

FOR RELEASE: 10:00 A.M. ET, Monday, February 22, 2021

# The Conference Board® U.S. Business Cycle Indicators<sup>SM</sup>

# THE CONFERENCE BOARD LEADING ECONOMIC INDEX® (LEI) FOR THE UNITED STATES AND RELATED COMPOSITE ECONOMIC INDEXES FOR JANUARY 2021

The Conference Board Leading Economic Index<sup>®</sup> (LEI) for the U.S. increased 0.5 percent, The Conference Board Coincident Economic Index<sup>®</sup> (CEI) increased 0.2 percent and The Conference Board Lagging Economic Index<sup>®</sup> (LAG) decreased 0.6 percent in January.

- The Conference Board LEI for the U.S. continued to increase in January. Positive contributions from the majority of the LEI's components fueled its most recent improvement. In the six-month period ending January 2021, the leading economic index increased 5.1 percent (about a 10.6 percent annual rate), a reversal from the decline of 6.3 percent (about a -12.3 percent annual rate) over the previous six-month period ending July 2020. In addition, the strengths among the leading indicators remained widespread.
- The Conference Board CEI for the U.S., a measure of current economic activity, increased slightly in January. The coincident economic index rose 2.5 percent (about a 5.0 percent annual rate) between July 2020 and January 2021, a reversal from the decline of 5.9 percent (about a –11.4 percent annual rate) for the previous six months. Also, the strengths among the coincident indicators have remained very widespread, with all components advancing over the past six months. Unlike the CEI, the lagging economic index (LAG) declined in January. As a result, the coincident-to-lagging ratio increased. Real GDP expanded at a 4.0 percent annual rate in the last quarter of 2020, after increasing 33.4 percent (annual rate) in the third quarter.
- The Conference Board LEI for the U.S. continued to increase through January, but at a slower pace (on a monthly basis) relative to the post-shutdown recovery back in May 2020. Meanwhile, The Conference Board CEI for the U.S. has also been rising slowly, with widespread strengths among its components. Taken together, the current behavior of the composite indexes and their components suggest that the expansion in economic activity should continue going into spring.

<u>LEADING INDICATORS.</u> Seven of the ten indicators that make up The Conference Board LEI for the U.S. increased in January. The positive contributors – beginning with the largest positive contributor – were building permits, average weekly manufacturing hours, the ISM® New Orders Index, the interest rate spread, stock prices, the Leading Credit Index<sup>TM</sup> (inverted), and manufacturers' new orders for consumer goods and materials\*. The negative contributors – beginning with the largest negative contributor – were average weekly initial claims for unemployment insurance (inverted)<sup>N</sup>, average consumer expectations for business conditions and manufacturers' new orders for nondefense capital goods excluding aircraft\*.

The LEI for the U.S. increased 0.5 percent in January and now stands at 110.3 (2016=100). Based on revised data, this index increased 0.4 percent in December and increased 0.9 percent in November. Over the six-month span through January, the leading economic index increased 5.1 percent, with nine out of ten components advancing (diffusion index, six-month span equals 90 percent).

<u>COINCIDENT INDICATORS.</u> All four indicators that make up The Conference Board CEI for the U.S. increased in January. The positive contributors to the index – beginning with the largest positive contributor – were industrial production, personal income less transfer payments\*, manufacturing and trade sales\*, and employees on nonagricultural payrolls.

The CEI increased 0.2 percent in January and now stands at 103.3 (2016=100). Based on revised data, this index increased 0.1 percent in December and remained unchanged in November. During the six-month period through January, the coincident economic index increased 2.5 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. decreased 0.6 percent in January and stands at 106.2 (2016=100), with two of its seven components advancing. The positive contributors to the index were 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 negative contributors – beginning with the largest negative contributor – were the average duration of unemployment (inverted), commercial and industrial loans outstanding\* and the change in CPI for services. The average prime rate charged by banks and the ratio of manufacturing and trade inventories to sales\* held steady in January. Based on revised data, the lagging economic index increased 0.5 percent in December and remained unchanged in November.

# DATA AVAILABILITY AND NOTES.

The data series used to compute **The Conference Board Leading Economic Index**<sup>®</sup> (LEI) for the U.S., **The Conference Board Coincident Economic Index**<sup>®</sup> (CEI) for the U.S. and **The Conference Board Lagging Economic Index**<sup>®</sup> (LAG) for the U.S. and reported in the tables in this release are those available "as of" 8:30 am ET on February 18, 2021. 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.

