# **Global Inflation-Linked Index (Series-L)**

The Bloomberg Barclays Global Inflation Linked Index (Series-L) measures the performance of investment-grade, government inflation-linked debt from 12 different developed market countries. Investability is a key criterion for inclusion of markets in this index, and it is designed to include only those markets in which a global government linker fund is likely and able to invest. Markets tracked by the index include the United Kingdom, Australia, Canada, Sweden, United States, France, Italy, Japan, Germany, New Zealand, Denmark and Spain. The index was created on October 31, 1997.



Note: October 2016 data are as of October 31

| Rules for Inclusion |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|
| Country Eligibility | As of November 2016, eligible countries include:   |  |  |  |  |  |
|                     | Americas: United States, Canada  |  |  |  |  |  |
|                     | Pan-European: United Kingdom, Sweden, France, Germany, Denmark, Italy, Spain   |  |  |  |  |  |
|                     | Asian-Pacific: Australia, Japan, New Zealand   |  |  |  |  |  |
|                     | Eligible countries must not be defined as an Emerging Market under the Barclays EM definition  |  |  |  |  |  |
| Quality             | Securities must be rated investment grade (Baa3/BBB-/BBB- or higher) using the middle rating of Moody's, S&P and Fitch; when a rating from only two agencies is available, the lower is used; when only one agency rates a bond, that rating is used. In cases where explicit bond level ratings may not be available, other sources may be used to classify securities by credit quality: |  |  |  |  |  |
|                     | • Local currency Treasury issues are classified using the middle issuer level rating from each agency for all outstanding bonds, even if bond level ratings are available.   |  |  |  |  |  |
| Amount Outstanding  | Fixed Minimum issue sizes (not adjusted for inflation indexation) are set for all local currency markets:  |  |  |  |  |  |
|                     | • 300mn: GBP   |  |  |  |  |  |
|                     | • 500mn: USD, EUR  |  |  |  |  |  |
|                     | • 6oomn: CAD   |  |  |  |  |  |
|                     | • 700mn:AUD  |  |  |  |  |  |
|                     | • 1bn: NZD   |  |  |  |  |  |
|                     | • 4bn: SEK   |  |  |  |  |  |
|                     | • 5bn:DKK  |  |  |  |  |  |

# Bloomberg



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## **Rules for Inclusion**

|                | • 50bn: JPY   |   |  |  |  |  |  |
|----------------|---|---|--|--|--|--|--|
|                | US TIPS held in the Federal Reserve SOMA account (both purchases at issuance and net secondary market transactions) are deducted from the total amount outstanding. New issuance bought at auction by the Federal Reserve does not enter the index. Net secondary market purchases/sales are adjusted at each month-end with a one-month lag. |   |  |  |  |  |  |
| Coupon         | Fixed-rate coupon   |   |  |  |  |  |  |
| Maturity       | • At least 1 year until final maturity  |   |  |  |  |  |  |
| Security Types | Included  | Excluded  |  |  |  |  |  |
|                | Eligible bonds must be capital-indexed and linked   | US TIPS held in the Federal Reserve SOMA account          |  |  |  |  |  |
|                | to a commonly used domestic inflation index   | <ul> <li>Nominal bonds and floating-rate bonds</li> </ul> |  |  |  |  |  |
|                |   | <ul> <li>Non-government inflation-linked bonds</li> </ul> |  |  |  |  |  |
|                |   | STRIPS, Treasury bills, bellwethers                       |  |  |  |  |  |
|                |   | Private placements, retail bonds                          |  |  |  |  |  |

