Chicago Fed National Activity Index

Index suggests economic growth moderated in June

The Chicago Fed National Activity Index (CFNAI) decreased to +0.09 in June from +0.26 in May. Three of the four broad categories of indicators used to construct the index made positive contributions in June, but two categories deteriorated from May. The index’s three-month moving average, CFNAI-MA3, declined to +0.06 in June from +0.80 in May.

The CFNAI Diffusion Index, which is also a three-month moving average, decreased to +0.13 in June from +0.40 in May. Forty-five of the 85 individual indicators made positive contributions to the CFNAI in June, while 40 made negative contributions. Forty-five indicators improved from May to June, while 40 indicators deteriorated. Of the indicators that improved, 13 made negative contributions.

On July 19, 2021, the National Bureau of Economic Research (NBER) determined that April 2020 marked the end of the recent recession. For details on the success of the CFNAI in tracking the dating of recessions established by the NBER, see the background information document.

The next CFNAI will be released:
August 23, 2021
8:30 am Eastern Time
7:30 am Central Time

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Production-related indicators contributed +0.01 to the CFNAI in June, down from +0.26 in May. Industrial production moved up 0.4 percent in June after increasing 0.7 percent in May, and manufacturing production decreased 0.1 percent in June after rising 0.9 percent in the previous month. The contribution of the sales, orders, and inventories category to the CFNAI increased to +0.06 in June from –0.04 in May.

The contribution of the employment, unemployment, and hours category to the CFNAI moved down to +0.09 in June from +0.15 in May. Nonfarm payrolls rose by 850,000 in June after increasing by 583,000 in May, but the unemployment rate ticked up to 5.9 percent in June. The personal consumption and housing category contributed –0.08 to the CFNAI in June, up slightly from –0.11 in May. Housing starts increased to 1,643,000 annualized units in June from 1,546,000 in May, but housing permits decreased to 1,598,000 annualized units in June from 1,683,000 in the previous month.

The CFNAI was constructed using data available as of July 20, 2021. At that time, June data for 50 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 +0.26 from an initial estimate of +0.29, and the April monthly index value was revised to –0.16 from last month’s estimate of –0.09. 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.

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.

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 +0.20.

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.