N Please note that on September 3, 2020, the Department of Labor (DOL) changed the way it calculates seasonal adjustment factors for national initial claims and continued claims data. The revised seasonal factors are calculated as additive factors as opposed to multiplicative factors. See details: www.dol.gov/sites/dolgov/files/OPA/newsreleases/uiclaims/20201671.pdf The Conference Board is currently using official data published by DOL as an input to calculate the LEI – namely, the Initial Claims for Unemployment Insurance series. The impact on the LEI was minimal. Seasonal adjustment models and factors will be reviewed during the annual benchmark revision. If changes for the input data are needed, they will be reviewed and implemented.

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some of the volatility of individual components.

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

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

Leading Econom	ic Index	<u>Factor</u>
1	Average weekly hours, manufacturing	0.2798
2	Average weekly initial claims for unemployment insurance	0.0326
3	Manufacturers' new orders, consumer goods and materials	0.0844
4	ISM® new orders index	0.1587
5	Manufacturers' new orders, nondefense capital goods excl.	
	aircraft	0.0411
6	Building permits, new private housing units	0.0289
7	Stock prices, 500 common stocks	0.0393
8	Leading Credit Index <sup>TM</sup>	0.0833
9	Interest rate spread, 10-year Treasury bonds less federal funds	0.1109
10	Avg. consumer expectations for business conditions	0.1410
Coincident Eco		
1	Employees on nonagricultural payrolls	0.5302
2	Personal income less transfer payments	0.2052
3	Industrial production	0.1446
4	Manufacturing and trade sales	0.1200
Lagging Econo	omic Index	
1	Inventories to sales ratio, manufacturing and trade	0.1282
2	Average duration of unemployment	0.0356
3	Consumer installment credit outstanding to personal income	0.0330
	ratio	0.1842
4	Commercial and industrial loans	0.0844
5	Average prime rate	0.3055
6	Labor cost per unit of output, manufacturing	0.0508
7	Consumer price index for services	0.2113

#### 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 2021, 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 2019 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 2019. 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: <a href="http://www.conference-board.org/data/bci.cfm">http://www.conference-board.org/data/bci.cfm</a>

The trend adjustment factor for The Conference Board LEI for the U.S. is -0.0760 (over the 1984 – present) and 0.0928 (over the 1959-1983 period), and the trend adjustment factor for The Conference Board LAG for the U.S. is 0.1463.

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 manufacturers' new orders. Empirical research by The Conference Board suggests that there are real gains in adopting this procedure to make all the indicator series as up-to-date as possible.

# **NOTICES**

The Conference Board Leading Economic Index® (LEI) for the U.S. news release schedule for 2021:

For December 2020 data
For January 2021 data
For February 2021 data
For March 2021 data
For April 2021 data
For May 2021 data
For June 2021 data
For July 2021 data
For August 2021 data
For September 2021 data
For October 2021 data
For November 2021 data

All releases are at 10:00 AM ET.

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(Includes monthly release, data and charts) \$ 995 per year

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(Sample available at <a href="http://www.conference-board.org/data/monthlybci.cfm">http://www.conference-board.org/data/monthlybci.cfm</a>) \$ 400 per year

BCI Handbook (published 2001) PDF only – website download

Understanding Business Cycles: The Indicators Approach to Forecasting for Agility: https://www.conference-board.org/publications/publicationdetail.cfm?publicationid=2510

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

Table 1. Summary of U.S. Composite Economic Indexes

1		· · · ·		<b></b>									
				2020								2021	
	Jul	Aug		Sep		Oct		Nov		Dec		Jan	
	1010	400.5		407.5		400.0		400.0		400 7		4400	
Leading index	104.9	106.5	r	107.5	r	108.3	r	109.3	r	109.7	r	110.3	р
Percent change	2.0	1.5	r	0.9	r	0.7	r	0.9	r	0.4	r	0.5	р
Diffusion index	80	70		75		85		85		75		70	
Coincident index	100.8	101.8	r	102.3		103.0	r	103.0		103.1	r	103.3	р
Percent change	1.9	1.0	r	0.5	r	0.7	r	0.0	r	0.1	r	0.2	р
Diffusion index	100	100		75		100		50		50		87.5	
Lagging index	107.9	107.5	r	107.1	r	106.3	r	106.3	r	106.8	r	106.2	р
Percent change	-1.1	-0.4	r	-0.4		-0.7	r	0.0	r	0.5	r	-0.6	р
Diffusion index	21.4	21.4		21.4		35.7		50		42.9		42.9	•
Coincident-lagging ratio	93.4	94.7	r	95.5	r	96.9	r	96.9	r	96.5	r	97.3	р
Tallo													
	Jan to	Feb to		Mar to		Apr to		May to		Jun to		Jul to	
-	Jul	Aug		Sep		Oct		Nov		Dec		Jan	
Leading index													
Percent change	-6.3	-4.8		4		11.9		9.5		6.7		5.1	
Diffusion index	15	40		60		80		90		90		90	
	10			00		00		00		00		00	
Coincident index													
Percent change	-5.9	-5.2		-2.8		11.0		8.2		4.2		2.5	
Diffusion index	25	25		50		100		100		100		100	
Lagging index													
Percent change	-0.6	-1.3		-3.7		-7.9		-5.6		-2.1		-1.6	
Diffusion index	42.9	28.6		14.3		35.7		35.7		35.7		21.4	

