

CORRECTION: 4:55 P.M. ET, Friday, January 21, 2022

The Conference Board®
 U.S. Business Cycle IndicatorsSM
THE CONFERENCE BOARD LEADING ECONOMIC INDEX®
(LEI) FOR THE UNITED STATES
AND RELATED COMPOSITE ECONOMIC INDEXES FOR DECEMBER 2021

The Conference Board Leading Economic Index® (LEI) for the U.S. increased 0.8 percent, **The Conference Board Coincident Economic Index® (CEI)** increased 0.2 percent, and **The Conference Board Lagging Economic Index® (LAG)** increased **0.2^C** percent in December.

CORRECTION: Due to a programming error, the Lagging Economic Index (LAG) component Change in Labor Cost/Unit Output in Manufacturing was omitted in the release issued on Jan. 21, 2022 @ 10AM ET. The error has been corrected and the entire history has now been updated.

In addition, the release did not include the previously announced revision to the components for the Leading Credit Index™ (LCI). These changes will be incorporated in the February 2022 release.

The LEI and CEI readings were not impacted.

BENCHMARK NOTICE: The January 2022 release incorporates annual benchmark revisions to the composite economic indexes, which bring them up-to-date with revisions in the source data. These revisions do not change the cyclical properties of the indexes. The indexes are updated throughout the year, but only for the previous six months. Data revisions that fall outside of the moving six-month window are not incorporated until the benchmark revision is made and the entire histories of the indexes are recomputed. As a result, the revised indexes, in levels and month-on-month changes, will not be directly comparable to those issued prior to the benchmark revision.

For more information, please visit <http://www.conference-board.org/data/bci.cfm> or contact us at indicators@conference-board.org

- The Conference Board LEI for the U.S. increased again in December. Eight of the index's ten components contributed positively; the only negative contributor was consumers' outlook for business conditions, while average weekly manufacturing hours was unchanged. In the second half of 2021, the leading economic index increased 4.0 percent (about an 8.1 percent annual rate), down somewhat from the growth of 4.4 percent (about a 9.0 percent annual rate) over the first half of 2021. However, the strengths among the leading indicators continued to be widespread.
- The Conference Board CEI for the U.S., a measure of current economic activity, also increased in December. The coincident economic index rose 1.3 percent (about a 2.7 percent annual rate) between June and December 2021, slower than the growth of 1.8 percent (about a 3.7 percent annual rate) over the previous six months. Nevertheless, the strengths among the coincident indicators have remained very widespread, with all components advancing over the past six months. **The lagging economic index continued to increase at the same pace as the CEI. As a result, the coincident-to-lagging was unchanged.**^C
- The Conference Board LEI for the U.S. continued its upward trajectory since the end of pandemic-induced recession, but its growth rate moderated compared to first half of 2021. Meanwhile, The Conference Board CEI for the U.S. has also been rising slowly through December of 2021. Taken together, the current behavior of the composite indexes and their components suggest that the expansion in economic activity will continue in the near term.

LEADING INDICATORS. Eight of the ten indicators that comprise The Conference Board LEI for the U.S. increased in December. The positive contributors – beginning with the largest positive contributor – were building permits, average weekly initial claims for unemployment insurance (inverted), the interest

The next release is scheduled for February 18, 2022, Friday at 10 A.M. ET

rate spread, the ISM[®] New Orders Index, the Leading Credit Index[™] (inverted), manufacturers' new orders for nondefense capital goods excluding aircraft*, manufacturers' new orders for consumer goods and materials*, and stock prices. The negative contributor was average consumer expectations for business conditions, while average weekly manufacturing hours held steady in December.

The LEI for the U.S. increased 0.8 percent in December and now stands at 120.8 (2016=100). Based on revised data, this index increased 0.7 percent in both November and in October. Over the six-month span through December, the leading economic index increased 4.0 percent, with seven out of ten components advancing (diffusion index, six-month span equals 75 percent).

COINCIDENT INDICATORS. Three of the four indicators that comprise The Conference Board CEI for the U.S. increased in December. The positive contributors to the index – beginning with the largest positive contributor – were personal income less transfer payments*, employees on nonagricultural payrolls and manufacturing and trade sales*. The negative contributor was industrial production.

The CEI increased 0.2 percent in December and now stands at 107.4 (2016=100). Based on revised data, this index increased 0.1 percent in November and increased 0.5 percent in October. During the six-month period through December, the coincident economic index increased 1.3 percent, with all four components advancing (diffusion index, six-month span equals 100 percent).

