

### FOR RELEASE: 10:00 A.M. ET, Thursday, August 21, 2014

# The Conference Board<sup>®</sup> U.S. Business Cycle Indicators<sup>™</sup> THE CONFERENCE BOARD LEADING ECONOMIC INDEX<sup>®</sup> (LEI) FOR THE UNITED STATES AND RELATED COMPOSITE ECONOMIC INDEXES FOR JULY 2014

**The Conference Board Leading Economic Index**<sup>®</sup> (LEI) for the U.S. increased 0.9 percent, **The Conference Board Coincident Economic Index**<sup>®</sup> (CEI) increased 0.2 percent and **The Conference Board Lagging Economic Index**<sup>®</sup> (LAG) increased 0.2 percent in July.

- The Conference Board LEI for the U.S. increased for the sixth consecutive month in July. Large positive contributions from the yield spread, building permits, initial claims for unemployment insurance, and the ISM® new orders index fueled this month's gain. In the six-month period ending July 2014, the leading economic index increased 4.0 percent (about an 8.2 percent annual rate), faster than the growth of 2.9 percent (about a 5.9 percent annual rate) during the previous six months. In addition, the strengths among the leading indicators became very widespread in recent months.
- The Conference Board CEI for the U.S., a measure of current economic activity, increased slightly in July. The index rose 1.8 percent (about a 3.6 percent annual rate) in the six months through July 2014, twice as fast as in the previous six months. Also, 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 almost at the same pace as the CEI, and the coincident-to-lagging ratio remained virtually unchanged. Real GDP expanded at a 4.0 percent annual rate in the second quarter of the year, after contracting 2.1 percent (annual rate) in the first quarter.
- The Conference Board LEI for the U.S. improved again in July, and the pace of growth has been accelerating over the past several months. Meanwhile, the CEI for the U.S. has been rising moderately through July, and its six-month growth rate has continued to advance. Taken together, the consistent improvements in both of the composite indexes, coupled with widespread strengths among their components, suggest that the current expansion in economic activity will continue at a strong pace through the end of this year.

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

The LEI for the U.S. now stands at 103.3 (2004=100). Based on revised data, this index increased 0.6

percent in both June and May. Over the six-month span through July, the leading economic index increased 4.0 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 July. The positive contributors to the index – beginning with the largest positive contributor – were employees on nonagricultural payrolls, industrial production, personal income less transfer payments\*, and manufacturing and trade sales\*.

The CEI now stands at 109.6 (2004=100). Based on revised data, this index increased 0.3 percent in June and increased 0.2 percent in May. During the six-month period through July, the coincident economic index increased 1.8 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. stands at 124.6 (2004=100) in July, with three of its seven components advancing. The positive contributors to the index – beginning with the largest positive contributor – were the average duration of unemployment (inverted), the ratio of consumer installment credit to personal income\* and commercial and industrial loans outstanding\*. The negative contributors – beginning with the largest negative contributor – were the change in CPI for services and the change in index of labor cost per unit of output, manufacturing\*. The ratio of manufacturing and trade inventories to sales\* and the average prime rate charged by banks held steady in July. Based on revised data, the lagging economic index increased 0.5 percent in June and increased 0.4 percent in May.

### 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 August 19, 2014. 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 excl. 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) now 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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<u>THE CYCLICAL INDICATOR APPROACH.</u> 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

Leading Econom	ic Index_	Factor
1	Average weekly hours, manufacturing	0.2713
2	Average weekly initial claims for unemployment insurance	0.0336
3	Manufacturers' new orders, consumer goods and materials	0.0830
4	ISM <sup>®</sup> new orders index	0.1606
5	Manufacturers' new orders, nondefense capital goods excl.	
	aircraft	0.0409
6	Building permits, new private housing units	0.0312
7	Stock prices, 500 common stocks	0.0392
8	Leading Credit Index <sup>™</sup>	0.0832
9	Interest rate spread, 10-year Treasury bonds less federal funds	0.1102
10	Avg. consumer expectations for business conditions	0.1468
Coincident Eco	onomic Index	
1	Employees on nonagricultural payrolls	0.5159
2	Personal income less transfer payments	0.2222
3	Industrial production	0.1436
4	Manufacturing and trade sales	0.1183
Lagging Econo	mic Index	
1	Average duration of unemployment	0.0371
2	Inventories to sales ratio, manufacturing and trade	0.1244
3	Labor cost per unit of output, manufacturing	0.0500
4	Average prime rate	0.2922
5	Commercial and industrial loans	0.0964
6	Consumer installment credit to personal income ratio	0.1971
7	Consumer price index for services	0.2028

#### 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 2014, 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 1984-2012 as the sample period for measuring volatility. A separate set of factors for the 1959-1983 period is available upon request. The primary sample period for the coincident and lagging economic indexes was 1959-2012. 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 Web site: http://www.conference-board.org/data/bci.cfm

The trend adjustment factor for The Conference Board LEI for the U.S is -0.0598 (over the 1984 – present) and 0.0904 (over the 1959-1983 period), and the trend adjustment factor for The Conference Board LAG for the U.S is 0.1551.

