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The Conference Board<sup>®</sup>
France Business Cycle Indicators<sup>sm</sup>

# THE CONFERENCE BOARD LEADING ECONOMIC INDEX® (LEI) FOR FRANCE

#### AND RELATED COMPOSITE ECONOMIC INDEXES FOR SEPTEMBER 2015

New York, November 20, 2015...The Conference Board Leading Economic Index<sup>®</sup> (LEI) for France declined 0.1 percent and The Conference Board Coincident Economic Index<sup>®</sup> (CEI) increased 0.1 percent in September.

- The Conference Board LEI for France edged down in September, with stock price and industrial new orders making the largest negative contributions. In the six-month period ending in September 2015, the leading economic index increased 1.2 percent (about a 2.3 percent annual rate), slightly below its growth of 1.4 percent (about a 2.7 percent annual rate) over the prior six months, and the strengths among its components have remained widespread.
- The Conference Board CEI for France, a measure of current economic activity, rose slightly in September. The coincident economic index increased 0.3 percent (about a 0.6 percent annual rate) between March and September 2015, down from 0.7 percent (about a 1.4 percent annual rate) over the previous six months. In addition, the strengths among the coincident indicators have become slightly more widespread than the weaknesses in recent months. Meanwhile, real GDP advanced at 1.4 percent (annual rate) in the third quarter, following 0.2 percent (annual rate) in the second quarter of this year.
- Despite September's decline, the France LEI continued to improve over the recent six months. Meanwhile, the CEI increased in the past two months, after being virtually flat since January, with more widespread strengths than weaknesses among its components. Taken together, the recent behavior of the composite indexes suggests that economic growth is likely to continue at a moderate pace in the coming year.

<u>LEADING INDICATORS</u>. Three of the seven components that make up The Conference Board LEI for France increased in September. The positive contributors to the index—in order from the largest positive contributor to the smallest—were production expectations, the yield spread, and new unemployment claims (inverted). The negative contributors to the index—beginning with the largest negative contributor—were the stock price index, industrial new orders and building permits (residential). The ratio deflator of value added to unit labor cost in manufacturing\* remained unchanged in September.

With the decrease of 0.1 percent in September, the leading economic index now stands at 112.9 (2010=100). Based on revised data, this index increased 0.4 percent in both August and July. During the six-month span through September, the index increased 1.2 percent, and five of the seven components increased (diffusion index, six-month span equals 78.6 percent).

Please visit our website at http://www.conference-board.org/data/bci.cfm Also visit the website of our research associate in France: http://www.coe-rexecode.fr/public The next release is scheduled for Friday, December 18, 2015 at 3:30 P.M. Paris time (9:30 A.M. ET)

<u>COINCIDENT INDICATORS.</u> All four components that make up The Conference Board CEI for France increased in September. They were employment\*, personal consumption of manufactured goods, wage and salaries\*, and industrial production.

With the increase of 0.1 percent in September, the coincident economic index now stands at 100.9 (2010=100). Based on revised data, this index increased 0.2 percent in August and remained unchanged in July. During the six-month period through September, the index increased 0.3 percent, with three of the four series making a positive contribution (diffusion index, six-month span equals 75.0 percent).

#### FOR TABLES AND CHARTS, SEE BELOW

<u>DATA AVAILABILITY</u>. The data series used to compute **The Conference Board Leading Economic Index**<sup>®</sup> (LEI) for France and **The Conference Board Coincident Economic Index**<sup>®</sup> (CEI) for France reported in this release are those available "as of" 10 A.M. ET on November 17, 2015. Some series are estimated as noted below.

\*The series in The Conference Board LEI for France that is based on our estimates is the ratio of the deflator of manufacturing value added to unit labor cost in manufacturing. Series in The Conference Board CEI for France that are based on our estimates are number of employees and wage and salaries.

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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 and coincident economic indexes are essentially composite averages of several leading or coincident 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 France have occurred before those in aggregate economic activity, while the cyclical turning points in The Conference Board CEI for France have occurred at about the same time as those in aggregate economic activity.

Further explanations of the cyclical indicator approach and the composite index methodology appear in The Conference Board's *Business Cycle Indicators* report and website: http://www.conference-board.org/data/bci.cfm

<sup>\*</sup> See notes under data availability.

