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

OF CHICAGO

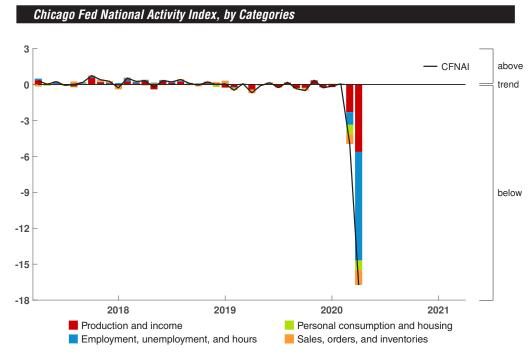
7:30 am Central Time FEDERAL RESERVE BANK

Chicago Fed National Activity Index

Index suggests economic growth fell substantially in April

Led by declines in production- and employment-related indicators, the Chicago Fed National Activity Index (CFNAI) fell to –16.74 in April from –4.97 in March. All four broad categories of indicators used to construct the index made negative contributions in April, and all four categories decreased from March. The index's three-month moving average, CFNAI-MA3, decreased to –7.22 in April from –1.69 in March. Following a period of economic expansion, an increasing likelihood of a recession has historically been associated with a CFNAI-MA3 value below –0.70.

The CFNAI Diffusion Index, which is also a three-month moving average, moved down to -0.55 in April from -0.32 in March. Six of the 85 individual indicators made positive contributions to the CFNAI in April, while 79 made negative contributions. Sixteen indicators improved from March to April, while 69 indicators deteriorated. Of the indicators that improved, 12 made negative contributions.



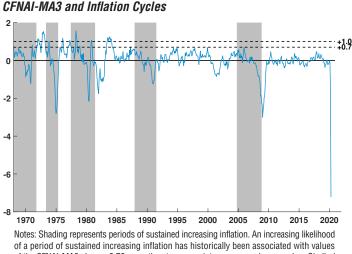
CFNAI, CFNAI-MA3, and CFNAI Diffusion for the Latest Six Months and Year-Ago Month

	Apr '20	Mar '20	Feb '20	Jan '20	Dec '19	Nov '19	Apr '19
CFNAI Current Previous	–16.74 N/A	-4.97 -4.19	+0.05 +0.06	-0.14 -0.27	-0.28 -0.39	+0.36 +0.47	-0.69 -0.85
CFNAI-MA3 Current Previous	–7.22 N/A	-1.69 -1.47	-0.12 -0.20	-0.02 -0.06	-0.14 -0.19	-0.17 -0.22	-0.37 -0.51
CFNAI Diffusion Current Previous	–0.55 N/A	-0.32 -0.32	-0.09 -0.21	+0.02 -0.07	-0.04 -0.17	-0.05 -0.17	-0.25 -0.28

Current and Previous values reflect index values as of the May 26, 2020, release and April 20, 2020, release, respectively. N/A indicates not applicable.

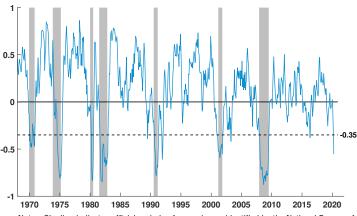
Production-related indicators contributed -5.63 to the CFNAI in April, down from -2.31 in March. Industrial production declined 11.2 percent in April after decreasing 4.5 percent in March. The contribution of the sales, orders, and inventories category to the CFNAI decreased to -1.24 in April from -0.81 in March.

Employment-related indicators contributed –9.06 to the CFNAI in April, down from –1.06 in March. Nonfarm payrolls fell by 20,537,000 in April after decreasing by 881,000 in March, and the unemployment rate increased to 14.7 percent in April from 4.4 percent in the previous month. The contribution of the personal consumption and housing category to the CFNAI ticked down to –0.81 in April from –0.80 in March.



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.

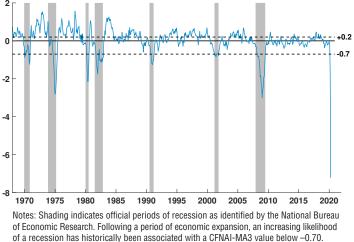
CFNAI Diffusion Index



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.

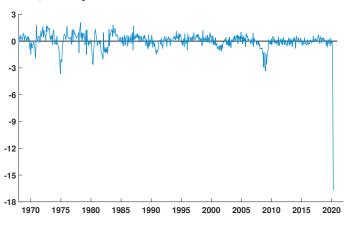
The CFNAI was constructed using data available as of May 21, 2020. At that time, April data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index. The March monthly index value was revised to -4.97 from an initial estimate of -4.19, and the February monthly index value was revised to +0.05 from last month's estimate of +0.06. Revisions to the monthly index can be attributed to two main factors: revisions in previously published data and subsequently published data. The revision to the March monthly index value was primarily due to the latter, while the revision to the February monthly index value was primarily due to the former. In addition, this month we made further changes to the way we impute missing values and adjust for outliers; for more details, see p. 7 of the background information document at chicagofed.org/cfnai.

CFNAI-MA3 and Business Cycles



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