

FOR RELEASE: 10:00 A.M. AEST, WEDNESDAY, JULY 25, 2012

The Conference Board®
Australia Business Cycle Indicators<sup>SM</sup>

# THE CONFERENCE BOARD LEADING ECONOMIC INDEX® (LEI) FOR AUSTRALIA AND RELATED COMPOSITE ECONOMIC INDEXES FOR MAY 2012

The Conference Board Leading Economic Index<sup>®</sup> (LEI) for Australia increased 0.4 percent and The Conference Board Coincident Economic Index<sup>®</sup> (CEI) increased 0.3 percent in May.

- The Conference Board LEI for Australia increased in May following three consecutive declines. Money supply\*, rural goods exports\*, and building approvals made the largest positive contributions. Despite the gain in May, the leading economic index decreased by 1.1 percent (about a -2.2 percent annual rate) between November 2011 and May 2012, down from the decline of 0.6 percent (about a -1.3 percent annual rate) during the previous six months. In addition, the weaknesses among the leading indicators remain more widespread than the strengths in recent months.
- The Conference Board CEI for Australia, a measure of current economic activity, also increased in May with all of its components advancing. Between November 2011 and May 2012, the coincident economic index increased by 1.4 percent (about a 2.9 percent annual rate), up from a 0.9 percent increase (about a 1.9 percent annual rate) for the previous six months. Moreover, the strengths among the coincident indicators have been very widespread in recent months. At the same time, real GDP increased sharply by 5.3 percent (annual rate) in the first quarter of this year, up from the 2.5 percent growth (annual rate) in the fourth quarter of 2011.
- The Conference Board LEI for Australia increased in May after declining for three months in a row. However, its six-month change remains negative. Meanwhile, The Conference Board CEI for Australia has been on a slightly rising trend for the past year. Taken together, the recent behavior in the composite indexes suggests that despite the rapid pace of economic expansion in the first quarter, the rate of growth is likely to moderate in the near term.

<u>LEADING INDICATORS</u>. Three of the seven components in The Conference Board LEI for Australia increased in May. The positive contributors to the index — in order from the largest positive contributor to the smallest — are money supply\*, rural goods exports, and building approvals. Share prices, the yield spread, gross operating surplus\*, and the sales to inventories ratio\* declined in May.

With the 0.4 percent increase in May, The Conference Board LEI for Australia now stands at 123.6 (2004=100). Based on revised data, this index declined 1.3 percent in April and declined 0.1 percent in March. During the six-month period through May, the leading economic index decreased 1.1 percent, and three of the seven components increased (diffusion index, six-month span equals 42.9 percent).

<u>COINCIDENT INDICATORS.</u> All four components in The Conference Board CEI for Australia increased in May. The increases — in order from the largest positive contributor to the smallest — occurred in retail trade, employed persons, household gross disposable income\*, and industrial production\*.

With the increase of 0.3 percent in May, The Conference Board CEI for Australia now stands at 120.7 (2004=100). Based on revised data, this index increased 0.2 percent in April and increased 0.4 percent in March. During the six-month period through May, the coincident economic index increased 1.4 percent, with all four components in the series making positive contributions (diffusion index, six-month span equals 100.0 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 Australia and **The Conference Board Coincident Economic Index**<sup>®</sup> (CEI) for Australia reported in this release are those available "as of" 10 A.M. ET on July 23,2012. Some series are estimated as noted below.

NOTES: Series in The Conference Board LEI for Australia that are based on our estimates are sales to inventory ratio and gross operating surplus for private non-financial corporations, the implicit price index used to deflate rural goods exports and building approvals, and the CPI used to deflate money supply M3. Series in The Conference Board CEI for Australia that are based on our estimates are industrial production and household disposable income. CPI was used to deflate retail trade.

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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 individual 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.

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

Historically, the cyclical turning points in The Conference Board LEI for Australia have occurred before those in aggregate economic activity, while the cyclical turning points in The Conference Board CEI for Australia have occurred at about the same time as those in aggregate economic activity.