### France Composite Economic Indexes: Components and Standardization Factors

	<u>Leading Economic Index</u>	<u>Factor</u>
1	Yield Spread	0.0976
2	Stock Price	0.0295
3	Building Permits	0.0352
4	New Unemployment Claims	0.1240
5	Industrial New Orders	0.0354
6	Production Expectations	0.0347
7	Ratio P/L Cost	0.6436
	Coincident Economic Index	<b>Factor</b>
1	Industrial Production	0.0576
2	Personal Consumption	0.0400
3	Employment (Private sector)	0.5971
4	Wage and Salaries	0.3053

#### 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.

These factors were revised effective with the release in January 2015, and all historical values for the two composite indexes were revised at this time to reflect the changes. Under normal circumstances, updates to the leading and coincident indexes only incorporate revisions to data over the past six months. The factors above for The Conference Board LEI for France were calculated using 1994-2013 as the sample period for measuring volatility. Separate sets of factors for the 1983-1994 period, 1976-1982 period, and 1970-1976 period are available upon request. The factors above for The Conference Board CEI for France were calculated using 1978-2013 as the sample period. Separate sets of factors for the 1972-1978 period and 1970-1972 period are available upon request. When one or more components are missing, the other factors are adjusted proportionately to ensure that the total continues to sum to 1. For additional information on the standardization factors and the index methodology visit our website: http://www.conference-board.org/data/bci.cfm.

The trend adjustment factor for The Conference Board LEI for France is -0.0069 (calculated from January 1970 to December 2013).

To address the problem of lags in available data, those leading and coincident indicators that are not available at the time of publication are estimated using statistical imputation. An autoregressive model is used to estimate each component. The resulting indexes are constructed using real and estimated data, and will be revised as the data unavailable at 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 index the data, such as stock prices, that are available sooner than other data on "real" aspects of the economy, such as new orders and changes in inventory. Empirical research by The Conference Board suggests 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 France news release schedule for 2015:

Friday, December 18, 2015 For October 2015 data

All releases are at 9:30 A.M. ET.

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# The Conference Board France Business Cycle Indicators

Table 1.--Summary of France Composite Economic Indexes

	2015						
	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.
Leading index	111.6	111.7	111.8	112.1 p	112.6 p	113.0 p	112.9 p
Percent change	0.4	0.1	0.1	0.3 p	0.4 p	0.4 p	-0.1 p
Diffusion index	64.3	64.3	64.3	64.3	78.6	64.3	50.0
Coincident index	100.6	100.5 r	100.6	100.6 p	100.6 p	100.8 p	100.9 p
Percent change	0.0	-0.1 r	0.1 r	0.0 p	0.0 p	0.2 p	0.1 p
Diffusion index	37.5	25.0	62.5	87.5	62.5	100.0	100.0
	Sep to	Oct to	Nov to	Dec to	Jan to	Feb to	Mar to
	Sep to Mar	Oct to Apr	Nov to May	Dec to Jun	Jan to Jul	Feb to Aug	Mar to Sep
	•						
Leading index	•				Jul		
Leading index Percent change	•						
~	Mar	Apr	May	Jun	Jul	Aug	Sep
Percent change	Mar 1.4	Apr	May 1.3	Jun 1.4 p	Jul 1.5 p	Aug 1.6 p	Sep 1.2 p
Percent change	Mar 1.4	Apr	May 1.3	Jun 1.4 p 85.7	Jul 1.5 p	Aug 1.6 p	Sep 1.2 p
Percent change Diffusion index	Mar 1.4	Apr	May 1.3	Jun 1.4 p	Jul 1.5 p	Aug 1.6 p	Sep 1.2 p
Percent change Diffusion index Coincident index	Mar 1.4 85.7	Apr 1.4 57.1	1.3 71.4	Jun 1.4 p 85.7	Jul 1.5 p 85.7	Aug 1.6 p 92.9	Sep 1.2 p 78.6

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

CALCULATION NOTE: The diffusion indexes measure the proportion of the components that are rising. 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.

For more information, visit our Web site at http://www.conference-board.org/data/index.cfm

Source: The Conference Board

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## The Conference Board France Business Cycle Indicators

Table 2.--Data and Net Contributions for the Components of the France Leading Economic Index

