News Release

Embargoed for release: 8:30 am Eastern Time 7:30 am Central Time June 21, 2021

Contact: Michael Adleman Media Relations Federal Reserve Bank of Chicago 312-322-2934

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

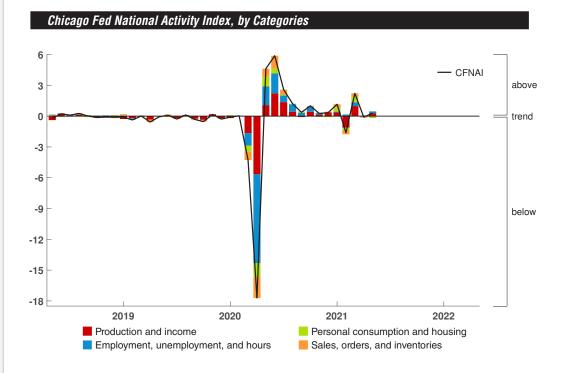
FEDERAL RESERVE BANK OF CHICAGO

Chicago Fed National Activity Index

Index points to a pickup in economic growth in May

Led by improvements in production-related indicators, the Chicago Fed National Activity Index (CFNAI) increased to +0.29 in May from –0.09 in April. Three of the four broad categories of indicators used to construct the index made positive contributions in May, and three categories improved from April. The index's three-month moving average, CFNAI-MA3, rose to +0.81 in May from +0.17 in April.

The CFNAI Diffusion Index, which is also a three-month moving average, moved up to +0.39 in May from +0.16 in April. Fifty-five of the 85 individual indicators made positive contributions to the CFNAI in May, while 30 made negative contributions. Fifty-seven indicators improved from April to May, while 27 indicators deteriorated and one was unchanged. Of the indicators that improved, 15 made negative contributions.



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

					•		
	May '21	Apr '21	Mar '21	Feb '21	Jan '21	Dec '20	May '20
CFNAI	•	•					
Current	+0.29	-0.09	+2.22	-1.61	+1.16	+0.34	+4.62
Previous	N/A	+0.24	+1.71	-1.75	+1.09	+0.34	+4.37
CFNAI-MA3							
Current	+0.81	+0.17	+0.59	-0.03	+0.59	+0.54	-5.79
Previous	N/A	+0.07	+0.35	-0.11	+0.59	+0.57	-5.93
CFNAI Diffusion							
Current	+0.39	+0.16	+0.37	+0.18	+0.38	+0.47	-0.40
Previous	N/A	+0.22	+0.32	+0.17	+0.37	+0.47	-0.42

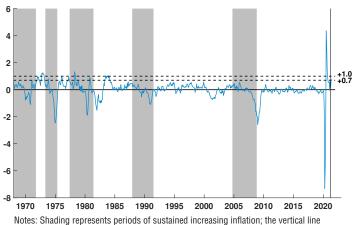
Current and Previous values reflect index values as of the June 21, 2021, release and May 24, 2021, release, respectively. N/A indicates not applicable.

Production-related indicators contributed +0.29 to the CFNAI in May, up from -0.05 in April. Industrial production rose 0.8 percent in May after moving up 0.1 percent in April. The contribution of the sales, orders, and inventories category to the CFNAI increased to +0.02 in May from -0.06 in April.

The personal consumption and housing category contributed -0.18 to the CFNAI in May, down from -0.04 in April. The personal consumption indicators in this category broadly deteriorated, while the housing indicators generally improved from April. The contribution of the employment, unemployment, and hours category to the CFNAI increased to +0.16 in May from +0.06 in April. Nonfarm payrolls rose by 559,000 in May after increasing by 278,000 in April, and the unemployment rate decreased by 0.3 percentage points in May.

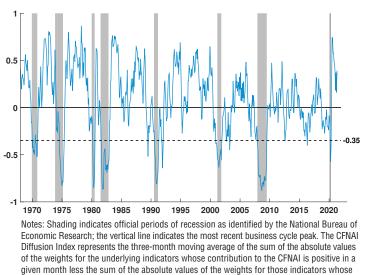
The CFNAI was constructed using data available as of June 17, 2021. At that time, May data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index.

CFNAI-MA3 and Inflation Cycles



indicates that 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.

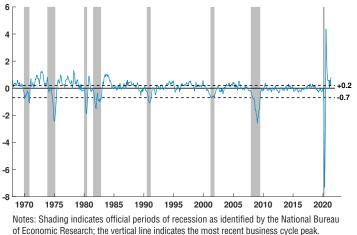
CFNAI Diffusion Index



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 April monthly index value was revised to -0.09 from an initial estimate of +0.24, and the March monthly index value was revised to +2.22 from last month's estimate of +1.71. 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 April monthly index value was primarily due to the former, while the revision to the March monthly index value was primarily due to the latter.

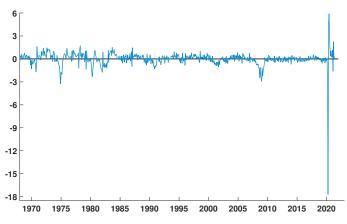
In addition, this month we updated the CFNAI-MA3 and Inflation Cycles figure below to reflect recent readings of core inflation (which excludes food and energy prices). For further details, see pp. 4–5 of the background information document. More than two years into an economic expansion, an increasing likelihood of a period of sustained increasing inflation has historically been associated with values of the CFNAI-MA3 above +0.70.





of Economic Research; the vertical line indicates the most recent business cycle peak. 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 release dates, historical data, and background information are available at chicagofed.org/cfnai.