## **Rebalancing Rules**

| Frequency                  | For each index, Bloomberg maintains two universes of securities: the Returns (Backward) and the Projected (Forward) Universes.<br>The composition of the Returns Universe is rebalanced at each month-end and represents the fixed set of bonds on which index<br>returns are calculated for the next month. The Projected Universe is a forward-looking projection that changes daily to reflect<br>issues dropping out of and entering the index but is not used for return calculations. On the last business day of the month (the<br>rebalancing date), the composition of the latest Projected Universe becomes the Returns Universe for the following month. |
|----------------------------|---|
| Index Changes              | During the month, indicative changes to securities (credit rating change, sector reclassification, amount outstanding changes, corporate actions, and ticker changes) are reflected daily in the Projected and Returns Universe of the index. These changes may cause bonds to enter or fall out of the Projected Universe of the index on a daily basis, but will affect the composition of the Returns Universe at month-end only, when the index is next rebalanced.   |
| Reinvestment of Cash Flows | Intra-month cash flows from interest and principal payments contribute to monthly index returns but are not reinvested at a short-term reinvestment rate between rebalance dates. At each rebalancing, cash is effectively reinvested into the returns universe for the following month so that index results over two or more months reflect monthly compounding.  |
| New Issues                 | Qualifying securities issued, but not necessarily settled on or before the month-end rebalancing date, qualify for inclusion in the following month's index if the required security reference information and pricing are readily available.   |

## Pricing and Related Issues

| Sources & Frequency    | uency All index-eligible bonds are priced daily by BVAL   |  |  |  |  |  |  |
|------------------------|---|--|--|--|--|--|--|
| Pricing Quotes         | The index uses mid-market prices according to local market quote conventions  |  |  |  |  |  |  |
| Timing                 | Americas: 3pm (New York Time), 4pm (Toronto time) for Canadian linkers  |  |  |  |  |  |  |
|                        | Pan-European: 4:15pm (London Time); 5:15pm (Stockholm time) for Swedish Linkers   |  |  |  |  |  |  |
|                        | Asian-pacific: 3pm (Tokyo time) for Japanese linkers; 5:00pm (Sydney time) for Australian and New Zealand linkers               |  |  |  |  |  |  |
|                        | • If the last business day of the month is a public holiday, prices from the previous business day are used.                    |  |  |  |  |  |  |
|                        | If the market has an early close, the early close price is used.  |  |  |  |  |  |  |
| Bid or Offer Side      | Bonds in the index are priced on the mid side.  |  |  |  |  |  |  |
| Settlement Assumptions | T+1 calendar day settlement basis.  |  |  |  |  |  |  |
|                        | • At month-end, settlement is assumed to be the first calendar day of the following month, even if the last business day is not |  |  |  |  |  |  |

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## Pricing and Related Issues

| the last day of the month, to allow for one full month of accrued interested to be calculated. |   |  |  |  |  |
|--|---|--|--|--|--|
| Verification   | Daily price moves for each security are analyzed and compared with other third-party pricing sources by the index pricing tea to identify outliers. Index users may also challenge price levels, which are then reviewed and updated as needed using input fro various sources.   |  |  |  |  |
| Currency Hedging   | Returns hedged to various currencies are published for multi-currency indices. The indices' FX hedging methodology takes rolling one-<br>month forward contracts that are reset at the end of each month and hedges each non-reporting currency-denominated bond in the<br>index into the reporting currency terms. No adjustment is made to the hedge during the month to account for price movements of<br>constituent securities in the returns universe of the index. |  |  |  |  |
| Calendar   | The Global Inflation Linked Index (Series-L) is a global, multi-currency index that is calculated daily and has a value for each calendar day. During holidays observed by local markets, the index will still be generated using prices from previous business day.  |  |  |  |  |

