

FOR RELEASE: 10:00 A.M. ET, Thursday, August 17, 2017

The Conference Board[®] U.S. Business Cycle Indicators[™] THE CONFERENCE BOARD LEADING ECONOMIC INDEX[®] (LEI) FOR THE UNITED STATES AND RELATED COMPOSITE ECONOMIC INDEXES FOR JULY 2017

The Conference Board Leading Economic Index[®] (LEI) for the U.S. increased 0.3 percent, **The Conference Board Coincident Economic Index**[®] (CEI) increased 0.3 percent and **The Conference Board Lagging Economic Index**[®] (LAG) increased 0.1 percent in July.

- The Conference Board LEI for the U.S. continued to increase through July with gains widespread across nearly all of its components, except for building permits, which contributed negatively. In the six-month period ending July 2017, the leading economic index increased 2.3 percent (about a 4.7 percent annual rate), faster than the growth of 1.5 percent (about a 3.1 percent annual rate) during the previous six months. In addition, the strengths among the leading indicators have remained widespread.
- The Conference Board CEI for the U.S., a measure of current economic activity, also increased in July. The coincident economic index rose 1.1 percent (about a 2.3 percent annual rate) between January and July 2017, slightly faster than the growth of 0.8 percent (about a 1.6 percent annual rate) over the previous six months. 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, but at a slower rate than the CEI. As a result, the coincident-to-lagging ratio increased. Real GDP expanded at a 2.6 percent annual rate in the second quarter, after increasing 1.2 percent (annual rate) in the first quarter.
- The Conference Board LEI for the U.S. has been on an upward trajectory for almost a year, and as a result its six-month growth rate has improved compared to the end of last year. Meanwhile, The Conference Board CEI for the U.S. continues to slowly improve and its pace of growth is now moderately faster than six months ago. Taken together, the recent behavior of the composite indicators and their components suggest that the expansion in economic activity will continue in the months ahead, with the possibility of some moderate upside potential for growth.

LEADING INDICATORS. Eight 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, the ISM® new orders index, average consumer expectations for business conditions, the Leading Credit IndexTM (inverted), stock prices, average weekly initial claims for unemployment insurance (inverted), manufacturers' new orders for consumer goods and materials*, and manufacturers' new orders for nondefense capital goods excluding aircraft*. The negative contributor was building permits, while average weekly manufacturing hours held steady in July.

The LEI for the U.S. increased 0.3 percent and now stands at 128.3 (2010=100). Based on revised data, this index increased 0.6 percent in June and increased 0.3 percent in May. Over the six-month span through July, the leading economic index increased 2.3 percent, with eight out of ten components

advancing (diffusion index, six-month span equals 80 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 increased 0.3 percent and now stands at 115.7 (2010=100). Based on revised data, this index increased 0.1 percent in June and increased 0.3 percent in May. During the six-month period through July, the coincident economic index increased 1.1 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 0.1 percent and stands at 124.8 (2010=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 prime rate charged by banks, the ratio of consumer installment credit outstanding 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, the average duration of unemployment (inverted) and the change in the index of labor cost per unit of output, manufacturing*. The ratio of manufacturing and trade inventories to sales* held steady in July. Based on revised data, the lagging economic index increased 0.2 percent in both June and May.

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 August 16, 2017. 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, manufacturing and trade sales and industrial production. Series in The Conference Board LAG for the U.S. that are based on our estimates 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.

Leading Economi	c Index	Factor
1	Average weekly hours, manufacturing	0.2774
2	Average weekly initial claims for unemployment insurance	0.0330
3	Manufacturers' new orders, consumer goods and materials	0.0821
4	ISM [®] new orders index	0.1587
5	Manufacturers' new orders, nondefense capital goods excl.	
	aircraft	0.0405
6	Building permits, new private housing units	0.0298
7	Stock prices, 500 common stocks	0.0397
8	Leading Credit Index TM	0.0818
9	Interest rate spread, 10-year Treasury bonds less federal funds	0.1123
10	Avg. consumer expectations for business conditions	0.1447
Coincident Eco	nomic Index	
1	Employees on nonagricultural payrolls	0.5295
2	Personal income less transfer payments	0.2050
3	Industrial production	0.1461
4	Manufacturing and trade sales	0.1194
Lagging Econo	mic Index	
1	Inventories to sales ratio, manufacturing and trade	0.1256
2	Average duration of unemployment	0.0371
3	Consumer installment credit outstanding to personal income	0.0571
	ratio	0.1847
4	Commercial and industrial loans	0.0961
5	Average prime rate	0.2993
6	Labor cost per unit of output, manufacturing	0.0501
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 2017, 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 2015 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 2015. For additional information on the standardization factors and the index methodology see: "Benchmark Revisions in 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 -0.0806 (over the 1984 – present) and 0.0891 (over the 1959-1983 period), and the trend adjustment factor for The Conference Board LAG for the U.S. is 0.1458.

