

Global Treasury Index

The Bloomberg Global Treasury Index tracks fixed-rate, local currency government debt of investment grade countries, including both developed and emerging markets. The index represents the treasury sector of the Global Aggregate Index. The index was created in 1992, with history available from January 1, 1987.

Rules for Inclusion

Eligible Currencies

- Principal and interest must be denominated in one of the following eligible currencies:
 - Americas: CAD, CLP, COP, MXN, PEN, USD
 - EMEA: CHF, CZK, DKK, EUR, GBP, HUF, ILS, NOK, PLN, RON, RUB, SEK
 - Asian-Pacific: AUD, CNY, HKD, IDR, JPY, KRW, MYR, NZD, SGD, THB
- Eligible currencies will not necessarily have debt included in the index if no securities satisfy the inclusion rules.
- New market inclusion is reviewed on an annual basis through the index governance process. To be considered for inclusion, new market candidates must be investment grade and sufficiently tradable, convertible and hedgeable for offshore investors.

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 local currency from each agency for all outstanding bonds, even if bond-level ratings are available.
- Expected ratings at issuance may be used to ensure timely index inclusion or to classify split-rated issuers properly.
- For the Canadian Dollar market, DBRS is considered in addition to Moody's, S&P and Fitch. When all four ratings agencies are available, the highest and lowest rating are removed and the lower of the two remaining is used.

Maturity

- At least one year remaining until maturity, regardless of optionality.
- Sub-indices based on maturity are inclusive of lower bounds. Intermediate maturity bands include bonds with maturities of 1 to 9.9999 years. Long maturity bands include maturities of 10 years or greater.

Coupon

- Fixed-rate coupon
- Original zero coupon issues are included
- Globally settled bonds that are denominated in native currency, but settle in USD, are eligible.

Amount Outstanding Fixed minimum issue sizes are set for all local currency markets:

- 150mn: CAD
- 300mn: USD, EUR, CHF, AUD
- 200mn: GBP
- 1bn: RON, PEN
- 35bn: JPY
- 2bn: DKK, NOK, PLN, ILS, HKD, MYR
- 2.5bn: SEK
- 5bn: CNY
- 10bn: MXN, CZK, THB
- 20bn: RUB
- 500mn: NZD, SGD
- 100bn: CLP
- 200bn: HUF
- 500bn: KRW
- 1trn: COP
- 2trn: IDR

Market of Issue Fully taxable, publicly issued in the global and regional markets.

Security Types

Included

- Bullet, putable, sinkable/amortizing and callable bonds
- Original issue zero coupon bonds

Excluded

- Debt issued by central governments in non-domestic currencies
- Inflation-linked bonds, floating-rate issues
- Private placements, retail bonds
- Sinkable Russian OFZ bonds issued prior to 2009
- STRIPS
- Treasury bills with less than one year to maturity
- Illiquid securities with no available internal or third-party pricing source

Rebalancing Rules

Frequency

For each index, Bloomberg maintains two universes of securities: the Returns (Backward) and the Projected (Forward) Universes. The composition of the Returns Universe is rebalanced at each month-end and represents the fixed set of bonds on which index returns are calculated. The Projected Universe is a forward-looking projection that changes daily to reflect issues dropping out of and entering the index but is not used for return calculations. On the last business day of the month (the 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 Universes 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	All index-eligible bonds are priced on a daily basis by Bloomberg's evaluated pricing service, BVAL, except CHF-denominated bonds, which are priced by SIX.
Pricing Quotes	Bonds are quoted as a percentage of par.
Timing	<p>Prices are snapped at the following times:</p> <ul style="list-style-type: none"> • North American currency bonds: 4 pm (New York time); 4 pm (Toronto time) for CAD-denominated securities. USD-denominated bonds prior to January 14, 2021 used 3pm New York time pricing snap. • Pan-European currency bonds: 4:15 pm (London time); 4 pm (London time) for CHF-denominated securities. • Asian currency bonds: 5 pm (Sydney time) for AUD-denominated and NZD-denominated securities; 3 pm (Tokyo time) for JPY-denominated securities; 5 pm (Shanghai time) for CNY-denominated securities; 5 pm (Tokyo time) for all other securities. <p>If the last business day of the month is a public holiday in a major regional market, prices from the previous business day are used to price bonds in the particular market.</p>
Bid or Offer Side	Euro treasuries, Sterling gilts and JGBs are priced on the mid side. Non EUR-, GBP- and JPY-denominated treasuries in the index are priced on the bid side. EM local currency bonds enter the index on the offer side in the first month, and are subsequently priced on the bid side.
Settlement Assumptions	T+1 calendar day settlement basis for all bonds. At month-end, settlement is assumed to be the first calendar day of the following month, even if the last business day is not the last day of the month, to allow for one full month of accrued interest to be calculated.
Verification	Daily price moves for each security are analyzed by the index pricing team to identify outliers. Index users may also challenge price levels, which are then reviewed and updated as needed.

