News Release

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What is the National Activity Index?

The index is a weighted average of 85 indicators of growth in national economic activity drawn from four broad categories of data:
1) production and income; 2) employment, unemployment, and hours; 3) personal consumption and housing; and 4) sales, orders, and inventories.

Why are there three index values?

Each month, we provide a monthly index (the CFNAI), its three-month moving average, and a diffusion index. Month-to-month movements can be volatile, so the monthly index's three-month moving average, the CFNAI-MA3, provides a more consistent picture of national economic growth. The CFNAI Diffusion Index instead captures the degree to which a change in the monthly index is spread out among its 85 indicators, averaged over a three-month period.

What do the numbers mean?

A zero value for the monthly index has been associated with the national economy expanding at its historical trend (average) rate of growth; negative values with below-average growth (in standard deviation units); and positive values with above-average growth.

Periods of economic expansion have historically been associated with values of the CFNAI-MA3 above –0.70 and the CFNAI Diffusion Index above –0.35. Conversely, periods of economic contraction have historically been associated with values of the CFNAI-MA3 below –0.70 and the CFNAI Diffusion Index below –0.35.

An increasing likelihood of a period of sustained increasing inflation has historically been associated with values of the CFNAI-MA3 above +0.70 more than two years into an economic expansion. Similarly, a substantial likelihood of a period of sustained increasing inflation has historically been associated with values of the CFNAI-MA3 above +1.00 more than two years into an economic expansion.

The next CFNAI will be released: November 26, 2018 8:30 am Eastern Time 7:30 am Central Time

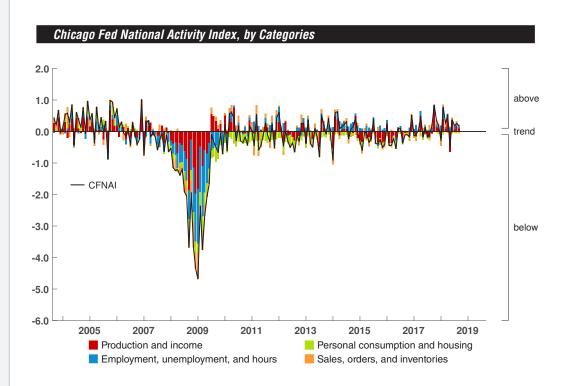
FEDERAL RESERVE BANK OF CHICAGO

Chicago Fed National Activity Index

Index points to a moderation in economic growth in September

The Chicago Fed National Activity Index (CFNAI) decreased to +0.17 in September from +0.27 in August. Two of the four broad categories of indicators that make up the index decreased from August, but three of the four categories made positive contributions to the index in September. The index's three-month moving average, CFNAI-MA3, moved down to +0.21 in September from +0.27 in August.

The CFNAI Diffusion Index, which is also a three-month moving average, was unchanged at +0.18 in September. Forty-six of the 85 individual indicators made positive contributions to the CFNAI in September, while 39 made negative contributions. Thirty-six indicators improved from August to September, while 49 indicators deteriorated. Of the indicators that improved, 11 made negative contributions.



CFNAI, CFNAI-MA3, and CFNAI Diffusion for the Latest Six Months and Year-Ago Month

	Sep '18	Aug '18	Jul '18	Jun '18	May '18	Apr '18	Sep '17
CFNAI							
Current	+0.17	+0.27	+0.18	+0.37	-0.49	+0.53	+0.18
Previous	N/A	+0.18	+0.18	+0.36	-0.49	+0.52	+0.18
CFNAI-MA3							
Current	+0.21	+0.27	+0.02	+0.14	+0.10	+0.52	-0.03
Previous	N/A	+0.24	+0.02	+0.13	+0.10	+0.52	-0.03
CFNAI Diffusion							
Current	+0.18	+0.18	+0.07	+0.18	+0.14	+0.28	-0.08
Previous	N/A	+0.20	+0.09	+0.17	+0.14	+0.30	-0.07

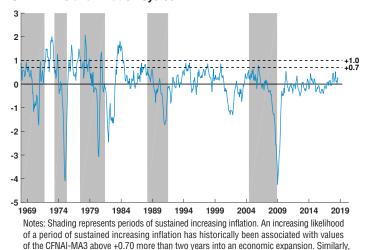
Current and Previous values reflect index values as of the October 22, 2018, release and September 24, 2018, release, respectively. N/A indicates not applicable.

The contribution from production-related indicators to the CFNAI moved down to +0.11 in September from +0.16 in August. Industrial production increased 0.3 percent in September after rising 0.4 percent in August. The sales, orders, and inventories category made a contribution of +0.05 to the CFNAI in September, down from +0.10 in August. The Institute for Supply Management's Manufacturing New Orders Index decreased to 61.8 in September from 65.1 in August.

Employment-related indicators contributed +0.07 to the CFNAI in September, up slightly from +0.06 in August. The civilian unemployment rate decreased to 3.7 percent in September from 3.9 percent in August; however, nonfarm payrolls increased by 134,000 in September after rising by 270,000 in the previous month. The contribution of the personal consumption and housing category to the CFNAI edged up to -0.05 in September from -0.06 in August. On balance, consumption indicators improved slightly from August, pushing up the category's overall contribution in September.

The CFNAI was constructed using data available as of October 18, 2018. At that time, September data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index. The August monthly index value was revised to +0.27 from an initial estimate of +0.18, and the July monthly index value was unchanged at +0.18 from last month's estimate. Revisions to the monthly index can be attributed to two main factors: revisions in previously published data and differences between the estimates of previously unavailable data and subsequently published data. The revision to the August monthly index value was primarily due to the former.

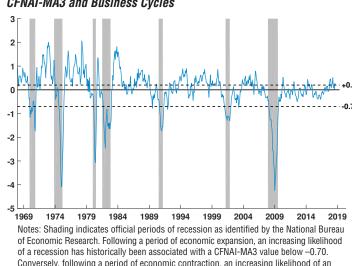
CFNAI-MA3 and Inflation Cycles



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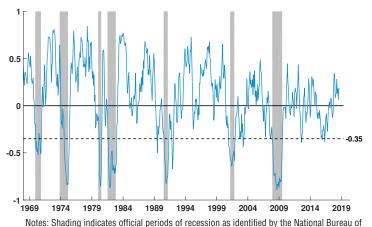
CFNAI-MA3 and Business Cycles



Conversely, following a period of economic contraction, an increasing likelihood of an expansion has historically been associated with a CFNAI-MA3 value above -0.70 and a significant likelihood of an expansion has historically been associated with a CFNAI-MA3 value above +0.20.

CFNAI Diffusion Index

economic expansion



Economic Research. The CFNAI Diffusion Index represents the three-month moving average of the sum of the absolute values of the weights for the underlying indicators whose contribution to the CFNAI is positive in a given month less the sum of the absolute values of the weights for those indicators whose contribution is negative or neutral in a given month. Periods of economic expansion have historically been associated with values of the CFNAI Diffusion Index above -0.35.

CFNAI, Monthly Index

