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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 AUGUST 2016

The Conference Board Leading Economic Index[®] (LEI) for the U.S. decreased 0.2 percent, The Conference Board Coincident Economic Index[®] (CEI) increased 0.1 percent and The Conference Board Lagging Economic Index[®] (LAG) increased 0.2 percent in August.

- The Conference Board LEI for the U.S. declined in August. Large negative contributions from average weekly manufacturing hours and new orders, more than offset positive contributions from the financial components. In the six-month period ending August 2016, the leading economic index increased 0.9 percent (about a 1.8 percent annual rate), faster than the growth of 0.2 percent (about a 0.3 percent annual rate) during the previous six months. However, the weaknesses and strengths among the leading indicators are somewhat balanced.
- The Conference Board CEI for the U.S., a measure of current economic activity, increased in August. The coincident economic index rose 0.8 percent (about a 1.6 percent annual rate) between February and August 2016, about the same pace of growth as in the previous six months. In addition, the strengths among the coincident indicators have remained widespread in recent months. The lagging economic index continued to increase, but at a faster rate than the CEI. As a result, the coincident-to-lagging ratio is down again and has been on a downward trend since the beginning of 2016. Meanwhile, real GDP expanded at a 1.1 percent annual rate in the second quarter, after increasing 0.8 percent (annual rate) in the first quarter.
- The Conference Board LEI for the U.S. decreased in August, after two consecutive monthly gains. Despite the decline, the LEI's six-month growth remains positive. Meanwhile, The Conference Board CEI for the U.S. continues rising at a slow and steady pace. Taken together, the current behavior of the composite indexes and their components suggest that the expansion in economic activity should continue, but underlying weaknesses in the LEI may pose a risk to growth in the months ahead.

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

The LEI for the U.S. decreased 0.2 percent and now stands at 124.1 (2010=100). Based on revised data, this index increased 0.5 percent in July and increased 0.2 percent in June. Over the six-month span through August, the leading economic index increased 0.9 percent, with three out of ten components advancing (diffusion index, six-month span equals 45 percent).

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

The CEI increased 0.1 percent and now stands at 114.1 (2010=100). Based on revised data, this index increased 0.3 percent in both July and June. During the six-month period through August, the coincident economic index increased 0.8 percent, with three out of four components advancing (diffusion index, six-month span equals 87.5 percent).

<u>LAGGING INDICATORS.</u> The Conference Board Lagging Economic Index for the U.S. increased 0.2 percent and stands at 122.1 (2010=100) in August, with four 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 change in CPI for services, the ratio of consumer installment credit outstanding to personal income*, and the change in the index of labor cost per unit of output, manufacturing*. The negative contributor was commercial and industrial loans outstanding*. The ratio of manufacturing and trade inventories to sales* and the average prime rate charged by banks held steady in August. Based on revised data, the lagging economic index increased 0.2 percent in July and decreased 0.2 percent in June.

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" 8:30 am ET on September 20, 2016. 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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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

Leading Econom	ic Index	Factor
1	Average weekly hours, manufacturing	0.2741
2	Average weekly initial claims for unemployment insurance	0.0329
3	Manufacturers' new orders, consumer goods and materials	0.0822
4	ISM® new orders index	0.1594
5	Manufacturers' new orders, nondefense capital goods excl.	
	aircraft	0.0409
6	Building permits, new private housing units	0.0310
7	Stock prices, 500 common stocks	0.0397
8	Leading Credit Index TM	0.0824
9	Interest rate spread, 10-year Treasury bonds less federal funds	0.1115
10	Avg. consumer expectations for business conditions	0.1459
Coincident Eco		
1	Employees on nonagricultural payrolls	0.5297
2	Personal income less transfer payments	0.2035
3	Industrial production	0.1472
4	Manufacturing and trade sales	0.1197
Lagging Econo		
1	Average duration of unemployment	0.0376
2	Inventories to sales ratio, manufacturing and trade	0.1258
3	Labor cost per unit of output, manufacturing	0.0502
4	Average prime rate	0.2993
5	Commercial and industrial loans	0.0960
6	Consumer installment credit outstanding to personal income	
_	ratio	0.1840
7	Consumer price index for services	0.2071

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 2016, 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 2014 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 2014. 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 -0.0771 (over the 1984 – present) and 0.0892 (over the 1959-1983 period), and the trend adjustment factor for The Conference Board LAG for the U.S is 0.1503.

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 2016:

Thursday, October 20, 2016 For September 2016 data Friday, November 18, 2016 For October 2016 data Thursday, December 22, 2016 For November 2016 data

All releases are at 10:00 AM ET.

