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: December 22, 2021 8:30 am Eastern Time 7:30 am Central Time

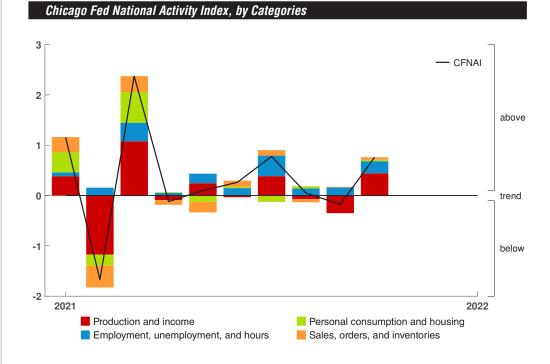
FEDERAL RESERVE BANK OF CHICAGO

Chicago Fed National Activity Index

Index points to a pickup in economic growth in October

Led by improvements in production-related indicators, the Chicago Fed National Activity Index (CFNAI) rose to +0.76 in October from -0.18 in September. All four broad categories of indicators used to construct the index made positive contributions in October, and all four categories improved from September. The index's three-month moving average, CFNAI-MA3, ticked down to +0.21 in October from +0.22 in September.

The CFNAI Diffusion Index, which is also a three-month moving average, edged up to +0.17 in October from +0.14 in September. Sixty-one of the 85 individual indicators made positive contributions to the CFNAI in October, while 24 made negative contributions. Fifty-eight indicators improved from September to October, while 26 indicators deteriorated and one was unchanged. Of the indicators that improved, ten made negative contributions.



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

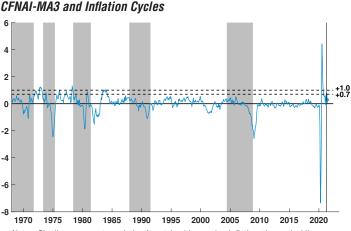
	Oct '21	Sep '21	Aug '21	Jul '21	Jun '21	May '21	Oct '20
CFNAI Current Previous	+0.76 N/A	-0.18 -0.13	+0.05 +0.05	+0.78 +0.83	+0.26 +0.26	+0.10 +0.10	+1.08 +1.08
CFNAI-MA3 Current Previous	+0.21 N/A	+0.22 +0.25	+0.36 +0.38	+0.38 +0.40	+0.08 +0.08	+0.78 +0.79	+0.89 +0.89
CFNAI Diffusion Current Previous	+0.17 N/A	+0.14 +0.22	+0.18 +0.20	+0.33 +0.32	+0.09 +0.09	+0.35 +0.35	+0.58 +0.58

Current and Previous values reflect index values as of the November 22, 2021, release and October 25, 2021, release, respectively. N/A indicates not applicable.

Production-related indicators contributed +0.44 to the CFNAI in October, up from -0.35 in September. Industrial production rose 1.6 percent in October after falling 1.3 percent in the previous month. The contribution of the sales, orders, and inventories category to the CFNAI moved up to +0.05 in October from +0.01 in September.

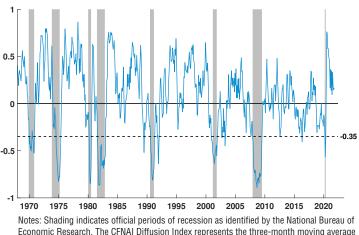
Employment-related indicators contributed +0.24 to the CFNAI in October, up from +0.16 in September. Nonfarm payrolls rose by 531,000 in October after increasing by 312,000 in the previous month. The contribution of the personal consumption and housing category to the CFNAI ticked up to +0.03 in October from +0.01 in September.

The CFNAI was constructed using data available as of November 18, 2021. At that time, October data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index. The September monthly index value was revised to -0.18 from an initial estimate of -0.13, and the August monthly index value was unrevised at +0.05. 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 September monthly index value was primarily due to the latter.



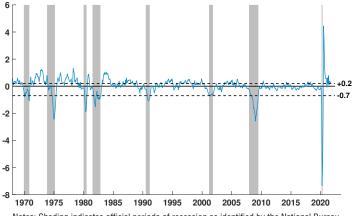
Notes: Shading represents periods of sustained increasing inflation; the vertical line indicates the start of the most recent period. For details on the timing of these periods based on readings of core inflation (which excludes food and energy prices), see pp. 4–5 of the background information document. 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 Diffusion Index



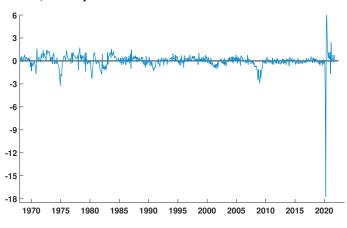
Notes: Shading indicates official periods of recession as identified by the National Bureau of Economic Research. The CFNAI Diffusion Index represents the three-month moving average of the sum of the absolute values of the weights for the underlying indicators whose contribution to the CFNAI is positive 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.





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 –0.70 and a significant likelihood of an expansion has historically been associated with a CFNAI-MA3 value above –0.70.





CFNAI release dates, historical data, and background information are available at chicagofed.org/cfnai.