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: August 24, 2023 7:30 am Central Time

8:30 am Eastern Time

FEDERAL RESERVE BANK **OF CHICAGO**

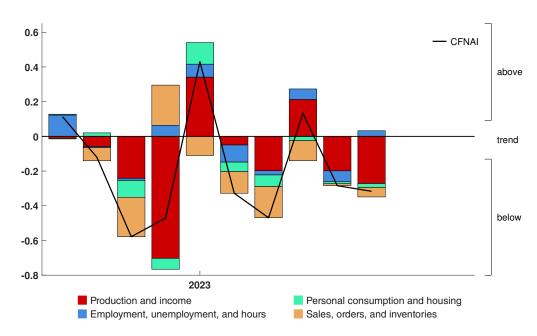
Chicago Fed National Activity Index

Index points to little change in economic growth in June

The Chicago Fed National Activity Index (CFNAI) edged down to -0.32 in June from -0.28 in May. Three of the four broad categories of indicators used to construct the index decreased from May, and three of the four categories made negative contributions in June. The index's three-month moving average, CFNAI-MA3, increased to -0.16 in June from -0.21 in May.

The CFNAI Diffusion Index, which is also a three-month moving average, moved up to -0.12 in June from -0.17 in May. Thirty-one of the 85 individual indicators made positive contributions to the CFNAI in June, while 54 made negative contributions. Thirty-three indicators improved from May to June, while 51 indicators deteriorated and one was unchanged. Of the indicators that improved, 13 made negative contributions.





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

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	Jun '23	May '23	Apr '23	Mar '23	Feb '23	Jan '23	Jun '22
CFNAI		-	-				
Current	-0.32	-0.28	+0.13	-0.47	-0.33	+0.43	-0.24
Previous	N/A	-0.15	+0.14	-0.41	-0.33	+0.39	-0.23
CFNAI-MA3							
Current	-0.16	-0.21	-0.22	-0.12	-0.12	-0.21	-0.14
Previous	N/A	-0.14	-0.20	-0.12	-0.14	-0.22	-0.14
CFNAI Diffusion							
Current Previous	–0.12 N/A	-0.17 -0.09	-0.21 -0.14	-0.10 -0.11	0.00 0.00	-0.05 -0.06	-0.19 -0.19
			••••				

Current and Previous values reflect index values as of the July 24, 2023, release and June 22, 2023, release, respectively. N/A indicates not applicable.

Production-related indicators contributed -0.27 to the CFNAI in June, down from -0.20 in May. Manufacturing production decreased 0.3 percent in June after moving down 0.2 percent in the previous month. The contribution of the sales, orders, and inventories category to the CFNAI edged down to -0.05 in June from -0.01 in May.

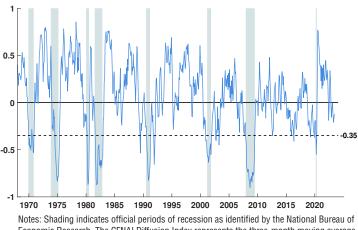
Employment-related indicators contributed +0.03 to the CFNAI in June, up from -0.06 in May. The unemployment rate decreased to 3.6 percent in June from 3.7 percent in the previous month. The contribution of the personal consumption and housing category to the CFNAI decreased to -0.02 in June from -0.01 in May.

The CFNAI was constructed using data available as of July 20, 2023. 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 -0.28 from an initial estimate of -0.15, and the April monthly index value was revised to +0.13 from last month's estimate of +0.14. 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 May monthly index value was primarily due to the former, while the revision to the April monthly index value was primarily due to the latter.

CFNAI-MA3 and Inflation Cycles 2 0 -2 -6 -8 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015

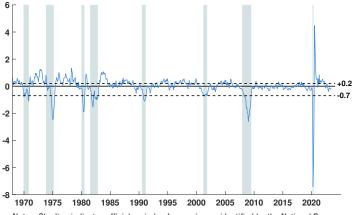
Notes: Shading represents periods of sustained increasing inflation; the vertical line indicates the start of the most recent period. For details on the timing of these periods based on readings of core inflation (which excludes food and energy prices), see pp. 4–5 of the background information document.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



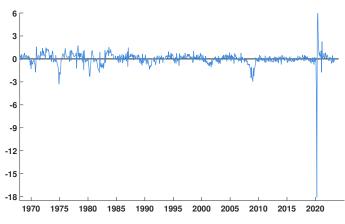
Notes: Shading indicates official periods of recession as identified by the National Bureau of Economic Research. The CFNAI Diffusion Index represents the three-month moving average of the sum of the absolute values of the weights for the underlying indicators whose contribution to the CFNAI is positive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

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 –0.70 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 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 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 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.