LAGGING INDICATORS. The Conference Board Lagging Economic Index for the U.S. increased **0.2^C** percent in December and now stands at 109.4 (2016=100), with three of its seven components advancing. The positive contributors to the index – beginning with the largest positive contributor – were commercial and industrial loans outstanding*, the average duration of unemployment (inverted) and the ratio of manufacturing and trade inventories to sales*. The negative contributors – beginning with the largest negative contributor – were the change in CPI for services, the change in the index of labor cost per unit of output, manufacturing* and the ratio of consumer installment credit outstanding to personal income*. The average prime rate charged by banks held steady in December. Based on revised data, the lagging economic index increased 0.1 percent in November and increased **0.3^C** percent in October.

DATA AVAILABILITY AND NOTES.

The data series used to compute **The Conference Board Leading Economic Index[®]** (LEI) for the U.S., **The Conference Board Coincident Economic Index[®]** (CEI) for the U.S. and **The Conference Board Lagging Economic Index[®]** (LAG) for the U.S. and reported in the tables in this release are those available “as of” 10:00 am ET on January 20, 2022. Some series are estimated as noted below.

* Series in The Conference Board LEI for the U.S. based on our estimates are manufacturers' new orders for consumer goods and materials and manufacturers' new orders for nondefense capital goods excluding aircraft. Series in The Conference Board CEI for the U.S. that are based on our estimates are personal income less transfer payments and manufacturing and trade sales. Series in The Conference Board LAG for the U.S. that are based on our estimates are manufacturing and trade inventories to sales ratio, the change in labor cost per unit of output, manufacturing, consumer installment credit to income ratio, and the personal consumption expenditure deflator used to deflate commercial and industrial loans outstanding.

The procedure used to estimate the current month's personal consumption expenditure deflator (used in the calculation of commercial and industrial loans outstanding) incorporates the current month's consumer price index when it is available before the release of The Conference Board LEI for the U.S.

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Indicators Program:

Email: indicators@conference-board.org

Website: <http://www.conference-board.org/data/bci.cfm>

THE CYCLICAL INDICATOR APPROACH. The composite economic indexes are the key elements in an analytic system designed to signal peaks and troughs in the business cycle. The leading, coincident, and lagging economic indexes are essentially composite averages of several individual leading, coincident, or lagging indicators. (See page 3 for details.) They are constructed to summarize and reveal common turning point patterns in economic data in a clearer and more convincing manner than any individual component—primarily because they smooth out some of the volatility of individual components.

Historically, the cyclical turning points in The Conference Board LEI for the U.S. have occurred before those in aggregate economic activity, while the cyclical turning points in The Conference Board CEI for the U.S. have occurred at about the same time as those in aggregate economic activity. The cyclical turning points in The Conference Board LAG for the U.S. generally have occurred after those in aggregate economic activity.

U.S. Composite Economic Indexes: Components and Standardization Factors

<u>Leading Economic Index</u>	<u>Factor</u>
1 Average weekly hours, manufacturing	0.2418
2 Average weekly initial claims for unemployment insurance	0.0141
3 Manufacturers' new orders, consumer goods and materials	0.0779
4 ISM® new orders index	0.1703
5 Manufacturers' new orders, nondefense capital goods excl. aircraft	0.0459
6 Building permits, new private housing units	0.0307
7 Stock prices, 500 common stocks	0.0419
8 <i>Leading Credit Index</i> TM	0.0943
9 Interest rate spread, 10-year Treasury bonds less federal funds	0.1247
10 Avg. consumer expectations for business conditions	0.1584
<u>Coincident Economic Index</u>	
1 Employees on nonagricultural payrolls	0.3200
2 Personal income less transfer payments	0.3160
3 Industrial production	0.1931
4 Manufacturing and trade sales	0.1709
<u>Lagging Economic Index</u>	
1 Inventories to sales ratio, manufacturing and trade	0.1168^C
2 Average duration of unemployment	0.0270
3 Consumer installment credit outstanding to personal income ratio	0.1595^C
4 Commercial and industrial loans	0.0861^C
5 Average prime rate	0.3317^C
6 Labor cost per unit of output, manufacturing	0.0498^C
7 Consumer price index for services	0.2291^C
	C CORRECTED

Notes:

The component factors are inversely related to the standard deviation of the month-to-month changes in each component. They are used to equalize the volatility of the contribution from each component and are “normalized” to sum to 1. When one or more components are missing, the other factors are adjusted proportionately to ensure that the total continues to sum to 1.