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<sup>®</sup> (LEI) for the U.S. news release schedule for 2014:

Friday, September 19, 2014 Thursday, October 23, 2014 Thursday, November 20, 2014 Thursday, December 18, 2014 For August 2014 data For September 2014 data For October 2014 data For November 2014 data

All releases are at 10:00 AM ET.

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				•									
						2014							
	Jan	Feb		Mar		Apr		May		Jun		Jul	
Leading index	99.3	99.9		100.9		101.2		101.8	r	102.4	r	103.3	р
Percent change	-0.2	.6		1.0		0.3		0.6	r	0.6	r	0.9	р
Diffusion index	40	40		75		45		75		65		70	
Coincident index	107.7	108.2	r	108.7	r	108.9	r	109.1	r	109.4	r	109.6	р
Percent change	-0.1	0.5	r	0.5	r	0.2		0.2	r	0.3	r	0.2	р
Diffusion index	50	100		100		100		100		100		100	
Lagging index	122.1	122.3		122.9		123.3	r	123.8		124.4		124.6	р
Percent change	0.7	0.2		0.5		0.3	r	0.4	r	0.5		0.2	р
Diffusion index	71.4	35.7		71.4		64.3		78.6		78.6		57.1	
Coincident-lagging ratio	88.2	88.5	r	88.4	r	88.3	r	88.1	r	87.9	r	88.0	р
	Jul to	Aug to		Sep to		Oct to		Nov to		Dec to		Jan to	
	Jan	Feb		Mar		Apr		May		Jun		Jul	
Leading index													
Percent change	2.9	2.8		2.7		2.7		2.4		2.9		4.0	
Diffusion index	65	60		70		65		60		70		90	
Coincident index													
Percent change	0.9	1.1		1.3		1.3		1.1		1.5		1.8	
Diffusion index	100	100		100		100		100		100		100	
Lagging index													
Percent change	2.3	2.2		2.2		2.2		2.6		2.6		2.0	
Diffusion index	92.9	78.6		92.9		92.9		92.9		92.9		78.6	

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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	2014										
Component	Jan	Feb	Mar	Apr	May	Jun	Jul				
		U.S	. Leading Ecor		component da	ata					
Average w orkw eek, production w orkers, mfg. (hours)	41.7	41.5	42.0	41.9	42.2	42.2 r	42.0				
Average w eekly initial claims, state unemployment insurance (thousands)*	333.8	336.9	320.9	325.2	310.3	315.0	293.5				
Manufacturers' new orders, consumer goods and materials (mil. 1982 dol.)	129,344	132,268	132,366 r	131,881	133,233 r	133,773 r	133,965 **				
ISM <sup>®</sup> New Orders Index (percent)	51.2	54.5	55.1	55.1	56.9	58.9	63.4				
Manufacturers' new orders, nondefense capital goods excl. aircraft (mil. 1982 dol.	40889	40855 r	42768 r	42302	41659 r	42969 r	42643 **				
Building permits (thous.)	939	1,011	1,000	1,059	1,005	973 r	1,052				
Stock prices, 500 common stocks © (index: 1941-43=10)	1,822.36	1,817.03	1,863.52	1,864.26	1,889.77	1,947.09	1,973.10				
Leading Credit Index™ (std. dev.¹)*	-1.30 r	-1.43 r	-0.92 r	-0.92 r	-1.36 r	-2.04 r	-1.58				
Interest rate spread, 10-year Treasury bonds less federal funds	2.79	2.64	2.64	2.62	2.47	2.50	2.45				
Avg. Consumer Expectations for Business Conditions (std. dev. <sup>1</sup> )	-0.25 r	-0.34 r	-0.15 r	0.03 r	-0.01 r	-0.06 r	-0.09				
LEADING INDEX (2004=100) Percent change from preceding month	99.3 -0.2	99.9 0.6	100.9 1.0	101.2 0.3	101.8 r 0.6 r	102.4 r 0.6 r	103.3 p 0.9 p				
—		U.S	. Leading Ecor	nomic Index r	net contributic	ons					
Average w orkw eek, production w orkers, mfg		13	.32	06	.19	.00 r	13				
Average weekly initial claims, state unemployment insurance		03	.16	04	.16	05	.24				
Manufacturers' new orders, consumer goods and materials		.19	.01 r	03 r	.08 r	.03 r	.01 **				
ISM® New Orders Index		02	01	01	.03	.07	.16				
Manufacturers' new orders, nondefense capital goods excl. aircraft		.00 r	.19	04 r	06 r	.13 r	03 **				
Building permits		.23	03	.18	16	10 r	.24				
Stock prices, 500 common stocks ©		01	.10	.00	.05	.12	.05				
Leading Credit Index™		.12	.08	.08	.11	.17 r	.13				
Interest rate spread, 10-year Treasury bonds less federal funds		.29	.29	.29	.27	.28	.27				
Avg. Consumer Expectations for Business Conditions		05	02	.00	.00	01 r	01				