p Preliminary. r Revised (noted only for index levels and one-month percent changes). c Corrected.

CALCULATION NOTE: The diffusion indexes measure the proportion of the components that are contributing positively. Components that rise more than 0.05 percent are given a value of 1.0, components that change less than 0.05 percent are given a value of 0.5, and components that fall more than 0.05 percent are given a value of 0.0.

The full history of composite and diffusion indexes is available by subscription on our web site at https://www.conference-board.org/data/bcicountry.cfm?cid=1

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Table 2. Data and Net Contributions for Components of The Conference Board Leading Economic Index® (LEI) for U.S.

	ons for Compone	2021	—								
Components	Jul	Dec	Jan								
	Jul Aug Sep Oct Nov Dec  U.S. Leading Economic Index Component Data										
Average workweek, production workers, mfg. (hours)	40.7	41.1	41.2 r	41.3	41.3 r	41.3	41.5				
Average weekly initial claims, state unemployment insurance (thousands)*	1339.0	992.4	838.6	788.5	740.5	816.0	856.8	р			
Manufacturers' new orders, consumer goods and materials (mil. 1982 dol.)	137,075 r	135,081 r	134,757 r	135,620 r	136,873 r	137,486 r	137,615 **				
ISM® New Orders Index											
(percent)	60.9	66.2	60.9	66.9	65.7	67.5	61.1				
Manufacturers' new orders, nondefense											
capital goods excl. aircraft (mil. 1982 dol.)	37115	37943 r	38615	39333	39724 r	39945 г	39885 **				
Building permits (thous.)	1,483	1,476	1,545	1,544	1,635	1,704 r	1,881				
Stock prices, 500 common stocks © (index: 1941-43=10)	3.207.62	3,391.71	3.365.52	3.418.70	3.548.99	3.695.31	3.793.75				
Leading Credit Index™ (std. dev.¹)*	0.82 r	-0.08 r	-0.27 r	-0.70 r	-1.78 r	-1.74 r	-1.21				
Interest rate spread, 10-year Treasury bonds less federal funds	0.53	0.55	0.59	0.70	0.78	0.84	0.99				
Avg. Consumer Expectations for Business Conditions (std. dev. <sup>1</sup> )	-0.80 г	-0.79 r	-0.02 r	0.05 r	-0.81 r	-0.66 r	-0.14				
LEADING INDEX (2016=100) Percent change from preceding month	104.9 2.0	106.5 r 1.5 r	107.5 r 0.9 r		109.3 r 0.9 r	109.7 r 0.4 r	110.3 0.5	p p			
Average workweek, production workers, mfg		.27	.07 r	.07 r	.00 r	.00 r	.14	—			
Average weekly initial claims, state unemployment insurance		.97	.55	.20	.20	32	16	р			
Manufacturers' new orders, consumer goods and materials		12	02 r	.05 r	.08 r	.04 r	.01 **				
ISM® New Orders Index		.22 r	.11 r	.23 r	.21 r	.25	.11				
Manufacturers' new orders, nondefense capital goods excl. aircraft		.09	.07	.08	.04 r	.02 r	01 **				
Building permits		01	.13	.00	.17	.12 r	.29				
Stock prices, 500 common stocks ©		.22	03	.06	.15	.16	.10				
Leading Credit Index™		.01	.02 r	.06 r	.15 r	.14 r	.10				
Interest rate spread, 10-year Treasury bonds less federal funds		.06	.07	.08	.09	.09	.11				
Avg. Consumer Expectations for Business Conditions		11	.00	.01	11	09	02				

- p Preliminary. r Revised. c Corrected.
- <sup>1</sup> Standard deviation above or below the mean
- \* Inverted series; a negative change or value in this component makes a positive contribution to the index.
- \*\* Statistical Imputation (See page 3 for more details)

#### Changes to Initial Claims for Unemployment Insurance series (See page 2 for more details)

© Copyrighted. Series from private sources are provided through the courtesy of the compilers and are subject to their copyrights: ISM® New Orders Index, Institute for Supply Management; Stock prices, Standard & Poor's Corporation and Index of consumer expectations for business conditions 12 months hence, Thomson Reuters/University of Michigan Surveys of Consumers.