These factors were revised effective with the release in January 2022, and all historical values for the three composite economic indexes were revised at this time to reflect the changes. (Under normal circumstances, updates to the leading, coincident, and lagging economic indexes only incorporate revisions to data over the past six months.) The factors for The Conference Board LEI for the U.S. were calculated using May 1990-December 2020 as the sample period for measuring volatility. A separate set of factors for the February 1959 - December 1977, January 1978 - December 1983 and January 1984 – April 1990 periods are available upon request. The primary sample period for the coincident and lagging economic indexes was February 1959 – December 2020. For additional information on the standardization factors and the index methodology see: “Benchmark Revisions in the Composite Indexes,” *Business Cycle Indicators* December 1997 and “Technical Appendix: Calculating the Composite Indexes” *Business Cycle Indicators* December 1996, or the Website: <http://www.conference-board.org/data/bci.cfm>

The trend adjustment factor for The Conference Board LEI for the U.S. is -0.0723 (over the 1984 – present) and 0.1159 (over the 1959-1983 period), and the trend adjustment factor for The Conference Board LAG for the U.S. is 0.1631.

To address the problem of lags in available data, those leading, coincident and lagging indicators that are not available at the time of publication are estimated using statistical imputation. An autoregressive model is used to estimate each unavailable component. The resulting indexes are therefore constructed using real and estimated data and will be revised as the unavailable data during the time of publication become available. Such revisions are part of the monthly data revisions, now a regular part of the U.S. Business Cycle Indicators program. The main advantage of this procedure is to utilize in the leading economic index data such as stock prices, interest rate spread, and manufacturing hours that are available sooner than other data on real aspects of the economy such as

NOTICES

The Conference Board Leading Economic Index® (LEI) for the U.S. news release schedule for 2022:

Friday, January 21, 2022	For December 2021 data
Friday, February 18, 2022	For January 2022 data
Friday, March 18, 2022	For February 2022 data
Thursday April 21, 2022	For March 2022 data
Thursday, May 19, 2022	For April 2022 data
Friday, June 17, 2022	For May 2022 data
Thursday, July 21, 2022	For June 2022 data
Thursday, August 18, 2022	For July 2022 data
Thursday, September 22, 2022	For August 2022 data
Thursday, October 20, 2022	For September 2022 data
Friday, November 18, 2022	For October 2022 data
Thursday, December 22, 2022	For November 2022 data

All releases are at 10:00 AM ET.

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U.S. Business Cycle Indicators Internet Subscription

(Includes monthly release, data and charts)

\$ 995 per year

Monthly BCI Report (PDF)

(Sample available at <http://www.conference-board.org/data/monthlybci.cfm>)

\$ 400 per year

BCI Handbook (published 2001) PDF only – website download

Understanding Business Cycles: The Indicators Approach to Forecasting for Agility:

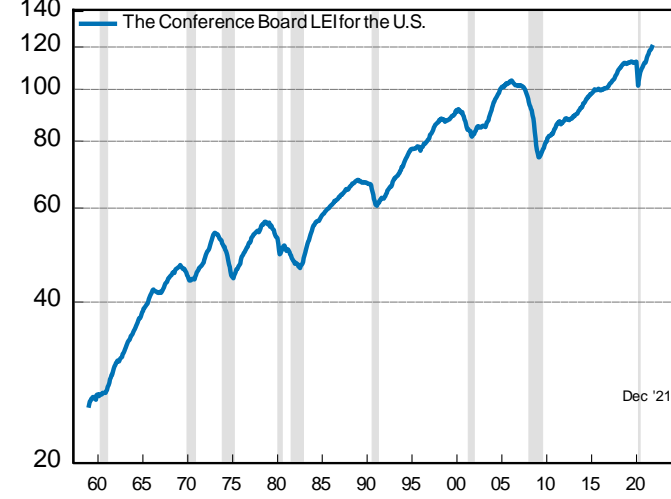
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Business Cycle Indicators for Brazil, China, the Euro Area, France, Germany, India, Japan, South Korea, Mexico, Spain, the U.K., and the U.S. are available at \$ 995 per country per year.