Calendar	The Global Treasury Index is a global, multi-currency index that is generated every business day of the year except for January 1, the only holiday common to all regional calendars. During holidays observed by local markets, the index will still be generated using prices from the previous business day. FX rates are updated daily using WM Reuters 4 p.m. (London) rates
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Index History

January 14, 2021	Pricing time moved from 3 p.m. to 4 p.m. EST for USD prices. For early close days, prices are snapped at 2 p.m. EST.
September 1, 2020	COP, PEN, and RON denominated debt added to the index.
April 1, 2019	CNY-denominated debt added to the index.
June 1, 2018	Indonesian rupiah debt added back to the Global Treasury Index.
April 1, 2018	South African rand debt removed from the index.
April 1, 2017	Hungarian forint debt added back to the index.
October 1, 2016	Turkish lira debt removed from the index.
April 1, 2014	Russian ruble and Turkish lira treasury debt added to the index. Hungarian forint no longer an eligible currency for the Global Treasury Index.
April 1, 2013	Fixed local currency minimum issue sizes set for all local currency bond markets.
January 1, 2012	Israeli shekel-denominated bonds eligible for the index. Taiwan dollar-denominated debt removed from the index.
January 1, 2010	Swiss franc-denominated bonds eligible for inclusion in the index.
July 1, 2008	Thai baht debt added back to the Global Treasury Index.
March 1, 2007	Thai baht debt removed from the index.
January 1, 2006	Taiwan dollar and Malaysian ringgit eligible for the index.
January 1, 2005	South African rand, Chilean peso, Mexican peso, Czech koruna, Hungarian forint, Polish zloty, Slovenian tolar and Slovakian koruna eligible for inclusion in the index.
July 1, 2005	Fitch ratings added to Moody's and S&P to determine index eligibility based on the middle rating from each agency.
September 1, 2004	Hong Kong dollar local currency debt included in the index.
October 1, 2003	Lower of Moody's and S&P rating used to determine index eligibility; previously Moody's was used as the primary rating with S&P rating used in cases where a Moody's rating was unavailable.
January 1, 2002	Liquidity constraint changed to multiple regional currency constraints from the sole USD300mn equivalent criteria
June 1, 2001	Local currency government debt from Greece included in the index.
October 1, 2000	Liquidity constraint for all securities in the index raised to USD300mn (or currency equivalent) from USD150mn.
January 1, 1999	Global Treasury Index became a subset of the Global Aggregate Index.
April 1, 1992	Inception of Global Treasury Index. Historical data available from January 1987.

Sub-indices and Index Customizations

Bloomberg publishes numerous sub-indices of flagship indices and bespoke benchmarks created for specific index users. Several types of bespoke indices are available to select or customize the most appropriate benchmark for specific portfolio needs:

Sub-Index Type	Description	Examples
Enhanced Constraint	Applies a more or less stringent set of constraints to any existing index.	<ul style="list-style-type: none"> • Global Treasury G7 • Global Treasury 1-3 Year
Composites	Investors assign their own weights to sectors or other index sub-components within an overall index.	<ul style="list-style-type: none"> • 50% Global Treasury; 50% Global Aggregate ex Treasury
Alternative Weights	Uses other rules-based weighting schemes instead of market value weights.	<ul style="list-style-type: none"> • Global Treasury GDP Weighted • Global Treasury Fiscal Strength Weighted
Mirror Futures Index (MFI)	An index consisting of 14 funded futures contracts weighted to match closely the beginning-of-month OAD of the index	<ul style="list-style-type: none"> • Global Treasury Mirror Futures Index
Duration Hedged	Indices constructed to reflect the underlying return of an index with its duration fully or partially hedged using its MFI	<ul style="list-style-type: none"> • Global Treasury Duration Hedged Index

Accessing Index Data

Bloomberg Terminal®	<p>Bloomberg benchmarks are the global standard for capital markets investors.</p> <ul style="list-style-type: none"> • INDE<GO> - The Bloomberg Indices dashboard page, which contains daily, monthly, and year-to-date index returns for key indices from each index family as well as a link to index publications. • 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. • DES<GO> - The index description page provides transparency into an individual index including membership information, aggregated characteristics and returns, and historical performance. • INP<GO> - The Bloomberg Indices Publications page, which includes methodologies, factsheets, monthly reports, announcements and technical notes. A user may also subscribe to index publications via the "Actions" button. • PORT<GO> - Bloomberg's Portfolio & Risk Analytics solution includes tools to analyze the risk, return, and current structure of indices. Analyze the performance of a portfolio versus a benchmark or use models for performance attribution, tracking error analysis, value-at-risk, scenario analysis, and optimization.
Bloomberg Indices Website (www.bloomberg.com/indices)	<p>The index website makes available limited index information including:</p> <ul style="list-style-type: none"> • Index methodology and factsheets • Current performance numbers for select indices

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- Index level and/or constituent level returns and characteristics for any indices
- Automatic delivery of files via email or SFTP following the completion of the index production process after market close
- Clients may receive standard files or may customize file contents
- Index data is also available via authorized redistributors

Index Ticker

BTSYTRUU: Total Return USD Unhedged

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