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

			•									
	2016											
	Feb	Mar	Apr		May		Jun		Jul		Aug	
Leading index	123.0	123.0	123.6		123.4		123.7	r	124.3		124.1	n
Percent change	0.0	0.0	0.5		-0.2		0.2	r	0.5	r	-0.2	p p
Diffusion index	30	55	75		45		85	•	80	'	40	Р
Direction index	30	33	13		40		00		00		40	
Coincident index	113.2	113.2	113.4		113.4	r	113.7	r	114.0	r	114.1	р
Percent change	0.1	0.0	0.2		0.0	r	0.3	r	0.3	r	0.1	p
Diffusion index	50	62.5	100		37.5		100		100		75	·
Lagging index	120.4	121.0	121.4	r	121.9	r	121.7		121.9	r	122.1	р
Percent change	0.3	0.5	0.3	r	0.4		-0.2	r	0.2	r	0.2	p p
Diffusion index	50	64.3	64.3		92.9		35.7		42.9		71.4	•
Coincident-lagging ratio	94.0	93.6	93.4	r	93.0		93.4	r	93.5		93.4	р
	Aug to	Sep to	Oct to		Nov to		Dec to		Jan to		Feb to	
	Feb	Mar	Apr		May		Jun		Jul		Aug	
Leading index												
Percent change	0.2	0.3	0.3		-0.2		0.3		1.1		0.9	
Diffusion index	45	55	60		30		45		60		45	
Coincident index												
Percent change	0.8	0.5	0.6		0.6		0.7		0.8		0.8	
Diffusion index	75	75	75		75		100		100		87.5	
Lagging index												
Percent change	1.6	1.7	1.8		1.8		1.6		1.6		1.4	
Diffusion index	57.1	71.4	85.7		85.7		71.4		64.3		78.6	
Diffusion index	57.1	71.4	85.7		85.7		71.4		64.3		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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Table 2. Data and Net Contributions for Components of the U.S. Leading Economic Index

	2016									
Component	Feb	Mar	Apr	May	Jun	Jul	Aug			
•		U.S	5. Leading Eco	nomic Index o	component da	ata				
Average w orkw eek, production w orkers, mfg. (hours)	41.8	41.7	41.8	41.9	41.7 r	42.0	41.8			
Average w eekly initial claims, state unemployment insurance (thousands)*	261.2	266.8	258.0	276.9	264.8	259.6	263.2			
Manufacturers' new orders, consumer goods and materials (mil. 1982 dol.)	140,674	140,132	140,147 r	138,423	138,763 r	138,932 r	139,138 **			
ISM® New Orders Index										
(percent)	51.5	58.3	55.8	55.7	57.0	56.9	49.1			
Manufacturers' new orders, nondefense										
capital goods excl. aircraft (mil. 1982 dol.)	37277	37365	37009 r	36712	36858 r	37467 r	37270 **			
Building permits (thous.)	1,162	1,077	1,130	1,136	1,153	1,144 r	1,139			
Stock prices, 500 common stocks © (index: 1941-43=10)	1,904.42	2,021.95	2,075.54	2,065.55	2,083.89	2,148.90	2,177.48			
Leading Credit Index™ (std. dev.¹)*	0.29 r	-0.50 r	-0.45 r	-0.20 r	-0.33 r	-0.86 r	-0.25			
Interest rate spread, 10-year Treasury bonds less federal funds	1.40	1.53	1.44	1.44	1.26	1.11	1.16			
Avg. Consumer Expectations for Business Conditions (std. dev. 1)	-0.30 r	-0.04 r	-0.31 r	-0.10 r	-0.01 r	-0.39 r	-0.09			
LEADING INDEX (2010=100) Percent change from preceding month	123.0 0.0	123.0 0.0	123.6 0.5	123.4 -0.2	123.7 r 0.2 r	124.3 0.5 r	124.1 p -0.2 p			
	U.S. Leading Economic Index net contributions									
Average w orkw eek, production w orkers, mfg		07	.07	.07	13 r	.20 r	13			
Average w eekly initial claims, state unemployment insurance		07	.11	23	.15	.07	05			
Manufacturers' new orders, consumer goods and materials		03	.00 r	10 r	.02 r	.01	.01 **			
ISM® New Orders Index		.06	.01	.01	.03	.03	13			
Manufacturers' new orders, nondefense capital goods excl. aircraft		.01	04	03	.02 r	.07 r	02 **			
Building permits		24	.15	.02	.05	02 r	01			
Stock prices, 500 common stocks ©		.24	.10	02	.04	.12	.05			
Leading Credit Index™		.04 r	.04 r	.02 r	.03 r	.07 r	.02			
Interest rate spread, 10-year Treasury bonds less federal funds		.17	.16	.16	.14	.12	.13			
Avg. Consumer Expectations for Business Conditions		01	05	01	.00	06 r	01			