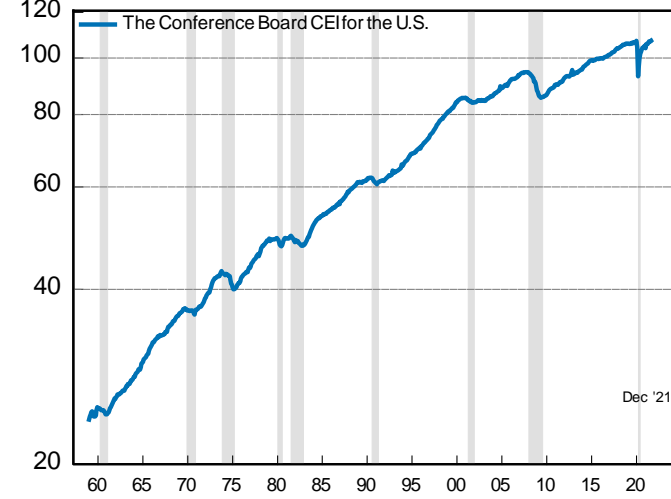
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<https://data-central.conference-board.org/>

U.S. Composite Economic Indexes (2016=100)

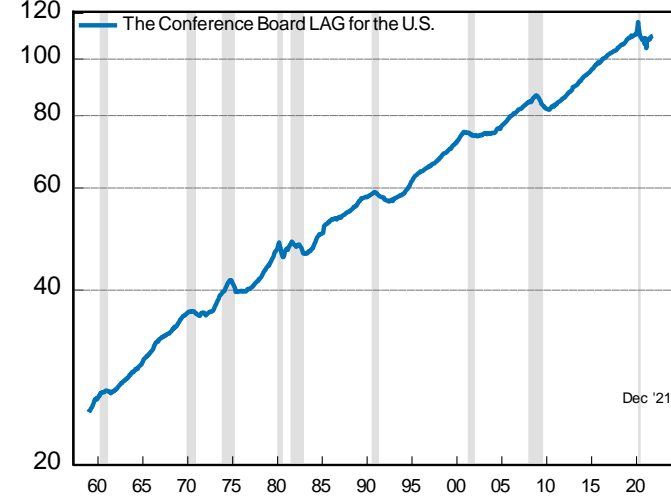
Peak:	60:4	69:12	73:11	80:1	81:7	90:7	01:3	07:12	20:2
Trough:	61:2	70:11	75:3	80:7	82:11	91:3	01:11	09:6	20:4



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Shaded areas represent recessions as determined by the National Bureau of Economic Research.

