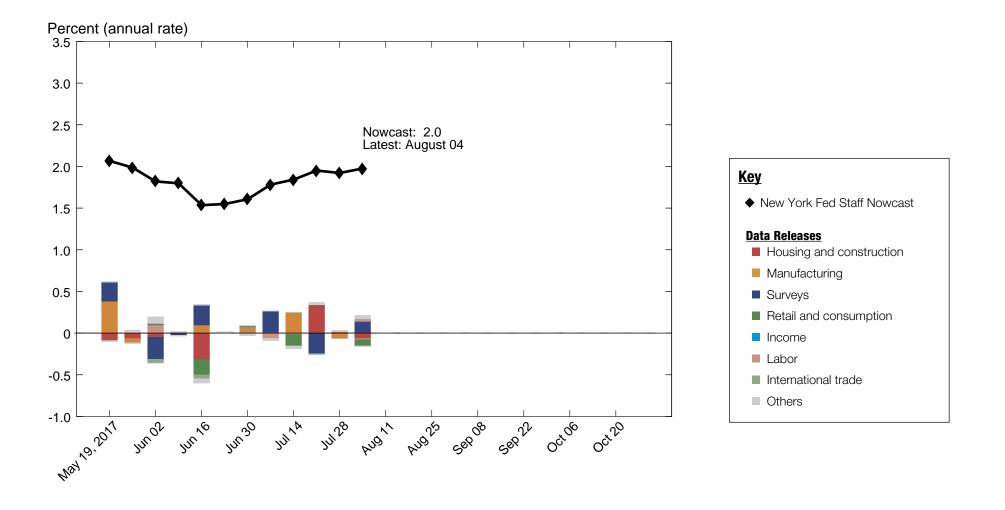
- The New York Fed Staff Nowcast stands at 2.0% for 2017:Q3.
- News from this week's data releases had a small positive impact on the nowcast.
- Positive news from the ISM manufacturing report and from labor market data was only partly offset by negative news from consumption and construction data.

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).

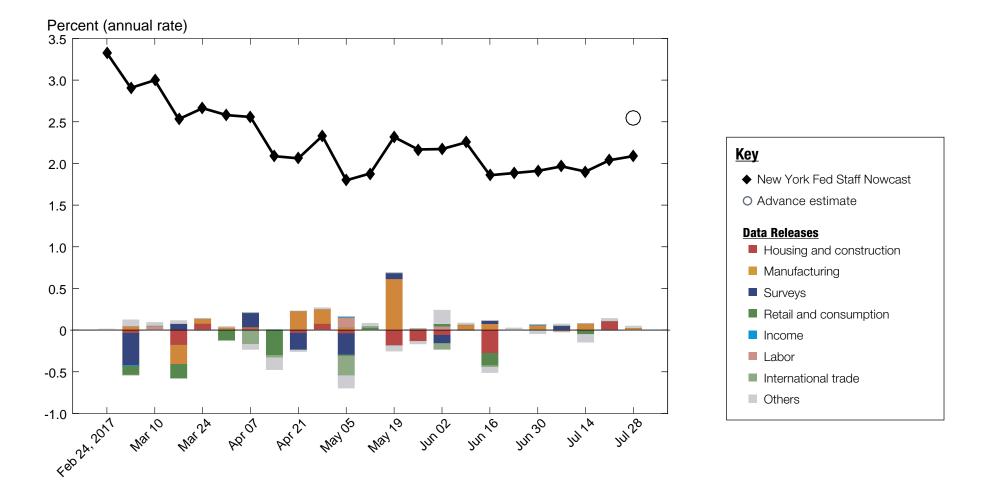


Source: Authors' calculations, based on data accessed through Haver Analytics. Note: Colored bars reflect the impact of each data release on the nowcast.

