

News Release

Embargoed for release:
8:30 am Eastern Time
7:30 am Central Time
July 22, 2019

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:
August 26, 2019
8:30 am Eastern Time
7:30 am Central Time

FEDERAL RESERVE BANK
OF CHICAGO

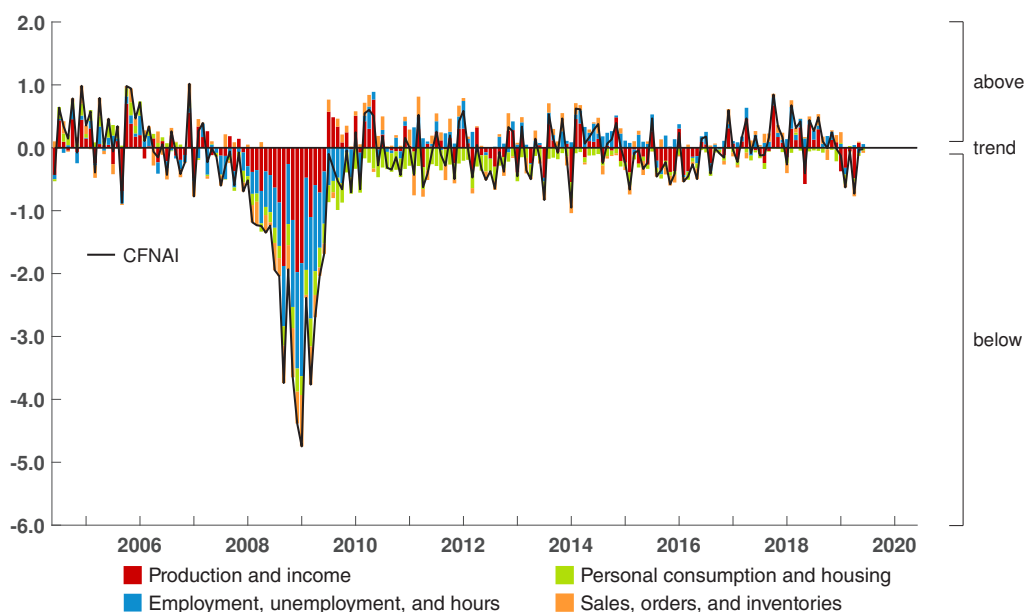
Chicago Fed National Activity Index

Index points to economic growth near historical trend in June

The Chicago Fed National Activity Index (CFNAI) ticked up to -0.02 in June from -0.03 in May. One of the four broad categories of indicators that make up the index increased from May, and two of the four categories made negative contributions to the index in June. The index's three-month moving average, CFNAI-MA3, ticked up to -0.26 in June from -0.27 in May.

The CFNAI Diffusion Index, which is also a three-month moving average, was unchanged at -0.11 in June. Forty of the 85 individual indicators made positive contributions to the CFNAI in June, while 45 made negative contributions. Thirty-six indicators improved from May to June, while 49 indicators deteriorated. Of the indicators that improved, nine 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

| | Jun '19 | May '19 | Apr '19 | Mar '19 | Feb '19 | Jan '19 | Jun '18 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| CFNAI | | | | | | | |
| Current | -0.02 | -0.03 | -0.73 | -0.05 | -0.63 | -0.13 | +0.44 |
| Previous | N/A | -0.05 | -0.48 | +0.02 | -0.64 | -0.18 | +0.44 |
| CFNAI-MA3 | | | | | | | |
| Current | -0.26 | -0.27 | -0.47 | -0.27 | -0.26 | +0.04 | +0.15 |
| Previous | N/A | -0.17 | -0.37 | -0.27 | -0.28 | +0.02 | +0.15 |
| CFNAI Diffusion | | | | | | | |
| Current | -0.11 | -0.11 | -0.29 | -0.20 | -0.14 | +0.10 | +0.23 |
| Previous | N/A | -0.12 | -0.26 | -0.21 | -0.15 | +0.10 | +0.22 |