## Monthly Returns in USD, 2007-2016 (%)

|      | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | YTD   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2007 | -1.24 | 2.26  | -0.1  | 1.65  | -1.92 | 0.07  | 2.97  | 0.82  | 2.55  | 2.2   | 2.71  | -0.67 | 11.74 |
| 2008 | 3.32  | 1.87  | 1.75  | -2.18 | 0.15  | 1.8   | -0.58 | -2.28 | -5.14 | -11.9 | -1.07 | 7.59  | -7.69 |
| 2009 | -2.05 | -3.69 | 5.83  | 0.59  | 5.78  | 0.88  | 1.71  | 1.64  | 1.66  | 1.71  | 2.67  | -3.42 | 13.58 |
| 2010 | -0.55 | -2.06 | 0.88  | 0.52  | -3.48 | 1.18  | 3.22  | 1.59  | 2.97  | 1.78  | -4.28 | 1.54  | 3.03  |
| 2011 | 0.67  | 1.85  | 1.03  | 4.41  | -0.39 | -0.01 | 2.68  | -0.32 | -2.46 | 2.51  | -1.04 | 1.03  | 10.23 |
| 2012 | 2.52  | 0.97  | -0.86 | 0.89  | -1.29 | 0.16  | 1.13  | 1.28  | 0.75  | 0.48  | 1.45  | 0.75  | 8.49  |
| 2013 | 0.52  | -2.34 | 0.91  | 2.58  | -4.42 | -3.87 | 1.46  | -0.67 | 3     | 0.92  | -0.28 | -0.74 | -3.19 |
| 2014 | 0.85  | 1.65  | 0.27  | 1.67  | 1.04  | 0.85  | -0.57 | 1.25  | -3.41 | 0.07  | 0.97  | -1.16 | 3.41  |
| 2015 | 0.36  | -0.8  | -1.09 | 2.14  | -1.68 | -0.27 | 0.73  | -1.3  | -0.69 | 0.71  | -1.33 | -1.79 | -4.97 |
| 2016 | 0.88  | 0.12  | 3.67  | 0.26  | -0.54 | 1.93  | 1.04  | 2.03  | 0.06  | -3.29 | _     | _     | 6.59  |
|      |       |       |       |       |       |       |       |       |       |       |       |       |       |

#### **Accessing Index Data**

Bloomberg Professional® service Bloomberg benchmarks are the global standard for capital markets investors.

- INDEX<Go> The Bloomberg Indices Introduction page is a dashboard for index-related information on the terminal. Find daily and monthly index returns for key indices from each index family as well as index publications including methodologies, factsheets, monthly reports, updates and alerts.
- IN<Go> The Bloomberg Index Browser displays the latest performance results and statistics for the indices as well as
  history. IN presents the indices that make up Bloomberg's global, multi-asset class index families into a hierarchical
  view, facilitating navigation and comparisons. The "My Indices" tab allows a user to focus on a set of favorite indices.
- PORT<Go> Bloomberg's Portfolio & Risk Analytics solution includes tools to analyze the risk, return, and current structure of indices. PORT includes tools to analyze performance of a portfolio versus a benchmark as well as models for performance attribution, tracking error analysis, value-at-risk, scenario analysis, and optimization.
- DES<Go> The index description page provides transparency into the current and projected index universe including membership information, aggregated characteristics and returns, and historical data.

| Bloomberg Indices Website<br>(www.bloombergindices.com) | The index website makes available limited index information including: <ul> <li>Index methodology and factsheets</li> </ul>                       |  |  |  |  |
|---|---|--|--|--|--|
|   | Current performance numbers for select indices  |  |  |  |  |
| Data Distribution                                       | Index subscribers may choose to receive index data in files. Files may include:   |  |  |  |  |
|   | <ul> <li>Index level and/or constituent level returns and characteristics for any indices</li> </ul>  |  |  |  |  |
|   | <ul> <li>Automatic delivery of files via email or SFTP following the completion of the index production process after market<br/>close</li> </ul> |  |  |  |  |
|   | Clients may receive standard files or may customize file contents   |  |  |  |  |
|   | Index data is also available via authorized redistributors  |  |  |  |  |

#### Bloomberg Total Return Index Value Tickers Global Inflation- Linked Index (Series-L) and Related Indices

| Ticker (USD Unhedged) | Index  | Ticker (USD Unhedged) | Index                        |
|-----------------------|--|-----------------------|------------------------------|
| LF94TRUU              | Global Inflation-Linked (Series-L)           | LBUTTRUU              | US TIPS (Series-L)           |
| LR10TRUU              | Global Inflation-Linked 1-10 Year (Series-L) | BUT <sub>5</sub> TRUU | US TIPS 1-5 Year (Series-L)  |
| LRo3TRUU              | Global Inflation-Linked 10+ Year (Series-L)  | LT11TRUU              | US TIPS 1-10 Year (Series-L) |

Total Return Index Values are available in other currencies and on a hedged basis. Attributes such as yield and duration, are also available. Please refer to Accessing Bloomberg Barclays Index Data Using Bloomberg Tickers for a full list of tickers and attributes that are available.

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