1.1 | Nowcast Detail

1			Reference						Nowcast
Jpdate	Release Date	Data Series	Period	Units	Forecast	Actual	Weight	Impact	GDP Grow
					[a]	[b]	[c]	[c(b-a)]	
Jul 07									1.7
	10:00 AM Jul 11	JOLTS: Job openings: Total	May	Level chg. (thousands)	-23.4	-301.0	0.067*	-0.019	
	8:30 AM Jul 13	PPI: Final demand	Jun	MoM % chg.	0.110	0.089	0.056	-0.001	
	8:30 AM Jul 14	Retail sales and food services	Jun	MoM % chg.	0.326	-0.155	0.284	-0.137	
	8:40 AM Jul 14	CPI-U: All items	Jun	MoM % chg.	0.074	-0.023	0.080	-0.008	
	8:40 AM Jul 14	CPI-U: All items less food and energy	Jun	MoM % chg.	0.130	0.119	0.090	-0.001	
	9:30 AM Jul 14	Industrial production index	Jun	MoM % chg.	0.049	0.387	0.397	0.134	
	9:30 AM Jul 14	Capacity utilization	Jun	Ppt. chg.	0.001	0.216	0.520	0.112	
		Data revisions						-0.020	
Jul 14	0.00 414 1.147			L. J.	00.0	0.00	0.015	0.450	1.
	8:30 AM Jul 17	Empire State Mfg. Survey: General business conditions	Jul	Index	20.2	9.80	0.015	-0.152	
	8:30 AM Jul 18	Import price index	Jun	MoM % chg.	0.154	-0.163	0.022	-0.007	
	8:30 AM Jul 18	Export price index	Jun	MoM % chg.	-0.050	-0.164	0.041	-0.005	
	8:30 AM Jul 19	 Housing starts Duilding a paratite 	Jun	MoM % chg.	1.48	8.29	0.025	0.173	
	8:30 AM Jul 19	Building permits	Jun	Level chg. (thousands)	16.6	86.0	0.002	0.168	
	8:30 AM Jul 20	 Philly Fed Mfg. business outlook: Current activity Data revisions 	Jul	Index	27.0	19.5	0.013	-0.096	
Jul 20		Data revisions						0.027	1
	10:00 AM Jul 26	New single family houses sold	Jun	MoM % chg.	-0.527	0.826	0.013	0.018	I
	8:30 AM Jul 27	Manufacturers' new orders: Durable goods	Jun	MoM % chg.	-0.527 1.01	6.45	0.013	0.121	
	8:30 AM Jul 27	Manufacturers' shipments: Durable goods	Jun	MoM % chq.	0.039	-0.049	0.022	-0.010	
	8:30 AM Jul 27	 Manufacturers' simplifients: Durable goods Mfrs.' unfilled orders: All manufacturing industries 	Jun	MoM % chg.	0.003	1.27	-0.025	-0.026	
	8:30 AM Jul 27	Manufacturers' inventories: Durable goods	Jun	MoM % chg.	0.224	0.407	-0.339	-0.102	
	8:30 AM Jul 27	Marchant wholesalers: Inventories: Total	Jun	MoM % chg.	0.263	0.566	-0.147	-0.044	
	8:30 AM Jul 28	Real gross domestic product	Q2	QoQ % chg. AR	2.12	2.54	0.017	0.007	
	0.00 AW 00 20	Data revisions	QZ	QUQ /0 UNG. AN	2.12	2.04	0.017	0.008	
Jul 28								0.000	1
	8:30 AM Aug 01	Real disposable personal income	Jun	MoM % chq.	0.161	-0.052	0.040	-0.008	
	8:30 AM Aug 01	 PCE less food and energy: Chain price index 	Jun	MoM % chq.	0.138	0.112	0.229	-0.006	
	8:30 AM Aug 01	PCE: Chain price index	Jun	MoM % chg.	0.106	0.023	0.132	-0.011	
	8:40 AM Aug 01	 Real personal consumption expenditures 	Jun	MoM % chg.	0.223	0.037	0.321	-0.059	
	10:00 AM Aug 01	Value of construction put in place	Jun	MoM % chg.	0.385	-1.30	0.038	-0.064	
	10:00 AM Aug 01	■ ISM mfg.: Pmi composite index	Jul	Index	55.9	56.3	0.100	0.042	
	10:00 AM Aug 01	■ ISM mfg.: Employment index	Jul	Index	54.9	55.2	0.039	0.010	
	10:10 AM Aug 01	■ ISM mfg.: Prices index	Jul	Index	54.5	62.0	0.016	0.118	
	8:05 AM Aug 02	ADP nonfarm private payroll employment	Jul	Level chg. (thousands)	176.4	177.0	0.886*	0.001	
	10:00 AM Aug 03	Inventories: Total business	Jun	MoM % chg.	0.339	0.439	-0.174	-0.017	
	10:00 AM Aug 03	ISM nonmanufacturing: NMI composite index	Jul	Index	56.5	53.9	0.011	-0.029	
	8:30 AM Aug 04	All employees: Total nonfarm	Jul	Level chg. (thousands)	186.6	209.0	0.445*	0.010	
	8:30 AM Aug 04	Exports: Goods and services	Jun	MoM % chg.	0.703	1.23	0.071	0.037	
	8:30 AM Aug 04	Imports: Goods and services	Jun	MoM % chg.	0.837	-0.166	0.047	-0.047	
	8:30 AM Aug 04	Civilian unemployment rate	Jul	Ppt. chg.	-0.022	-0.100	-0.258	0.020	
	2	Data revisions						0.058	
ug 04									-

