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:
January 25, 2021
8:30 am Eastern Time
7:30 am Central Time

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Chicago Fed National Activity Index

Index suggests slower, but still slightly above-average growth in November

Led by slower growth in employment- and production-related indicators, the Chicago Fed National Activity Index (CFNAI) declined to +0.27 in November from +1.01 in October. Three of the four broad categories of indicators used to construct the index made positive contributions in November, but all four categories decreased from October. The index’s three-month moving average, CFNAI-MA3, decreased to +0.56 in November from +0.85 in October.

The CFNAI Diffusion Index, which is also a three-month moving average, moved down to +0.53 in November from +0.62 in October. Forty-nine of the 85 individual indicators made positive contributions to the CFNAI in November, while 36 made negative contributions. Twenty indicators improved from October to November, 64 indicators deteriorated, and one was unchanged. Of the indicators that improved, five made negative contributions.

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

<table>
<thead>
<tr>
<th></th>
<th>Nov ’20</th>
<th>Oct ’20</th>
<th>Sep ’20</th>
<th>Aug ’20</th>
<th>Jul ’20</th>
<th>Jun ’20</th>
<th>Nov ’19</th>
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<tbody>
<tr>
<td><strong>CFNAI</strong></td>
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<tr>
<td>Current</td>
<td>+0.27</td>
<td>+1.01</td>
<td>+0.40</td>
<td>+1.14</td>
<td>+2.65</td>
<td>+5.96</td>
<td>+0.29</td>
</tr>
<tr>
<td>Previous</td>
<td>N/A</td>
<td>+0.83</td>
<td>+0.32</td>
<td>+1.10</td>
<td>+2.68</td>
<td>+5.87</td>
<td>+0.29</td>
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<tr>
<td><strong>CFNAI-MA3</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Current</td>
<td>+0.56</td>
<td>+0.85</td>
<td>+1.40</td>
<td>+3.25</td>
<td>+4.30</td>
<td>−2.49</td>
<td>−0.15</td>
</tr>
<tr>
<td>Previous</td>
<td>N/A</td>
<td>+0.75</td>
<td>+1.37</td>
<td>+3.22</td>
<td>+4.28</td>
<td>−2.52</td>
<td>−0.15</td>
</tr>
<tr>
<td><strong>CFNAI Diffusion</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Current</td>
<td>+0.53</td>
<td>+0.62</td>
<td>+0.59</td>
<td>+0.75</td>
<td>+0.75</td>
<td>+0.16</td>
<td>−0.14</td>
</tr>
<tr>
<td>Previous</td>
<td>N/A</td>
<td>+0.51</td>
<td>+0.55</td>
<td>+0.72</td>
<td>+0.75</td>
<td>+0.16</td>
<td>−0.14</td>
</tr>
</tbody>
</table>

Current and Previous values reflect index values as of the December 21, 2020, release and November 23, 2020, release, respectively. N/A indicates not applicable.
CFNAI release dates, historical data, and background information are available at chicagofed.org/cfnai.

Production-related indicators contributed +0.14 to the CFNAI in November, down from +0.36 in October. Manufacturing industrial production increased 0.8 percent in November after rising 1.1 percent in October. The contribution of the sales, orders, and inventories category to the CFNAI decreased to +0.07 in November from +0.17 in October.

Employment-related indicators contributed +0.15 to the CFNAI in November, down from +0.45 in October. Nonfarm payrolls increased by 245,000 in November after rising by 610,000 in October. The contribution of the personal consumption and housing category to the CFNAI moved down to −0.09 in November from +0.02 in October.

The CFNAI was constructed using data available as of December 18, 2020. At that time, November data for 51 of the 85 indicators had been published. For all missing data, estimates were used in constructing the index. The October monthly index value was revised to +1.01 from an initial estimate of +0.83, and the September monthly index value was revised to +0.40 from last month’s estimate of +0.32.

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 October monthly index value was primarily due to the latter, while the revision to the September monthly index value was primarily due to the former.