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:
October 23, 2023
8:30 am Eastern Time
7:30 am Central Time

The Chicago Fed National Activity Index (CFNAI) decreased to –0.16 in August from +0.07 in July. Two of the four broad categories of indicators used to construct the index decreased from July, and all four categories made negative contributions in August. The index’s three-month moving average, CFNAI-MA3, ticked up to –0.14 in August from –0.15 in July.

The CFNAI Diffusion Index, which is also a three-month moving average, edged down to –0.04 in August from –0.01 in July. Thirty-five of the 85 individual indicators made positive contributions to the CFNAI in August, while 50 made negative contributions. Thirty-three indicators improved from July to August, while 49 indicators deteriorated and three were unchanged. Of the indicators that improved, 16 made negative contributions.

The Chicago Fed National Activity Index, by Categories

<table>
<thead>
<tr>
<th>Category</th>
<th>Aug '23</th>
<th>Jul '23</th>
<th>Jun '23</th>
<th>May '23</th>
<th>Apr '23</th>
<th>Mar '23</th>
<th>Aug '22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production and income</td>
<td>–0.16</td>
<td>+0.07</td>
<td>–0.33</td>
<td>–0.18</td>
<td>+0.08</td>
<td>–0.48</td>
<td>+0.20</td>
</tr>
<tr>
<td>Employment, unemployment, and hours</td>
<td>N/A</td>
<td>+0.12</td>
<td>–0.33</td>
<td>–0.18</td>
<td>+0.07</td>
<td>–0.49</td>
<td>+0.20</td>
</tr>
<tr>
<td>Personal consumption and housing</td>
<td>N/A</td>
<td>–0.13</td>
<td>–0.15</td>
<td>–0.20</td>
<td>–0.24</td>
<td>–0.13</td>
<td>+0.07</td>
</tr>
<tr>
<td>Sales, orders, and inventories</td>
<td>N/A</td>
<td>–0.05</td>
<td>–0.08</td>
<td>–0.13</td>
<td>–0.23</td>
<td>–0.10</td>
<td>+0.14</td>
</tr>
</tbody>
</table>

Current and Previous values reflect index values as of the September 25, 2023, release and August 24, 2023, release, respectively. N/A indicates not applicable.
Production-related indicators contributed −0.02 to the CFNAI in August, down from +0.12 in July. Industrial production moved up 0.4 percent in August after increasing 0.7 percent in the previous month. The contribution of the sales, orders, and inventories category to the CFNAI ticked up to −0.03 in August from −0.04 in July.

The contribution of employment-related indicators to the CFNAI was unchanged at −0.04 in August. The contribution of the personal consumption and housing category to the CFNAI moved down to −0.08 in August from +0.03 in July.

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

The CFNAI was constructed using data available as of September 21, 2023. At that time, August data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index. The July monthly index value was revised to +0.07 from an initial estimate of +0.12, and the June monthly index value was unrevised at −0.33. 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 July monthly index value was primarily due to the former.