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: January 22, 2020 8:30 am Eastern Time 7:30 am Central Time

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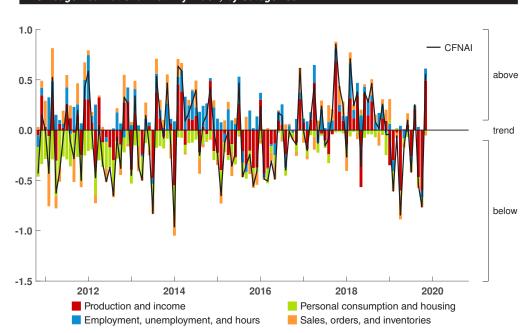
Chicago Fed National Activity Index

Index points to a rebound in economic growth in November

Led by improvements in production-related indicators, the Chicago Fed National Activity Index (CFNAI) rose to +0.56 in November from -0.76 in October. All four broad categories of indicators that make up the index increased from October, and two of the four categories made positive contributions to the index in November. The index's three-month moving average, CFNAI-MA3, moved up to -0.25 in November from -0.35 in October.

The CFNAI Diffusion Index, which is also a three-month moving average, ticked up to -0.23 in November from -0.24 in October. Fifty of the 85 individual indicators made positive contributions to the CFNAI in November, while 35 made negative contributions. Sixty-four indicators improved from October to November, while 21 indicators deteriorated. Of the indicators that improved, 19 made negative contributions.

Chicago Fed National Activity Index, by Categories



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

	Nov '19	Oct '19	Sep '19	Aug '19	Jul '19	Jun '19	Nov '18
CFNAI							
Current	+0.56	-0.76	-0.54	+0.25	-0.42	+0.10	+0.26
Previous	N/A	-0.71	-0.45	+0.23	-0.40	+0.10	+0.26
CFNAI-MA3							
Current	-0.25	-0.35	-0.24	-0.02	-0.16	-0.30	+0.12
Previous	N/A	-0.31	-0.21	-0.02	-0.15	-0.30	+0.12
CFNAI Diffusion							
Current	-0.23	-0.24	-0.25	-0.10	-0.23	-0.16	+0.11
Previous	N/A	-0.22	-0.24	-0.09	-0.21	-0.15	+0.11

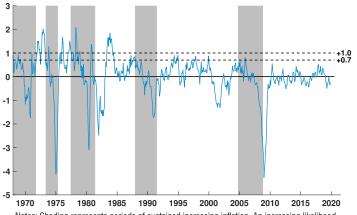
Current and Previous values reflect index values as of the December 23, 2019, release and November 25, 2019, release, respectively. N/A indicates not applicable.

Production-related indicators contributed +0.49 to the CFNAI in November, up from -0.60 in October. Industrial production rose 1.1 percent in November after decreasing 0.9 percent in October. The contribution of the sales, orders, and inventories category to the CFNAI ticked up to -0.04 in November from -0.05 in October.

Employment-related indicators contributed ± 0.12 to the CFNAI in November, up from ± 0.07 in October. Nonfarm payrolls rose by 266,000 in November after increasing by 156,000 in October, and the unemployment rate ticked down to 3.5 percent in November from 3.6 percent in the previous month. The contribution of the personal consumption and housing category to the CFNAI edged up to ± 0.02 in November from ± 0.05 in October. Housing starts increased to 1,365,000 annualized units in November from 1,323,000 in October.

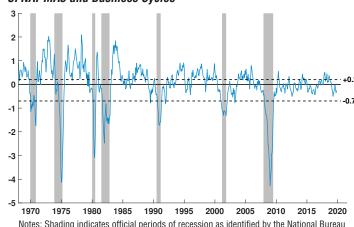
The CFNAI was constructed using data available as of December 19, 2019. At that time, November data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index. The October monthly index value was revised to -0.76 from an initial estimate of -0.71, and the September monthly index value was revised to -0.54 from last month's estimate of -0.45. 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 October monthly index value was due to both factors almost equally. The revision to the September monthly index value was primarily due to revisions in previously published data.

CFNAI-MA3 and Inflation Cycles



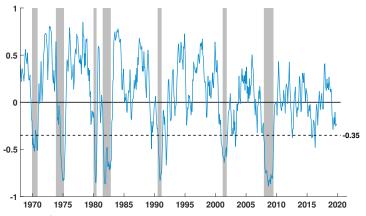
Notes: Shading represents periods of sustained increasing inflation. An increasing likelihood of a period of sustained increasing inflation has historically been associated with values of the CFNAI-MA3 above +0.70 more than two years into an economic expansion. Similarly, a substantial likelihood of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

CFNAI-MA3 and Business Cycles



Notes: Shading indicates official periods of recession as identified by the National Bureau of Economic Research. Following a period of economic expansion, an increasing likelihood of a recession has historically been associated with a CFNAI-MA3 value below -0.70. 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



Notes: Shading indicates official periods of recession as identified by the National Bureau of 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

