	0.115	-0.003	
	8:40 AM Aug 31	Real personal consumption expenditures	Jul	MoM % chg.	0.188	0.246	0.323	0.019	
	8:30 AM Sep 01	All employees: Total nonfarm	Aug	Level chg. (thousands)	190.3	156.0	0.286*	-0.010	
	8:30 AM Sep 01	Civilian unemployment rate	Aug	Ppt. chg.	-0.031	0.100	-0.205	-0.027	
	10:00 AM Sep 01	ISM mfg.: Pmi composite index	Aug	Index	56.5	58.8	0.046	0.103	
	10:00 AM Sep 01	ISM mfg.: Prices index	Aug	Index	62.9	62.0	0.006	-0.006	
	10:00 AM Sep 01	ISM mfg.: Employment index	Aug	Index	55.5	59.9	0.017	0.076	
	10:00 AM Sep 01	Value of construction put in place	Jul	MoM % chg.	-0.434	-0.634	0.033	-0.007	
		Data revisions						0.047	
Sep 01									2.17
	10:00 AM Sep 05	Inventories: Total business	Jul	MoM % chg.	0.358	0.158	-0.195	0.039	
	8:30 AM Sep 06	Exports: Goods and services	Jul	MoM % chg.	0.517	-0.290	0.069	-0.056	
	8:30 AM Sep 06	Imports: Goods and services	Jul	MoM % chg.	0.782	-0.175	0.046	-0.044	
	10:00 AM Sep 06	ISM nonmanufacturing: NMI composite index	Aug	Index	56.3	55.3	0.005	-0.005	
		Data revisions						-0.049	
Sep 08									2.06

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

	Housing and co	onstruction 📕 Manufacturing 📕 Surveys 📕 Reta	il and consu	nption 📃 Income	Labor	Interna	ational trac	de Oth	ers
Update	Release Date	Data Series	Reference Period	Units	Forecast	Actual	Weight	Impact	Nowcast GDP Growth
					[a]	[b]	[c]	[c(b-a)]	
Aug 11									2.09
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	8:30 AM Aug 15	Import price index	Jul	MoM % chg.	-0.029	0.082	0.030	0.003	
	8:30 AM Aug 15	Export price index	Jul	MoM % chg.	0.038	0.411	0.054	0.020	
	8:30 AM Aug 15	Empire State Mfg. Survey: General business conditions	Aug	Index	12.7	25.2	0.020	0.256	
	8:30 AM Aug 16	Housing starts	Jul	MoM % chg.	-1.92	-4.78	0.015	-0.043	
	8:30 AM Aug 16	Building permits	Jul	Level chg. (thousands)	-34.7	-52.0	0.001	-0.025	
	8:30 AM Aug 17	Philly Fed Mfg. business outlook: Current activity	Aug	Index	24.7	18.9	0.018	-0.105	
	9:10 AM Aug 17	Industrial production index	Jul	MoM % chg.	0.081	0.192	0.197	0.022	
	9:10 AM Aug 17	Capacity utilization	Jul	Ppt. chg.	0.025	0.072	0.253	0.012	
		Data revisions						0.016	
Aug 17									2.29
-	10:00 AM Aug 23	New single family houses sold	Jul	MoM % chg.	-0.459	-9.37	0.006	-0.053	
	8:30 AM Aug 25	Manufacturers' new orders: Durable goods	Jul	MoM % chg.	-2.02	-6.79	0.013	-0.062	
	8:30 AM Aug 25	Manufacturers' shipments: Durable goods	Jul	MoM % chg.	0.407	0.412	0.073	0.000	
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	8:30 AM Aug 25	Manufacturers' inventories: Durable goods	Jul	MoM % chg.	0.368	0.337	-0.081	0.002	
		Data revisions		-				0.011	
Aug 25									2.19
	8:30 AM Aug 28	Merchant wholesalers: Inventories: Total	Jul	MoM % chg.	0.472	0.426	-0.001	0.000	
	8:05 AM Aug 30	ADP nonfarm private payroll employment	Aug	Level chg. (thousands)	188.8	237.0	2.236*	0.108	
	8:30 AM Aug 30	Real gross domestic income	Q2	QoQ % chg. AR	1.98	2.85	0.003	0.002	
	8:30 AM Aug 31	Real disposable personal income	Jul	MoM % chg.	0.217	0.187	0.019	-0.001	
	8:30 AM Aug 31	PCE less food and energy: Chain price index	Jul	MoM % chg.	0.141	0.089	0.226	-0.012	
	8:30 AM Aug 31	PCE: Chain price index	Jul	MoM % chg.	0.116	0.088	0.132	-0.004	
	8:40 AM Aug 31	Real personal consumption expenditures	Jul	MoM % chg.	0.188	0.246	0.187	0.011	
	8:30 AM Sep 01	All employees: Total nonfarm	Aug	Level chg. (thousands)	190.3	156.0	0.570*	-0.020	
	8:30 AM Sep 01	Civilian unemployment rate	Aug	Ppt. chg.	-0.031	0.100	-0.294	-0.039	
	10:00 AM Sep 01	ISM mfg.: Pmi composite index	Aug	Index	56.5	58.8	0.114	0.257	
	10:00 AM Sep 01	■ ISM mfg.: Prices index	Aug	Index	62.9	62.0	0.018	-0.017	
	10:00 AM Sep 01	ISM mfg.: Employment index	Aug	Index	55.5	59.9	0.045	0.198	
	10:00 AM Sep 01	Value of construction put in place	Jul	MoM % chg.	-0.434	-0.634	0.026	-0.005	
		Data revisions		intent (e engl				0.050	
Sep 01									2.72
1	10:00 AM Sep 05	Inventories: Total business	Jul	MoM % chg.	0.358	0.158	0.027	-0.005	
	8:30 AM Sep 06	Exports: Goods and services	Jul	MoM % chg.	0.517	-0.290	0.044	-0.036	
	8:30 AM Sep 06	Imports: Goods and services	Jul	MoM % chg.	0.782	-0.175	0.030	-0.029	
	10:00 AM Sep 06	 ISM nonmanufacturing: NMI composite index 	Aug	Index	56.3	55.3	0.016	-0.015	
		Data revisions			00.0	00.0	0.0.0	-0.009	
Sep 08									2.62

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