CALCULATION NOTE: The percent change in the index does not always equal the sum of the net contributions of the individual components (because of rounding effects and base value differences).

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Table 3. Data and Net Contributions for Components of The Conference Board Coincident and Lagging Economic Index® (CEI) and (LAG) for U.S.

Substitution   Subs	Components		2020									
Employees on nonegricultural payonla (monuments)   139,566 r   141,149 r   141,865 r   142,645 r   142,690 r   142,692 r   142,681 r   144,681 r   1	Components	Jul	Aug	Sep	Oct	Nov	Dec	Jan				
Personal income less transfer payments (ann. rate, bit. chrs. 2012 clot)   13,733   13,861   141,865 r   142,865				U.S. Coincide	ent Economic Index	Component Data			_			
Industrial production (ndex. 2012-601)   13,793   13,861   14,101   14,197   14,088 r   14,086 r	(thousands)	139,566 r	141,149 r	141,865 r	142,545 r	142,809 r	142,582 r	142,631				
Manufacturing and trade sales (mil. oths 2012 dol.)   1,550,257   1,554,439   1,564,146   1,573,161 r   1,564,72 r   1,572,70 r   1,572,70 r   1,576,448 r   1,000 r		13,793	13,961	14,101	14,197 r	14,088 r	14,056 r	14,088 **				
(mil. chr. 2012 dol.)   1,550,257   1,554,439   1,564,146   1,573,161   1,568,472   1,572,70   1,572,408   1,570,448   1,570,500   1,572,70   1,572,408   1,572,70   1,572,408   1,572,70   1,572,70   1,572,408   1,572,70   1,572,408   1,572,70   1,572,408   1,572,70   1,572,408   1,572,70   1,572,70   1,572,408   1,572,70   1,572,70   1,572,408   1,572,70   1,57	Industrial production (index: 2012=100)	101.909	102.889 r	102.777 r	103.949 r	104.853 r	106.198 r	107.184				
Percent change from preceding month   19   10   10   10   10   10   10   10		1,550,257	1,554,439	1,564,146	1,573,161 r	1,568,472 r	1,572,370 **	1,576,448 **				
Purpoyees on nonagiculural payoris   Surpoyees									p p			
Personal income less transfer payments	. oldon olaligo nom proceding mona.							0.2	۲			
Manufacturing and trade sales	Employees on nonagricultural payrolls		.60 r	.27	.25 r	.10 r	08 r	.02	_			
Manufacturing and trade sales  0.3 0.7 0.7 r 0.4 r 0.3 *	Personal income less transfer payments		.25	.21	.14 r	16 r	05 r	.05	**			
Average duration of unemployment (weeks)   17.3   20.0   21.0   21.4   23.0   23.4   26.0     Ratio, manufacturing and trade inventories to sales (chain 2012 dot.)   1.369   1.365   1.361   1.358   1.363	Industrial production	****	.14 r	02 r	.16 r	.13 r	.18 r	.13				
Average duration of unemployment (weeks)* 17.3 20.0 21.0 21.0 21.4 23.0 23.4 26.0 23.4	Manufacturing and trade sales		.03	.07	.07 r	04 r	.03 **	.03	**			
Marker   M				U.S. Laggin	g Economic Index (	Component Data						
to sales (chain 2012 dol.) 1.369 1.365 1.361 1.368 r 1.368 r 1.363 r 1		17.3	20.0	21.0	21.4	23.0	23.4	26.0				
output, mrtg. (6-month percent, ann. rate)         14.8         13.1 r         9.5 r         -10.9 r         -12.6 r         -4.9 r         -1.6 **           Average prime rate charged by banks (percent)         3.25         <		1.369	1.365	1.361	1.358 r	1.363 r	1.363 **	1.363 **				
(percent) 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25		14.8	13.1 r	9.5 r	-10.9 r	-12.6 r	-4.9 r	-1.6 **				