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

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

| Lea | ading Economic Index  | <u>Factor</u> |
|-----|---|---------------|
| 1.  | Yield Spread, 10 year minus Policy Rate                     | .1254         |
| 2.  | Share Prices, All Ordinaries                                | .0457         |
| 3.  | Money Supply, M3  | .2625         |
| 4.  | Rural Goods Exports   | .0295         |
| 5.  | Sales to Inventory Ratio                                    | .3464         |
| 6.  | Gross Operating Surplus, Private Non-Financial Corporations | .1345         |
| 7.  | Building Approvals  | .0560         |
| Coi | ncident Economic Index                                      |               |
| 1.  | Retail Trade  | .2604         |
| 2.  | Industrial Production                                       | .0890         |
| 3.  | Employed Persons  | .4405         |
| 4.  | Household Disposable Income                                 | .2101         |

#### 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 January 2012 release, and all historical values for the two composite economic indexes have been revised at the time to reflect the changes. (Under normal circumstances, updates to the leading and coincident economic indexes only incorporate revisions to data over the past six months.) The factors above were calculated using 1979 to 2010 as the sample period for measuring volatility for The Conference Board LEI for Australia, and 1982 to 2010 as the sample period for The Conference Board CEI for Australia. There are additional sample periods as the result of different starting dates for the component data. 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 Web site: http://www.conference-board.org/data/bci.cfm.

The trend adjustment factor for The Conference Board LEI for Australia is -0.0706 calculated from 1960-1973, and -0.1577 calculated over the sample period 1974-2010.

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 economic 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 schedule for "**The Conference Board Leading Economic Index**® (LEI) for Australia" news release for 2012 is:

June 2012 Data Thursday, August 23, 2012

July 2012 Data Thursday, September 20, 2012

August 2012 Data Monday, October 22, 2012

September 2012 Data Monday, November 19, 2012

October 2012 Data Monday, December 17, 2012

All releases are at 8:00 PM EST (10:00 A M AEDST the next day).

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#### AVAILABLE FROM THE CONFERENCE BOARD

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(Includes monthly release, data, charts and commentary) Not currently available

#### **Individual Data Series**

Not currently available

#### Monthly BCI Report (PDF)

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## The Conference Board Leading Economic Index® (LEI) and The Conference Board Coincident Economic Index® (CEI) for Australia

Table 1.--Summary of Australia Composite Economic Indexes

|                   | 2011   |        |        |        |   | •      |   | •      |   | 2012    |
|-------------------|--------|--------|--------|--------|---|--------|---|--------|---|---------|
|                   | Nov.   | Dec.   | Jan.   | Feb.   |   | Mar.   |   | Apr.   |   | May     |
|                   |        |        |        |        |   |        |   |        |   |         |
| Leading index     | 125.0  | 124.3  | 125.2  | 124.8  |   | 124.7  | р | 123.1  | р | 123.6 p |
| Percent change    | -1.1   | -0.6   | 0.7    | -0.3   |   | -0.1   | р | -1.3   | р | 0.4 p   |
| Diffusion index   | 42.9   | 28.6   | 21.4   | 50.0   |   | 57.1   |   | 50.0   |   | 50.0    |
| Coincident in day | 440.0  | 110.0  | 440.4  | 110.5  | _ | 120.0  | _ | 400.0  | _ | 100 7 - |
| Coincident index  | 119.0  | 119.0  | 119.4  |        | r | 120.0  | • | 120.3  |   | 120.7 p |
| Percent change    | 0.0    | 0.0    | 0.3    | 0.1    | r | 0.4    | p | 0.2    | р | 0.3 p   |
| Diffusion index   | 87.5   | 62.5   | 50.0   | 100.0  |   | 75.0   |   | 100.0  |   | 100.0   |
|                   | May to | Jun to | Jul to | Aug to |   | Sep to |   | Oct to |   | Nov to  |
|                   | Nov    | Dec    | Jan    | Feb    |   | Mar    |   | Apr    |   | May     |
| Loading indov     |        |        |        |        |   |        |   |        |   |         |
| Leading index     | 0.0    | -1.1   | -1.1   | 2.2    |   | 4.7    |   | 2.0    |   | 4.4     |
| Percent change    | -0.6   |        |        | -2.3   |   | -1.7   | р | -2.6   | р | -1.1 p  |
| Diffusion index   | 57.1   | 57.1   | 42.9   | 28.6   |   | 42.9   |   | 42.9   |   | 42.9    |
| Coincident index  |        |        |        |        |   |        |   |        |   |         |
| Percent change    | 0.9    | 0.7    | 0.9    | 0.8    | r | 1.0    | р | 1.1    | р | 1.4 p   |
| Diffusion index   | 100.0  | 100.0  | 75.0   | 100.0  |   | 100.0  | • | 100.0  | • | 100.0   |

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 www.conference-board.org/data/bci.cfm

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## The Conference Board Leading Economic Index® (LEI) and The Conference Board Coincident Economic Index® (CEI) for Australia