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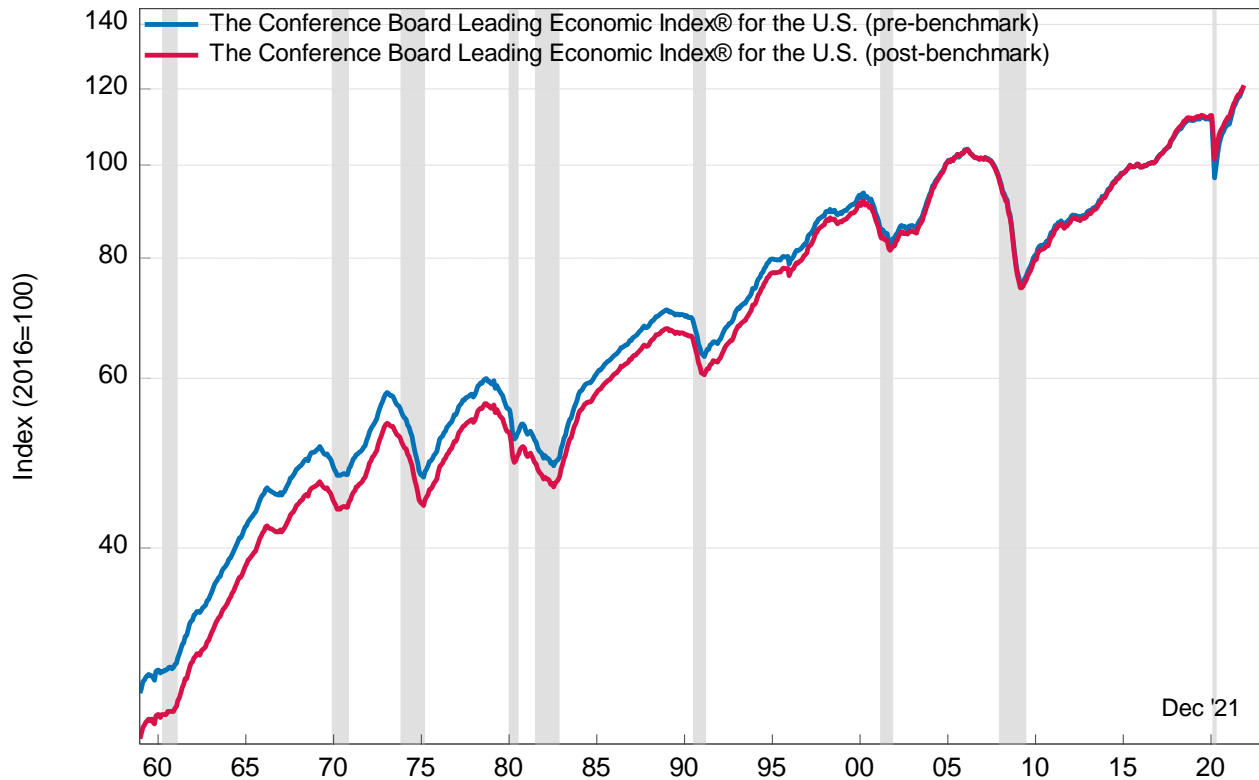
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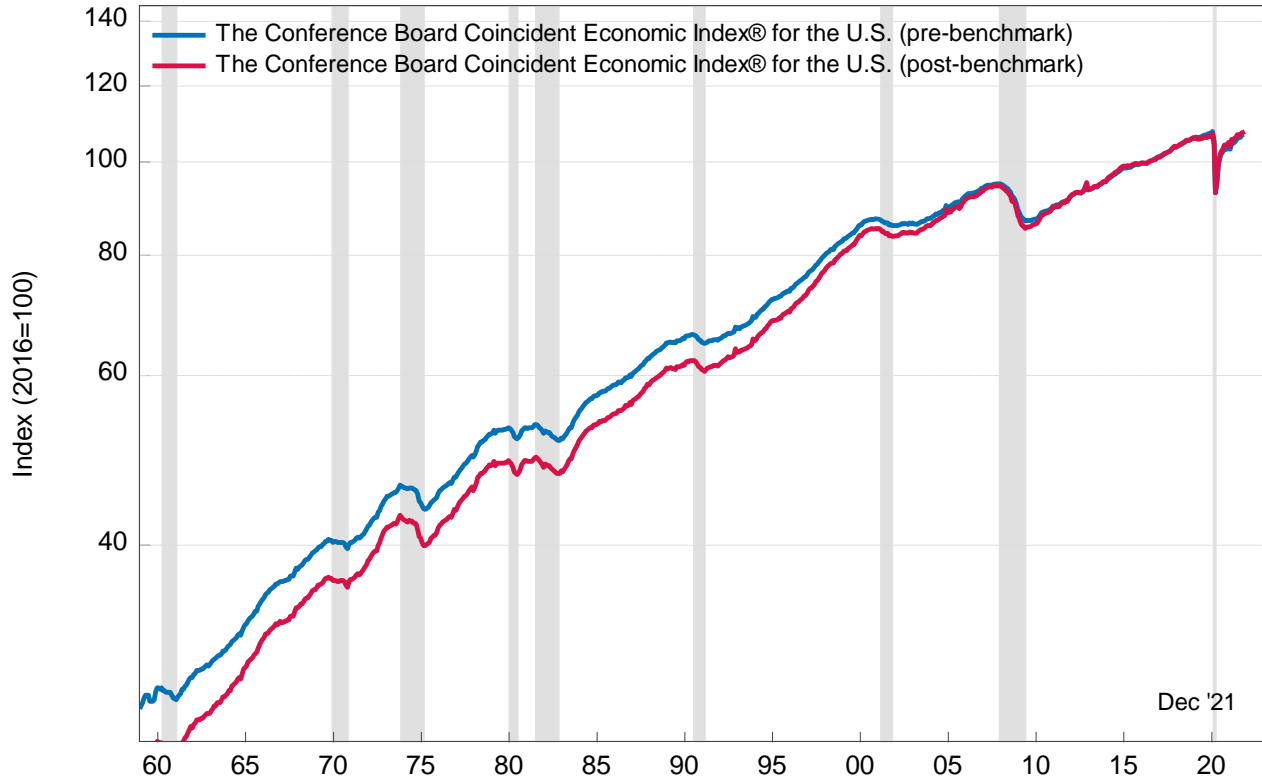
The Conference Board Leading Economic Index® (LEI) for United States before and after benchmark

Peak:	60:4	69:12	73:11	80:181:7	90:7	01:3	07:12	20:2
Trough:	61:2	70:11	75:3	80:782:11	91:3	01:11	09:6	20:4



The Conference Board Coincident Economic Index® (CEI) for United States before and after benchmark revision

Peak:	60:4	69:12	73:11	80:18	90:7	01:3	07:12	20:2	
Trough:	61:2	70:11	75:3	80:7	82:11	91:3	01:11	09:6	20:4



The Conference Board Lagging Economic Index® (LAG) for United States before and after benchmark revision (Corrected)

Peak:	60:4	69:12	73:11	80:18	90:7	01:3	07:12	20:2	
Trough:	61:2	70:11	75:3	80:7	82:11	91:3	01:11	09:6	20:4