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)
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CALCULATION NOTÉ: The percent change in the index does not alw ays 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 U.S. Coincident Economic Index and U.S. Lagging Economic Index

Querrand	2014										
Component	Jan	Feb	Mar	Apr	May	Jun	Jul				
	U.S. Coincident Economic Index component data										
Employees on nonagricultural payrolls (thousands)	137,539	137,761	137,964	138,268	138,497 r	138,795 r	139,004				
Personal income less transfer payments (ann. rate, bil. chn. 2009 dol.)	11,044 r	11,115 r	11,175 r	11,194 r	11,203 r	11,227 r	11,254 **				
Industrial production (index: 2007=100)	101.306	102.257 r	103.127 r	103.191 r	103.537 r	103.933 r	104.388				
Manufacturing and trade sales (mil. chn. 2009 dol.)	1,148,495 r	1,155,075 r	1,167,463 r	1,170,311 r	1,174,500 r	1,177,257 **	1,180,244 **				
COINCIDENT INDEX (2004=100) Percent change from preceding month	107.7 -0.1	108.2 r 0.5 r	108.7 r 0.5 r	108.9 r 0.2	109.1 r 0.2 r	109.4 r 0.3 r	109.6 p 0.2 p				
-					lex net contribu						
Employees on nonagricultural payrolls		.08	.08	.11	.09 r	.11	.08				
Personal income less transfer payments		.14 r	.12 r	.04	.02 r	.05	.05 **				
Industrial production		.13	.12 r	.01	.05 r	.05 r	.06				
Manufacturing and trade sales		.07 r	.13	.03	.04	.03 **	.03 **				
-			U.S. Lagging	Economic Inde	ex component d	ata					
Average duration of unemployment (w eeks)*	35.4	37.1	35.6	35.1	34.5	33.5	32.4				
Ratio, manufacturing and trade inventories to sales (chain 2009 dol.)	1.410 r	1.406 r	1.394 r	1.396 r	1.397 r	1.398 **	1.398 **				
Change in index of labor cost per unit of output, mfg. (6-month percent, ann. rate)	2.7 r	1.8 r	2.7 r	2.4 r	2.3 r	3.3 r	2.9 **				
Average prime rate charged by banks (percent)	3.25	3.25	3.25	3.25	3.25	3.25	3.25				
Commercial and industrial loans outstanding (mil. chn. 2009 dol.)	1,010,977 r	1,037,106 r	1,061,042 r	1,069,525 r	1,073,588 r	1,087,397 r	1,089,603 **				
Ratio, consumer installment credit out- standing to personal income (percent)	21.64 r	21.60 r	21.59 r	21.68 r	21.73 r	21.77 r	21.80 **				
Change in CPI for services (6-month percent, ann. rate)	2.6	2.8	3.1	3.0	3.4	3.3	2.8				
LAGGING INDEX (2004=100)	122.1	122.3	122.9	123.3 r	123.8	124.4	124.6 p				
Percent change from preceding month	0.7	0.2	0.5	0.3 r	0.4 r	0.5	0.2 p				
-	U.S. Lagging Economic Index net contributions										
Average duration of unemployment		17	.15	.05	.06	.11	.12				
Ratio, manufacturing and trade inventories to sales		04 r	11	.02 r	.01 r	.01 **	.00 **				
Change in index of labor cost per unit of output, mfg		05 r	.05 r	02 r	01 r	.05 r	02 **				
Average prime rate charged by banks		.00	.00	.00	.00	.00	.00				
Commercial and industrial loans outstanding		.25	.22	.08	.04	.12	.02 **				
Ratio, consumer installment credit out- standing to personal income		04 r	01 r	.08 r	.05	.04	.03 **				
Change in CPI for services		.04	.06	02	.08	02	10 **				

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

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

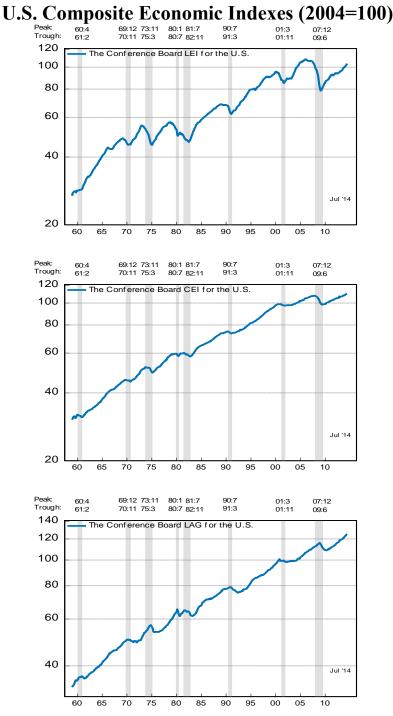
\*\* Statistical Imputation (See page 3 for more details)

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

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