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

|   | 2011   |   |                      |                  |                   |                       |                                   | 2012      |  |  |
|---|--|---|----------------------|------------------|-------------------|-----------------------|-----------------------------------|-----------|--|--|
| Component   | Nov. Dec. Jan. Feb. Mar. Apr.  Australia Leading Economic Index component data |   |                      |                  |                   |                       |                                   |           |  |  |
|   |  |   | Austra               | ilia Leadilig L  | .conomic inc      | iex componer          | it uata                           |           |  |  |
| Yield Spread<br>(10 Year - Policy Rate, 3 month moving average)                 | -0.53  |   | -0.58                | -0.60            | -0.47             | -0.28                 | -0.26                             | -0.49     |  |  |
| Share Prices, All Ordinaries<br>(Index 2005=100)                                | 97.3   |   | 96.8                 | 97.3             | 98.9              | 98.9                  | 100.5                             | 97.6      |  |  |
| Money Supply, M3<br>(Mill. Constant A\$, SA)                                    | 774477   | r | 783744 r             | 790593 r         | 792890            | r 797796              | r 801538 r                        | 812935 ## |  |  |
| Building Approvals,<br>(Thous. '08-'09 A\$, SA, 3 month moving average)         | 5550711  | r | 5429060 r            | 6787294 r        | 7306957           | r 7259949             | r 5883339 r                       | 6124371   |  |  |
| Rural Goods Exports,<br>(Mill. Constant A\$, SA)                                | 3011.6   | r | 2919.3               | 2823.6 r         | 2603.6            | r 2752.8 <sup>t</sup> | <sup>#</sup> 2754.2 <sup>##</sup> | 2977.5 ## |  |  |
| Sales to Inventories Ratio, SA (Q)  | 1.630  |   | 1.620                | 1.610            | 1.600             | 1.600 *               | * 1.590 **                        | 1.590 **  |  |  |
| Gross Operating Surplus, Private Non-Financial Corp. (Mill. '08-'09 A\$, SA, Q) | 72186  |   | 71014                | 69843            | 68671             | 68003 *               | * 67654 **                        | 67510 **  |  |  |
| LEADING INDEX (2004=100) Percent change from preceding month                    | <b>125.0</b><br>-1.1   |   | <b>124.3</b><br>-0.6 | <b>125.2</b> 0.7 | <b>124.8</b> -0.3 | <b>124.7</b><br>-0.1  |                                   | •         |  |  |
|   | Australia Leading Economic Index net contributions                             |   |                      |                  |                   |                       |                                   |           |  |  |
| Yield Spread<br>(10 Year - Policy Rate, 3 month moving average)                 |  |   | -0.07                | -0.08            | -0.06             | -0.04                 | -0.03                             | -0.06     |  |  |
| Share Prices, All Ordinaries<br>(Index 2005=100)                                |  |   | -0.02                | 0.02             | 0.08              | 0.00                  | 0.07                              | -0.13     |  |  |
| Money Supply, M3<br>(Mill. Constant A\$, SA)                                    |  |   | 0.31                 | 0.23 r           | 0.08              | r 0.16                | r 0.12 r                          | 0.37 ##   |  |  |
| Building Approvals,<br>(Thous. '08-'09 A\$, SA, 3 month moving average)         |  |   | -0.12 r              | 1.25 r           | 0.41              | r -0.04               | r -1.17 r                         | 0.22      |  |  |
| Rural Goods Exports,<br>(Mill. Constant A\$, SA)                                |  |   | -0.09                | -0.10            | -0.24             | r 0.16 <sup>f</sup>   | <sup>##</sup> 0.00 <sup>##</sup>  | 0.23 ##   |  |  |
| Sales to Inventories Ratio, SA (Q)  |  |   | -0.19                | -0.19            | -0.19             | -0.11 *               | * -0.06 **                        | -0.02 **  |  |  |
| Gross Operating Surplus, Private Non-Financial Corp. (Mill. '08-'09 A\$, SA, Q) |  |   | -0.22                | -0.22            | -0.23             | -0.13 *               | * -0.07 **                        | -0.03 **  |  |  |

p Preliminary. r Revised. -- \* Inverted series; a negative change in this component makes a positive contribution.

Data Sources: Australian Bureau of Statistics, Reserve Bank of Australia, Thomson Financial

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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<sup>#</sup> Estimates of the quarterly deflator (implicit price index) are used to deflate these series

<sup>##</sup> Estimates of the quarterly deflator (CPI) are used to deflate money supply.