- p Preliminary. r Revised. c Corrected.
- 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 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 U.S. Coincident Economic Index and U.S. Lagging Economic Index

Component				2016						
Component	Feb	Mar	Apr	May	Jun	Jul	Aug			
			U.S. Coincid	lent Economic Inde	x component data					
Employees on nonagricultural payrolls (thousands)	143,547	143,733	143,877	143,901	144,172 r	144,447 r	144,598			
Personal income less transfer payments (ann. rate, bil. chn. 2009 dol.)	11,803 r	11,825 r	11,862 r	11,880 r	11,913 r	11,967 r	11,997 **			
ndustrial production (index: 2007=100)	104.414	103.426 r	103.905 r	103.730 r	104.268 r	104.856 r	104.402			
Manufacturing and trade sales (mil. chn. 2009 dol.)	1,220,968	1,220,757	1,223,111 r	1,218,438 r	1,223,767 r	1,225,889 **	1,229,112 **			
COINCIDENT INDEX (2010=100) Percent change from preceding month	113.2 0.1	113.2 0.0	113.4 0.2	113.4 r 0.0 r	113.7 r 0.3 r	114.0 r 0.3 r	114.1 p 0.1 p			
				ent Economic Inde						
Employees on nonagricultural payrolls		.07	.05	.01	.10 r	.10 r	.06			
Personal income less transfer payments		.04	.06 r	.03 r	.06 r	.09 r	.05 **			
ndustrial production		14	.07	02	.08 r	.08 r	06			
Manufacturing and trade sales		.00	.02 r	05 r	.05 r	.02 **	.03 **			
			U.S. Laggir	ng Economic Index	component data					
verage duration of unemployment (w eeks)*	29.0	28.4	27.7	26.7	27.7	28.1	27.6			
atio, manufacturing and trade inventories to sales (chain 2009 dol.)	1.440	1.446	1.445 r	1.450 r	1.443 r	1.445 **	1.445 **			
hange in index of labor cost per unit of output, mfg. (6-month percent, ann. rate)	1.5	0.8	1.1 r	1.3 r	0.0 r	0.3 **	0.4 **			
verage prime rate charged by banks (percent)	3.50	3.50	3.50	3.50	3.50	3.50	3.50			
Commercial and industrial loans outstanding (mil. chn. 2009 dol.)	1,215,485 r	1,240,788 r	1,247,599 r	1,251,312 r	1,240,198 r	1,237,113 r	1,222,145 **			
Ratio, consumer installment credit out- standing to personal income (percent)	22.66	22.75	22.75 r	22.82 r	22.84 r	22.85 r	22.87 **			
Change in CPI for services (6-month percent, ann. rate)	2.9	2.8	2.8	2.9	3.1	3.0	3.2			
AGGING INDEX (2010=100) Percent change from preceding month	120.4 0.3	121.0 0.5	121.4 r 0.3 r	121.9 r 0.4	121.7 -0.2 r	121.9 r 0.2 r	122.1 p 0.2 p			
	U.S. Lagging Economic Index net contributions									
verage duration of unemployment		.08	.09	.14	14	05	.07			
latio, manufacturing and trade inventories to sales		.05	01 r	.04 г	06 r	.02 **	.00 **			
change in index of labor cost per unit of output, mfg		04	.02 r	.01 r	07 r	.02 **	.01 **			
verage prime rate charged by banks		.00	.00	.00	.00	.00	.00			
Commercial and industrial loans outstanding		.20	.05	.03	09 r	02 r	12 **			
Ratio, consumer installment credit out- standing to personal income		.07	л 00.	.06	.02 r	.01 r	.02 **			
Change in CPI for services		02	.00	.02	.04	02	.04			

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

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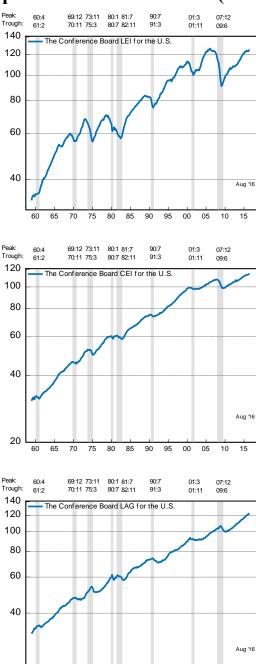
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^{*} Inverted series; a negative change in this component makes a positive contribution to the index.

^{**} Statistical Imputation (See page 3 for more details)

U.S. Composite Economic Indexes (2010=100)



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

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