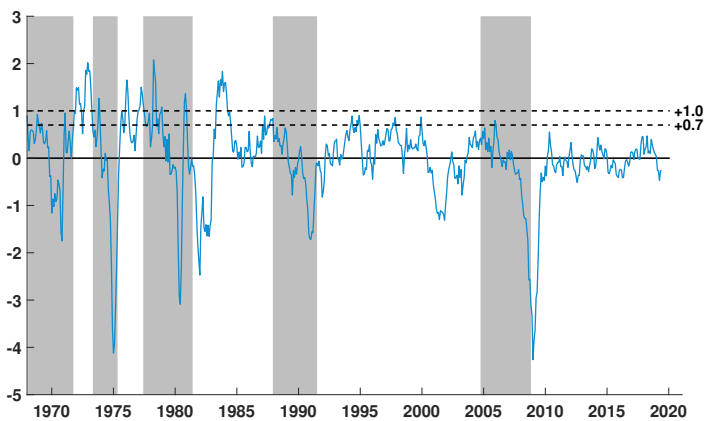
Current and Previous values reflect index values as of the July 22, 2019, release and June 24, 2019, release, respectively. N/A indicates not applicable.

Production-related indicators made a neutral contribution to the CFNAI in June, down from +0.08 in May. Industrial production was unchanged in June after increasing 0.4 percent in the previous month. The contribution of the sales, orders, and inventories category to the CFNAI decreased to -0.03 in June from +0.02 in May.

Employment-related indicators contributed +0.06 to the CFNAI in June, up from -0.08 in May. Total nonfarm payrolls rose by 224,000 in June after increasing by 72,000 in the previous month. The contribution of the personal consumption and housing category to the CFNAI was unchanged at -0.05 in June.

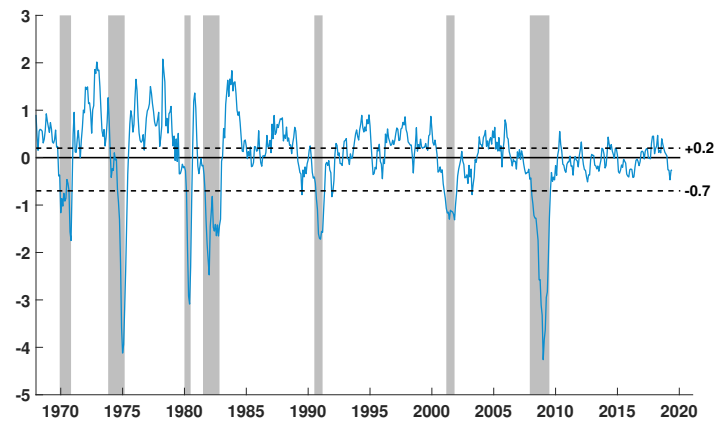
The CFNAI was constructed using data available as of July 18, 2019. At that time, June data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index. The May monthly index value was revised to -0.03 from an initial estimate of -0.05, and the April monthly index value was revised to -0.73 from last month's estimate of -0.48. 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 revisions to both the May and April monthly index values were primarily due to the latter.

CFNAI-MA3 and Inflation Cycles



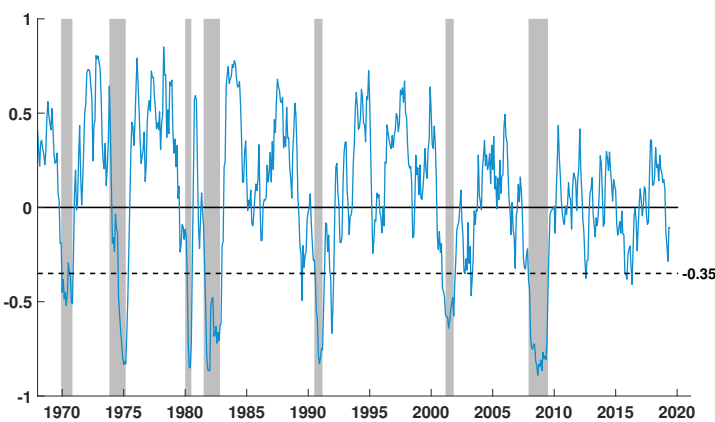
Notes: Shading represents periods of sustained increasing inflation. An increasing likelihood of a period of sustained increasing inflation has historically been associated with values of the CFNAI-MA3 above +0.70 more than two years into an economic expansion. Similarly, a substantial likelihood of 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 +0.20.

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