Money Supply (M3) level from April 2002 and on are derived from growth rates reported by the Reserve Bank of Australia

<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 Leading Economic Index® (LEI) and The Conference Board Coincident Economic Index® (CEI) for Australia

Table 3.--Data and Net Contributions for Components of The Conference Board Coincident Economic Index® (CEI) for Australia

|  | 2011   |   |           |                |             |             | 2012        |  |  |  |  |  |
|--|--|---|-----------|----------------|-------------|-------------|-------------|--|--|--|--|--|
| Component  | Nov.   | Dec.  | Jan.      | Feb.           | Mar.        | Apr.        | May         |  |  |  |  |  |
|  | Australia Coincident Economic Index component data |   |           |                |             |             |             |  |  |  |  |  |
| Retail Trade                                     |  |   |           |                |             |             |             |  |  |  |  |  |
| (Mill. Constant A\$, SA, 3-month moving average) | 11644.6  | 11633.6 r   | 11635.1 r | 11655.0 r      | 11710.5 r   | 11755.9 r   | 11808.2     |  |  |  |  |  |
| Industrial Production                            |  |   |           |                |             |             |             |  |  |  |  |  |
| (Index 2008-09=100, SA, Q)                       | 101.9  | 102.3   | 102.7     | 103.1          | 103.5 **    | 103.7 **    | 104.0 **    |  |  |  |  |  |
| Employed Persons                                 |  |   |           |                |             |             |             |  |  |  |  |  |
| (Thousands of Persons, SA)                       | 11451.2  | r 11414.2 r   | 11463.4 r | 11448.7 r      | 11486.5 r   | 11499.6 r   | 11527.5     |  |  |  |  |  |
| Household Gross Disposable Income,               |  |   |           |                |             |             |             |  |  |  |  |  |
| (Mill. Constant A\$, SA. Q)                      | 131960.1   | 132638.8  | 133317.7  | 133996.9       | 134636.0 ** | 135238.2 ** | 135807.7 ** |  |  |  |  |  |
| COINCIDENT INDEX (2004=100)                      | 119.0  | 119.0   | 119.4     | <b>119.5</b> r | 120.0 p     | 120.3 p     | 120.7 p     |  |  |  |  |  |
| Percent change from preceding month              | 0.0  | 0.0   | 0.3       | 0.1 r          | 0.4 p       | 0.2 p       | 0.3 p       |  |  |  |  |  |
|  |  | Australia Coincident Economic Index net contributions |           |                |             |             |             |  |  |  |  |  |
| Retail Trade                                     |  |   |           |                |             |             |             |  |  |  |  |  |
| (Mill. Constant A\$, SA, 3-month moving average) | ••••   | -0.02   | 0.00 r    | 0.04 r         | 0.12 r      | 0.10        | 0.12        |  |  |  |  |  |
| Industrial Production                            |  |   |           |                |             |             |             |  |  |  |  |  |
| (Index 2008-09=100, SA, Q)                       |  | 0.03  | 0.03      | 0.03           | 0.03 **     | 0.02 **     | 0.02 **     |  |  |  |  |  |
| Employed Persons                                 |  |   |           |                |             |             |             |  |  |  |  |  |
| (Thousands of Persons, SA)                       |  | -0.14   | 0.19      | -0.06 r        | 0.15 r      | 0.05 r      | 0.11        |  |  |  |  |  |
| Household Gross Disposable Income,               |  |   |           |                |             |             |             |  |  |  |  |  |
| (Mill. Constant A\$, SA. Q)                      |  | 0.11  | 0.11      | 0.11           | 0.10 **     | 0.09 **     | 0.09 **     |  |  |  |  |  |

<sup>\*</sup> Inverted Series, a negative change in this component makes a positive contribution

Data Sources: Australian Bureau of Statistics, Reserve Bank of Australia, Thomson Financial

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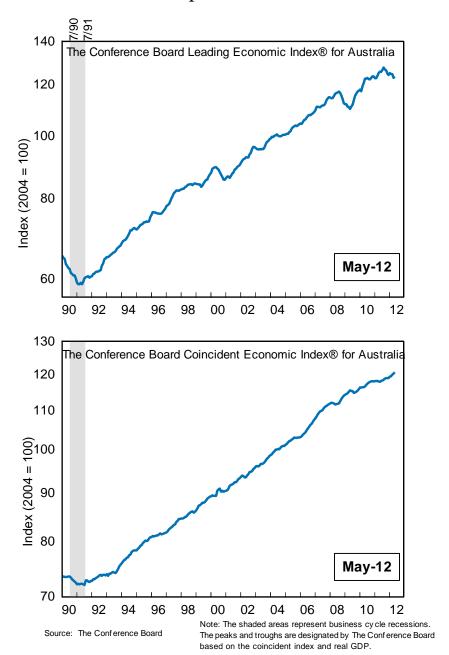
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<sup>\*\*</sup> Statistical Imputation (See page 2 for more details)

<sup>##</sup> Estimates of the quarterly deflator (CPI) are used to deflate retail trade

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

### Australia Composite Economic Indexes



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