Nation   Consumer installment credit outstanding (mil. chn. 2012 dol.)   1,471,772   r   1,425,378   r   1,409,915   r   1,391,166   r   1,391,166   r   1,358,997   r   1,369,343   r   1,313,946   r   1,3		3.25	3.25	3.25	3.25	3.25	3.25	3.25				
Standing to personal income (percent)   20.53   21.03   20.95   21.11   21.46 r   21.38 r   21.43 **   Change in CPI for services (6-month percent, ann. rate)   1.4 r   1.1 r   1.3 r   2.1 r   2.6 r   2.2 r   1.3     LAGGING INDEX (2016=100)   107.9   107.5 r   107.1 r   106.3 r   106.3 r   106.8 r   106.2     Percent change from preceding month   -1.1   -0.4 r   -0.4 r   -0.4 r   -0.7 r   0.0 r   0.5 r   -0.6     Standing to personal income (percent)   -1.1   -0.4 r   -0.4 r   -0.4 r   -0.7 r   -0.0 r   -0.5 r   -0.6     Standing to personal income (percent)   -1.1   -1.2 r   -0.6 r   -0.6 r   -0.6 r   -0.6 r   -0.6 r   -0.6 r     Standing to personal income (percent)   -1.1 r   -0.4 r   -0.4 r   -0.4 r   -0.7 r   -0.0 r   -0.6		1,471,772 r	1,425,378 r	1,409,915 r	1,391,166 r	1,358,997 r	1,369,343 r	1,313,946 **				
1.4 r		20.53	21.03	20.95	21.11	21.46 r	21.38 r	21.43 **				
Percent change from preceding month -1.1		1.4 r	1.1 r	1.3 r	2.1 r	2.6 r	2.2 r	1.3				
Average duration of unemployment5.2 -1.17 -0.07 -2.6 -0.6 -3.7  Ratio, manufacturing and trade inventories to sales0.4 -0.4 -0.4 -0.3 r .0.5 r .0.0 ** .0.0 **  Change in index of labor cost per unit of output, mfg0.9 r .18 r -1.04 r -0.9 r .39 r .17 **  Average prime rate charged by banks0.0 .0.0 .0.0 .0.0 .0.0 .0.0									p p			
Average duration of unemployment521707260637  Ratio, manufacturing and trade inventories to sales04040403 r .05 r .00 ** .00 **  Change in index of labor cost per unit of output, mfg09 r18 r -1.04 r09 r .39 r .17 **  Average prime rate charged by banks		U.S. Lagging Economic Index Component Contributions										
to sales04040403 r .05 r .00 ** .00 **  Change in index of labor cost per unit of output, mfg09 r09 r1.8 r1.04 r09 r 39 r 17 **  Average prime rate charged by banks	Average duration of unemployment		52					37	_			
Change in index of labor cost per unit of output, mfg09 r18 r -1.04 r09 r .39 r .17 **  Average prime rate charged by banks00 .00 .00 .00 .00 .00 .00 .00 .			04	04	03 r	.05 r	.00 **	.00 **				
Average prime rate charged by banks00 .00 .00 .00 .00 .00 .00 .00 .					1.04 r		20 r					
Commercial and industrial loans outstanding27091120 .06 r35 ** Ratio, consumer installment credit out-												
			27	09	11	20	.06 г	35 **				
	Ratio, consumer installment credit out-			07	.14	.30 r	07 r					
Change in CPI for services06 r .04 .17 r .11 r08 r19	Change in CPI for services		06 -	04	17 ,	44 -	00 -	10				

CPI Consumer Price Index. For additional notes see table 2.

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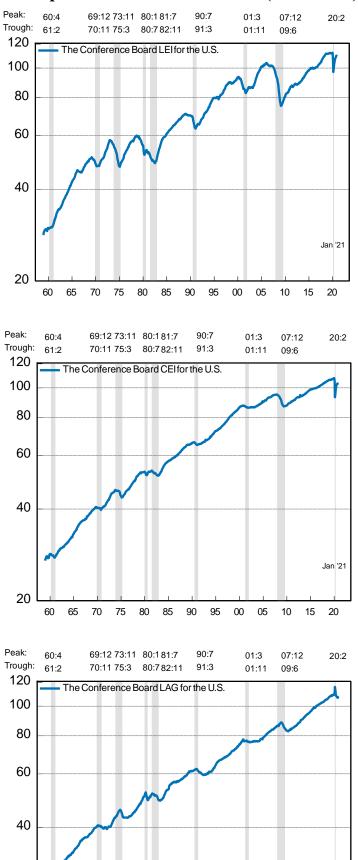
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<sup>\*</sup> Inverted series; a negative change in this component makes a positive contribution to the index.

<sup>\*\*</sup> Statistical Imputation (See page 3 for more details)

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



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

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Jan '21

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