	ons for the c	2015						
Component	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	
Yield Spread, 10 years minus Day-Day Loan Rate	0.54	0.51	nce Leading E 0.98	conomic Index	Component D	0ata 1.12	1.14	
Stock Price SBF250 Index, index 1000=12/31/1990,	3849.86	3971.15	3902.21	3802.34	3818.30	3758.87	3488.21	
Building Permits Residential, (3 month moving average), S.A	28483.74 r	29456.25 r	30034.12 r	31624.88 r	31588.90 r	33093.22 r	32798.16	
New Unemployment Claims* thousands, (3 month moving average), S.A	499.43	505.23	503.87	498.50	495.03	497.27	496.20	
Industrial New Orders opinion balance,	-20.00	-18.00	-19.00	-22.00	-17.00	-12.00	-15.00	
Production Expectations for Months Ahead Diffusion Index	7.60	5.80	6.30	7.20	7.40	9.30	12.90	
Ratio Deflator of Value Added to Unit Labor Cost (2005=100), Q	97.58	97.58	97.57	97.56 **	97.56 **	97.55 **	97.55 **	
LEADING INDEX (2010=100)  Percent change from preceding month	<b>111.6</b> 0.4	<b>111.7</b> 0.1	<b>111.8</b> 0.1	<b>112.1 p</b> 0.3 p	<b>112.6 p</b> 0.4 p	<b>113.0 p</b> 0.4 p	<b>112.9 p</b> -0.1 p	
·	France Leading Economic Index net contributions							
Yield Spread, 10 years minus Day-Day Loan Rate		0.05	0.10	0.13	0.12	0.11	0.11	
Stock Price SBF250 Index, index 1000=12/31/1990,		0.09	-0.05	-0.08	0.01	-0.05	-0.22	
Building Permits Residential, (3 month moving average), S.A		0.12	0.07 r	0.18 r	0.00 r	0.16 r	-0.03	
New Unemployment Claims* thousands, (3 month moving average), S.A		-0.14	0.03	0.13	0.09	-0.06	0.03	
Industrial New Orders opinion balance,		0.07	-0.04	-0.11	0.18	0.18	-0.11	
Production Expectations for Months Ahead Diffusion Index		-0.06	0.02	0.03	0.01	0.07	0.12	
Ratio Deflator of Value Added to Unit Labor Cost (2005=100), Q		0.00	0.00	0.00 **	0.00 **	0.00 **	0.00 **	

p Preliminary. r Revised. s.a. Seasonally Adjusted

#### Data Sources: COE-Rexecode, Haver Analytics, INSEE

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

<sup>\*\*</sup> Statistical Imputation (See page 2 for more details)

Q Quarterly series; these series are converted to monthly through a linear interpolation.

## The Conference Board France Business Cycle Indicators

Table 3.--Data and Net Contributions for the Components of the France Coincident Economic Index

Commont				2015			
Component	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.
	France Coincident Economic Index Component Data						
Industrial Production, Volume (2010=100). S.A	99.8 r	98.9 r	99.2 r	99.4	98.4 r	100.1 r	100.2
Personal Consumption of Manuf. Goods Billions of 2010 Euros, S.A	20.3	20.3	20.3	20.4	20.5	20.5	20.7
Number of Employees in the Private Sector Thous. Of Employees, S.A. Q	15825.3	15833.2	15841.1	15849.3 **	15857.7 **	15866.4 **	15875.3 **
Wage and Salaries, Non-Financial Millions of Euros, S.A. Q	107894.8 r	107739.4 r	107592.3 r	107553.6 **	107567.7 **	107626.6 **	107716.4 **
COINCIDENT INDEX (2010=100)  Percent change from preceding month	<b>100.6</b> 0.0	<b>100.5 r</b> -0.1 r		<b>100.6 p</b> 0.0 p	<b>100.6 p</b> 0.0 p	<b>100.8 p</b> 0.2 p	<b>100.9 p</b> 0.1 p
<u>-</u>	France Coincident Economic Index net contributions						
Industrial Production, Volume (2010=100). S.A		-0.05	0.02	0.01 r	-0.06	0.10 r	0.01
Personal Consumption of Manuf. Goods Billions of 2010 Euros, S.A		0.00	0.01	0.02 r	0.01 r	0.01 r	0.03
Number of Employees in the Private Sector Thous. Of Employees, S.A. Q		0.03	0.03	0.03 **	0.03 **	0.03 **	0.03 **
Wage and Salaries, Non-Financial Millions of Euros, S.A. Q		-0.04	-0.04 r	-0.01 **	0.00 **	0.02 **	0.03 **

p Preliminary. r Revised. s.a. Seasonally adjusted

#### Data Sources: COE-Rexecode, Haver Analytics, INSEE

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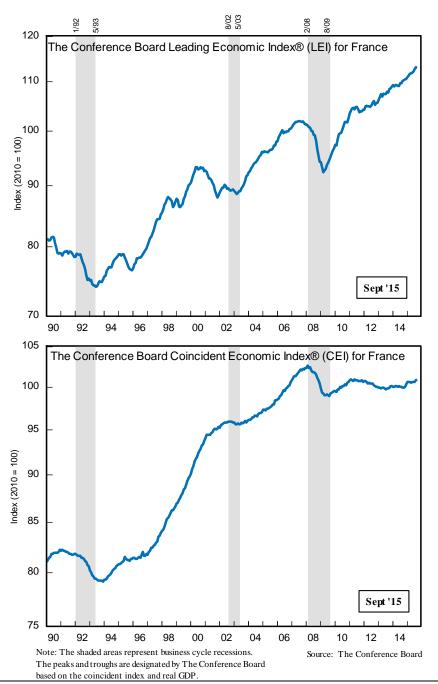
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<sup>\*</sup> Inverted series; a negative change in this component makes a positive contribution to the index.

<sup>\*\*</sup> Statistical Imputation (See page 2 for more details)

Q Quarterly series; these series are converted to monthly through a linear interpolation.

# France Composite Economic Indexes



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