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 2017:

Thursday, September 21, 2017 Thursday, October 19, 2017 Monday, November 20, 2017 Thursday, December 21, 2017 For August 2017 data For September 2017 data For October 2017 data For November 2017 data

All releases are at 10:00 AM ET.

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						2017							
	Jan	Feb		Mar		Apr		May		Jun		Jul	
Leading index	125.4	125.9		126.4		126.7		127.1	r	127.9	r	128.3	р
Percent change	0.6	0.4		0.4		0.2		0.3	r	0.6		0.3	р
Diffusion index	85	75		60		70		80		80		85	
Coincident index	114.4	114.7		114.9	r	115.0		115.3		115.4	r	115.7	р
Percent change	-0.1	0.3		0.2	r	0.1	r	0.3		0.1	r	0.3	р
Diffusion index	50	87.5		87.5		62.5		100		75		100	
Lagging index	123.3	123.6	r	123.8	r	124.2	r	124.5	r	124.7	r	124.8	р
Percent change	0.2	0.2		0.2		0.3		0.2	r	0.2		0.1	р
Diffusion index	50	42.9		57.1		64.3		50		50		50	
Coincident-lagging ratio	92.8	92.8	r	92.8		92.6	r	92.6	r	92.5	r	92.7	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	1.5	2		2.2		2.3		2.4		2.6		2.3	
Diffusion index	90	95		80		70		80		90		80	
Coincident index													
Percent change	0.8	1.0		1.0		0.9		1.1		0.8		1.1	
Diffusion index	75	100		100		100		100		75		100	
Lagging index													
Percent change	1.3	1.2		1.2		1.5		1.5		1.3		1.2	
Diffusion index	71.4	57.1		57.1		57.1		71.4		71.4		57.1	

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

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

	2017									
Component	Jan	Feb	Mar	Apr	May	Jun	Jul			
		U.S	. Leading Eco	nomic Index (component da	ata				
Average w orkw eek, production w orkers, mfg. (hours)	41.9	41.9	41.8	41.9	41.9	42.0 r	42.0			
Average weekly initial claims, state unemployment insurance (thousands)*	246.8	243.4	250.2	243.0	239.7	243.6	241.9			
Manufacturers' new orders, consumer goods and materials (mil. 1982 dol.)	136,894	137,164	137,205 r	136,511	136,523 r	136,625 r	136,821 **			
ISM [®] New Orders Index										
(percent)	60.4	65.1	64.5	57.5	59.5	63.5	60.4			
Manufacturers' new orders, nondefense										
capital goods excl. aircraft (mil. 1982 dol.)	36906	36913	36841 r	36918	37257 r	37190 r	37264 **			
Building permits (thous.)	1,300	1,219	1,260	1,228	1,168	1,275 r	1,223			
Stock prices, 500 common stocks © (index: 1941-43=10)	2,275.12	2,329.91	2,366.82	2,359.31	2,395.35	2,433.99	2,454.10			
Leading Credit Index™ (std. dev.¹)*	-0.21 r	0.05 r	0.05 r	-0.20 r	-0.51 r	-0.92 r	-1.14			
Interest rate spread, 10-year Treasury bonds less federal funds	1.78	1.76	1.69	1.40	1.39	1.15	1.17			
Avg. Consumer Expectations for Business Conditions (std. dev. 1)	0.60 r	0.50 r	0.83 r	0.57 r	0.55 r	0.36 r	0.65			
LEADING INDEX (2010=100) Percent change from preceding month	125.4 0.6	125.9 0.4	126.4 0.4	126.7 0.2	127.1 r 0.3 r	127.9 r 0.6	128.3 p 0.3 p			
		U.S	. Leading Eco	nomic Index ı	net contributio	ons				
Average w orkw eek, production w orkers, mfg		.00	07	.07	.00	.07 r	.00			
Average weekly initial claims, state unemployment insurance		.05	09	.10	.05	05	.02			
Manufacturers' new orders, consumer goods and materials		.02	.00 r	04 r	.00 r	.01	.01 **			
ISM [®] New Orders Index		.20	.19	.04	.08	.17	.10			
Manufacturers' new orders, nondefense capital goods excl. aircraft		.00	01	.01	.04 r	01 r	.01 **			
Building permits		19	.10	08	15	.26 r	12			
Stock prices, 500 common stocks $^{\odot}$.09	.06	01	.06	.06	.03			
Leading Credit Index™		.00	.00	.02	.04	.08 r	.09			
Interest rate spread, 10-year Treasury bonds less federal funds		.20	.19	.16	.16	.13	.13			
Avg. Consumer Expectations for Business Conditions		.07	.12	.08	.08	.05 r	.09			

c Corrected. р Preliminary. r Revised.