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

1	.		Reference		_				Nowcast
Update	Release Date	Data Series	Period	Units	Forecast	Actual	Weight	Impact	GDP Growt
					[a]	[b]	[c]	[c(b-a)]	
Jun 30									1.9
	10:00 AM Jul 03	ISM mfg.: Pmi composite index	Jun	Index	55.8	57.8	0.023	0.046	
	10:00 AM Jul 03	■ ISM mfg.: Prices index	Jun	Index	60.7	55.0	0.003	-0.016	
	10:00 AM Jul 03	■ ISM mfg.: Employment index	Jun	Index	54.4	57.2	0.009	0.024	
	10:10 AM Jul 03	Value of construction put in place	May	MoM % chq.	-0.281	-0.023	0.018	0.005	
	10:00 AM Jul 05	Inventories: Total business	May	MoM % chq.	0.182	0.265	-0.079	-0.006	
	8:05 AM Jul 06	ADP nonfarm private payroll employment	Jun	Level chg. (thousands)	232.3	158.0	0.180*	-0.013	
	8:30 AM Jul 06	Exports: Goods and services	May	MoM % chg.	0.327	0.447	0.047	0.006	
	8:30 AM Jul 06	Imports: Goods and services	May	MoM % chg.	0.003	-0.093	0.034	-0.003	
	10:00 AM Jul 06	ISM nonmanufacturing: NMI composite index	Jun	Index	58.6	57.4	0.002	-0.002	
	8:30 AM Jul 07	All employees: Total nonfarm	Jun	Level chg. (thousands)	123.9	222.0	0.132*	0.013	
	8:30 AM Jul 07	Civilian unemployment rate	Jun	Ppt. chg.	0.002	0.100	-0.125	-0.012	
		Data revisions		. [0.032	
		Parameter revisions						-0.018	
Jul 07									1.9
	10:00 AM Jul 11	JOLTS: Job openings: Total	May	Level chg. (thousands)	-23.4	-301.0	0.035*	-0.010	
	8:30 AM Jul 13	PPI: Final demand	Jun	MoM % chg.	0.110	0.089	0.020	-0.000	
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	9:30 AM Jul 14	Capacity utilization	Jun	Ppt. chg.	0.001	0.216	0.171	0.037	
		Data revisions						-0.088	
Jul 14									1.9
	8:30 AM Jul 17	Empire State Mfg. Survey: General business conditions	Jul	Index	20.2	9.80	0.000	-0.004	
	8:30 AM Jul 18	Import price index	Jun	MoM % chg.	0.154	-0.163	0.005	-0.002	
	8:30 AM Jul 18	Export price index	Jun	MoM % chg.	-0.050	-0.164	0.014	-0.002	
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		Data revisions						0.028	
Jul 20									2.0
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	8:30 AM Jul 27	Merchant wholesalers: Inventories: Total	Jun	MoM % chg.	0.263	0.566	-0.021	-0.006	
		Data revisions		Ğ				0.019	
Jul 28									2.0
	8:30 AM Jul 28	Real gross domestic product (advance)	Q2	QoQ % chg. AR	2.09	2.6			
	0.30 AIVI JUI 20	 neal gross domestic product (advance) 	QZ	QUQ 70 UNG. AR				lates of the Q	

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