¹ Standard deviation above or below the mean Inverted series; a negative change or value in this component makes a positive contribution to the index.

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Michigan Surveys of Consumers. CALCULATION NOTE: 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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				2017							
Component	Jan	Feb	Mar	Apr	May	Jun	Jul				
			U.S. Coincid	lent Economic Inde	x component data						
Employees on nonagricultural payrolls (thousands)	145,541	145,773	145,823	146,030	146,175 r	146,406 r	146,615				
Personal income less transfer payments (ann. rate, bil. chn. 2009 dol.)	11,893 r	11,952 r	12,015 r	12,012 r	12,060 r	12,049 r	12,081 **				
ndustrial production (index: 2007=100)	103.457	103.704	103.819	104.689	104.755	105.160	105.630 **				
<i>l</i> anufacturing and trade sales (mil. chn. 2009 dol.)	1,248,443 r	1,247,909 r	1,250,135 r	1,245,847 r	1,250,206 r	1,252,514 **	1,255,692 **				
COINCIDENT INDEX (2010=100) Percent change from preceding month	114.4 -0.1	114.7 0.3	114.9 r 0.2 r	115.0 0.1 r	115.3 0.3	115.4 r 0.1 r	115.7 p 0.3 p				
				ent Economic Inde							
Employees on nonagricultural payrolls		.08	.02	.08	.05 r	.08	.08				
Personal income less transfer payments		.10 r	.11 r	01 r	.08 r	02 r	.05 *				
ndustrial production		.03	.02	.12	.01	.06	.07 *				
Anufacturing and trade sales		01 r	.02 r	04	.04 r	.02 **	.03 *				
			U.S. Laggir	ng Economic Index	component data						
verage duration of unemployment (weeks)*	25.1	25.1	25.3	24.1	24.7	24.7	24.9				
atio, manufacturing and trade inventories to sales (chain 2009 dol.)	1.442 r	1.442 r	1.438 r	1.438 r	1.434 r	1.435 **	1.435 **				
change in index of labor cost per unit of output, mfg. (6-month percent, ann. rate)	-4.1 r	-1.3 r	0.6 r	0 r	3.2 r	3.0 r	2.5 **				
verage prime rate charged by banks (percent)	3.75	3.75	3.88	4.00	4.00	4.13	4.25				
Commercial and industrial loans outstanding (mil. chn. 2009 dol.)	1,258,467 r	1,252,182 r	1,256,294 r	1,257,993 r	1,260,362 r	1,255,344 r	1,256,207 **				
Ratio, consumer installment credit out- standing to personal income (percent)	23.38 r	23.36 r	23.39 r	23.43 r	23.46 r	23.54 r	23.57 **				
Change in CPI for services (6-month percent, ann. rate)	3.1	3.1	2.6	2.5	2.4	2.1	1.9				
AGGING INDEX (2010=100)	123.3	123.6 r	123.8 r	124.2 r	124.5 r	124.7 r	124.8 p				
Percent change from preceding month	0.2	0.2	0.2	0.3	0.2 r	0.2	0.1 p				
	U.S. Lagging Economic Index net contributions										
verage duration of unemployment		.00	03	.18	09	.00	03				
atio, manufacturing and trade inventories to sales		.00 r	03 r	.00	03 r	.01 **	.00 **				
change in index of labor cost per unit of output, mfg		.14 r	.10 r	03 r	.16 r	01 r	03 **				
verage prime rate charged by banks		.00	.04	.04	.00	.04	.04				
commercial and industrial loans outstanding		05	.03	.01 r	.02	04	.01 **				
Ratio, consumer installment credit out- standing to personal income		02 r	.02 r	.03 r	.02	.06 r	.02 **				
Change in CPI for services		.00	10	02	02	06	04				

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.

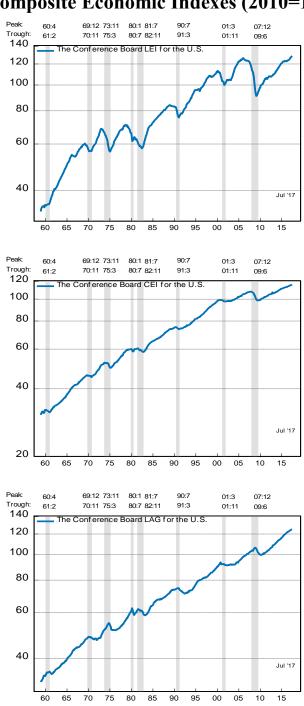
** Statistical Imputation (See page 3 for more details)

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

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

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